LINK

INNOVATE YOUR INDUSTRY

PRODUCT CATALOGUE LINK 2026

Cutting tools
Clamping systems
Metrology
Oils and cooling lubricants
Hand tools
Abrasives
Safety equipments
Power tools
Lifting system
Workstations and storage


LINK
INNOVATE YOUR INDUSTRY



SHIPPING POLICY

Standard delivery

Delivery is usually within 24 hours after the order confirmation has been received.
Delivery within 24 hours is not guaranteed for products in which the price is shown in brackets.

Free delivery:

Delivery is free for orders of €200 (VAT excluded) or more, as long as they do not include bulky items.
For orders less than €200, a delivery charge of €10.50 will apply, as long as they do not include bulky items.

Bulky items:

A delivery charge of 5% of the value of the item will be applied for bulky items (e.g. industrial furniture).
For products such as containers, buckets, large and/or oversized items, we reserve the right to provide a quote when making the offer (the cost may vary from those indicated above due to the size of the products, according to the market quotations of the carriers).

CUSTOMER SERVICE

+39 02 927371
info@linkindustrialtools.it

HOURS OF BUSINESS

Monday to Friday
08:30 - 12:30
13:30 - 17:30

www.linkindustrialtools.com

CUSTOMER NUMBER

USER - WEBSITE

OUR GROUP



A+B
INDUSTRIAL TOOLS COMPANY

Link *is a company part of a large family,* ***A+B Group****, able to supply any tools and products around 3 meters from the machine tools.*

The technological level of the products that the group produces and markets is designed to reduce processing time, increase the production level and improve efficiency and operations within the mechanical workshop.

OUR CATALOGUE



OUR CATALOGUE

User-friendly

Complete

International

SIMPLE AND COMPLETE

You can find any type of product in our practical and handy catalogue: from cutting tools to measuring instruments, lubricants, hand tools, lifting equipment and even furniture for your company.

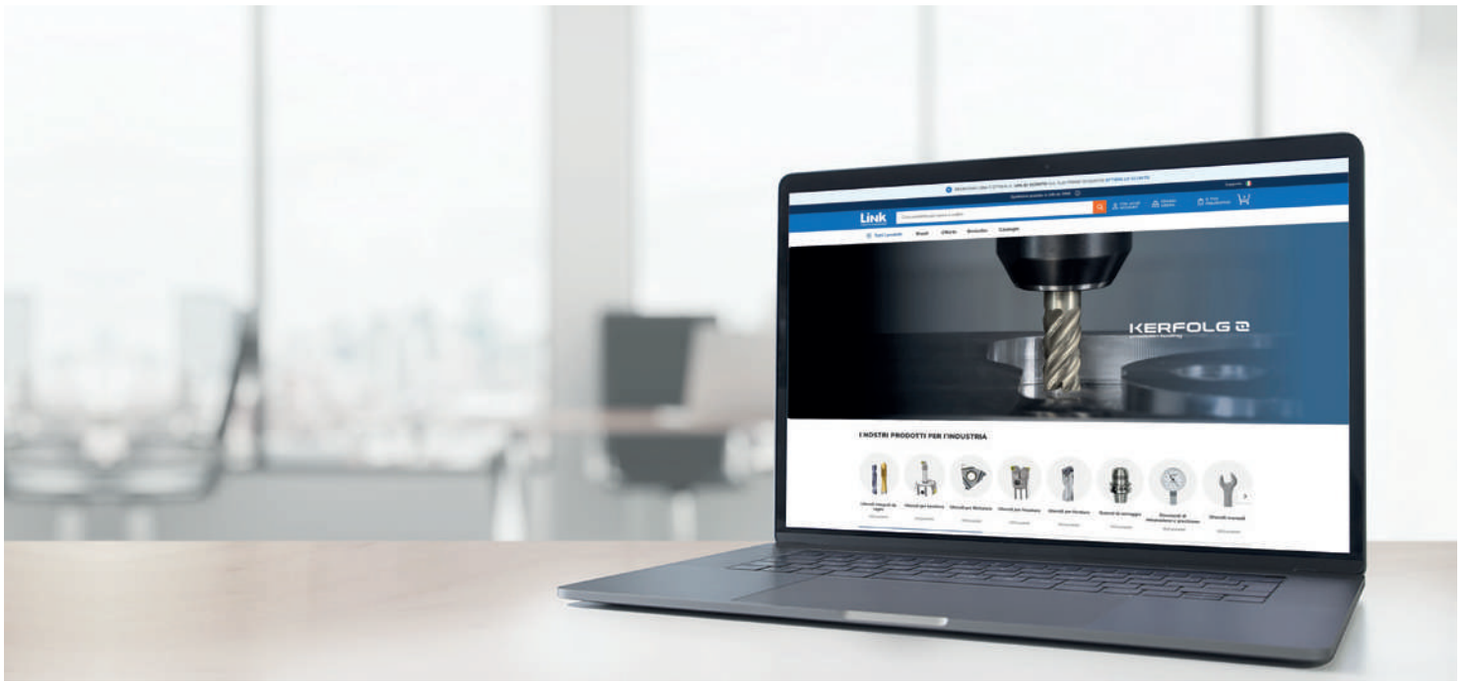
It includes technical specifications, detailed images, application advice and much more.

MULTILINGUAL CATALOGUE

Our catalogue is available in six languages.

- Italian
- English
- German
- Spanish
- Polish

OUR E-SERVICES



E-COMMERCE

A technological platform full of features that allows you to purchase the products you need directly, in a simple click, with access to a whole universe of dedicated special offers. You can monitor the availability of each article and access updated information in real time. Cost centre allocation, customised product code searches, and a hierarchical access structure with multiple authorisation levels are just some of the features that help speed up the purchasing process.

AUTOMATIC REORDERING

Our services and tools such as Linkode, Matrix and DPI manager enable you to monitor your inventory and reorder products automatically.

OUR E-SERVICES

E-commerce

Stock management

DPI manager

BRAND PARTNER



OTHER BRANDS



CATALOGUE BRANDS

OUR BRANDS

















OUR BRANDS

Our branded products are characterised by high quality level of excellence, a unique design and outstanding efficiency.

High quality and competitive prices make our brands a valid alternative to the market leaders.

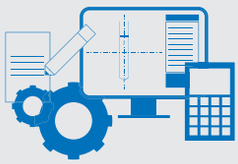


KERFOLG THE BEST CHOICE



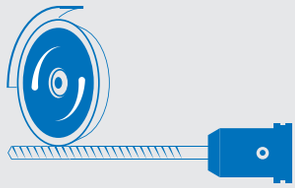
CUSTOMER REQUIREMENTS

The customer is both our starting point and our end point. Listening to our customers and satisfying their needs is our goal.



WE DEVELOP IT

Our team of project managers enables us to put all our experience and knowledge together to find innovative and unique ad hoc solutions to meet your needs.



WE PRODUCE IT

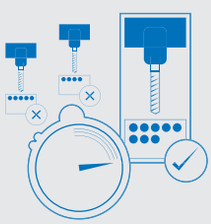
We personally oversee the production of our tools in order to guarantee the highest levels of quality, even with large-scale production.

KERFOLG

PRECISION TOOLING

All of the cutting tools are made by carefully designing their geometries and selecting the materials and coatings to ensure maximum productivity for all types of processing.





WE TEST IT

We inspect every single tool in accordance with the strictest quality standards and constantly carry out comparative tests to improve the quality of our products.



YOUR TOOL

And what is the result of all this?
The perfect cutting tool to solve our customer's problems.
What you need to make the difference!

KERFOLG

Premium brand

Products for high productivity

Research and innovation



LANDOIL THE IDEAL PARTNER

PRODUCTION

With the aim of creating a modern facility that combines technology, innovation and a high degree of automation, the Landoil production site is one of the most technologically advanced on the market.

PRODUCTS

There can be no innovation without research. That is why our chemists are constantly working on new formulations to offer technologically advanced products, based on a concept of ethically responsible innovation where safety is a top priority.

FUTURA LAB

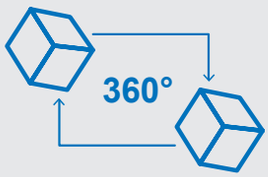
A key strength of Landoil, the Futura Lab operates proactively in response to market needs, placing the health of the operator at the very heart of its products. For this reason, the sourcing of raw materials, chemical formulations, and both testing and production environments fully comply with the highest quality standards.

Landoil

YOUR SAFETY, OUR FUTURE.

The Landoil brand embodies the highest standards of safety in the market for industrial coolants and lubricants. All coolants, full-film cutting oils, machine lubricating oils, greases and protective coatings are researched, formulated and manufactured with a single, overarching goal: to minimise risks to operators on a daily basis.





LOGISTICS

Landoil's logistics department, like the other business divisions, is designed to be as efficient and innovative as possible. At Landoil, the concept of quality is not just limited to the actual products, but extends to all company areas.



SERVICES

Our approach, which has always been to provide the best possible assistance to customers and machine tools, has allowed us to develop an entire range of additional services that we are in full control of and manage independently, adding greater value to our offer.

LANDOIL

Manufacturers of technology and innovation

Safe formulations

Industrial lubrication systems of 360°



LTEC CHEMICAL DIVISION



CUSTOMER REQUIREMENTS

For over 20 years, the LTec Brand has been synonymous with performance and safety. Experience and Development at the service of our customers. Ltec offers a range of chemicals and detergents for every requirement and use.



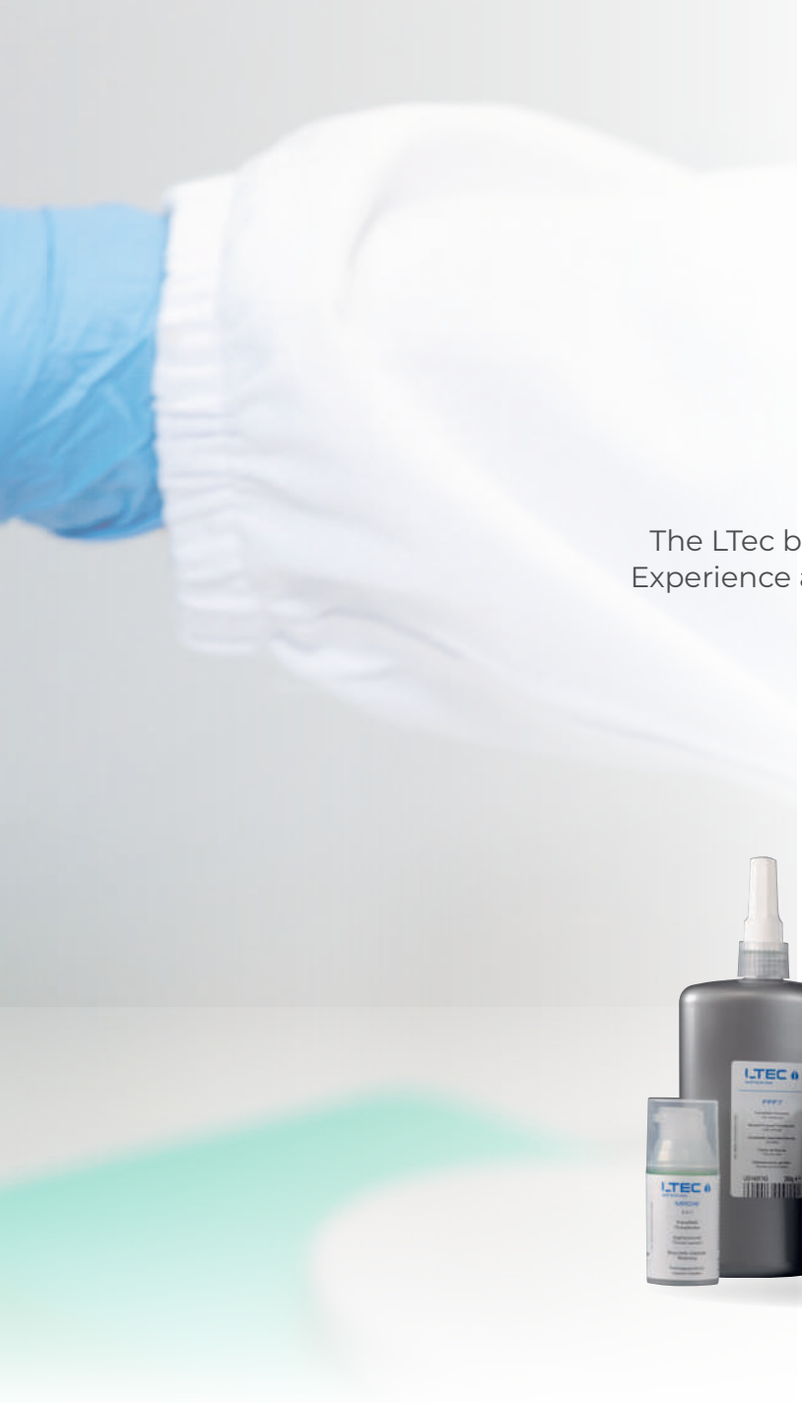
RESEARCH

LTec Chemical Division means continuous research to improve the performance of our products. Our team of specialists collaborates with universities and specialised centres to create new formulations and works closely with our partners.



BIOCOMPATIBILITY

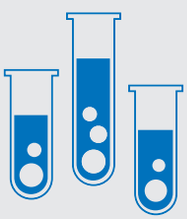
Two concepts are fundamental for us: HEALTH and EFFICIENCY. We aim to offer biocompatible products that guarantee high performance whilst safeguarding health and safety in the workplace. Being green and offering high performance products is what distinguishes us.



LTEC
CHEMICAL DIVISION

The LTec brand is synonymous with performance and safety.
Experience and Development at the service of our customers.
Every day we develop, test and improve
our products in our lab thinking of your needs.





LABORATORY AND ANALYSIS

Our laboratory is equipped with the most up-to-date and sophisticated analysis equipment. This enables us to study a diverse range of issues relating to chemical formulas and their applications, and to subsequently resolve these.



THE PRODUCT FOR YOU

By constantly updating our technologies and carrying out extensive research, we can provide an excellent service to every sector of industry. Thanks to our close relationship with our customers, the marketing of LTec products constantly anticipates the needs of the market.

LTEC

Research and development

Health and efficacy

Laboratory and analysis



WODEX EFFICIENCY AND DESIGN



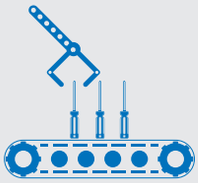
CUSTOMER REQUIREMENTS

Our customers are always looking for manual tools that combine design and ease of use.



WE DEVELOP IT

In order to do this, we have a dedicated team, which in close contact with the customer develops ergonomic, practical and handy products.



WE PRODUCE IT

We produce our tools directly using quality raw materials.

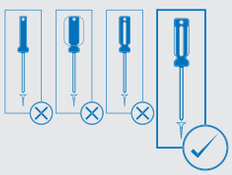


WODEX

OUR PREMIUM MRO BRAND

In our catalogue you will find a complete range of hand tools designed for the maintenance and repair of machines and all types of assembly operations. Ergonomic design and high quality materials ensure precision and ease of use.





WE TEST IT

Through a process of selective testing, we guarantee that each individual product placed on the market can meet even the most exacting customer requirements.



YOUR PRODUCT

And what is the result of all this?
Practical and easy to use hand tools with an appealing design which meet the highest ergonomic standards.

WODEX

High standards

Perfect ergonomics

Carefully selected materials

High efficiency and a unique design



ALPA UNDERLINE PRECISION



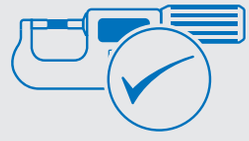
PRODUCTS

Everything we produce is designed to boost our customers' productivity by simplifying all types of measurement. With over 3,000 products in our catalogue, Alpa's range offers the most technologically advanced yet user-friendly solutions currently available on the European market.



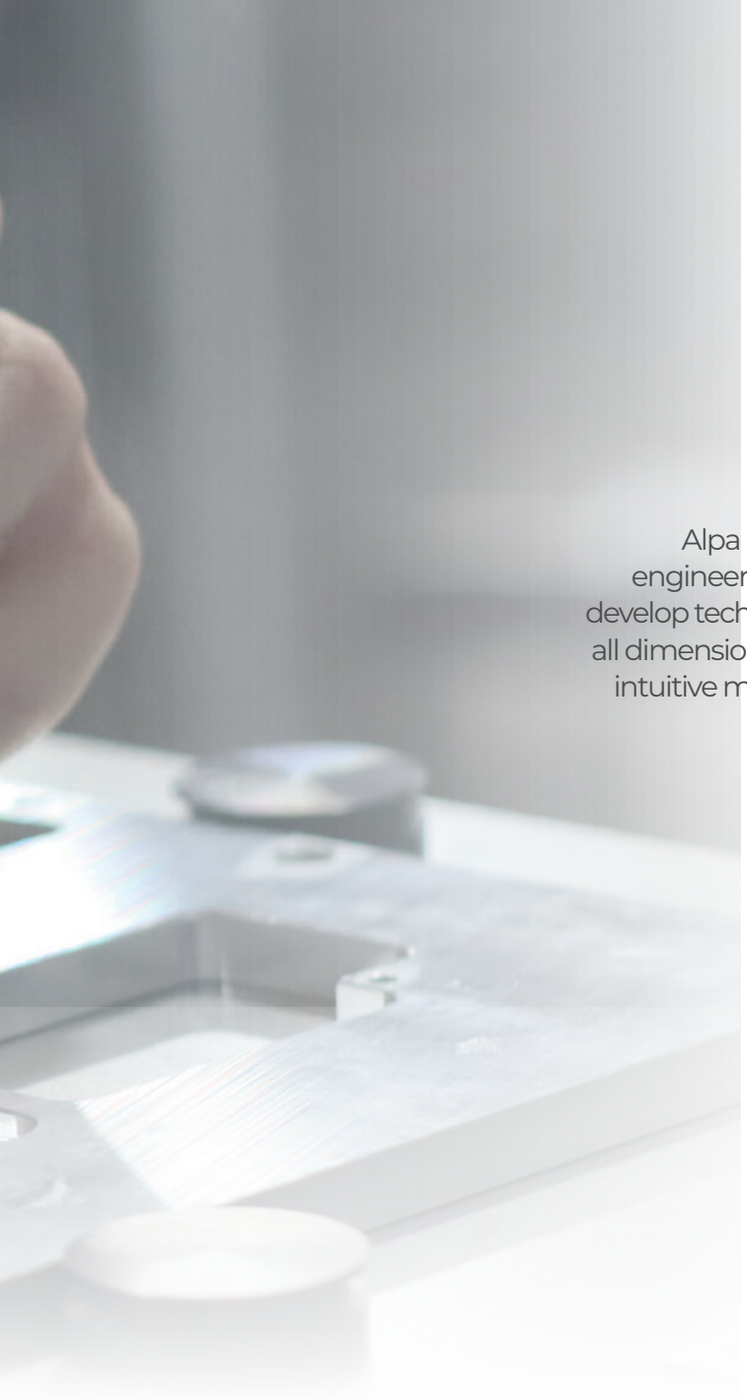
TRAININGS

ALPA provides the great experience of its technicians for training courses in the classroom or at your premises.



CALIBRATION

A measuring instrument cannot be used without a calibration certificate. That is why we have invested in setting up an accredited calibration laboratory, which enables us to carry out calibrations on newly supplied instruments or periodic checks on equipment already in use.

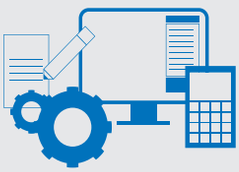


ALPA

PRECISION MADE SIMPLE

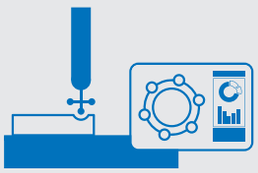
Alpa manufactures measuring machines and instruments for the engineering industry. Market developments have led the company to develop technologically advanced solutions that enable users to carry out all dimensional inspection operations on machined parts in a simple and intuitive manner, whilst remaining within 3 metres of the machine tool.





R&D

In ALPA there is an R & D department always ready to develop and test new solutions to meet your most special needs.



3D MEASURING MACHINES

We offer a wide range of 3D machines that are extremely easy to operate, thanks to intuitive software and construction specifications that also allows these technologies to be used in production environments.

ALPA

High precision

Simplicity

Experience

Calibration

Metrological consultancy



B-HANDLING TO BE SAFE

CUSTOMER NEEDS

Companies today pay a lot of attention to the safety of operators; therefore, they need to facilitate their work with performing and safe lifting systems.

WE DEVELOP IT

Thanks to our technical department, always in close contact with our sales representatives, the market's needs are always the main objective for creating ergonomic and easy -to-handle systems.

WE PRODUCE IT

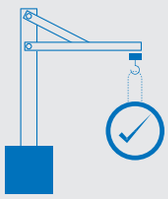
We produce our plants in our production plant in Bentivoglio (BO), using high-quality raw materials.

B·HANDLING

OUR BRAND FOR LIFTING

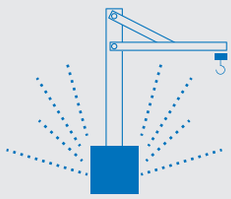
In our catalog you will find a complete assortment of lifting and handling systems suitable for different types of loads. Moreover, thanks to the services of installation and regular maintenance on cranes and hoists, we also relieve you from administrative procedures to comply with legal obligations, ensuring a longer life of the plants and a safer working environment.





WE TEST IT

All manufactured products must pass quality control process aimed at rational elimination of any foreseeable risk or malfunction.



YOUR PRODUCT

The result of all this? Lifting systems in line with the market needs, practical and performing, for handling in absolute safety.

B-HANDLING

Performing and safe lifting systems

Ergonomic and easy-to-handle systems

Services of installation and regular maintenance



GUABO BAND SAW BLADES



HIGH QUALITY STANDARDS

The high technological level and the automation of production processes guarantee a constant and consistent quality standard.



QUALITY CONTROL AREA

The production cycle includes a strict protocol within the quality control process, as part of which specific tests and checks are performed on samples.



OUR TESTS

- welding rectilinearity
- welding elasticity
- thickness control
- mechanical resistance to the torsion

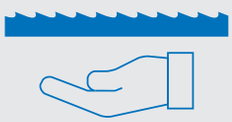


GUABO

TRADITION AND INNOVATION

Guabo, a LINK group partner, is one of the most important Italian manufacturers of industrial blades. With its highly qualified staff, state-of-the-art instrumentation and technical consultation services, the company is an ideal partner for all cutting operations.





CUSTOMIZED SERVICE

GUABO offers a wide portfolio of blades for band saws: welded-to-measure loops and coils in industrial sizes.



24H DELIVERY

We can guarantee fast delivery on most of our products.

GUABO

Industrial band saw blades

Excellent performance

Direct consultancy





DELIVERY IN 24 HOURS

ORDER

Place an order through our sales network or via the online platform.

ORDER CHECKING

The order is received, verified and processed immediately..

ORDER PREPARATION

The details of the order are forwarded to the warehouse where the products to be shipped are prepared.



LOGISTICS

LARGER AND FASTER

We have a warehouse that covers over 30,000 square metres with a highly automated and advanced logistics system. We handle over 28,000 items and provide full tracking at each step of the process: we know where your product is at all times. Processes are continuously monitored and improved. 24-hour guaranteed delivery.



CHECKING AREA

The products leaving the warehouse undergo a quality control inspection and we make sure that the specific requests of the customer have been complied with.

PACKAGING AREA

The products are packaged and labelled with a barcode which enable them to be tracked.

SHIPPING

Your product will be delivered in 24h from the validation of your order.

LOGISTICS

30,000 m2

28,000 items

Delivery within 24 hours

Quality control









ADVICE ON LIFTING SYSTEMS

Production, assembly, distribution and maintenance of products for the handling and transport of raw materials, semi-finished and finished products.

DPI MANAGER

DPI automatic dispensers that manages the entire distribution and supply flow of things used daily in the company 24 hours a day. Following user identification via badge, tag or biometric systems, the vending machines displays only the object related to the task on the screen and guides the operator through graphic indications. A factory completely dedicated to the world of tool resharpening and construction of special customized tools, designed to optimize processes and the quality of results.

WAREHOUSE MANAGEMENT

We use Linkode to manage your inventory and Matrix to automate your logistics.
By monitoring use and inventory management optimisation, we ensure that orders are placed automatically only when needed, and for the required quantity.

SPECIALIZED TOOLS AND RESHARPENING

A factory completely dedicated to the world of tool resharpening and construction of specialized customized tools, designed to optimize processes and the quality of results.

OUR SERVICES

The A+B Group puts its innovative solutions at your disposal in order to simplify your purchasing process and inventory management. Each of them can be adapted to your requirements.
This is all aimed at increasing the productivity, efficiency and knowledge of your company.







CERTIFICATION LABORATORY

We have a wide range of very high precision measuring instruments available that are made with extremely high quality mechanics and electronics. We also provide assistance to customers during installation, set-up, calibration or certification.

TECHNICAL TRAINING

We organise and offer technical training seminars and update courses on the products for our customers.

FUTURA LAB

Our lubricants undergo stringent and constant quality control procedures to ensure an optimum result is obtained in compliance with current regulations. We also offer a laboratory analysis service and classroom training on the use of our products.

OUR SERVICES

Advice on lifting systems

C-Items management

DPI-Manager

Warehouse management

Certification laboratory

Technical training

Futura Lab

LTEC

CHEMICAL

LTEC is our brand completely dedicated to the world of chemicals.

Landoil
your safety, our future.

METALWORKING LUBRICANTS

LANDOIL is our brand completely dedicated to coolants and lubricants in general.



WODEX
mro

MRO

WODEX is the premium brand for the MRO section, products with high quality ergonomic design.



B·HANDLING

HANDLING SYSTEM

B-HANDLING offers a complete range of lifting and handling systems suitable for different types of loads.

KERFOLG
precision tooling

PRECISION TOOLING

KERFOLG is the brand dedicated to all high quality cutting tools.



in 3 m everything



FULL SUPPORT

FOR ALL YOUR CUTTING OPERATIONS

As well as our products, we can provide you with complete support for your on board machine operations. We can provide cutting tools for your cutting operations, lubricants and manual tools for the maintenance of your machine. Measuring instruments to check your work and much more.





ALPA metrology

MEASURING INSTRUMENTS

ALPA offers a wide range of accurate and reliable measuring instruments

eters

you need

FULL SUPPORT

Everything you need for your on board machine operations



MACHINERY MANUFACTURERS

We work with companies that export products all over the world such as: machine tools, presses, automatic machinery, agricultural machinery and machines for the food industry.

HEALTHCARE INDUSTRY

We develop products whose materials and dimensions make them suitable for the pharmaceutical and medical sectors.

FOOD & BEVERAGE

We supply specific high-tech products for the food & beverage industry, which are constantly evolving and manufactured specifically for the needs of our customers.

POWER GENERATION

We have a complete range of products for companies that operate directly and indirectly in the energy sector: motor manufacturers, wind power, solar power, photovoltaic and petrochemicals.

OUR CUSTOMERS

OUR POINT OF REFERENCE AND OUR EXPERTISE

Our approach is based on two things: products and customers
We guarantee assistance to meet the requirements of over 20,000 customers

HEAVY INDUSTRY

We are able to serve companies linked to the heavy industry sector: steelworks, earthmoving, shipbuilding, railway.

AEROSPACE

Over the last few years, we have introduced specific products for processing materials used in the aerospace industry.

AUTOMOTIVE

We produce specific solutions for the automotive industry and for all the main companies that are part of it.

OUR CUSTOMERS

- Automotive
- Aerospace
- Heavy industry
- Power generation
- Food & beverage
- Healthcare industry
- Machinery manufacturers

CHOOSE YOUR PRODUCT

HOW TO ORDER

- Select the product you are interested in.
- Inform us of the Tech. Code and the quantity required by phone, e-mail, website.
- Link will quickly send you the offer requested or confirm your order.

OUR NEW ITEMS

- Like we do every year, we have added many new items, both in terms of ranges and products.
  DISCOVER THEM NOW!

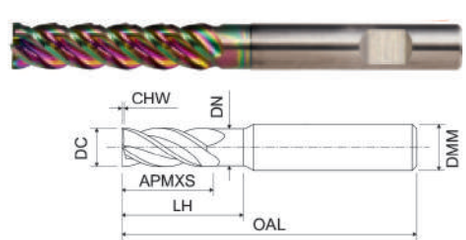
NEW

END MILLS WITH VARIABLE PITCH AND HELIX Z4

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	HDM	HPC	≠	λs= 43°/45° γs= 13°		DIN 6535 HB		DLC	

DIRECTIONS	TROCHOIDAL	SIDE MILLING	HELICAL INT.



Balanced tool (G2.5).
Highly dynamic milling tools.
CAM software is required for toolpath generation.

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●

Cylindrical	Weldon	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
-	A4P7610W	10	41	9,8	50	95	10	0,2	4
-	A4P7612W	12	49	11,7	60	109	12	0,3	4

Cylindrical	Weldon	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
-	A4P7616W	16	65	15,5	80	132	16	0,3	4
-	A4P7620W	20	82	19,5	100	154	20	0,3	4

- To place your order, indicate the technical code in the blue column
- Have you found a green Tech. Cod.? We have added a new product to the range.

- Price and packaging are indicated in the price list.

- The images are indicative and not binding, we reserve the right to modify the product or the packaging at any time.
- The catalogue, its graphic representation and coding system are protected by copyright.
- The catalogue is made available to the customer but remains the property of LINK GRUPPO SPA with the right to return.

SOLID CUTTING TOOLS
A.1 - A.151

INDEXABLE TOOLS
B.1 - B.127

CLAMPING SYSTEM
C.1 - C.85

MEASURING INSTRUMENTS
D.1 - D.93

HAND TOOLS 01
E.1 - E.109

HAND TOOLS 02
F.1 - F.97

ABRASIVES
G.1 - G.65

METALWORKING LUBRICANTS
H.1 - H.31

ADHESIVES, CHEMICAL & WELDING
J.1 - J.59

SAFETY EQUIPMENT
K.1 - K.43

PNEUMATICS
L.1 - L.49

LIFTING AND HANDLING SYSTEM
M.1 - M.79

WORKSHOP EQUIPMENTS
N.1 - N.115

WORKSTATION AND STORAGE
P.1 - P.61

A



B



C



D



E



F



G



H



J



K



L



M



N



P




KERFOLG
" successfull "
KERFOLG

SOLID CUTTING TOOLS



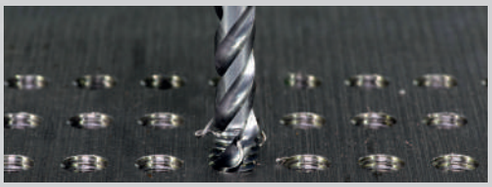
KERFOLG WRK

2 - 25
Solid carbide drills



KERFOLG WRK

26 - 44
HSS drills



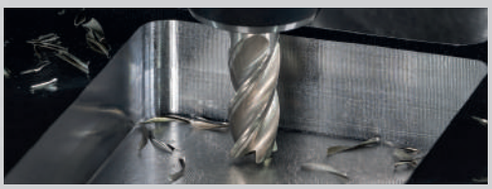
KERFOLG WRK

45 - 80
Threading



KERFOLG

81 - 82
Threading mills



KERFOLG WIDIA HANITA WRK

83 - 118
Solid carbide end mills



WRK

118 - 126
HSS end mills



KERFOLG WRK GRANLUND

127 - 138
Boring
Countersinking
Facing



GUABO

139 - 151
Band saw blades
Circular saw blades

ISO 513	MATERIAL	Gruppo	Composizione - Struttura	W.Nr.	DIN	Treatement	Tensile strength N/mm²	Hardness (HB)	Hardness (HRC)
P	Steel	P1	Low carbon steel - long chipping	1.0718	9SMnPb28	Annealed	< 420	115	
		P2	Low carbon steel - free machining	1.0401	C15	Annealed	< 700	< 210	
		P3	Medium and high carbon steel	1.0511	C40	Annealed	< 850	< 250	< 25
		P4	Alloy steel	1.3505	100Cr6	Quenched	< 850	< 250	< 25
		P5	Alloy steel and tool steel	1.7225	42CrMo4	Quenched	< 1200	< 350	< 38
		P6	Alloy steel and high strength steel	1.6582	34CrNiMo6	Quenched	< 1400	< 410	< 44
		P7	Ferritic and martensitic stainless steel	1.4021	X20Cr13	Annealed	< 900	< 265	< 29
		P8	PH stainless steel	1.4542	X 7 CrNiCu 16 4 4	Quenched	< 1350	< 380	< 41
M	Stainless Steel	M1	Austenitic stainless steel	1.4301	X5CrNi18-10	Quenched	< 600	< 180	
		M2	High strength austenitic stainless steel	1.4404	X2CrNiMo17-12-2	Quenched	600 - 800	150 - 230	< 25
		M3	Duplex stainless steel	1.4410	X 2 CrNiMoN 25 7 4		< 1000	< 290	< 30
K	Cast iron	K1	Gray cast iron	0.6025	GG25		125 - 500	120 - 290	< 32
		K2	Low and Medium Strength Ductile Cast Irons / Tempered	0.7060	GGG60		< 600	130 - 260	< 29
		K3	Austempered ductile iron (ADI)		EN-GJS-1000-5		< 780	< 230	< 43
N	Non-ferrous	N1	Pure aluminium	3.0255	Al99.5		< 340	< 60	
		N2	Aluminum alloys with Si <0.5% (long chip)	3.4365	AlZnMgCu1.5		< 380	< 100	
		N3	Aluminum alloys with Si <10% (medium chip)	3.2381	G-AlSi10Mg		< 500	< 140	
		N4	Aluminum alloys with Si >10% (short chip)	3.2383	G-AlSi10Mg(Cu)		< 600		
		N5	Pure copper	2.0065	E-Cu58		< 350		
		N6	Copper alloys (long chip) soft brass	2.0250	CuZn20		< 700		
		N7	Copper alloys (short chip) hard brass	2.0410	CuZn44Pb2		< 700		
		N8	High strength bronze	2.0978	CuAl11Ni6Fe6		700 - 1500		
		N9	Magnesium alloys	3.5632	MgAl6Zn3		120 - 300		
		N10	High strength magnesium alloys	3.5470	GD-MgAl4Si1		240 - 400		
S	Super-alloys	S1	Pure Titanium	3.7024	Ti99,5		< 400	< 110	
		S2	Alfa - beta Titanium alloy	3.7165	TiAl6V4		< 1050	< 320	
		S3	Pure Nickel	1.3911	RNi24		400 - 600		
		S4	Nickel or Cobalt based alloys	2.4668	NiCr19Fe18Nb5Mg		840 - 1200	250 - 320	
		S5	Nickel based alloys age hardened	2.4668	Inconel 718	Age hardened	< 1700	< 450	< 48
H	Hardened	H1	Hardened steel 44 - 56HRC	1.2343	X38CrMoV5-1	Hardened		< 550	< 55
		H2	Hardened steel 55 - 65HRC	1.3536	100CrMo6	Hardened		< 710	< 65
		H3	Hardened steel up to 70HRC	1.2436	X 210 CrW 12	Hardened		< 760	< 70
O	Non-metallic MATERIALs	O1	Plastic MATERIALs						
		O2	Treated fiber						
		O3	Graphite						

DRILLING ICONS

The icons shown are a summary of what is included on the individual product pages

TOOL TYPE

TOOL TYPE **N** — Tool type dedicated to stainless steel machining

TOOL TYPE **W** — Tool type dedicated to general machining

TOOL TYPE **H** — Tool type for machining hardened steels

TOOL TYPE **VA** — Tool type for machining stainless steels

MATERIALS

MATERIAL **HM** — Solide carbide

MATERIAL **HSS** — High speed steel

MATERIAL **HSS +HM** — Brazed carbide

MATERIAL **HSS +Co8** — High speed steel co 8%

MATERIAL **HSSE** — High speed steel co 5%

DIN STANDARD

DIN **6537K** — Secondo normativa DIN 6537K

DIN **6537L** — Secondo normativa DIN 6537L

DRILLING DEPTH

HOLE DEPTH **≤ 3xD** — Drilling depth 3 times D

HOLE DEPTH **≤ 5xD** — Drilling depth 5 times D

POINT ANGLE

POINT ANGLE **90°** — Point angle 90°

POINT ANGLE **118°** — Point angle 118°

HELIX ANGLE

HELIX ANGLE **λ=18°** — Helix angle 20°

HELIX ANGLE **λ=20°** — Helix angle 30°

NUMBER OF FLUTES

NOF — 2-flute drill

NOF — 3-flute drill

HELIX TYPE

HELIX TYPE **F/R** — Special designed helix Right hand flute

HELIX TYPE **N/R** — Standard right Hand flute

HELIX TYPE **FS/R** — Large flute Right hand

HELIX TYPE **S/R** — Right hand flute For deep holes

HELIX TYPE **VA/R** — Right hand Stainless steel flute

TYPES OF COATING

COATING **DURABLE** — Durable coating Hardness 3000 HV (0,05) - max 1000°c Thickness 5 - 6 µ

COATING **DEVIL** — Devil coating Hardness 3000 hv (0,05) - max 700°c Thickness 1,5 - 4 µ

COATING **DIA-CVD** — DIA - CVD coating

COATING **VAP** — Superficial vaporization Self-lubricating

COATING **GOLD OXIDE** — GOLD OXIDE coating

COATING **TiN** — Monolayer titanium nitride Hardness 2400 hv (0,05) - max 500°c Thickness 1,5 - 4 µ

COATING **WIND Z** — Monolayer ZrN base Hardness 1600 hv (0,05) - max 500°c Thickness 1 - 4 µ

COATING **TiAlN** — Monolayer titanium allumina nitride Hardness 3300 hv (0,05)- max 800°c Thickness 1,5 - 4 µ

COATING **NIT+VAP** — NIT+VAP coating

COATING **BRIGHT** — Uncoated

SHANK DESIGN

SHANK **DIN 6527 HB / DIN 6527 HA** — Cylindrical and Weldon shank

SHANK **DIN 6535 HB / DIN 6535 HA** — Cylindrical and Weldon shank

SHANK **DIN 6527 HB** — Weldon shank

SHANK **DIN 6535 HB** — Weldon shank

SHANK **DIN 1899 A HA** — Cylindrical shank

SHANK **DIN 6535 HA** — Cylindrical shank

SHANK **MK** — Morse cone

SHANK **DIN 6535 HA** — Cylindrical shank

CHAP A - DRILLS SECTION - APPLICATION INDEX

		Range code	Tool article	Hole depth	Flutes number	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	DIN	Diameter range mm	Helix	Point angle	DC tolerance	Coating	Coolant	Page
	KERFOLG	A0085	KPD	3xD	2	●	●	○	●				HM	6537K	3 - 16	30°	140°	m7	DURABLE	Internal coolant	7
	KERFOLG	A0088	KPD	5xD	2	●	●	○	●				HM	6537L	3 - 16	30°	140°	m7	DURABLE	Internal coolant	7
	KERFOLG	A0072	KPD	5xD	2	●		●					HM	6537L	3 - 16	30°	140°	m7	DURABLE	Internal coolant	8
	KERFOLG	A0100	KPD	3xD	2	●	○	●					HM	6537K	3 - 20	30°	180°	m7	DURABLE	Internal coolant	9
	KERFOLG	A0045	KPD	5xD	3	●		●					HM	6537L	3 - 12	30°	135°	h7	DEVIL	Internal coolant	10
	KERFOLG	A0500	KPD	-	2							●	HM	Factory Standard	2,48 - 10	20°	135°	h6	DIA-CVD	Internal coolant	10
	KERFOLG	A0090	KPD	3xD	2	●		●	○				HM	6537K	3 - 16	30°	140°	±0,003	DURABLE	Internal coolant	11
	KERFOLG	A0095	KPD	5xD	2	●		●	○				HM	6537L	3 - 16	30°	140°	±0,003	DURABLE	Internal coolant	11
	KERFOLG	A0010	KUD	3xD	2	●	○	●			○		HM	6537K	1 - 20	30°	140°	m7	DEVIL		12
	KERFOLG	A0030	KUD	5xD	2	●	○	●			○		HM	6537L	3 - 20	30°	140°	m7	DEVIL		13
	KERFOLG	A0020	KUD	3xD	2	●	○	●			○		HM	6537K	3 - 16	30°	140°	m7	DEVIL	Internal coolant	14
	KERFOLG	A0040	KUD	5xD	2	●	○	●			○		HM	6537L	1 - 20	30°	140°	m7	DEVIL	Internal coolant	15
	KERFOLG	A0050	KUD	8xD	2	●	○	●			○		HM	Factory Standard	3 - 16	30°	135°	h7	DEVIL	Internal coolant	16
	KERFOLG	A0060	KUD	12xD	2	●	○	●			○		HM	Factory Standard	3 - 16	30°	135°	h7	DEVIL	Internal coolant	17
	KERFOLG	A0070	KUD	20xD	2	●	○	●			○		HM	Factory Standard	3 - 12	30°	135°	h7	DEVIL	Internal coolant	17
	KERFOLG	A0096	KUD	5xD	2	●		●	●				HM	6537L	5,98 - 12,02	30°	140°	±0,003	DEVIL	Internal coolant	18
	KERFOLG	A0005	KSD	3xD	2	●		●					HM	6537K	3,0 - 14,0	30°	140°	m7	DEVIL		18
	KERFOLG	A0004	KSD	3xD	2	●	○	●					HM	6537K	3 - 14	30°	140°	m7	DEVIL	Internal coolant	19
	KERFOLG	A0006	KSD	5xD	2	●		●					HM	6537L	3 - 14	30°	140°	m7	DEVIL		20
	KERFOLG	A0007	KSD	5xD	2	●	○	●					HM	6537L	3,0 - 16	30°	140°	m7	DEVIL	Internal coolant	21
	KERFOLG	A0008	KSD	8xD	2	●	○	●					HM	6537L	3 - 13.5	30°	140°	m7	DEVIL	Internal coolant	22
	KERFOLG	A1080	KSD	-	2	●	○	●	●	○			HM	6539	1 - 14	30°	118°	m7	BRIGHT		23
	KERFOLG	A1230	KSD	-	2	●	○	●	●	○			HM	338	1 - 87	30°	118°	m7	BRIGHT		23
	KERFOLG	A0003	KSD	-	2	●	○	●					HM	Factory Standard	0,2 - 2,2	35°	118°	h6	BRIGHT		24
	KERFOLG	A1670	KSD	-	2	●	○	●	○	○			HM	Factory Standard	3 - 20	-	90°	h6	BRIGHT		24
	KERFOLG	A1675	KSD	-	2	●	○	●	○	○			HM	Factory Standard	3 - 20	-	90°	h6	DEVIL		24
	KERFOLG	A1680	KSD	-	2	●	○	●	○	○			HM	Factory Standard	6 - 12	-	120°	h6	BRIGHT		24
	KERFOLG	A1685	KSD	-	2	●	○	●	○	○			HM	Factory Standard	6 - 12	-	120°	h6	DEVIL		25
	KERFOLG	A1690	KSD	-	2	●	○	●	○	○			HM	Factory Standard	3 - 20	-	142°	h6	BRIGHT		25
	KERFOLG	A1695	KSD	-	2	●	○	●	○	○			HM	Factory Standard	3 - 20	-	142°	h6	DEVIL		25
	KERFOLG	A1780	KSD	-	2	●	●	●	●	○			HM	Factory Standard	2,5 - 14,0	N/R	140°	h8	DURABLE		25

CHAP A - DRILLS SECTION - APPLICATION INDEX

		Range code	Tool article	Hole depth	Flutes number	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	DIN	Diameter range mm	Helix	Point angle	DC tolerance	Coating	Coolant	Page
	KERFOLG	A1030	-	-	2	●	●	●	●				HSSE	1897	1,5 - 13	N/R	130°	-	GOLD OXIDE		26
	KERFOLG	A1040	-	-	2	●	●	●	●			○	HSSE	1897	1 - 14	F/R	118°	-	TiN		26
	KERFOLG	A1050	-	-	2	●	●	●	○			○	PM	1897	1 - 14	N/R	130°	-	TiN		26
	KERFOLG	A1060	-	-	2	●	●	●	●				HSSE	1897	1 - 19,5	S/R	130°	-	TiAlN		27
	KERFOLG	A1200	-	-	2	●	●	●	●			○	HSSE	338	1 - 14	F/R	130°	-	TiN		27
	KERFOLG	A1135	-	-	2	●	●	●	●				HSSE	338	1 - 13	VA/R	135°	-	BRIGHT		28
	KERFOLG	A1125	-	-	2	●	○	○	●				HSS	338	3 - 13	FS/R	118°	-	WIND-Z		28
	KERFOLG	A1190	-	-	2	●	●			○			HSSE	338	3 - 13	VA/R	130°	-	DEVIL		28
	KERFOLG	A1220	-	-	2	●	●	●	●				HSSE	338	1 - 16	S/R	130°	-	TiAlN		29
	KERFOLG	A1180	-	-	2	●		●	●			○	HSS	338	1 - 13	N/R	118°	-	TiN		29
	KERFOLG	A1145	-	-	2	●	●	●	●				HSSE	338	1 - 13	N/R	130°	-	GOLD OXIDE		30
	KERFOLG	A1120	-	-	2	●		●	●				HSS	338	0,3 - 20	N/R	118°	-	VAP		31
	KERFOLG	A1330	-	-	2	●	●	●	●				HSSE	340	3 - 14	FS/R	130°	-	TiAlN		32
	KERFOLG	A1320	-	-	2	●		●	●				HSS	340	1 - 14	S/R	130°	-	BRIGHT		32
	KERFOLG	A1340	-	-	2	●	●	●	●				HSSE	1869-1	2 - 13	S/R	130°	-	BRIGHT		33
	KERFOLG	A1350	-	-	2	●	●	●	●				HSSE	1869-2	3 - 13	S/R	130°	-	BRIGHT		33
	KERFOLG	A1360	-	-	2	●	●	●	●				HSSE	1869-3	3,5 - 13	S/R	130°	-	BRIGHT		33
	KERFOLG	A1512	-	-	2	●	●	●	●				HSSE	345	14 - 35	N/R	118°	-	BRIGHT		34
	KERFOLG	A1640	-	-	2	●	●	●	●				HM	333A	1 - 4	-	118°	-	BRIGHT		34
	KERFOLG	A1611	-	-	2	●	●	●	●				HSSE	333A	1 - 6,3	-	118°	-	BRIGHT		34
	KERFOLG	A1612	-	-	2	●	●	●	●				HSS	333A	1 - 6,3	-	118°	-	TiN		34
	KERFOLG	A1655	-	-	2	●	●	●	●				HSSE	1897	3 - 20	N/R	90°	-	TiAlN		35
	KERFOLG	A1650	-	-	2	●	●	●	●				HSSE	1897	3 - 20	N/R	90°	-	BRIGHT		35
	KERFOLG	A1656	-	-	2	●	●	●	●				HSSE	Factory Standard	6 - 12	N/R	90°	-	TiAlN		35

CHAP A - DRILLS SECTION - APPLICATION INDEX

		Range code	Tool article	Hole depth	Flutes number	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	DIN	Diameter range mm	Helix	Point angle	DC tolerance	Coating	Coolant	Page
	KERFOLG	A1665	-	-	2	○	●	●	●				HSSE	1897	6 - 20	N/R	120°	-	TiAlN		35
	KERFOLG	A1660	-	-	2	●	●	●	●				HSSE	1897	6 - 20	N/R	120°	-	BRIGHT		35
	WRK	A1010	-	-	2	●		●	●				HSS	1897	2 - 13	N/R	118°	-	VAP		36
	WRK	A1090	-	-	2	○		●	○		●		HSS +HM	8037	2 - 20	N/R	118°	-	BRIGHT		36
	WRK	A1140	-	-	2	●	●		●	○			HSSE	338	1 - 13	VA/R	130°	-	BRIGHT		37
	WRK	A1130	-	-	2								HSS	338	3 - 13	VA/R	130°	-	VAP		37
	WRK	A1110	-	-	2	●		●	●				HSS	338	0,25 - 20	N/R	118°	-	VAP		38
	WRK	A1240	-	-	2	●		●	○		●		HSS +HM	338	2 - 20	N/R	118°	-	BRIGHT		39
	WRK	A1510	-	-	2	●		●	●				HSS	345	5 - 50	N/R	118°	-	VAP		39
	WRK	A1310	-	-	2	●		●	●				HSS	340	1 - 16	N/R	118°	-	VAP		40
	WRK	A1518	-	-	2	●		●	●				HSS	1870	12 - 30	N/R	118°	-	VAP		40
	WRK	A1610	-	-	2	●	●	●	●				HSS	333A	1 - 6,3	-	118°	-	BRIGHT		41
	WRK	A1615	-	-	2	●	●	●	●				HSS	333A	1 - 5	-	118°	-	BRIGHT		41
	WRK	A1620	-	-	2	●	●	●	●				HSS	333R	1,6 - 5	-	118°	-	BRIGHT		41
	WRK	A1630	-	-	2	●	●	●	●				HSS	333B	1 - 6,3	-	118°	-	BRIGHT		41
	WRK	A1710	-	-	2	●	●	●	●				HSS	8374	3,20 - 10,50	N/R	118°	-	BRIGHT		42
	WRK	A1720	-	-	2	●	●	●	●				HSS	8378	2,50 - 10,20	N/R	118°	-	BRIGHT		42
	WRK	A1730	-	-	2	●	●	●	●				HSS	8376	3,40 - 9,00	N/R	118°	-	BRIGHT		42

DRILLS REINFORCED SHANK 3XD - COOLANT HOLES

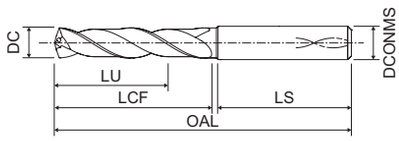
KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
VA	HM	≤ 3xD	6537K	λ=30°	140°		DIN 6535 HB / DIN 6535 HA	DURABLE

COOLANT







Strongly recommended for austenitic stainless steels and Titanium alloys.

P1	P2	P3	P4	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	○	○	●	○

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A008503	A008503W	3	6	62	22	14	36
A008503,3	A008503,3W	3,3	6	62	22	14	36
A008503,4	A008503,4W	3,4	6	62	22	14	36
A008503,5	A008503,5W	3,5	6	62	22	14	36
A008503,8	A008503,8W	3,8	6	66	26	17	36
A008504	A008504W	4	6	66	26	17	36
A008504,2	A008504,2W	4,2	6	66	26	17	36
A008504,3	A008504,3W	4,3	6	66	26	17	36
A008504,5	A008504,5W	4,5	6	66	26	17	36
A008504,8	A008504,8W	4,8	6	66	30	20	36
A008505	A008505W	5	6	66	30	20	36
A008505,2	A008505,2W	5,2	6	66	30	20	36
A008505,5	A008505,5W	5,5	6	66	30	20	36
A008505,8	A008505,8W	5,8	6	66	30	20	36
A008506	A008506W	6	6	66	30	20	36
A008506,5	A008506,5W	6,5	8	79	38	24	36
A008506,8	A008506,8W	6,8	8	79	38	24	36
A008507	A008507W	7	8	79	38	24	36
A008507,8	A008507,8W	7,8	8	79	42	29	36
A008508	A008508W	8	8	79	42	29	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A008508,5	A008508,5W	8,5	10	89	49	35	40
A008508,7	A008508,7W	8,7	10	89	49	35	40
A008508,8	A008508,8W	8,8	10	89	49	35	40
A008509	A008509W	9	10	89	49	35	40
A008509,8	A008509,8W	9,8	10	89	49	35	40
A008510	A008510W	10	10	89	49	35	40
A008510,2	A008510,2W	10,2	12	102	56	40	45
A008510,3	A008510,3W	10,3	12	102	56	40	45
A008510,5	A008510,5W	10,5	12	102	56	40	45
A008510,8	A008510,8W	10,8	12	102	56	40	45
A008511	A008511W	11	12	102	56	40	45
A008511,8	A008511,8W	11,8	12	102	56	40	45
A008512	A008512W	12	12	102	56	40	45
A008512,5	A008512,5W	12,5	14	107	61	43	45
A008513	A008513W	13	14	107	61	43	45
A008513,5	A008513,5W	13,5	14	107	61	43	45
A008514	A008514W	14	14	107	61	43	45
A008514,5	A008514,5W	14,5	16	115	65	45	48
A008515	A008515W	15	16	115	65	45	48
A008516	A008516W	16	16	115	65	45	48

DRILLS REINFORCED SHANK 5XD - COOLANT HOLES

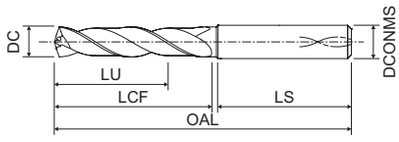
KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
VA	HM	≤ 5xD	6537L	λ=30°	140°		DIN 6535 HB / DIN 6535 HA	DURABLE

COOLANT







Strongly recommended for austenitic stainless steels and titanium alloys.

P1	P2	P3	P4	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	○	○	●	○

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A008803	A008803W	3	6	66	28	23	36
A008803,3	A008803,3W	3,3	6	66	28	23	36
A008803,4	A008803,4W	3,4	6	66	28	23	36
A008803,5	A008803,5W	3,5	6	66	28	23	36
A008803,7	A008803,7W	3,7	6	66	28	23	36
A008803,8	A008803,8W	3,8	6	74	36	29	36
A008804	A008804W	4	6	74	36	29	36
A008804,2	A008804,2W	4,2	6	74	36	29	36
A008804,3	A008804,3W	4,3	6	74	36	29	36
A008804,5	A008804,5W	4,5	6	74	36	29	36
A008804,7	A008804,7W	4,7	6	74	36	29	36
A008804,8	A008804,8W	4,8	6	82	44	35	36
A008805	A008805W	5	6	82	44	35	36
A008805,1	A008805,1W	5,1	6	82	44	35	36
A008805,2	A008805,2W	5,2	6	82	44	35	36
A008805,4	A008805,4W	5,4	6	82	44	35	36
A008805,5	A008805,5W	5,5	6	82	44	35	36
A008805,8	A008805,8W	5,8	6	82	44	35	36
A008806	A008806W	6	6	82	44	35	36
A008806,2	A008806,2W	6,2	8	91	53	43	36
A008806,5	A008806,5W	6,5	8	91	53	43	36
A008806,8	A008806,8W	6,8	8	91	53	43	36
A008807	A008807W	7	8	91	53	43	36
A008807,4	A008807,4W	7,4	8	91	53	43	36
A008807,5	A008807,5W	7,5	8	91	53	43	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A008807,6	A008807,6W	7,6	8	91	53	43	36
A008807,8	A008807,8W	7,8	8	91	53	43	36
A008808	A008808W	8	8	91	53	43	36
A008808,2	A008808,2W	8,2	10	103	61	49	40
A008808,5	A008808,5W	8,5	10	103	61	49	40
A008808,6	A008808,6W	8,6	10	103	61	49	40
A008808,7	A008808,7W	8,7	10	103	61	49	40
A008808,8	A008808,8W	8,8	10	103	61	49	40
A008809	A008809W	9	10	103	61	49	40
A008809,8	A008809,8W	9,8	10	103	61	49	40
A008810	A008810W	10	10	103	61	49	40
A008810,2	A008810,2W	10,2	12	118	71	56	45
A008810,3	A008810,3W	10,3	12	118	71	56	45
A008810,5	A008810,5W	10,5	12	118	71	56	45
A008810,8	A008810,8W	10,8	12	118	71	56	45
A008811	A008811W	11	12	118	71	56	45
A008811,8	A008811,8W	11,8	12	118	71	56	45
A008812	A008812W	12	12	118	71	56	45
A008812,5	A008812,5W	12,5	14	124	77	60	45
A008813	A008813W	13	14	124	77	60	45
A008813,5	A008813,5W	13,5	14	124	77	60	45
A008814	A008814W	14	14	124	77	60	45
A008814,5	A008814,5W	14,5	16	133	83	63	48
A008815	A008815W	15	16	133	83	63	48
A008816	A008816W	16	16	133	83	63	48

DRILLS DOUBLE LAND 5XD - COOLANT HOLES

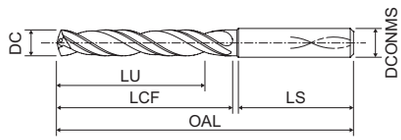
KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 5xD	6537L	λ=30°	140°		DIN 6535 HB DIN 6535 HA	DURABLE

COOLANT







Double guide land helix drills.
For applications with high demand for hole quality (roundness, straightness, tolerance).

P2	P3	P4	P5	P6	K1	K2	K3
●	●	●	●	●	●	●	●

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A007203	A007203W	3	6	66	28	23	36
A007203,3	A007203,3W	3,3	6	66	28	23	36
A007203,4	A007203,4W	3,4	6	66	28	23	36
A007203,5	A007203,5W	3,5	6	66	28	23	36
A007204	A007204W	4	6	74	36	29	36
A007204,2	A007204,2W	4,2	6	74	36	29	36
A007204,5	A007204,5W	4,5	6	74	36	29	36
A007204,8	A007204,8W	4,8	6	82	44	35	36
A007205	A007205W	5	6	82	44	35	36
A007205,1	A007205,1W	5,1	6	82	44	35	36
A007205,2	A007205,2W	5,2	6	82	44	35	36
A007205,5	A007205,5W	5,5	6	82	44	35	36
A007205,8	A007205,8W	5,8	6	82	44	35	36
A007206	A007206W	6	6	82	44	35	36
A007206,5	A007206,5W	6,5	8	91	53	43	36
A007206,8	A007206,8W	6,8	8	91	53	43	36
A007207	A007207W	7	8	91	53	43	36
A007207,5	A007207,5W	7,5	8	91	53	43	36
A007207,8	A007207,8W	7,8	8	91	53	43	36
A007208	A007208W	8	8	91	53	49	36
A007208,5	A007208,5W	8,5	10	103	61	49	40

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A007209	A007209W	9	10	103	61	49	40
A007209,5	A007209,5W	9,5	10	103	61	49	40
A007209,8	A007209,8W	9,8	10	103	61	49	40
A007210	A007210W	10	10	103	61	49	40
A007210,2	A007210,2W	10,2	12	118	71	56	45
A007210,5	A007210,5W	10,5	12	118	71	56	45
A007211	A007211W	11	12	118	71	56	45
A007211,5	A007211,5W	11,5	12	118	71	56	45
A007212	A007212W	12	12	118	71	56	45
A007212,5	A007212,5W	12,5	14	124	77	60	45
A007212,8	A007212,8W	12,8	14	124	77	60	45
A007213	A007213W	13	14	124	77	60	45
A007213,5	A007213,5W	13,5	14	124	77	60	45
A007213,8	A007213,8W	13,8	14	124	77	60	45
A007214	A007214W	14	14	124	77	60	45
A007214,5	A007214,5W	14,5	16	133	83	63	48
A007214,8	A007214,8W	14,8	16	133	83	63	48
A007215	A007215W	15	16	133	83	63	48
A007215,5	A007215,5W	15,5	16	133	83	63	48
A007215,8	A007215,8W	15,8	16	133	83	63	48
A007216	A007216W	16	16	133	83	63	48



DRILLS WITH REINFORCED SHANK 180° 3XD - COOLANT HOLES

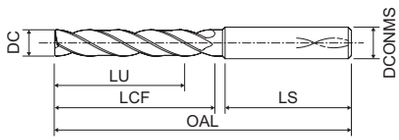
KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 3xD	6537K	λ=30°	180°		DIN 6535 HB DIN 6535 HA	DURABLE

COOLANT







Double guide land helix drills.
Flat-bottom or when drilling an inclined or curved surface.

P2	P3	P4	P5	P6	M1	M2	K1	K2	K3
●	●	●	●	●	○	○	●	●	●

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A010003	A010003W	3	6	62	20	14	36
A010003,1	A010003,1W	3,1	6	62	20	14	36
A010003,2	A010003,2W	3,2	6	62	20	14	36
A010003,3	A010003,3W	3,3	6	62	20	14	36
A010003,4	A010003,4W	3,4	6	62	20	14	36
A010003,5	A010003,5W	3,5	6	62	20	14	36
A010003,6	A010003,6W	3,6	6	62	20	14	36
A010003,7	A010003,7W	3,7	6	62	20	14	36
A010003,8	A010003,8W	3,8	6	66	24	17	36
A010003,9	A010003,9W	3,9	6	66	24	17	36
A010004	A010004W	4	6	66	24	17	36
A010004,1	A010004,1W	4,1	6	66	24	17	36
A010004,2	A010004,2W	4,2	6	66	24	17	36
A010004,3	A010004,3W	4,3	6	66	24	17	36
A010004,4	A010004,4W	4,4	6	66	24	17	36
A010004,5	A010004,5W	4,5	6	66	24	17	36
A010004,6	A010004,6W	4,6	6	66	24	17	36
A010004,7	A010004,7W	4,7	6	66	24	17	36
A010004,8	A010004,8W	4,8	6	66	28	20	36
A010004,9	A010004,9W	4,9	6	66	28	20	36
A010005	A010005W	5	6	66	28	20	36
A010005,1	A010005,1W	5,1	6	66	28	20	36
A010005,2	A010005,2W	5,2	6	66	28	20	36
A010005,3	A010005,3W	5,3	6	66	28	20	36
A010005,4	A010005,4W	5,4	6	66	28	20	36
A010005,5	A010005,5W	5,5	6	66	28	20	36
A010005,55	A010005,55W	5,55	6	66	28	20	36
A010005,6	A010005,6W	5,6	6	66	28	20	36
A010005,7	A010005,7W	5,7	6	66	28	20	36
A010005,8	A010005,8W	5,8	6	66	28	20	36
A010005,9	A010005,9W	5,9	6	66	28	20	36
A010006	A010006W	6	6	66	28	20	36
A010006,1	A010006,1W	6,1	8	79	34	24	36
A010006,2	A010006,2W	6,2	8	79	34	24	36
A010006,3	A010006,3W	6,3	8	79	34	24	36
A010006,4	A010006,4W	6,4	8	79	34	24	36
A010006,5	A010006,5W	6,5	8	79	34	24	36
A010006,6	A010006,6W	6,6	8	79	34	24	36
A010006,7	A010006,7W	6,7	8	79	34	24	36
A010006,8	A010006,8W	6,8	8	79	34	24	36
A010006,9	A010006,9W	6,9	8	79	34	24	36
A010007	A010007W	7	8	79	34	24	36
A010007,1	A010007,1W	7,1	8	79	41	29	36
A010007,2	A010007,2W	7,2	8	79	41	29	36
A010007,3	A010007,3W	7,3	8	79	41	29	36
A010007,4	A010007,4W	7,4	8	79	41	29	36
A010007,5	A010007,5W	7,5	8	79	41	29	36
A010007,6	A010007,6W	7,6	8	79	41	29	36
A010007,7	A010007,7W	7,7	8	79	41	29	36
A010007,8	A010007,8W	7,8	8	79	41	29	36
A010007,9	A010007,9W	7,9	8	79	41	29	36
A010008	A010008W	8	8	79	41	29	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A010008,1	A010008,1W	8,1	10	89	47	35	40
A010008,2	A010008,2W	8,2	10	89	47	35	40
A010008,3	A010008,3W	8,3	10	89	47	35	40
A010008,4	A010008,4W	8,4	10	89	47	35	40
A010008,5	A010008,5W	8,5	10	89	47	35	40
A010008,6	A010008,6W	8,6	10	89	47	35	40
A010008,7	A010008,7W	8,7	10	89	47	35	40
A010008,8	A010008,8W	8,8	10	89	47	35	40
A010008,9	A010008,9W	8,9	10	89	47	35	40
A010009	A010009W	9	10	89	47	35	40
A010009,1	A010009,1W	9,1	10	89	47	35	40
A010009,2	A010009,2W	9,2	10	89	47	35	40
A010009,3	A010009,3W	9,3	10	89	47	35	40
A010009,4	A010009,4W	9,4	10	89	47	35	40
A010009,5	A010009,5W	9,5	10	89	47	35	40
A010009,6	A010009,6W	9,6	10	89	47	35	40
A010009,7	A010009,7W	9,7	10	89	47	35	40
A010009,8	A010009,8W	9,8	10	89	47	35	40
A010009,9	A010009,9W	9,9	10	89	47	35	40
A010010	A010010W	10	10	89	47	35	40
A010010,1	A010010,1W	10,1	12	100	53	38	45
A010010,2	A010010,2W	10,2	12	100	53	38	45
A010010,3	A010010,3W	10,3	12	100	53	38	45
A010010,4	A010010,4W	10,4	12	100	53	38	45
A010010,5	A010010,5W	10,5	12	100	53	38	45
A010010,6	A010010,6W	10,6	12	100	53	38	45
A010010,7	A010010,7W	10,7	12	100	53	38	45
A010010,8	A010010,8W	10,8	12	100	53	38	45
A010010,9	A010010,9W	10,9	12	100	53	38	45
A010011	A010011W	11	12	100	53	38	45
A010011,1	A010011,1W	11,1	12	100	53	38	45
A010011,2	A010011,2W	11,2	12	100	53	38	45
A010011,3	A010011,3W	11,3	12	100	53	38	45
A010011,4	A010011,4W	11,4	12	100	53	38	45
A010011,5	A010011,5W	11,5	12	100	53	38	45
A010011,6	A010011,6W	11,6	12	100	53	38	45
A010011,7	A010011,7W	11,7	12	100	53	38	45
A010011,8	A010011,8W	11,8	12	100	53	38	45
A010011,9	A010011,9W	11,9	12	100	53	38	45
A010012	A010012W	12	12	100	53	38	45
A010012,5	A010012,5W	12,5	14	105	58	41	45
A010012,8	A010012,8W	12,8	14	105	58	41	45
A010013	A010013W	13	14	105	58	41	45
A010013,5	A010013,5W	13,5	14	105	58	41	45
A010013,8	A010013,8W	13,8	14	105	58	41	45
A010014	A010014W	14	14	105	58	41	45
A010014,5	A010014,5W	14,5	16	113	63	43	45
A010014,8	A010014,8W	14,8	16	113	63	43	45
A010015	A010015W	15	16	113	63	43	48
A010015,5	A010015,5W	15,5	16	113	63	43	48
A010015,8	A010015,8W	15,8	16	113	63	43	48
A010016	A010016W	16	16	113	63	43	48

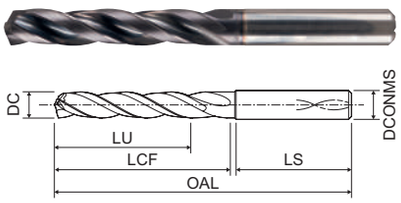
DRILLS REINFORCED SHANK 5XD Z3 - COOLANT HOLES

KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 5xD	6537L	λ=30°	135°		DIN 6535 HB DIN 6535 HA	DEVIL

COOLANT





High feed drills.
For applications with high demand in productivity.

P2	P3	P4	P5	P6	K1	K2	K3
●	●	●	●	●	●	●	●

Cylindrical	Weldon	DC h7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A004503,0	A004503,0W	3	6	66	28	23	36
A004503,3	A004503,3W	3,3	6	66	28	23	36
A004503,5	A004503,5W	3,5	6	66	28	23	36
A004503,7	A004503,7W	3,7	6	66	28	23	36
A004503,8	A004503,8W	3,8	6	74	36	29	36
A004504,0	A004504,0W	4	6	74	36	29	36
A004504,2	A004504,2W	4,2	6	74	36	29	36
A004504,5	A004504,5W	4,5	6	82	44	29	36
A004504,8	A004504,8W	4,8	6	82	44	35	36
A004505,0	A004505,0W	5	6	82	44	35	36
A004505,5	A004505,5W	5,5	6	82	44	35	36
A004505,8	A004505,8W	5,8	6	82	44	35	36
A004506,0	A004506,0W	6	6	82	44	35	36
A004506,5	A004506,5W	6,5	8	91	53	43	36
A004506,8	A004506,8W	6,8	8	91	53	43	36
A004507,0	A004507,0W	7	8	91	53	43	36

Cylindrical	Weldon	DC h7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A004507,5	A004507,5W	7,5	8	91	53	43	36
A004507,8	A004507,8W	7,8	8	91	53	43	36
A004508,0	A004508,0W	8	8	91	53	43	36
A004508,5	A004508,5W	8,5	10	103	61	51	40
A004508,8	A004508,8W	8,8	10	103	61	51	40
A004509,0	A004509,0W	9	10	103	61	51	40
A004509,5	A004509,5W	9,5	10	103	61	51	40
A004509,8	A004509,8W	9,8	10	103	61	51	40
A004510,0	A004510,0W	10	10	103	61	51	40
A004510,2	A004510,2W	10,2	12	118	71	61	45
A004510,5	A004510,5W	10,5	12	118	71	61	45
A004510,8	A004510,8W	10,8	12	118	71	61	45
A004511,0	A004511,0W	11	12	118	71	61	45
A004511,5	A004511,5W	11,5	12	118	71	61	45
A004511,8	A004511,8W	11,8	12	118	71	61	45
A004512,0	A004512,0W	12	12	118	71	61	45

DRILLS WITH REINFORCED SHANK - COOLANT HOLES

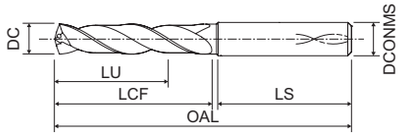
KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	NDF	λ=20°	135°		DIN 6535 HA	DIA-CVD

COOLANT







Twist drill for CNC application on CFRP + Ti or CFRP + Al panels.

N2	N3	N4	S1	S2	O2
●	●	●	●	●	●

Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A050002,48	-	2,48	6	66	28	23	35
A050003	-	3	6	66	28	23	35
A050003,18	-	3,18	6	66	28	23	35
A050004	-	4	6	74	36	29	36
A050004,84	-	4,83	6	82	44	36	38
A050006	-	6	6	82	44	35	38

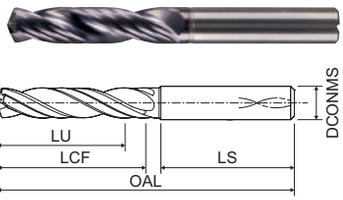
Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A050006,33	-	6,35	8	91	53	43	38
A050007,93	-	7,93	8	91	53	43	38
A050008	-	8	8	91	53	43	38
A050009,52	-	9,52	10	103	61	49	40
A050010	-	10	10	103	61	49	40

DRILLS REAMERS 3XD - COOLANT HOLES

KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 3xD	6537K	λ=30°	140°		DIN 6535 HA	DURABLE

COOLANT



High performance drill reaming tool.
The best performance and accuracy values in one working process.

P2	P3	P4	P5	P7	P8	K1	K2	K3
●	●	●	●	●	●	●	●	●

Cylindrical	Weldon	DC ±0,003 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A009003	-	3	6	62	20	14	36
A009004	-	4	6	66	24	20	36
A009005	-	5	6	66	28	20	36
A009006	-	6	6	66	28	20	36
A009007	-	7	8	79	34	24	36

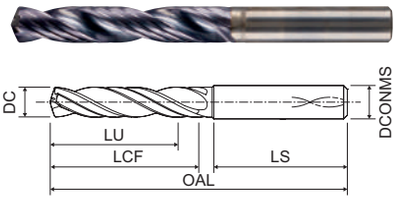
Cylindrical	Weldon	DC ±0,003 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A009008	-	8	8	79	34	24	36
A009009	-	9	10	89	47	35	40
A009010	-	10	10	89	47	35	40
A009011	-	11	12	102	55	40	45
A009012	-	12	12	102	55	40	45

DRILLS REAMERS 5XD - COOLANT HOLES

KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 5xD	6537L	λ=30°	140°		DIN 6535 HA	DURABLE

COOLANT



High performance drill reaming tool.
The best performance and accuracy values in one working process.

P2	P3	P4	P5	P7	P8	K1	K2	K3
●	●	●	●	●	●	●	●	●

Cylindrical	Weldon	DC ±0,003 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A009503	-	3	6	66	28	22	36
A009504	-	4	6	74	36	29	36
A009505	-	5	6	82	44	35	36
A009506	-	6	6	82	44	35	36
A009507	-	7	8	91	53	43	36

Cylindrical	Weldon	DC ±0,003 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A009508	-	8	8	91	53	43	36
A009509	-	9	10	103	61	49	40
A009510	-	10	10	103	61	49	40
A009511	-	11	12	118	71	56	45
A009512	-	12	12	118	71	56	45



DRILLS REINFORCED SHANK 3XD

KERFOLG

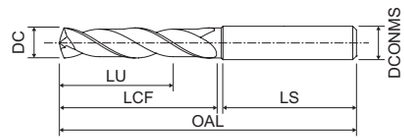
TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 3xD	6537K	λ=30°	140°		DIN 6535 HB DIN 6535 HA	DEVIL

High performance universal drills for a wide range of materials.
Excellent for medium to high production batches.

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2	K3
●	●	●	●	●	●	●	●	○	○	●	●	●







Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A001001	-	1	4	45	5	4	33
A001001,5	-	1,5	4	50	7.5	5	36.5
A001002	A001002W	2	6	50	10	7	35
A001002,1	A001002,1W	2,1	6	55	10.5	7	39.5
A001002,2	A001002,2W	2,2	6	55	11	8	39
A001002,3	A001002,3W	2,3	6	55	11	8	39.5
A001002,4	A001002,4W	2,4	6	55	12	8	38.5
A001002,5	A001002,5W	2,5	6	55	12.5	9	38
A001002,6	A001002,6W	2,6	6	55	13	9	38
A001002,7	A001002,7W	2,7	6	55	13.5	9	37.5
A001002,8	A001002,8W	2,8	6	55	14	10	37.5
A001002,9	A001002,9W	2,9	6	55	14.5	10	37
A001003	A001003W	3	6	62	20	14	36
A001003,1	A001003,1W	3,1	6	62	20	14	36
A001003,2	A001003,2W	3,2	6	62	20	14	36
A001003,3	A001003,3W	3,3	6	62	20	14	36
A001003,4	A001003,4W	3,4	6	62	20	14	36
A001003,5	A001003,5W	3,5	6	62	20	14	36
A001003,6	A001003,6W	3,6	6	62	20	14	36
A001003,7	A001003,7W	3,7	6	62	20	14	36
A001003,8	A001003,8W	3,8	6	66	24	17	36
A001003,9	A001003,9W	3,9	6	66	24	17	36
A001004	A001004W	4	6	66	24	17	36
A001004,1	A001004,1W	4,1	6	66	24	17	36
A001004,2	A001004,2W	4,2	6	66	24	17	36
A001004,3	A001004,3W	4,3	6	66	24	17	36
A001004,4	A001004,4W	4,4	6	66	24	17	36
A001004,5	A001004,5W	4,5	6	66	24	17	36
A001004,6	A001004,6W	4,6	6	66	24	17	36
A001004,65	A001004,65W	4,65	6	66	24	17	36
A001004,7	A001004,7W	4,7	6	66	24	17	36
A001004,8	A001004,8W	4,8	6	66	28	20	36
A001004,9	A001004,9W	4,9	6	66	28	20	36
A001005	A001005W	5	6	66	28	20	36
A001005,1	A001005,1W	5,1	6	66	28	20	36
A001005,2	A001005,2W	5,2	6	66	28	20	36
A001005,3	A001005,3W	5,3	6	66	28	20	36
A001005,4	A001005,4W	5,4	6	66	28	20	36
A001005,5	A001005,5W	5,5	6	66	28	20	36
A001005,55	A001005,55W	5,55	6	66	28	20	36
A001005,6	A001005,6W	5,6	6	66	28	20	36
A001005,7	A001005,7W	5,7	6	66	28	20	36
A001005,8	A001005,8W	5,8	6	66	28	20	36
A001005,9	A001005,9W	5,9	6	66	28	20	36
A001006	A001006W	6	6	66	28	20	36
A001006,1	A001006,1W	6,1	8	79	34	24	36
A001006,2	A001006,2W	6,2	8	79	34	24	36
A001006,3	A001006,3W	6,3	8	79	34	24	36
A001006,4	A001006,4W	6,4	8	79	34	24	36
A001006,5	A001006,5W	6,5	8	79	34	24	36
A001006,6	A001006,6W	6,6	8	79	34	24	36
A001006,7	A001006,7W	6,7	8	79	34	24	36
A001006,8	A001006,8W	6,8	8	79	34	24	36
A001006,9	A001006,9W	6,9	8	79	34	24	36
A001007	A001007W	7	8	79	34	24	36
A001007,1	A001007,1W	7,1	8	79	41	29	36
A001007,2	A001007,2W	7,2	8	79	41	29	36
A001007,3	A001007,3W	7,3	8	79	41	29	36
A001007,4	A001007,4W	7,4	8	79	41	29	36
A001007,5	A001007,5W	7,5	8	79	41	29	36
A001007,6	A001007,6W	7,6	8	79	41	29	36
A001007,7	A001007,7W	7,7	8	79	41	29	36
A001007,8	A001007,8W	7,8	8	79	41	29	36
A001007,9	A001007,9W	7,9	8	79	41	29	36
A001008	A001008W	8	8	79	41	29	36
A001008,1	A001008,1W	8,1	10	89	47	35	40
A001008,2	A001008,2W	8,2	10	89	47	35	40
A001008,3	A001008,3W	8,3	10	89	47	35	40
A001008,4	A001008,4W	8,4	10	89	47	35	40
A001008,5	A001008,5W	8,5	10	89	47	35	40
A001008,6	A001008,6W	8,6	10	89	47	35	40
A001008,7	A001008,7W	8,7	10	89	47	35	40
A001008,8	A001008,8W	8,8	10	89	47	35	40
A001008,9	A001008,9W	8,9	10	89	47	35	40
A001009	A001009W	9	10	89	47	35	40
A001009,1	A001009,1W	9,1	10	89	47	35	40
A001009,2	A001009,2W	9,2	10	89	47	35	40
A001009,3	A001009,3W	9,3	10	89	47	35	40
A001009,4	A001009,4W	9,4	10	89	47	35	40
A001009,5	A001009,5W	9,5	10	89	47	35	40
A001009,6	A001009,6W	9,6	10	89	47	35	40
A001009,7	A001009,7W	9,7	10	89	47	35	40
A001009,8	A001009,8W	9,8	10	89	47	35	40
A001009,9	A001009,9W	9,9	10	89	47	35	40
A001010	A001010W	10	10	89	47	35	40
A001010,1	A001010,1W	10,1	12	102	55	40	45
A001010,2	A001010,2W	10,2	12	102	55	40	45
A001010,3	A001010,3W	10,3	12	102	55	40	45
A001010,40	A001010,4W	10,4	12	102	55	40	45
A001010,5	A001010,5W	10,5	12	102	55	40	45
A001010,8	A001010,8W	10,8	12	102	55	40	45
A001011	A001011W	11	12	102	55	40	45
A001011,2	A001011,2W	11,2	12	102	55	40	45
A001011,3	A001011,3W	11,3	12	102	55	40	45
A001011,5	A001011,5W	11,5	12	102	55	40	45
A001011,8	A001011,8W	11,8	12	102	55	40	45
A001012	A001012W	12	12	102	55	40	45
A001012,10	A001012,1W	12,1	14	107	60	43	45
A001012,20	A001012,2W	12,2	14	107	60	43	45
A001012,5	A001012,5W	12,5	14	107	60	43	45
A001012,7	A001012,7W	12,7	14	107	60	43	45
A001013	A001013W	13	14	107	60	43	45
A001013,1	A001013,1W	13,1	14	107	60	43	45
A001013,5	A001013,5W	13,5	14	107	60	43	45
A001013,8	A001013,8W	13,8	14	107	60	43	45
A001014	A001014W	14	14	107	60	43	45
A001014,5	A001014,5W	14,5	16	115	65	45	48
A001015	A001015W	15	16	115	65	45	48
A001015,5	A001015,5W	15,5	16	115	65	45	48
A001015,8	A001015,8W	15,8	16	115	65	45	48
A001016	A001016W	16	16	115	65	45	48
A001016,5	A001016,5W	16,5	18	123	73	51	48
A001017,0	A001017W	17	18	123	73	51	48
A001017,50	A001017,5W	17,5	18	123	73	51	48
A001018	A001018W	18	18	123	73	51	48
A001019	A001019W	19	20	131	79	55	50
A001020	A001020W	20	20	131	79	55	50

DRILLS REINFORCED SHANK 5XD

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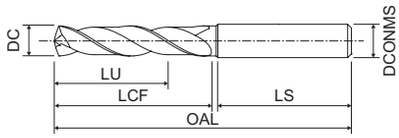
TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 5xD	6537L	λ=30°	140°		DIN 6535 HB / DIN 6535 HA	DEVIL

High performance universal drills for a wide range of materials.
Excellent for medium to high production batches.

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2	K3
●	●	●	●	●	●	●	●	○	○	●	●	●







Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A003003	A003003W	3	6	66	28	23	36
A003003,2	A003003,2W	3,2	6	66	28	23	36
A003003,3	A003003,3W	3,3	6	66	28	23	36
A003003,4	A003003,4W	3,4	6	66	28	23	36
A003003,5	A003003,5W	3,5	6	66	28	23	36
A003003,6	A003003,6W	3,6	6	66	28	23	36
A003003,7	A003003,7W	3,7	6	66	28	23	36
A003003,8	A003003,8W	3,8	6	74	36	29	36
A003003,9	A003003,9W	3,9	6	74	36	29	36
A003004	A003004W	4	6	74	36	29	36
A003004,1	A003004,1W	4,1	6	74	36	29	36
A003004,2	A003004,2W	4,2	6	74	36	29	36
A003004,3	A003004,3W	4,3	6	74	36	29	36
A003004,4	A003004,4W	4,4	6	74	36	29	36
A003004,5	A003004,5W	4,5	6	74	36	29	36
A003004,6	A003004,6W	4,6	6	74	36	29	36
A003004,7	A003004,7W	4,7	6	74	36	29	36
A003004,8	A003004,8W	4,8	6	82	44	35	36
A003004,9	A003004,9W	4,9	6	82	44	35	36
A003005	A003005W	5	6	82	44	35	36
A003005,1	A003005,1W	5,1	6	82	44	35	36
A003005,2	A003005,2W	5,2	6	82	44	35	36
A003005,3	A003005,3W	5,3	6	82	44	35	36
A003005,5	A003005,5W	5,5	6	82	44	35	36
A003005,6	A003005,6W	5,6	6	82	44	35	36
A003005,7	A003005,7W	5,7	6	82	44	35	36
A003005,8	A003005,8W	5,8	6	82	44	35	36
A003005,9	A003005,9W	5,9	6	82	44	35	36
A003006	A003006W	6	6	82	44	35	36
A003006,1	A003006,1W	6,1	8	91	53	43	36
A003006,2	A003006,2W	6,2	8	91	53	43	36
A003006,3	A003006,3W	6,3	8	91	53	43	36
A003006,4	A003006,4W	6,4	8	91	53	43	36
A003006,5	A003006,5W	6,5	8	91	53	43	36
A003006,6	A003006,6W	6,6	8	91	53	43	36
A003006,7	A003006,7W	6,7	8	91	53	43	36
A003006,8	A003006,8W	6,8	8	91	53	43	36
A003006,9	A003006,9W	6,9	8	91	53	43	36
A003007	A003007W	7	8	91	53	43	36
A003007,1	A003007,1W	7,1	8	91	53	43	36
A003007,2	A003007,2W	7,2	8	91	53	43	36
A003007,3	A003007,3W	7,3	8	91	53	43	36
A003007,4	A003007,4W	7,4	8	91	53	43	36
A003007,5	A003007,5W	7,5	8	91	53	43	36
A003007,7	A003007,7W	7,7	8	91	53	43	36
A003007,8	A003007,8W	7,8	8	91	53	43	36
A003007,9	A003007,9W	7,9	8	91	53	43	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A003008	A003008W	8	8	91	53	43	36
A003008,1	A003008,1W	8,1	10	103	61	49	40
A003008,2	A003008,2W	8,2	10	103	61	49	40
A003008,3	A003008,3W	8,3	10	103	61	49	40
A003008,4	A003008,4W	8,4	10	103	61	49	40
A003008,5	A003008,5W	8,5	10	103	61	49	40
A003008,6	A003008,6W	8,6	10	103	61	49	40
A003008,7	A003008,7W	8,7	10	103	61	49	40
A003008,8	A003008,8W	8,8	10	103	61	49	40
A003008,9	A003008,9W	8,9	10	103	61	49	40
A003009	A003009W	9	10	103	61	49	40
A003009,1	A003009,1W	9,1	10	103	61	49	40
A003009,2	A003009,2W	9,2	10	103	61	49	40
A003009,3	A003009,3W	9,3	10	103	61	49	40
A003009,4	A003009,4W	9,4	10	103	61	49	40
A003009,5	A003009,5W	9,5	10	103	61	49	40
A003009,7	A003009,7W	9,7	10	103	61	49	40
A003009,8	A003009,8W	9,8	10	103	61	49	40
A003010	A003010W	10	10	103	61	49	40
A003010,10	A003010,1W	10,1	12	118	71	56	45
A003010,2	A003010,2W	10,2	12	118	71	56	45
A003010,3	A003010,3W	10,3	12	118	71	56	45
A003010,5	A003010,5W	10,5	12	118	71	56	45
A003010,8	A003010,8W	10,8	12	118	71	56	45
A003011	A003011W	11	12	118	71	56	45
A003011,1	A003011,1W	11,1	12	118	71	56	45
A003011,2	A003011,2W	11,2	12	118	71	56	45
A003011,5	A003011,5W	11,5	12	118	71	56	45
A003011,8	A003011,8W	11,8	12	118	71	56	45
A003012	A003012W	12	12	118	71	56	45
A003012,2	A003012,2W	12,2	14	124	77	60	45
A003012,5	A003012,5W	12,5	14	124	77	60	45
A003013	A003013W	13	14	124	77	60	45
A003013,5	A003013,5W	13,5	14	124	77	60	45
A003013,8	A003013,8W	13,8	14	124	77	60	45
A003014	A003014W	14	14	124	77	60	45
A003014,5	A003014,5W	14,5	16	133	83	63	48
A003015	A003015W	15	16	133	83	63	48
A003015,5	A003015,5W	15,5	16	133	83	63	48
A003016	A003016W	16	16	133	83	63	48
A003016,5	A003016,5W	16,5	18	143	93	71	48
A003017	A003017W	17	18	143	93	71	48
A003017,5	A003017,5W	17,5	18	143	93	71	48
A003018	A003018W	18	18	143	93	71	48
A003018,5	A003018,5W	18,5	20	153	101	77	50
A003019	A003019W	19	20	153	101	77	50
A003020	A003020W	20	20	153	101	77	50

DRILLS REINFORCED SHANK 3XD - COOLANT HOLES

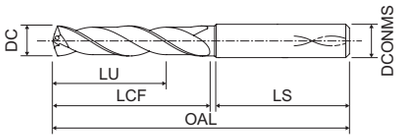
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TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 3xD	6537K	λ=30°	140°		DIN 6535 HB DIN 6535 HA	DEVIL

COOLANT







High performance universal drills for a wide range of materials.
Excellent for medium to high production batches.

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2	K3
●	●	●	●	●	●	●	●	○	○	●	●	●

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A002003	A002003W	3	6	62	20	14	36
A002003,1	A002003,1W	3,1	6	62	20	14	36
A002003,2	A002003,2W	3,2	6	62	20	14	36
A002003,3	A002003,3W	3,3	6	62	20	14	36
A002003,4	A002003,4W	3,4	6	62	20	14	36
A002003,5	A002003,5W	3,5	6	62	20	14	36
A002003,7	A002003,7W	3,7	6	62	20	14	36
A002003,8	A002003,8W	3,8	6	66	24	17	36
A002003,9	A002003,9W	3,9	6	66	24	17	36
A002004	A002004W	4	6	66	24	17	36
A002004,1	A002004,1W	4,1	6	66	24	17	36
A002004,2	A002004,2W	4,2	6	66	24	17	36
A002004,3	A002004,3W	4,3	6	66	24	17	36
A002004,4	A002004,4W	4,4	6	66	24	17	36
A002004,5	A002004,5W	4,5	6	66	24	17	36
A002004,6	A002004,6W	4,6	6	66	24	17	36
A002004,7	A002004,7W	4,7	6	66	24	17	36
A002004,8	A002004,8W	4,8	6	66	28	20	36
A002004,9	A002004,9W	4,9	6	66	28	20	36
A002005	A002005W	5	6	66	28	20	36
A002005,1	A002005,1W	5,1	6	66	28	20	36
A002005,2	A002005,2W	5,2	6	66	28	20	36
A002005,3	A002005,3W	5,3	6	66	28	20	36
A002005,5	A002005,5W	5,5	6	66	28	20	36
A002005,6	A002005,6W	5,6	6	66	28	20	36
A002005,7	A002005,7W	5,7	6	66	28	20	36
A002005,8	A002005,8W	5,8	6	66	28	20	36
A002005,9	A002005,9W	5,9	6	66	28	20	36
A002006	A002006W	6	6	66	28	20	36
A002006,1	A002006,1W	6,1	8	79	34	24	36
A002006,2	A002006,2W	6,2	8	79	34	24	36
A002006,3	A002006,3W	6,3	8	79	34	24	36
A002006,4	A002006,4W	6,4	8	79	34	24	36
A002006,5	A002006,5W	6,5	8	79	34	24	36
A002006,6	A002006,6W	6,6	8	79	34	24	36
A002006,7	A002006,7W	6,7	8	79	34	24	36
A002006,8	A002006,8W	6,8	8	79	34	24	36
A002006,9	A002006,9W	6,9	8	79	34	24	36
A002007	A002007W	7	8	79	34	24	36
A002007,1	A002007,1W	7,1	8	79	41	29	36
A002007,2	A002007,2W	7,2	8	79	41	29	36
A002007,3	A002007,3W	7,3	8	79	41	29	36
A002007,4	A002007,4W	7,4	8	79	41	29	36
A002007,5	A002007,5W	7,5	8	79	41	29	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A002007,7	A002007,7W	7,7	8	79	41	29	36
A002007,8	A002007,8W	7,8	8	79	41	29	36
A002007,9	A002007,9W	7,9	8	79	41	29	36
A002008	A002008W	8	8	79	41	29	36
A002008,1	A002008,1W	8,1	10	89	47	35	40
A002008,2	A002008,2W	8,2	10	89	47	35	40
A002008,3	A002008,3W	8,3	10	89	47	35	40
A002008,4	A002008,4W	8,4	10	89	47	35	40
A002008,5	A002008,5W	8,5	10	89	47	35	40
A002008,6	A002008,6W	8,6	10	89	47	35	40
A002008,7	A002008,7W	8,7	10	89	47	35	40
A002008,8	A002008,8W	8,8	10	89	47	35	40
A002009	A002009W	9	10	89	47	35	40
A002009,1	A002009,1W	9,1	10	89	47	35	40
A002009,2	A002009,2W	9,2	10	89	47	35	40
A002009,3	A002009,3W	9,3	10	89	47	35	40
A002009,4	A002009,4W	9,4	10	89	47	35	40
A002009,5	A002009,5W	9,5	10	89	47	35	40
A002009,7	A002009,7W	9,7	10	89	47	35	40
A002009,8	A002009,8W	9,8	10	89	47	35	40
A002009,9	A002009,9W	9,9	10	89	47	35	40
A002010	A002010W	10	10	89	47	35	40
A002010,1	A002010,1W	10,1	12	102	55	40	45
A002010,2	A002010,2W	10,2	12	102	55	40	45
A002010,3	A002010,3W	10,3	12	102	55	40	45
A002010,5	A002010,5W	10,5	12	102	55	40	45
A002010,8	A002010,8W	10,8	12	102	55	40	45
A002011	A002011W	11	12	102	55	40	45
A002011,2	A002011,2W	11,2	12	102	55	40	45
A002011,5	A002011,5W	11,5	12	102	55	40	45
A002011,8	A002011,8W	11,8	12	102	55	40	45
A002012	A002012W	12	12	102	55	40	45
A002012,2	A002012,2W	12,2	14	107	60	43	45
A002012,5	A002012,5W	12,5	14	107	60	43	45
A002012,7	A002012,7W	12,7	14	107	60	43	45
A002012,8	A002012,8W	12,8	14	107	60	43	45
A002013	A002013W	13	14	107	60	43	45
A002013,5	A002013,5W	13,5	14	107	60	43	45
A002013,8	A002013,8W	13,8	14	107	60	43	45
A002014	A002014W	14	14	107	60	43	45
A002014,5	A002014,5W	14,5	14	115	65	45	48
A002015	A002015W	15	16	115	65	45	48
A002015,5	A002015,5W	15,5	16	115	65	45	48
A002016	A002016W	16	16	115	65	45	48

DRILLS REINFORCED SHANK 5XD - COOLANT HOLES

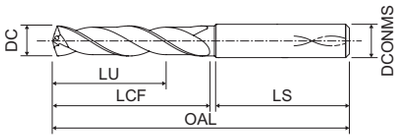
KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 5xD	6537L	λ=30°	140°		DIN 6535 HB DIN 6535 HA	DEVIL

COOLANT







High performance universal drills for a wide range of materials.
Excellent for medium to high production batches.

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2	K3
●	●	●	●	●	●	●	●	○	○	●	●	●

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A004001	-	1	4	45	7	6	30
A004001,1	-	1,1	4	45	7.5	6	29
A004001,2	-	1,2	4	45	8.5	7	29
A004001,3	-	1,3	4	45	9	7	28.5
A004001,4	-	1,4	4	45	10	8	28
A004001,5	-	1,5	4	50	10.5	8	32
A004001,6	-	1,6	4	50	11	9	31
A004001,7	-	1,7	4	50	12	9	30.5
A004001,8	-	1,8	4	50	12.5	10	30
A004001,85	-	1,85	4	50	12.5	10	29.5
A004001,9	-	1,9	4	50	13.5	10	29.5
A004002	-	2	4	55	14	11	29
A004002,1	-	2,1	4	55	14.5	12	33
A004002,2	-	2,2	4	55	15.5	12	32.5
A004002,3	-	2,3	4	55	16	13	32
A004002,4	-	2,4	4	55	17	13	31.5
A004002,5	-	2,5	4	55	17.5	14	30.5
A004002,6	-	2,6	4	55	18	14	30
A004002,7	-	2,7	4	55	19	15	29
A004002,8	-	2,8	4	55	19.5	15	29
A004002,9	-	2,9	4	55	20.5	16	28.5
A004003	A004003W	3	6	66	28	23	36
A004003,1	A004003,1W	3,1	6	66	28	23	36
A004003,2	A004003,2W	3,2	6	66	28	23	36
A004003,3	A004003,3W	3,3	6	66	28	23	36
A004003,4	A004003,4W	3,4	6	66	28	23	36
A004003,5	A004003,5W	3,5	6	66	28	23	36
A004003,6	A004003,6W	3,6	6	66	28	23	36
A004003,7	A004003,7W	3,7	6	66	28	23	36
A004003,8	A004003,8W	3,8	6	74	36	29	36
A004003,9	A004003,9W	3,9	6	74	36	29	36
A004004,0	A004004,0W	4	6	74	36	29	36
A004004,1	A004004,1W	4,1	6	74	36	29	36
A004004,2	A004004,2W	4,2	6	74	36	29	36
A004004,3	A004004,3W	4,3	6	74	36	29	36
A004004,4	A004004,4W	4,4	6	74	36	29	36
A004004,5	A004004,5W	4,5	6	74	36	29	36
A004004,6	A004004,6W	4,6	6	74	36	29	36
A004004,65	A00404,65W	4,65	6	74	36	29	36
A004004,7	A004004,7W	4,7	6	74	36	29	36
A004004,8	A004004,8W	4,8	6	82	44	35	36
A004004,9	A004004,9W	4,9	6	82	44	35	36
A004005	A004005W	5	6	82	44	35	36
A004005,1	A004005,1W	5,1	6	82	44	35	36
A004005,2	A004005,2W	5,2	6	82	44	35	36
A004005,3	A004005,3W	5,3	6	82	44	35	36
A004005,4	A004005,4W	5,4	6	82	44	35	36
A004005,5	A004005,5W	5,5	6	82	44	35	36
A004005,55	A004005,55W	5,55	6	82	44	35	36
A004005,6	A004005,6W	5,6	6	82	44	35	36
A004005,7	A004005,7W	5,7	6	82	44	35	36
A004005,8	A004005,8W	5,8	6	82	44	35	36
A004005,9	A004005,9W	5,9	6	82	44	35	36
A004006	A004006W	6	6	82	44	35	36
A004006,1	A004006,1W	6,1	8	91	53	43	36
A004006,2	A004006,2W	6,2	8	91	53	43	36
A004006,3	A004006,3W	6,3	8	91	53	43	36
A004006,4	A004006,4W	6,4	8	91	53	43	36
A004006,5	A004006,5W	6,5	8	91	53	43	36
A004006,6	A004006,6W	6,6	8	91	53	43	36
A004006,7	A004006,7W	6,7	8	91	53	43	36
A004006,8	A004006,8W	6,8	8	91	53	43	36
A004006,9	A004006,9W	6,9	8	91	53	43	36
A004007	A004007W	7	8	91	53	43	36
A004007,1	A004007,1W	7,1	8	91	53	43	36
A004007,2	A004007,2W	7,2	8	91	53	43	36
A004007,3	A004007,3W	7,3	8	91	53	43	36
A004007,4	A004007,4W	7,4	8	91	53	43	36
A004007,5	A004007,5W	7,5	8	91	53	43	36
A004007,6	A004007,6W	7,6	8	91	53	43	36
A004007,7	A004007,7W	7,7	8	91	53	43	36
A004007,8	A004007,8W	7,8	8	91	53	43	36
A004007,9	A004007,9W	7,9	8	91	53	43	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A004008	A004008W	8	8	91	53	43	36
A004008,1	A004008,1W	8,1	10	103	61	49	40
A004008,2	A004008,2W	8,2	10	103	61	49	40
A004008,3	A004008,3W	8,3	10	103	61	49	40
A004008,4	A004008,4W	8,4	10	103	61	49	40
A004008,5	A004008,5W	8,5	10	103	61	49	40
A004008,6	A004008,6W	8,6	10	103	61	49	40
A004008,7	A004008,7W	8,7	10	103	61	49	40
A004008,8	A004008,8W	8,8	10	103	61	49	40
A004008,9	A004008,9W	8,9	10	103	61	49	40
A004009	A004009W	9	10	103	61	49	40
A004009,1	A004009,1W	9,1	10	103	61	49	40
A004009,2	A004009,2W	9,2	10	103	61	49	40
A004009,3	A004009,3W	9,3	10	103	61	49	40
A004009,4	A004009,4W	9,4	10	103	61	49	40
A004009,5	A004009,5W	9,5	10	103	61	49	40
A004009,6	A004009,6W	9,6	10	103	61	49	40
A004009,7	A004009,7W	9,7	10	103	61	49	40
A004009,8	A004009,8W	9,8	10	103	61	49	40
A004009,9	A004009,9W	9,9	10	103	61	49	40
A004010	A004010W	10	10	103	61	49	40
A004010,1	A004010,1W	10,1	12	118	71	56	45
A004010,2	A004010,2W	10,2	12	118	71	56	45
A004010,3	A004010,3W	10,3	12	118	71	56	45
A004010,4	A004010,4W	10,4	12	118	71	56	45
A004010,5	A004010,5W	10,5	12	118	71	56	45
A004010,60	A004010,6W	10,6	12	118	71	56	45
A004010,7	A004010,7W	10,7	12	118	71	56	45
A004010,8	A004010,8W	10,8	12	118	71	56	45
A004010,9	A004010,9W	10,9	12	118	71	56	45
A004011	A004011W	11	12	118	71	56	45
A004011,1	A004011,1W	11,1	12	118	71	56	45
A004011,2	A004011,2W	11,2	12	118	71	56	45
A004011,3	A004011,3W	11,3	12	118	71	56	45
A004011,4	A004011,4W	11,4	12	118	71	56	45
A004011,5	A004011,5W	11,5	12	118	71	56	45
A004011,7	A004011,7W	11,7	12	118	71	56	45
A004011,8	A004011,8W	11,8	12	118	71	56	45
A004011,90	A004011,9W	11,9	12	118	71	56	45
A004012	A004012W	12	12	118	71	56	45
A004012,1	A004012,1W	12,1	14	124	77	60	45
A004012,2	A004012,2W	12,2	14	124	77	60	45
A004012,4	A004012,4W	12,4	14	124	77	60	45
A004012,5	A004012,5W	12,5	14	124	77	60	45
A004012,7	A004012,7W	12,7	14	124	77	60	45
A004012,8	A004012,8W	12,8	14	124	77	60	45
A004012,9	A004012,9W	12,9	14	124	77	60	45
A004013	A004013W	13	14	124	77	60	45
A004013,1	A004013,1W	13,1	14	124	77	60	45
A004013,2	A004013,2W	13,2	14	124	77	60	45
A004013,3	A004013,3W	13,3	14	124	77	60	45
A004013,5	A004013,5W	13,5	14	124	77	60	45
A004013,7	A004013,7W	13,7	14	124	77	60	45
A004013,8	A004013,8W	13,8	14	124	77	60	45
A004014	A004014W	14	14	124	77	60	45
A004014,2	A004014,2W	14,2	16	133	83	63	48
A004014,5	A004014,5W	14,5	16	133	83	63	48
A004014,8	A004014,8W	14,8	16	133	83	63	48
A004015	A004015W	15	16	133	83	63	48
A004015,1	A004015,1W	15,1	16	133	83	63	48
A004015,3	A004015,3W	15,3	16	133	83	63	48
A004015,5	A004015,5W	15,5	16	133	83	63	48
A004015,8	A004015,8W	15,8	16	133	83	63	48
A004016	A004016W	16	16	133	83	63	48
A004016,5	A004016,5W	16,5	18	143	93	71	48
A004017	A004017W	17	18	143	93	71	48
A004017,5	A004017,5W	17,5	18	143	93	71	48
A004018	A004018W	18	18	143	93	71	48
A004018,5	A004018,5W	18,5	20	153	101	77	50
A004019	A004019W	19	20	153	101	77	50
A004019,5	A004019,5W	19,5	20	153	101	77	50
A004020	A004020W	20	20	153	101	77	50

8XD REINFORCED SHANK DRILLS WITH HOLES

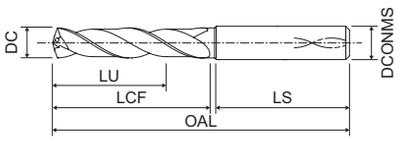
KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 8xD	NDF	λ=30°	135°		DIN 6535 HB DIN 6535 HA	DEVIL

COOLANT







High performance universal drills for a wide range of materials.
Excellent for medium to high production batches.

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2	K3
●	●	●	●	●	●	●	●	○	○	●	●	●

Cylindrical	Weldon	DC h7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A005003	A005003W	3	6	72	34	29	36
A005003,1	A005003,1W	3,1	6	72	34	29	36
A005003,3	A005003,3W	3,3	6	72	34	29	36
A005003,4	A005003,4W	3,4	6	72	34	29	36
A005003,5	A005003,5W	3,5	6	72	34	29	36
A005003,7	A005003,7W	3,7	6	72	34	29	36
A005003,8	A005003,8W	3,8	6	81	43	36	36
A005003,9	A005003,9W	3,9	6	81	43	36	36
A005004	A005004W	4	6	81	43	36	36
A005004,1	A005004,1W	4,1	6	81	43	36	36
A005004,2	A005004,2W	4,2	6	81	43	36	36
A005004,3	A005004,3W	4,3	6	81	43	36	36
A005004,4	A005004,4W	4,4	6	81	43	36	36
A005004,5	A005004,5W	4,5	6	81	43	36	36
A005004,6	A005004,6W	4,6	6	81	43	36	36
A005004,7	A005004,7W	4,7	6	81	43	36	36
A005004,8	A005004,8W	4,8	6	95	57	48	36
A005004,9	A005004,9W	4,9	6	95	57	48	36
A005005	A005005W	5	6	95	57	48	36
A005005,1	A005005,1W	5,1	6	95	57	48	36
A005005,2	A005005,2W	5,2	6	95	57	48	36
A005005,3	A005005,3W	5,3	6	95	57	48	36
A005005,4	A005005,4W	5,4	6	95	57	48	36
A005005,5	A005005,5W	5,5	6	95	57	48	36
A005005,6	A005005,6W	5,6	6	95	57	48	36
A005005,7	A005005,7W	5,7	6	95	57	48	36
A005005,8	A005005,8W	5,8	6	95	57	48	36
A005005,9	A005005,9W	5,9	6	95	57	48	36
A005006	A005006W	6	6	95	57	48	36
A005006,1	A005006,1W	6,1	8	114	76	64	36
A005006,2	A005006,2W	6,2	8	114	76	64	36
A005006,3	A005006,3W	6,3	8	114	76	64	36
A005006,5	A005006,5W	6,5	8	114	76	64	36
A005006,6	A005006,6W	6,6	8	114	76	64	36
A005006,7	A005006,7W	6,7	8	114	76	64	36
A005006,8	A005006,8W	6,8	8	114	76	64	36
A005006,9	A005006,9W	6,9	8	114	76	64	36
A005007	A005007W	7	8	114	76	64	36

Cylindrical	Weldon	DC h7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A005007,1	A005007,1W	7,1	8	114	76	64	36
A005007,2	A005007,2W	7,2	8	114	76	64	36
A005007,3	A005007,3W	7,3	8	114	76	64	36
A005007,4	A005007,4W	7,4	8	114	76	64	36
A005007,5	A005007,5W	7,5	8	114	76	64	36
A005007,6	A005007,6W	7,6	8	114	76	64	36
A005007,7	A005007,7W	7,7	8	114	76	64	36
A005007,8	A005007,8W	7,8	8	114	76	64	36
A005008	A005008W	8	8	114	76	64	36
A005008,1	A005008,1W	8,1	10	142	95	80	40
A005008,2	A005008,2W	8,2	10	142	95	80	40
A005008,5	A005008,5W	8,5	10	142	95	80	40
A005008,8	A005008,8W	8,8	10	142	95	80	40
A005009	A005009W	9	10	142	95	80	40
A005009,1	A005009,1W	9,1	10	142	95	80	40
A005009,2	A005009,2W	9,2	10	142	95	80	40
A005009,5	A005009,5W	9,5	10	142	95	80	40
A005009,8	A005009,8W	9,8	10	142	95	80	40
A005009,9	A005009,9W	9,9	10	142	95	80	40
A005010	A005010W	10	10	142	95	80	40
A005010,1	A005010,1W	10,1	12	162	114	96	45
A005010,2	A005010,2W	10,2	12	162	114	96	45
A005010,5	A005010,5W	10,5	12	162	114	96	45
A005010,8	A005010,8W	10,8	12	162	114	96	45
A005011	A005011W	11	12	162	114	96	45
A005011,2	A005011,2W	11,2	12	162	114	96	45
A005011,5	A005011,5W	11,5	12	162	114	96	45
A005011,8	A005011,8W	11,8	12	162	114	96	45
A005012	A005012W	12	12	162	114	96	45
A005012,5	A005012,5W	12,5	14	178	133	112	45
A005013	A005013W	13	14	178	133	112	45
A005013,5	A005013,5W	13,5	14	178	133	112	45
A005014	A005014W	14	14	178	133	112	45
A005014,5	A005014,5W	14,5	16	203	152	128	48
A005015	A005015W	15	16	203	152	128	48
A005015,5	A005015,5W	15,5	16	203	152	128	48
A005016	A005016W	16	16	203	152	128	48

12XD REINFORCED SHANK DRILLS WITH HOLES

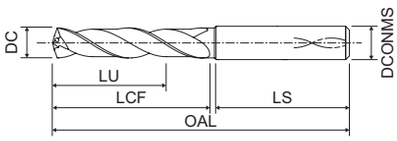
KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 12xD	NDF	λ=30°	135°		DIN 6535 HB DIN 6535 HA	DEVIL

COOLANT







High performance universal drills for a wide range of materials.
Excellent for medium to high production batches.

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2	K3
●	●	●	●	●	●	●	●	○	○	●	●	●

Cylindrical	Weldon	DC h7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A006003	A006003W	3	6	92	54	48	36
A006003,3	A006003,3W	3,3	6	92	54	48	36
A006003,4	A006003,4W	3,4	6	92	54	48	36
A006003,5	A006003,5W	3,5	6	92	54	48	36
A006003,8	A006003,8W	3,8	6	102	64	58	36
A006004	A006004W	4	6	102	64	58	36
A006004,2	A006004,2W	4,2	6	102	64	58	36
A006004,3	A006004,3W	4,3	6	102	64	58	36
A006004,5	A006004,5W	4,5	6	102	64	58	36
A006004,8	A006004,8W	4,8	6	121	83	74	36
A006005	A006005W	5	6	121	83	74	36
A006005,1	A006005,1W	5,1	6	121	83	74	36
A006005,2	A006005,2W	5,2	6	121	83	74	36
A006005,5	A006005,5W	5,5	6	121	83	74	36
A006005,6	A006005,6W	5,6	6	121	83	74	36
A006005,8	A006005,8W	5,8	6	121	83	74	36
A006006	A006006W	6	6	121	83	74	36
A006006,1	A006006,1W	6,1	8	148	110	98	36
A006006,5	A006006,5W	6,5	8	148	110	98	36
A006006,6	A006006,6W	6,6	8	148	110	98	36
A006006,8	A006006,8W	6,8	8	148	110	98	36
A006006,9	A006006,9W	6,9	8	148	110	98	36
A006007	A006007W	7	8	148	110	98	36
A006007,4	A006007,4W	7,4	8	148	110	98	36
A006007,5	A006007,5W	7,5	8	148	110	98	36
A006007,8	A006007,8W	7,8	8	148	110	98	36
A006008	A006008W	8	8	148	110	98	36
A006008,1	A006008,1W	8,1	10	162	120	110	40

Cylindrical	Weldon	DC h7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A006008,3	A006008,3W	8,3	10	180	138	123	40
A006008,4	A006008,4W	8,4	10	180	138	123	40
A006008,5	A006008,5W	8,5	10	180	138	123	40
A006008,6	A006008,6W	8,6	10	180	138	123	40
A006008,7	A006008,7W	8,7	10	180	138	123	40
A006008,80	A006008,8W	8,8	10	180	138	123	40
A006009	A006009W	9	10	180	138	123	40
A006009,3	A006009,3W	9,3	10	180	138	123	40
A006009,5	A006009,5W	9,5	10	180	138	123	40
A006009,8	A006009,8W	9,8	10	180	138	123	40
A006010	A006010W	10	10	180	138	123	40
A006010,20	A006010,2W	10,2	12	206	158	142	45
A006010,3	A006010,3W	10,3	12	206	158	142	45
A006010,4	A006010,4W	10,4	12	206	158	142	45
A006010,50	A006010,5W	10,5	12	206	158	142	45
A006010,8	A006010,8W	10,8	12	206	158	142	45
A006011	A006011W	11	12	206	158	142	45
A006011,2	A006011,2W	11,2	12	206	158	142	45
A006011,5	A006011,5W	11,5	12	206	158	142	45
A006011,8	A006011,8W	11,8	12	206	158	142	45
A006012	A006012W	12	12	206	158	142	45
A006012,5	A006012,5W	12,5	14	230	182	161	45
A006013	A006013W	13	14	230	182	161	45
A006013,5	A006013,5W	13,5	14	230	182	161	45
A006014	A006014W	14	14	230	182	161	45
A006014,5	A006014,5W	14,5	16	260	208	186	48
A006015	A006015W	15	16	260	208	186	48

20XD REINFORCED SHANK DRILLS WITH HOLES

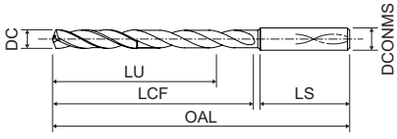
KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 20xD	NDF	λ=30°	135°		DIN 6535 HA	DEVIL

COOLANT







Universal high performance deep drills for a wide range of materials.
Pilot drill is required. All tolerances are matched for optimal functionality as well as for the interaction of pilot drill and deep drill.

P1	P2	P3	P4	P5	P6	P7	P8	K1	K2	K3
●	●	●	●	●	●	○	○	●	●	●

Cylindrical	Weldon	DC h7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A007003	-	3	4	110	70	65,5	36
A007003,3	-	3,3	6	123	83	78	36
A007003,5	-	3,5	6	123	96	90	36
A007004	-	4	4	136	96	90	36
A007004,2	-	4,2	6	158	118	110	36
A007004,5	-	4,5	6	158	118	110	36
A007005	-	5	6	158	118	110	36
A007005,1	-	5,1	6	180	140	130	36
A007005,2	-	5,2	6	180	140	130	36
A007005,5	-	5,5	6	180	140	130	36
A007006	-	6	6	180	140	130	36

Cylindrical	Weldon	DC h7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A007006,5	-	6,5	8	202	162	150	36
A007007	-	7	8	202	162	150	36
A007007,5	-	7,5	8	202	183	170	36
A007008	-	8	8	223	183	170	36
A007008,5	-	8,5	10	249	205	190	36
A007009	-	9	10	249	205	190	40
A007009,5	-	9,5	10	271	227	210	40
A007010	-	10	10	271	227	210	40
A007011	-	11	12	302	253	235	45
A007012	-	12	12	323	274	256	45

DRILLS REAMERS 5XD - COOLANT HOLES

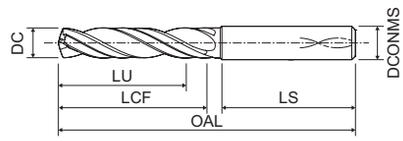
KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 5xD	6537L	λ=30°	140°		DIN 6535 HA	DEVIL

COOLANT







High performance drill reaming tool.
The best performance and accuracy values in one working process in a wide range of materials.

P1	P2	P3	P4	P5	P7	P8	K1	K2	K3	N2	N3	N7
●	●	●	●	●	●	●	●	●	●	●	●	●

Cylindrical	Weldon	DC ±0,003 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A009605,98	-	5,98	6	91	53	43	36
A009605,99	-	5,99	6	91	53	43	36
A009606,00	-	6	6	91	53	43	36
A009606,01	-	6,01	6	91	53	43	36
A009606,02	-	6,02	6	91	53	43	36
A009607,98	-	7,98	8	91	53	43	36
A009607,99	-	7,99	8	91	53	43	36
A009608,00	-	8	8	91	53	43	36
A009608,01	-	8,01	8	91	53	43	36
A009608,02	-	8,02	8	91	53	43	36

Cylindrical	Weldon	DC ±0,003 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A009609,98	-	9,98	10	103	61	49	40
A009609,99	-	9,99	10	103	61	49	40
A009610,00	-	10	10	103	61	49	40
A009610,01	-	10,01	10	103	61	49	40
A009610,02	-	10,02	10	103	61	49	40
A009611,98	-	11,98	12	118	71	56	45
A009611,99	-	11,99	12	118	71	56	45
A009612,00	-	12	12	118	71	56	45
A009612,01	-	12,01	12	118	71	56	45
A009612,02	-	12,02	12	118	71	56	45

3XD REINFORCED SHANK DRILLS

KERFOLG

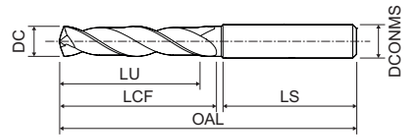
TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 3xD	6537K	λ=30°	140°		DIN 6535 HB DIN 6535 HA	DEVIL

Solid carbide twist drills for general use.

P1	P2	P3	P4	P5	P7	P8	K1	K2	K3
●	●	●	●	●	●	●	●	●	●







Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A000503	A000503W	3,0	6	62	20	14	36
A000503,1	A000503,1W	3,1	6	62	20	14	36
A000503,2	A000503,2W	3,2	6	62	20	14	36
A000503,3	A000503,3W	3,3	6	62	20	14	36
A000503,4	A000503,4W	3,4	6	62	20	14	36
A000503,5	A000503,5W	3,5	6	62	20	14	36
A000503,6	A000503,6W	3,6	6	62	20	14	36
A000503,7	A000503,7W	3,7	6	62	20	14	36
A000503,8	A000503,8W	3,8	6	66	24	17	36
A000503,9	A000503,9W	3,9	6	66	24	17	36
A000504	A000504W	4,0	6	66	24	17	36
A000504,1	A000504,1W	4,1	6	66	24	17	36
A000504,2	A000504,2W	4,2	6	66	24	17	36
A000504,3	A000504,3W	4,3	6	66	24	17	36
A000504,4	A000504,4W	4,4	6	66	24	17	36
A000504,5	A000504,5W	4,5	6	66	24	17	36
A000504,6	A000504,6W	4,6	6	66	24	17	36
A000504,7	A000504,7W	4,7	6	66	24	17	36
A000504,8	A000504,8W	4,8	6	66	28	20	36
A000504,9	A000504,9W	4,9	6	66	28	20	36
A000505	A000505W	5,0	6	66	28	20	36
A000505,1	A000505,1W	5,1	6	66	28	20	36
A000505,2	A000505,2W	5,2	6	66	28	20	36
A000505,3	A000505,3W	5,3	6	66	28	20	36
A000505,4	A000505,4W	5,4	6	66	28	20	36
A000505,5	A000505,5W	5,5	6	66	28	20	36
A000505,6	A000505,6W	5,6	6	66	28	20	36
A000505,7	A000505,7W	5,7	6	66	28	20	36
A000505,8	A000505,8W	5,8	6	66	28	20	36
A000505,9	A000505,9W	5,9	6	66	28	20	36
A000506	A000506W	6,0	6	66	28	20	36
A000506,1	A000506,1W	6,1	8	79	34	24	36
A000506,2	A000506,2W	6,2	8	79	34	24	36
A000506,3	A000506,3W	6,3	8	79	34	24	36
A000506,4	A000506,4W	6,4	8	79	34	24	36
A000506,5	A000506,5W	6,5	8	79	34	24	36
A000506,6	A000506,6W	6,6	8	79	34	24	36
A000506,7	A000506,7W	6,7	8	79	34	24	36
A000506,8	A000506,8W	6,8	8	79	34	24	36
A000506,9	A000506,9W	6,9	8	79	34	24	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A000507	A000507W	7,0	8	79	34	24	36
A000507,1	A000507,1W	7,1	8	79	41	29	36
A000507,2	A000507,2W	7,2	8	79	41	29	36
A000507,3	A000507,3W	7,3	8	79	41	29	36
A000507,4	A000507,4W	7,4	8	79	41	29	36
A000507,5	A000507,5W	7,5	8	79	41	29	36
A000507,6	A000507,6W	7,6	8	79	41	29	36
A000507,7	A000507,7W	7,7	8	79	41	29	36
A000507,8	A000507,8W	7,8	8	79	41	29	36
A000507,9	A000507,9W	7,9	8	79	41	29	36
A000508	A000508W	8,0	8	79	41	29	36
A000508,1	A000508,1W	8,1	10	89	47	35	40
A000508,2	A000508,2W	8,2	10	89	47	35	40
A000508,3	A000508,3W	8,3	10	89	47	35	40
A000508,4	A000508,4W	8,4	10	89	47	35	40
A000508,5	A000508,5W	8,5	10	89	47	35	40
A000508,6	A000508,6W	8,6	10	89	47	35	40
A000508,7	A000508,7W	8,7	10	89	47	35	40
A000508,8	A000508,8W	8,8	10	89	47	35	40
A000508,9	A000508,9W	8,9	10	89	47	35	40
A000509	A000509W	9,0	10	89	47	35	40
A000509,1	A000509,1W	9,1	10	89	47	35	40
A000509,2	A000509,2W	9,2	10	89	47	35	40
A000509,3	A000509,3W	9,3	10	89	47	35	40
A000509,4	A000509,4W	9,4	10	89	47	35	40
A000509,5	A000509,5W	9,5	10	89	47	35	40
A000509,6	A000509,6W	9,6	10	89	47	35	40
A000509,7	A000509,7W	9,7	10	89	47	35	40
A000509,8	A000509,8W	9,8	10	89	47	35	40
A000509,9	A000509,9W	9,9	10	89	47	35	40
A000510	A000510W	10,0	10	89	47	35	40
A000510,2	A000510,2W	10,2	12	102	55	40	45
A000510,5	A000510,5W	10,5	12	102	55	40	45
A000511	A000511W	11,0	12	102	55	40	45
A000511,5	A000511,5W	11,5	12	102	55	40	45
A000512	A000512W	12	12	102	55	40	45
A000512,5	A000512,5W	12,5	14	107	60	43	45
A000513	A000513W	13,0	14	107	60	43	45
A000513,5	A000513,5W	13,5	14	107	60	43	45
A000514	A000514W	14,0	14	107	60	43	45

3XD REINFORCED SHANK DRILLS WITH HOLES

KERFOLG

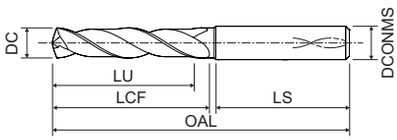
NEW

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 3xD	6537K	λ=30°	140°		DIN 6535 HB / DIN 6535 HA	DEVIL

COOLANT







Solid carbide twist drills for general use.

P1	P2	P3	P4	P5	P7	P8	M1	M2	K1	K2	K3
●	●	●	●	●	●	●	○	○	●	●	●

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A000403	A000403W	3	6	62	20	14	36
A000403,1	A000403,1W	3,1	6	62	20	14	36
A000403,2	A000403,2W	3,2	6	62	20	14	36
A000403,3	A000403,3W	3,3	6	62	20	14	36
A000403,4	A000403,4W	3,4	6	62	20	14	36
A000403,5	A000403,5W	3,5	6	62	20	14	36
A000403,6	A000403,6W	3,6	6	62	20	14	36
A000403,7	A000403,7W	3,7	6	62	20	14	36
A000403,8	A000403,8W	3,8	6	66	24	17	36
A000403,9	A000403,9W	3,9	6	66	24	17	36
A000404	A000404W	4	6	66	24	17	36
A000404,1	A000404,1W	4,1	6	66	24	17	36
A000404,2	A000404,2W	4,2	6	66	24	17	36
A000404,3	A000404,3W	4,3	6	66	24	17	36
A000404,4	A000404,4W	4,4	6	66	24	17	36
A000404,5	A000404,5W	4,5	6	66	24	17	36
A000404,6	A000404,6W	4,6	6	66	24	17	36
A000404,7	A000404,7W	4,7	6	66	24	17	36
A000404,8	A000404,8W	4,8	6	66	28	20	36
A000404,9	A000404,9W	4,9	6	66	28	20	36
A000405	A000405W	5	6	66	28	20	36
A000405,1	A000405,1W	5,1	6	66	28	20	36
A000405,2	A000405,2W	5,2	6	66	28	20	36
A000405,3	A000405,3W	5,3	6	66	28	20	36
A000405,4	A000405,4W	5,4	6	66	28	20	36
A000405,5	A000405,5W	5,5	6	66	28	20	36
A000405,6	A000405,6W	5,6	6	66	28	20	36
A000405,7	A000405,7W	5,7	6	66	28	20	36
A000405,8	A000405,8W	5,8	6	66	28	20	36
A000405,9	A000405,9W	5,9	6	66	28	20	36
A000406	A000406W	6	6	66	28	20	36
A000406,1	A000406,1W	6,1	8	79	34	24	36
A000406,2	A000406,2W	6,2	8	79	34	24	36
A000406,3	A000406,3W	6,3	8	79	34	24	36
A000406,4	A000406,4W	6,4	8	79	34	24	36
A000406,5	A000406,5W	6,5	8	79	34	24	36
A000406,6	A000406,6W	6,6	8	79	34	24	36
A000406,7	A000406,7W	6,7	8	79	34	24	36
A000406,8	A000406,8W	6,8	8	79	34	24	36
A000406,9	A000406,9W	6,9	8	79	34	24	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A000407	A000407W	7	8	79	34	24	36
A000407,1	A000407,1W	7,1	8	79	41	29	36
A000407,2	A000407,2W	7,2	8	79	41	29	36
A000407,3	A000407,3W	7,3	8	79	41	29	36
A000407,4	A000407,4W	7,4	8	79	41	29	36
A000407,5	A000407,5W	7,5	8	79	41	29	36
A000407,6	A000407,6W	7,6	8	79	41	29	36
A000407,7	A000407,7W	7,7	8	79	41	29	36
A000407,8	A000407,8W	7,8	8	79	41	29	36
A000407,9	A000407,9W	7,9	8	79	41	29	36
A000408	A000408W	8	8	79	41	29	36
A000408,1	A000408,1W	8,1	10	89	47	35	40
A000408,2	A000408,2W	8,2	10	89	47	35	40
A000408,3	A000408,3W	8,3	10	89	47	35	40
A000408,4	A000408,4W	8,4	10	89	47	35	40
A000408,5	A000408,5W	8,5	10	89	47	35	40
A000408,6	A000408,6W	8,6	10	89	47	35	40
A000408,7	A000408,7W	8,7	10	89	47	35	40
A000408,8	A000408,8W	8,8	10	89	47	35	40
A000408,9	A000408,9W	8,9	10	89	47	35	40
A000409	A000409W	9	10	89	47	35	40
A000409,1	A000409,1W	9,1	10	89	47	35	40
A000409,2	A000409,2W	9,2	10	89	47	35	40
A000409,3	A000409,3W	9,3	10	89	47	35	40
A000409,4	A000409,4W	9,4	10	89	47	35	40
A000409,5	A000409,5W	9,5	10	89	47	35	40
A000409,6	A000409,6W	9,6	10	89	47	35	40
A000409,7	A000409,7W	9,7	10	89	47	35	40
A000409,8	A000409,8W	9,8	10	89	47	35	40
A000409,9	A000409,9W	9,9	10	89	47	35	40
A000410	A000410W	10	10	89	47	35	40
A000410,2	A000410,2W	10,2	12	102	55	40	45
A000410,5	A000410,5W	10,5	12	102	55	40	45
A000411	A000411W	11	12	102	55	40	45
A000411,5	A000411,5W	11,5	12	102	55	40	45
A000412	A000412W	12	12	102	55	40	45
A000412,5	A000412,5W	12,5	14	107	60	43	45
A000413	A000413W	13	14	107	60	43	45
A000413,5	A000413,5W	13,5	14	107	60	43	45
A000414	A000414W	14	14	107	60	43	45



REINFORCED SHANK DRILL BITS 5XD

KERFOLG

NEW

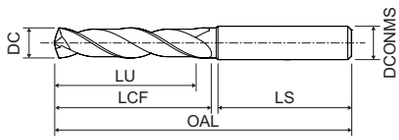
TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 5xD	6537L	λ=30°	140°		DIN 6535 HB DIN 6535 HA	DEVIL

Solid carbide twist drills for general use.

P1	P2	P3	P4	P5	P7	P8	K1	K2	K3
●	●	●	●	●	●	●	●	●	●







Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A000603	A000603W	3	6	66	28	23	36
A000603,1	A000603,1W	3,1	6	66	28	23	36
A000603,2	A000603,2W	3,2	6	66	28	23	36
A000603,3	A000603,3W	3,3	6	66	28	23	36
A000603,4	A000603,4W	3,4	6	66	28	23	36
A000603,5	A000603,5W	3,5	6	66	28	23	36
A000603,6	A000603,6W	3,6	6	66	28	23	36
A000603,7	A000603,7W	3,7	6	66	28	23	36
A000603,8	A000603,8W	3,8	6	74	36	29	36
A000603,9	A000603,9W	3,9	6	74	36	29	36
A000604	A000604W	4	6	74	36	29	36
A000604,1	A000604,1W	4,1	6	74	36	29	36
A000604,2	A000604,2W	4,2	6	74	36	29	36
A000604,3	A000604,3W	4,3	6	74	36	29	36
A000604,4	A000604,4W	4,4	6	74	36	29	36
A000604,5	A000604,5W	4,5	6	74	36	29	36
A000604,6	A000604,6W	4,6	6	74	36	29	36
A000604,7	A000604,7W	4,7	6	74	36	29	36
A000604,8	A000604,8W	4,8	6	82	44	35	36
A000604,9	A000604,9W	4,9	6	82	44	35	36
A000605	A000605W	5	6	82	44	35	36
A000605,1	A000605,1W	5,1	6	82	44	35	36
A000605,2	A000605,2W	5,2	6	82	44	35	36
A000605,3	A000605,3W	5,3	6	82	44	35	36
A000605,4	A000605,4W	5,4	6	82	44	35	36
A000605,5	A000605,5W	5,5	6	82	44	35	36
A000605,6	A000605,6W	5,6	6	82	44	35	36
A000605,7	A000605,7W	5,7	6	82	44	35	36
A000605,8	A000605,8W	5,8	6	82	44	35	36
A000605,9	A000605,9W	5,9	6	82	44	35	36
A000606	A000606W	6	6	82	44	35	36
A000606,1	A000606,1W	6,1	8	91	53	43	36
A000606,2	A000606,2W	6,2	8	91	53	43	36
A000606,3	A000606,3W	6,3	8	91	53	43	36
A000606,4	A000606,4W	6,4	8	91	53	43	36
A000606,5	A000606,5W	6,5	8	91	53	43	36
A000606,6	A000606,6W	6,6	8	91	53	43	36
A000606,7	A000606,7W	6,7	8	91	53	43	36
A000606,8	A000606,8W	6,8	8	91	53	43	36
A000606,9	A000606,9W	6,9	8	91	53	43	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A000607	A000607W	7	8	91	53	43	36
A000607,1	A000607,1W	7,1	8	91	53	43	36
A000607,2	A000607,2W	7,2	8	91	53	43	36
A000607,3	A000607,3W	7,3	8	91	53	43	36
A000607,4	A000607,4W	7,4	8	91	53	43	36
A000607,5	A000607,5W	7,5	8	91	53	43	36
A000607,6	A000607,6W	7,6	8	91	53	43	36
A000607,7	A000607,7W	7,7	8	91	53	43	36
A000607,8	A000607,8W	7,8	8	91	53	43	36
A000607,9	A000607,9W	7,9	8	91	53	43	36
A000608	A000608W	8	8	91	53	43	36
A000608,1	A000608,1W	8,1	10	103	61	49	40
A000608,2	A000608,2W	8,2	10	103	61	49	40
A000608,3	A000608,3W	8,3	10	103	61	49	40
A000608,4	A000608,4W	8,4	10	103	61	49	40
A000608,5	A000608,5W	8,5	10	103	61	49	40
A000608,6	A000608,6W	8,6	10	103	61	49	40
A000608,7	A000608,7W	8,7	10	103	61	49	40
A000608,8	A000608,8W	8,8	10	103	61	49	40
A000608,9	A000608,9W	8,9	10	103	61	49	40
A000609	A000609W	9	10	103	61	49	40
A000609,1	A000609,1W	9,1	10	103	61	49	40
A000609,2	A000609,2W	9,2	10	103	61	49	40
A000609,3	A000609,3W	9,3	10	103	61	49	40
A000609,4	A000609,4W	9,4	10	103	61	49	40
A000609,5	A000609,5W	9,5	10	103	61	49	40
A000609,6	A000609,6W	9,6	10	103	61	49	40
A000609,7	A000609,7W	9,7	10	103	61	49	40
A000609,8	A000609,8W	9,8	10	103	61	49	40
A000609,9	A000609,9W	9,9	10	103	61	49	40
A000610	A000610W	10	10	103	61	49	40
A000610,2	A000610,2W	10,2	12	118	71	56	45
A000610,5	A000610,5W	10,5	12	118	71	56	45
A000611	A000611W	11	12	118	71	56	45
A000611,5	A000611,5W	11,5	12	118	71	56	45
A000612	A000612W	12	12	118	71	56	45
A000612,5	A000612,5W	12,5	14	124	77	60	45
A000613	A000613W	13	14	124	77	60	45
A000613,5	A000613,5W	13,5	14	124	77	60	45
A000614	A000614W	14	14	124	77	60	45

REINFORCED 5XD SHANK DRILLS WITH HOLES

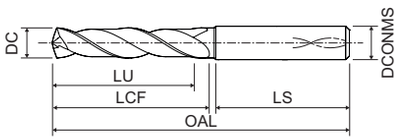
KERFOLG

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 5xD	6537L	λ=30°	140°		DIN 6535 HB / DIN 6535 HA	DEVIL

COOLANT







Solid carbide twist drills for general use.

P1	P2	P3	P4	P5	P7	P8	M1	M2	K1	K2	K3
●	●	●	●	●	●	●	○	○	●	●	●

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A000703	A000703W	3,0	6	66	28	23	36
A000703,1	A000703,1W	3,1	6	66	28	23	36
A000703,2	A000703,2W	3,2	6	66	28	23	36
A000703,3	A000703,3W	3,3	6	66	28	23	36
A000703,4	A000703,4W	3,4	6	66	28	23	36
A000703,5	A000703,5W	3,5	6	66	28	23	36
A000703,6	A000703,6W	3,6	6	66	28	23	36
A000703,7	A000703,7W	3,7	6	66	28	23	36
A000703,8	A000703,8W	3,8	6	74	36	29	36
A000703,9	A000703,9W	3,9	6	74	36	29	36
A000704	A000704W	4,0	6	74	36	29	36
A000704,1	A000704,1W	4,1	6	74	36	29	36
A000704,2	A000704,2W	4,2	6	74	36	29	36
A000704,3	A000704,3W	4,3	6	74	36	29	36
A000704,4	A000704,4W	4,4	6	74	36	29	36
A000704,5	A000704,5W	4,5	6	74	36	29	36
A000704,6	A000704,6W	4,6	6	74	36	29	36
A000704,7	A000704,7W	4,7	6	74	36	29	36
A000704,8	A000704,8W	4,8	6	82	44	35	36
A000704,9	A000704,9W	4,9	6	82	44	35	36
A000705	A000705W	5,0	6	82	44	35	36
A000705,1	A000705,1W	5,1	6	82	44	35	36
A000705,2	A000705,2W	5,2	6	82	44	35	36
A000705,3	A000705,3W	5,3	6	82	44	35	36
A000705,4	A000705,4W	5,4	6	82	44	35	36
A000705,5	A000705,5W	5,5	6	82	44	35	36
A000705,6	A000705,6W	5,6	6	82	44	35	36
A000705,7	A000705,7W	5,7	6	82	44	35	36
A000705,8	A000705,8W	5,8	6	82	44	35	36
A000705,9	A000705,9W	5,9	6	82	44	35	36
A000706	A000706W	6,0	6	82	44	35	36
A000706,1	A000706,1W	6,1	8	91	53	43	36
A000706,2	A000706,2W	6,2	8	91	53	43	36
A000706,3	A000706,3W	6,3	8	91	53	43	36
A000706,4	A000706,4W	6,4	8	91	53	43	36
A000706,5	A000706,5W	6,5	8	91	53	43	36
A000706,6	A000706,6W	6,6	8	91	53	43	36
A000706,7	A000706,7W	6,7	8	91	53	43	36
A000706,8	A000706,8W	6,8	8	91	53	43	36
A000706,9	A000706,9W	6,9	8	91	53	43	36
A000707	A000707W	7,0	8	91	53	43	36
A000707,1	A000707,1W	7,1	8	91	53	43	36
A000707,2	A000707,2W	7,2	8	91	53	43	36
A000707,3	A000707,3W	7,3	8	91	53	43	36
A000707,4	A000707,4W	7,4	8	91	53	43	36
A000707,5	A000707,5W	7,5	8	91	53	43	36
A000707,6	A000707,6W	7,6	8	91	53	43	36
A000707,7	A000707,7W	7,7	8	91	53	43	36
A000707,8	A000707,8W	7,8	8	91	53	43	36
A000707,9	A000707,9W	7,9	8	91	53	43	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A000708	A000708W	8,0	8	91	53	43	36
A000708,1	A000708,1W	8,1	10	103	61	49	40
A000708,2	A000708,2W	8,2	10	103	61	49	40
A000708,3	A000708,3W	8,3	10	103	61	49	40
A000708,4	A000708,4W	8,4	10	103	61	49	40
A000708,5	A000708,5W	8,5	10	103	61	49	40
A000708,6	A000708,6W	8,6	10	103	61	49	40
A000708,7	A000708,7W	8,7	10	103	61	49	40
A000708,8	A000708,8W	8,8	10	103	61	49	40
A000708,9	A000708,9W	8,9	10	103	61	49	40
A000709	A000709W	9,0	10	103	61	49	40
A000709,1	A000709,1W	9,1	10	103	61	49	40
A000709,2	A000709,2W	9,2	10	103	61	49	40
A000709,3	A000709,3W	9,3	10	103	61	49	40
A000709,4	A000709,4W	9,4	10	103	61	49	40
A000709,5	A000709,5W	9,5	10	103	61	49	40
A000709,6	A000709,6W	9,6	10	103	61	49	40
A000709,7	A000709,7W	9,7	10	103	61	49	40
A000709,8	A000709,8W	9,8	10	103	61	49	40
A000709,9	A000709,9W	9,9	10	103	61	49	40
A000710	A000710W	10,0	10	103	61	49	40
A000710,1	A000710,1W	10,1	12	118	71	56	45
A000710,2	A000710,2W	10,2	12	118	71	56	45
A000710,3	A000710,3W	10,3	12	118	71	56	45
A000710,4	A000710,4W	10,4	12	118	71	56	45
A000710,5	A000710,5W	10,5	12	118	71	56	45
A000710,6	A000710,6W	10,6	12	118	71	56	45
A000710,7	A000710,7W	10,7	12	118	71	56	45
A000710,8	A000710,8W	10,8	12	118	71	56	45
A000710,9	A000710,9W	10,9	12	118	71	56	45
A000711	A000711W	11,0	12	118	71	56	45
A000711,1	A000711,1W	11,1	12	118	71	56	45
A000711,2	A000711,2W	11,2	12	118	71	56	45
A000711,3	A000711,3W	11,3	12	118	71	56	45
A000711,4	A000711,4W	11,4	12	118	71	56	45
A000711,5	A000711,5W	11,5	12	118	71	56	45
A000711,6	A000711,6W	11,6	12	118	71	56	45
A000711,7	A000711,7W	11,7	12	118	71	56	45
A000711,8	A000711,8W	11,8	12	118	71	56	45
A000711,9	A000711,9W	11,9	12	118	71	56	45
A000712	A000712W	12	12	118	71	56	45
A000712,1	A000712,1W	12,1	14	124	77	60	45
A000712,2	A000712,2W	12,2	14	124	77	60	45
A000712,5	A000712,5W	12,5	14	124	77	60	45
A000713	A000713W	13,0	14	124	77	60	45
A000713,5	A000713,5W	13,5	14	124	77	60	45
A000714	A000714W	14	14	124	77	60	45
A000714,5	A000714,5W	14,5	16	133	83	63	48
A000715	A000715W	15	16	133	83	63	48
A000716	A000716W	16	16	133	83	63	48

8XD REINFORCED SHANK DRILLS WITH HOLES

KERFOLG

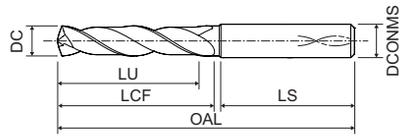
NEW

TOOL TYPE	MATERIAL	HOLE DEPTH	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	≤ 8xD	6537L	λ=30°	140°		DIN 6535 HB DIN 6535 HA	DEVIL

COOLANT







Solid carbide twist drills for general use.

P1	P2	P3	P4	P5	P7	P8	M1	M2	K1	K2	K3
●	●	●	●	●	●	●	○	○	●	●	●

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A000803	A000803W	3	6	72	34	29	36
A000803,1	A000803,1W	3.1	6	72	34	29	36
A000803,2	A000803,2W	3.2	6	72	34	29	36
A000803,3	A000803,3W	3.3	6	72	34	29	36
A000803,4	A000803,4W	3.4	6	72	34	29	36
A000803,5	A000803,5W	3.5	6	72	34	29	36
A000803,6	A000803,6W	3.6	6	72	34	29	36
A000803,7	A000803,7W	3.7	6	72	34	29	36
A000803,8	A000803,8W	3.8	6	81	43	36	36
A000803,9	A000803,9W	3.9	6	81	43	36	36
A000804	A000804W	4	6	81	43	36	36
A000804,1	A000804,1W	4.1	6	81	43	36	36
A000804,2	A000804,2W	4.2	6	81	43	36	36
A000804,3	A000804,3W	4.3	6	81	43	36	36
A000804,4	A000804,4W	4.4	6	81	43	36	36
A000804,5	A000804,5W	4.5	6	81	43	36	36
A000804,6	A000804,6W	4.6	6	81	43	36	36
A000804,7	A000804,7W	4.7	6	81	43	36	36
A000804,8	A000804,8W	4.8	6	95	57	48	36
A000804,9	A000804,9W	4.9	6	95	57	48	36
A000805	A000805W	5	6	95	57	48	36
A000805,1	A000805,1W	5.1	6	95	57	48	36
A000805,2	A000805,2W	5.2	6	95	57	48	36
A000805,3	A000805,3W	5.3	6	95	57	48	36
A000805,4	A000805,4W	5.4	6	95	57	48	36
A000805,5	A000805,5W	5.5	6	95	57	48	36
A000805,6	A000805,6W	5.6	6	95	57	48	36
A000805,7	A000805,7W	5.7	6	95	57	48	36
A000805,8	A000805,8W	5.8	6	95	57	48	36
A000805,9	A000805,9W	5.9	6	95	57	48	36
A000806	A000806W	6	6	95	57	48	36
A000806,1	A000806,1W	6.1	8	114	76	64	36
A000806,2	A000806,2W	6.2	8	114	76	64	36
A000806,3	A000806,3W	6.3	8	114	76	64	36
A000806,4	A000806,4W	6.4	8	114	76	64	36
A000806,5	A000806,5W	6.5	8	114	76	64	36
A000806,6	A000806,6W	6.6	8	114	76	64	36
A000806,7	A000806,7W	6.7	8	114	76	64	36
A000806,8	A000806,8W	6.8	8	114	76	64	36
A000806,9	A000806,9W	6.9	8	114	76	64	36

Cylindrical	Weldon	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm	LU mm	LS mm
A000807	A000807W	7	8	114	76	64	36
A000807,1	A000807,1W	7.1	8	114	76	64	36
A000807,2	A000807,2W	7.2	8	114	76	64	36
A000807,3	A000807,3W	7.3	8	114	76	64	36
A000807,4	A000807,4W	7.4	8	114	76	64	36
A000807,5	A000807,5W	7.5	8	114	76	64	36
A000807,6	A000807,6W	7.6	8	114	76	64	36
A000807,7	A000807,7W	7.7	8	114	76	64	36
A000807,8	A000807,8W	7.8	8	114	76	64	36
A000807,9	A000807,9W	7.9	8	114	76	64	36
A000808	A000808W	8	8	114	76	64	36
A000808,1	A000808,1W	8.1	10	142	95	80	40
A000808,2	A000808,2W	8.2	10	142	95	80	40
A000808,3	A000808,3W	8.3	10	142	95	80	40
A000808,4	A000808,4W	8.4	10	142	95	80	40
A000808,5	A000808,5W	8.5	10	142	95	80	40
A000808,6	A000808,6W	8.6	10	142	95	80	40
A000808,7	A000808,7W	8.7	10	142	95	80	40
A000808,8	A000808,8W	8.8	10	142	95	80	40
A000808,9	A000808,9W	8.9	10	142	95	80	40
A000809	A000809W	9	10	142	95	80	40
A000809,1	A000809,1W	9.1	10	142	95	80	40
A000809,2	A000809,2W	9.2	10	142	95	80	40
A000809,3	A000809,3W	9.3	10	142	95	80	40
A000809,4	A000809,4W	9.4	10	142	95	80	40
A000809,5	A000809,5W	9.5	10	142	95	80	40
A000809,6	A000809,6W	9.6	10	142	95	80	40
A000809,7	A000809,7W	9.7	10	142	95	80	40
A000809,8	A000809,8W	9.8	10	142	95	80	40
A000809,9	A000809,9W	9.9	10	142	95	80	40
A000810	A000810W	10	10	142	95	80	40
A000810,2	A000810,2W	10.2	12	162	114	96	45
A000810,5	A000810,5W	10.5	12	162	114	96	45
A000811	A000811W	11	12	162	114	96	45
A000811,5	A000811,5W	11.5	12	162	114	96	45
A000812	A000812W	12	12	162	114	96	45
A000812,5	A000812,5W	12.5	14	182	133	112	45
A000813	A000813W	13	14	182	133	112	45
A000813,5	A000813,5W	13.5	14	182	133	112	45
A000814	A000814W	14	14	182	133	112	45

SOLID CARBIDE STUB DRILLS

KERFOLG

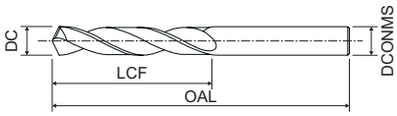
TOOL TYPE	MATERIAL	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	6539	λ=30°	118°		Factory Standard	BRIGHT

Uncoated solid carbide twist drills.

P1	P2	P3	K1	K2	N2	N3	N4	N7	N8
●	●	●	●	○	●	●	●	○	○







Tech. Code	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm
A108001	1	1	26	7
A108001,1	1,1	1,1	28	8
A108001,2	1,2	1,2	30	9
A108001,3	1,3	1,3	30	9
A108001,4	1,4	1,4	32	10
A108001,5	1,5	1,5	32	10
A108001,6	1,6	1,6	34	11
A108001,7	1,7	1,7	34	11
A108001,8	1,8	1,8	36	12
A108001,9	1,9	1,9	36	12
A108002	2	2	38	13
A108002,1	2,1	2,1	38	13
A108002,2	2,2	2,2	40	14
A108002,3	2,3	2,3	40	14
A108002,4	2,4	2,4	43	15
A108002,5	2,5	2,5	43	15
A108002,6	2,6	2,6	43	15
A108002,7	2,7	2,7	46	17
A108002,8	2,8	2,8	46	17
A108002,9	2,9	2,9	46	17
A108003	3	3	46	17
A108003,1	3,1	3,1	49	19
A108003,2	3,2	3,2	49	19
A108003,3	3,3	3,3	49	19
A108003,4	3,4	3,4	52	21
A108003,5	3,5	3,5	52	21

Tech. Code	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm
A108003,6	3,6	3,6	52	21
A108003,7	3,7	3,7	52	21
A108003,8	3,8	3,8	55	23
A108003,9	3,9	3,9	55	23
A108004	4	4	55	23
A108004,1	4,1	4,1	55	23
A108004,2	4,2	4,2	55	23
A108004,3	4,3	4,3	58	25
A108004,4	4,4	4,4	58	25
A108004,5	4,5	4,5	58	25
A108004,6	4,6	4,6	58	25
A108004,7	4,7	4,7	58	25
A108004,8	4,8	4,8	62	27
A108004,9	4,9	4,9	62	27
A108005	5	5	62	27
A108005,1	5,1	5,1	62	27
A108005,2	5,2	5,2	62	27
A108005,3	5,3	5,3	62	27
A108005,5	5,5	5,5	66	29
A108005,7	5,7	5,7	66	29
A108005,8	5,8	5,8	66	29
A108006	6	6	66	29
A108006,1	6,1	6,1	70	32
A108006,2	6,2	6,2	70	32
A108006,5	6,5	6,5	70	32
A108006,6	6,6	6,6	70	32

Tech. Code	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm
A108006,7	6,7	6,7	70	32
A108006,8	6,8	6,8	74	35
A108006,9	6,9	6,9	74	35
A108007	7	7	74	35
A108007,1	7,1	7,1	74	35
A108007,3	7,3	7,3	74	35
A108007,5	7,5	7,5	74	35
A108007,7	7,7	7,7	79	38
A108008	8	8	79	38
A108008,2	8,2	8,2	79	38
A108008,4	8,4	8,4	79	38
A108008,5	8,5	8,5	79	38
A108009	9	9	84	41
A108009,5	9,5	9,5	84	41
A108009,8	9,8	9,8	89	44
A108010	10	10	89	44
A108010,2	10,2	10,2	89	44
A108010,5	10,5	10,5	89	44
A108011	11	11	95	48
A108011,5	11,5	11,5	95	48
A108012	12	12	102	52
A108012,5	12,5	12,5	102	52
A108013	13	13	102	52
A108014	14	14	107	54

SOLID CARBIDE DRILLS

KERFOLG

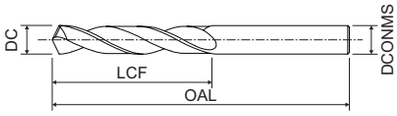
TOOL TYPE	MATERIAL	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
N	HM	338	λ=30°	118°		Factory Standard	BRIGHT

Uncoated solid carbide twist drills.

P1	P2	P3	K1	K2	N2	N3	N4	N7	N8
●	●	●	●	○	●	●	●	○	○







Tech. Code	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm
A123001	1	1	34	13
A123001,1	1,1	1,1	36	15
A123001,2	1,2	1,2	38	17
A123001,3	1,3	1,3	38	17
A123001,4	1,4	1,4	40	19
A123001,5	1,5	1,5	40	19
A123001,6	1,6	1,6	43	21
A123001,7	1,7	1,7	43	21
A123001,8	1,8	1,8	46	23
A123001,9	1,9	1,9	46	23
A123002	2	2	49	25
A123002,1	2,1	2,1	49	25
A123002,2	2,2	2,2	53	28
A123002,3	2,3	2,3	53	28
A123002,4	2,4	2,4	57	31
A123002,5	2,5	2,5	57	31
A123002,6	2,6	2,6	57	31
A123002,7	2,7	2,7	61	34
A123002,8	2,8	2,8	61	34
A123002,9	2,9	2,9	61	34
A123003	3	3	61	34
A123003,1	3,1	3,1	65	37
A123003,2	3,2	3,2	65	37
A123003,3	3,3	3,3	65	37
A123003,4	3,4	3,4	70	40

Tech. Code	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm
A123003,5	3,5	3,5	70	40
A123003,6	3,6	3,6	70	40
A123003,7	3,7	3,7	70	40
A123003,8	3,8	3,8	75	44
A123003,9	3,9	3,9	75	44
A123004	4	4	75	44
A123004,1	4,1	4,1	75	44
A123004,2	4,2	4,2	75	44
A123004,3	4,3	4,3	80	48
A123004,4	4,4	4,4	80	48
A123004,5	4,5	4,5	80	48
A123004,6	4,6	4,6	80	48
A123004,7	4,7	4,7	80	53
A123004,8	4,8	4,8	86	53
A123004,9	4,9	4,9	86	53
A123005	5	5	86	53
A123005,1	5,1	5,1	86	53
A123005,2	5,2	5,2	86	53
A123005,3	5,3	5,3	86	53
A123005,4	5,4	5,4	93	58
A123005,5	5,5	5,5	93	58
A123005,6	5,6	5,6	93	58
A123005,7	5,7	5,7	93	58
A123005,8	5,8	5,8	93	58
A123005,9	5,9	5,9	93	58

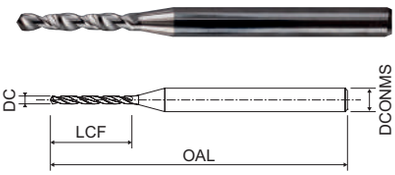
Tech. Code	DC m7 mm	DCONMS h6 mm	OAL mm	LCF mm
A123006	6	6	93	58
A123006,1	6,1	6,1	101	63
A123006,2	6,2	6,2	101	63
A123006,3	6,3	6,3	101	63
A123006,4	6,4	6,4	101	63
A123006,5	6,5	6,5	101	64
A123006,8	6,8	6,8	101	70
A123007	7	7	109	70
A123007,5	7,5	7,5	109	70
A123008	8	8	117	76
A123008,5	8,5	8,5	117	76
A123009	9	9	125	82
A123009,5	9,5	9,5	125	82
A123010	10	10	133	88
A123010,2	10,2	10,2	133	88
A123010,5	10,5	10,5	133	88
A123011	11	11	142	95
A123011,5	11,5	11,5	142	95
A123012	12	12	151	102
A123012,5	12,5	12,5	151	102
A123013	13	13	151	102
A123013,5	13,5	13,5	160	109
A123014	14	14	160	109

MICRO DRILLS REINFORCED SHANK

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX ANGLE	POINT ANGLE	NOF	SHANK	COATING
VA	HM	NDF	λ=35°	118°		DIN 1899 A HA	BRIGHT

Solid carbide micro twist drill.
Standard shank Ø 3mm h6 tolerance for use in shrink fit clamping.





P1	P2	P3	P4	P5	P7	P8	M1	M2	N2	N3	N8
●	●	●	●	●	●	●	○	○	●	●	●

Tech. Code	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A000300,2	0,2	3	38	4
A000300,3	0,3	3	38	4
A000300,4	0,4	3	38	4
A000300,5	0,5	3	38	4
A000300,6	0,6	3	38	6
A000300,7	0,7	3	38	6
A000300,8	0,8	3	38	8
A000300,85	0,85	3	38	8
A000300,9	0,9	3	38	8

Tech. Code	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A000301	1	3	38	8
A000301,05	1,05	3	38	8
A000301,1	1,1	3	38	8
A000301,15	1,15	3	38	8
A000301,2	1,2	3	38	8
A000301,25	1,25	3	38	10
A000301,3	1,3	3	38	10
A000301,4	1,4	3	38	10
A000301,45	1,45	3	38	10

Tech. Code	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A000301,5	1,5	3	38	10
A000301,6	1,6	3	38	10
A000301,7	1,7	3	38	12
A000301,8	1,8	3	38	12
A000301,9	1,9	3	38	12
A000302	2	3	38	12
A000302,1	2,1	3	38	12
A000302,2	2,2	3	38	12

CENTRE SPOTTING DRILLS 90° FOR NC

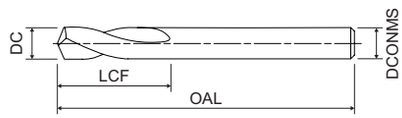
KERFOLG

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	SHANK	COATING
N	HM	NDF	90°		DIN 6535 HB DIN 6535 HA	BRIGHT

Center drills CNC 90°.







P1	P2	P3	P4	P5	P6	M1	M2	K1	K2
●	●	●	●	●	●	○	○	●	●

Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A167003	-	3	3	40	12
A167004	-	4	4	40	12
A167005	-	5	5	50	16
A167006	A167006W	6	6	50	16
A167008	A167008W	8	8	60	20

Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A167010	A167010W	10	10	70	22
A167012	A167012W	12	12	70	22
A167016	A167016W	16	16	80	28
A167020	A167020W	20	20	100	30

CENTRE SPOTTING DRILLS 90° FOR NC

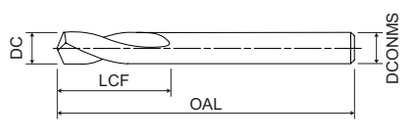
KERFOLG

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	SHANK	COATING
N	HM	NDF	90°		DIN 6535 HB DIN 6535 HA	DEVIL

Center drills CNC 90°.







P1	P2	P3	P4	P5	P6	M1	M2	K1	K2
●	●	●	●	●	●	○	○	●	●

Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A167503	-	3	3	40	12
A167504	-	4	4	40	12
A167505	-	5	5	50	16
A167506	A167506W	6	6	50	16
A167508	A167508W	8	8	60	20

Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A167510	A167510W	10	10	70	22
A167512	A167512W	12	12	70	22
A167516	A167516W	16	16	80	28
A167520	A167520W	20	20	100	30

CENTRE SPOTTING DRILLS 120° FOR NC

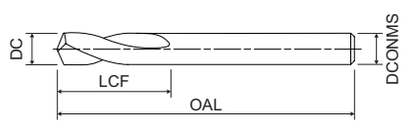
KERFOLG

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	SHANK	COATING
N	HM	NDF	120°		DIN 6535 HB DIN 6535 HA	BRIGHT

Center drills CNC 120°.







P1	P2	P3	P4	P5	P6	M1	M2	K1	K2
●	●	●	●	●	●	○	○	●	●

Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A168006	A168006W	6	6	50	21
A168008	A168008W	8	8	60	25

Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A168010	A168010W	10	10	70	27
A168012	A168012W	12	12	70	27

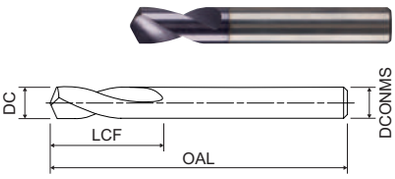
120° COATED CENTRE DRILL BITS FOR NC

KERFOLG

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	SHANK	COATING
N	HM	NDF	120°		DIN 6535 HB DIN 6535 HA	DEVIL

P1	P2	P3	P4	P5	P6	M1	M2	K1	K2
●	●	●	●	●	●	○	○	●	●





Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A168506	A168506W	6	6	50	21
A168508	A168508W	8	8	60	25

Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A168510	A168510W	10	10	70	27
A168512	A168512W	12	12	70	27

CENTRE SPOTTING DRILLS 142° FOR NC

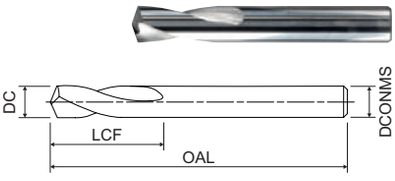
KERFOLG

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	SHANK	COATING
N	HM	NDF	142°		DIN 6535 HB DIN 6535 HA	BRIGHT

Center drills CNC 142°.

P1	P2	P3	P4	P5	P6	M1	M2	K1	K2
●	●	●	●	●	●	○	○	●	●





Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A169003	-	3	3	40	12
A169004	-	4	4	40	12
A169005	-	5	5	50	16
A169006	A169006W	6	6	50	21
A169008	A169008W	8	8	60	25

Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A169010	A169010W	10	10	70	27
A169012	A169012W	12	12	70	27
A169016	A169016W	16	16	75	30
A169020	A169020W	20	20	100	33

CENTRE SPOTTING DRILLS 142° FOR NC

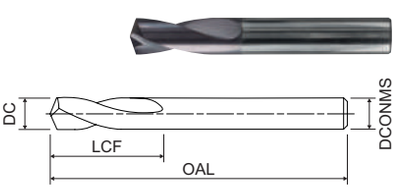
KERFOLG

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	SHANK	COATING
N	HM	NDF	142°		DIN 6535 HB DIN 6535 HA	DEVIL

Center drills CNC 142°.

P1	P2	P3	P4	P5	P6	M1	M2	K1	K2
●	●	●	●	●	●	○	○	●	●





Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A169503	-	3	3	40	12
A169504	-	4	4	40	12
A169505	-	5	5	50	16
A169506	A169506W	6	6	50	21
A169508	A169508W	8	8	60	25

Cylindrical	Weldon	DC h6 mm	DCONMS h6 mm	OAL mm	LCF mm
A169510	A169510W	10	10	70	27
A169512	A169512W	12	12	70	27
A169516	A169516W	16	16	75	30
A169520	A169520W	20	20	100	33

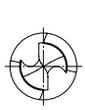
SUBLAND TWIST DRILLS 90° - SHORT SERIES

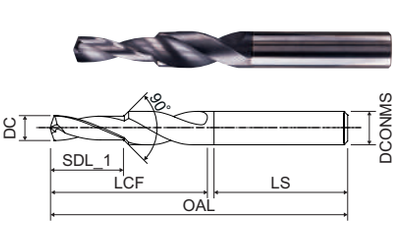
KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HM	NDF	N/R	140°		DIN 6535 HB DIN 6535 HA	DURABLE

Solid carbide 90° step drills for pre-hole threading.

P1	P2	P3	P4	P5	P6	M1	M2	K1	K2
●	●	●	●	●	●	○	○	●	●





Cylindrical	Weldon	For thread	DC h8 mm	DCONMS mm	OAL mm	LCF mm	SDL_1 mm	LS mm
A1780M3	A1780M3W	M3	2,5	6	62	20	8.8	36
A1780M4	A1780M4W	M4	3,3	6	62	24	11.4	36
A1780M5	A1780M5W	M5	4,2	6	66	28	13.6	36
A1780M6	A1780M6W	M6	5,0	8	79	34	16.5	36
A1780M8	A1780M8W	M8	6,8	10	89	47	21	40

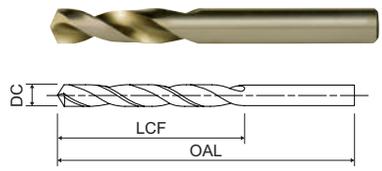
Cylindrical	Weldon	For thread	DC h8 mm	DCONMS mm	OAL mm	LCF mm	SDL_1 mm	LS mm
A1780M10	A1780M10W	M10	8,5	12	102	55	25.5	45
A1780M12	A1780M12W	M12	10,2	14	107	60	30	45
A1780M14	A1780M14W	M14	12,0	16	115	65	34.5	48
A1780M16	A1780M16W	M16	14,0	18	123	73	38.5	48

STUB DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	1897	N/R	130°		DIN 6535 HA	GOLD OXIDE

P1	P2	P3	P4	P5	M1	M2	K1	K2	N6	N7	N8
●	●	●	●	○	●	○	●	●	●	●	○



Tech. Code	DC mm	OAL mm	LCF mm
A10301,5	1,5	32	9
A10302	2	38	12
A10302,5	2,5	43	14
A10303	3	46	16
A10303,1	3,1	49	18
A10303,2	3,2	49	18
A10303,3	3,3	49	18
A10303,5	3,5	52	20
A10303,8	3,8	55	22
A10304	4	55	22
A10304,2	4,2	55	22
A10304,3	4,3	58	24

Tech. Code	DC mm	OAL mm	LCF mm
A10304,5	4,5	58	24
A10304,8	4,8	62	26
A10305	5	62	26
A10305,1	5,1	62	26
A10305,2	5,2	62	26
A10305,3	5,3	62	26
A10305,5	5,5	66	28
A10306	6	66	28
A10306,2	6,2	70	31
A10306,5	6,5	70	31
A10306,7	6,7	70	31
A10306,8	6,8	74	34

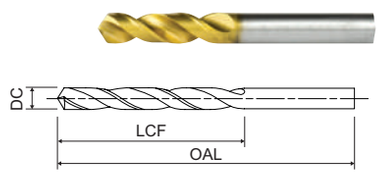
Tech. Code	DC mm	OAL mm	LCF mm
A10307	7	74	34
A10307,5	7,5	74	34
A10308	8	79	37
A10308,5	8,5	79	37
A10309	9	84	40
A10309,5	9,5	84	40
A103010	10	89	43
A103010,5	10,5	89	43
A103011	11	95	47
A103011,5	11,5	95	47
A103012	12	102	51
A103013	13	102	51

STUB DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	1897	F/R	118°		DIN 6535 HA	TiN

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N6	N7	N8	O1
●	●	●	●	○	○	●	●	●	●	○	●	●	●	●	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A10401	1	26	6
A10401,2	1,2	30	8
A10401,4	1,4	32	9
A10401,5	1,5	32	9
A10402	2	38	12
A10402,2	2,2	40	13
A10402,4	2,4	43	14
A10402,5	2,5	43	14
A10402,6	2,6	43	14
A10402,8	2,8	46	16
A10402,9	2,9	46	16
A10403	3	46	16
A10403,1	3,1	49	18
A10403,2	3,2	49	18
A10403,3	3,3	49	18
A10403,4	3,4	52	20
A10403,5	3,5	52	20
A10403,8	3,8	55	22
A10404	4	55	22
A10404,1	4,1	55	22
A10404,2	4,2	55	22

Tech. Code	DC mm	OAL mm	LCF mm
A10404,3	4,3	58	24
A10404,5	4,5	58	24
A10404,6	4,6	58	24
A10404,7	4,7	58	24
A10404,8	4,8	62	26
A10405	5	62	26
A10405,1	5,1	62	26
A10405,2	5,2	62	26
A10405,3	5,3	62	26
A10405,5	5,5	66	28
A10405,6	5,6	66	28
A10405,8	5,8	66	28
A10406	6	66	28
A10406,1	6,1	70	31
A10406,2	6,2	70	31
A10406,3	6,3	70	31
A10406,5	6,5	70	31
A10406,7	6,7	70	31
A10406,8	6,8	74	34
A10407	7	74	34
A10407,5	7,5	74	34

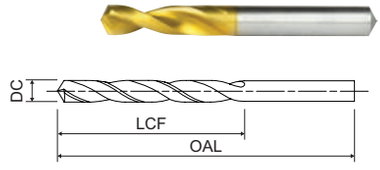
Tech. Code	DC mm	OAL mm	LCF mm
A10407,7	7,7	79	37
A10407,8	7,8	79	37
A10408	8	79	37
A10408,1	8,1	79	37
A10408,2	8,2	79	37
A10408,5	8,5	79	37
A10408,8	8,8	84	40
A10409	9	84	40
A10409,5	9,5	84	40
A10409,8	9,8	89	43
A104010	10	89	43
A104010,2	10,2	89	43
A104010,5	10,5	89	43
A104011	11	95	47
A104011,5	11,5	95	47
A104012	12	102	51
A104012,3	12,3	102	51
A104012,5	12,5	102	51
A104013	13	102	51
A104013,5	13,5	107	54
A104014	14	107	54

STUB DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	PM	1897	N/R	130°		DIN 6535 HA	TiN

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N6	N7	N8	O1
○	○	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A10501	1	26	6
A10501,5	1,5	32	9
A10502	2	38	12
A10502,5	2,5	43	14
A10503	3	46	16
A10503,5	3,5	52	20
A10504	4	55	22
A10504,2	4,2	55	22
A10504,5	4,5	58	24
A10505	5	62	26
A10505,5	5,5	66	28

Tech. Code	DC mm	OAL mm	LCF mm
A10506	6	66	28
A10506,5	6,5	70	31
A10506,8	6,8	74	34
A10507	7	74	34
A10507,5	7,5	74	34
A10508	8	79	37
A10508,2	8,2	79	37
A10508,5	8,5	79	37
A10508,8	8,8	84	40
A10509	9	84	40
A10509,5	9,5	84	40

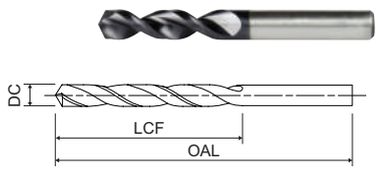
Tech. Code	DC mm	OAL mm	LCF mm
A10509,8	9,8	89	43
A105010	10	89	43
A105010,2	10,2	89	43
A105010,5	10,5	89	43
A105011	11	95	47
A105011,5	11,5	95	47
A105012	12	102	51
A105012,5	12,5	102	51
A105013	13	102	51
A105013,5	13,5	107	54
A105014	14	107	54

STUB DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	1897	S/R	130°		DIN 6535 HA	TiAlN

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2	N6	N7	N8
●	●	●	●	○	○	●	●	●	○	●	○	●	●	○



Tech. Code	DC mm	OAL mm	LCF mm
A10601	1	26	6
A10601,5	1,5	32	9
A10602	2	38	12
A10602,5	2,5	43	14
A10603	3	46	16
A10603,3	3,3	49	18
A10603,5	3,5	52	20
A10604	4	55	22
A10604,2	4,2	55	22
A10604,5	4,5	58	24
A10605	5	62	26
A10605,5	5,5	66	28

Tech. Code	DC mm	OAL mm	LCF mm
A10606	6	66	28
A10606,5	6,5	70	31
A10606,8	6,8	74	34
A10607	7	74	34
A10607,5	7,5	74	34
A10608	8	79	37
A10608,5	8,5	79	37
A10609	9	84	40
A10609,5	9,5	84	40
A106010	10	89	43
A106010,5	10,5	89	43
A106011	11	95	47

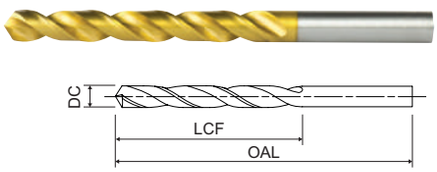
Tech. Code	DC mm	OAL mm	LCF mm
A106011,5	11,5	95	47
A106012	12	102	51
A106012,5	12,5	102	51
A106013	13	102	51
A106013,5	13,5	107	54
A106014	14	107	54
A106014,5	14,5	111	56
A106015	15	111	56
A106015,5	15,5	115	58
A106016	16	115	58

JOBBER DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	338	F/R	130°		DIN 6535 HA	TiN

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N6	N7	N8	O1
●	●	●	●	○	○	●	●	●	●	○	●	●	●	●	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A12001	1	34	12
A12001,2	1,2	38	16
A12001,4	1,4	40	18
A12001,5	1,5	40	18
A12002	2	49	24
A12002,2	2,2	53	27
A12002,4	2,4	53	27
A12002,5	2,5	57	30
A12002,6	2,6	57	30
A12002,8	2,8	61	33
A12002,9	2,9	61	33
A12003	3	61	33
A12003,1	3,1	65	36
A12003,2	3,2	65	36
A12003,3	3,3	65	36
A12003,4	3,4	70	39
A12003,5	3,5	70	39
A12003,8	3,8	75	43
A12004	4	75	43
A12004,1	4,1	75	43
A12004,2	4,2	75	43

Tech. Code	DC mm	OAL mm	LCF mm
A12004,3	4,3	80	47
A12004,5	4,5	80	47
A12004,6	4,6	80	47
A12004,8	4,8	86	52
A12005	5	86	52
A12005,1	5,1	86	52
A12005,2	5,2	86	52
A12005,3	5,3	86	52
A12005,5	5,5	93	57
A12005,6	5,6	93	57
A12005,8	5,8	93	57
A12006	6	93	57
A12006,2	6,2	101	63
A12006,3	6,3	101	63
A12006,5	6,5	101	63
A12006,7	6,7	101	63
A12006,8	6,8	109	69
A12006,9	6,9	109	69
A12007	7	109	69
A12007,5	7,5	109	69
A12007,7	7,7	117	75

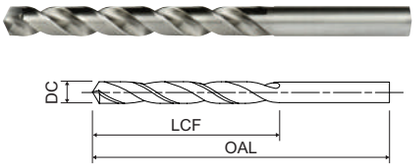
Tech. Code	DC mm	OAL mm	LCF mm
A12007,8	7,8	117	75
A12008	8	117	75
A12008,2	8,2	117	75
A12008,5	8,5	117	75
A12008,8	8,8	125	81
A12009	9	125	81
A12009,3	9,3	125	81
A12009,5	9,5	125	81
A12009,8	9,8	133	87
A120010	10	133	87
A120010,2	10,2	133	87
A120010,5	10,5	133	87
A120011	11	142	94
A120011,5	11,5	142	94
A120012	12	151	101
A120012,5	12,5	151	101
A120013	13	151	101
A120013,5	13,5	160	108
A120014	14	160	108

JOBBER DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
VA	HSSE	338	VA/R	135°		DIN 6535 HA	BRIGHT

P1	P2	M1	M2	M3	K1	K2	N2	N3	N4
●	●	●	●	○	●	○	●	●	○



Tech. Code	DC mm	OAL mm	LCF mm
A113501	1	34	12
A113501,25	1,25	38	16
A113501,5	1,5	40	18
A113502	2	49	24
A113502,25	2,25	53	27
A113502,5	2,5	57	30
A113502,75	2,75	61	33
A113502,8	2,8	61	33
A113503	3	61	33
A113503,1	3,1	65	36
A113503,2	3,2	65	36
A113503,25	3,25	65	36
A113503,3	3,3	65	36
A113503,5	3,5	70	39
A113503,7	3,7	70	39
A113503,75	3,75	70	39
A113503,8	3,8	75	43
A113504	4	75	43
A113504,1	4,1	75	43

Tech. Code	DC mm	OAL mm	LCF mm
A113504,2	4,2	75	43
A113504,25	4,25	75	43
A113504,3	4,3	80	47
A113504,5	4,5	80	47
A113504,75	4,75	80	47
A113504,8	4,8	86	52
A113505	5	86	52
A113505,1	5,1	86	52
A113505,2	5,2	86	52
A113505,25	5,25	86	52
A113505,5	5,5	93	57
A113505,7	5,7	93	57
A113505,75	5,75	93	57
A113506	6	93	57
A113506,25	6,25	101	63
A113506,5	6,5	101	63
A113506,75	6,75	109	69
A113506,8	6,8	109	69
A113507	7	109	69

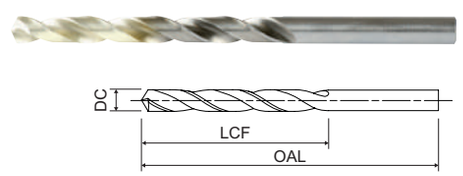
Tech. Code	DC mm	OAL mm	LCF mm
A113507,25	7,25	109	69
A113507,5	7,5	109	69
A113508	8	117	75
A113508,25	8,25	117	75
A113508,5	8,5	117	75
A113509	9	125	81
A113509,1	9,1	125	81
A113509,5	9,5	125	81
A113510	10	133	87
A113510,2	10,2	133	87
A113510,25	10,25	133	87
A113510,5	10,5	133	87
A113511	11	142	94
A113511,5	11,5	142	94
A113512	12	151	101
A113512,5	12,5	151	101
A113513	13	151	101

JOBBER DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
W	HSS	338	FS/R	118°		DIN 6535 HA	WIND Z

P1	P2	P3	M1	M2	M3	K1	K2	N2	N3	N4
●	○	○	○	○	○	○	○	●	●	○



Tech. Code	DC mm	OAL mm	LCF mm
A112503	3	61	33
A112503,3	3,3	65	36
A112503,5	3,5	70	39
A112504	4	75	43
A112504,2	4,2	75	43
A112504,5	4,5	80	47
A112505	5	86	52
A112505,5	5,5	93	57
A112506	6	93	57

Tech. Code	DC mm	OAL mm	LCF mm
A112506,5	6,5	101	63
A112506,8	6,8	109	69
A112507	7	109	69
A112507,5	7,5	109	69
A112508	8	117	75
A112508,5	8,5	117	75
A112509	9	125	81
A112509,5	9,5	125	81
A112510	10	133	87

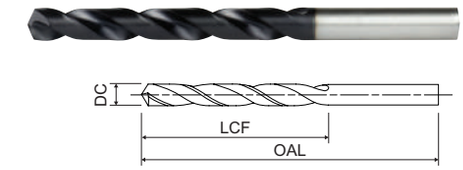
Tech. Code	DC mm	OAL mm	LCF mm
A112510,2	10,2	133	87
A112510,5	10,5	133	87
A112511	11	142	94
A112511,5	11,5	142	94
A112512	12	151	101
A112512,5	12,5	151	101
A112513	13	151	101

JOBBER DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
VA	HSSE	338	VA/R	130°		DIN 6535 HA	DEVIL

P5	P6	P7	P8	M1	M2	M3	S1	S2	S3	S4
●	●	●	●	●	●	○	○	○	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A11903	3	61	33
A11903,1	3,1	65	36
A11903,2	3,2	65	36
A11903,3	3,3	65	36
A11903,4	3,4	70	39
A11903,5	3,5	70	39
A11903,6	3,6	70	39
A11903,8	3,8	75	43
A11904	4	75	43
A11904,1	4,1	75	43
A11904,2	4,2	75	43
A11904,5	4,5	80	47
A11904,7	4,7	80	47
A11904,8	4,8	86	52
A11905	5	86	52
A11905,2	5,2	86	52

Tech. Code	DC mm	OAL mm	LCF mm
A11905,4	5,4	93	57
A11905,5	5,5	93	57
A11905,6	5,6	93	57
A11905,8	5,8	93	57
A11906	6	93	57
A11906,1	6,1	101	63
A11906,3	6,3	101	63
A11906,5	6,5	101	63
A11906,8	6,8	109	69
A11906,9	6,9	109	69
A11907	7	109	69
A11907,2	7,2	109	69
A11907,5	7,5	109	69
A11907,7	7,7	117	75
A11907,8	7,8	117	75
A11908	8	117	75

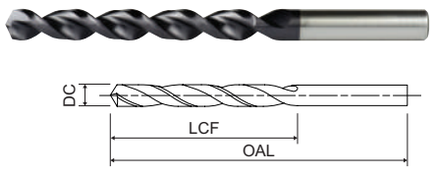
Tech. Code	DC mm	OAL mm	LCF mm
A11908,1	8,1	117	75
A11908,2	8,2	117	75
A11908,3	8,3	117	75
A11908,5	8,5	117	75
A11908,8	8,8	125	81
A11909	9	125	81
A11909,3	9,3	125	81
A11909,4	9,4	125	81
A11909,5	9,5	125	81
A119010	10	133	87
A119010,5	10,5	133	87
A119011	11	142	94
A119011,5	11,5	142	94
A119012	12	151	101
A119012,5	12,5	151	101
A119013	13	151	101

JOBBER DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	338	S/R	130°		DIN 6535 HA	TiAlN

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2	N6	N7	N8
●	●	●	●	○	○	●	●	●	○	●	○	●	●	○



Tech. Code	DC mm	OAL mm	LCF mm
A12201	1	34	12
A12201,1	1,1	36	14
A12201,2	1,2	38	16
A12201,3	1,3	38	16
A12201,4	1,4	40	18
A12201,5	1,5	40	18
A12201,6	1,6	43	20
A12201,7	1,7	43	20
A12201,8	1,8	46	22
A12201,9	1,9	46	22
A12202	2	49	24
A12202,1	2,1	49	24
A12202,2	2,2	53	27
A12202,3	2,3	53	27
A12202,5	2,5	57	30
A12202,6	2,6	57	30
A12202,7	2,7	61	33
A12202,8	2,8	61	33
A12202,9	2,9	61	33
A12203	3	61	33
A12203,1	3,1	65	36
A12203,2	3,2	65	36

Tech. Code	DC mm	OAL mm	LCF mm
A12203,3	3,3	65	36
A12203,4	3,4	70	39
A12203,5	3,5	70	39
A12203,6	3,6	70	39
A12203,8	3,8	75	43
A12203,9	3,9	75	43
A12204	4	75	43
A12204,1	4,1	75	43
A12204,3	4,3	80	47
A12204,5	4,5	80	47
A12204,7	4,7	80	47
A12204,8	4,8	86	52
A12204,9	4,9	86	52
A12205	5	86	52
A12205,1	5,1	86	52
A12205,2	5,2	86	52
A12205,3	5,3	86	52
A12205,5	5,5	93	57
A12205,7	5,7	93	57
A12205,8	5,8	93	57
A12205,9	5,9	93	57
A12206	6	93	57

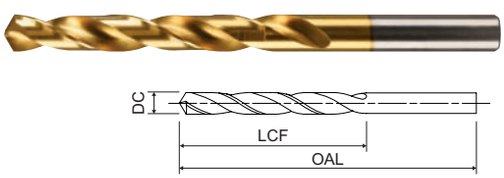
Tech. Code	DC mm	OAL mm	LCF mm
A12206,5	6,5	101	63
A12206,8	6,8	109	69
A12207	7	109	69
A12207,5	7,5	109	69
A12208	8	117	75
A12208,5	8,5	117	75
A12209	9	125	81
A12209,5	9,5	125	81
A122010	10	133	87
A122010,2	10,2	133	87
A122010,5	10,5	133	87
A122010,8	10,8	142	94
A122011	11	142	94
A122011,5	11,5	142	94
A122012	12	151	101
A122012,5	12,5	151	101
A122013	13	151	101
A122013,5*	13,5	160	108
A122014,5*	14,5	169	114
A122015,5*	15,5	178	120
A122016*	16	178	120

JOBBER DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS	338	N/R	118°		DIN 6535 HA	TiN

P1	P2	P3	P4	P5	P6	K1	K2	K3	N8	O1	O2
●	●	●	●	○	○	●	●	○	●	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A11801	1	34	12
A11801,1	1,1	36	14
A11801,2	1,2	38	16
A11801,3	1,3	38	16
A11801,4	1,4	40	18
A11801,5	1,5	40	18
A11801,6	1,6	43	20
A11801,7	1,7	43	20
A11801,8	1,8	46	22
A11801,9	1,9	46	22
A11802	2	49	24
A11802,1	2,1	49	24
A11802,2	2,2	53	27
A11802,3	2,3	53	27
A11802,4	2,4	57	30
A11802,5	2,5	57	30
A11802,6	2,6	57	30
A11802,7	2,7	61	33
A11802,8	2,8	61	33
A11802,9	2,9	61	33
A11803	3	61	33
A11803,1	3,1	65	36
A11803,2	3,2	65	36
A11803,3	3,3	65	36
A11803,4	3,4	70	39
A11803,5	3,5	70	39
A11803,6	3,6	70	39
A11803,7	3,7	70	39
A11803,8	3,8	75	43
A11803,9	3,9	75	43
A11804	4	75	43
A11804,1	4,1	75	43
A11804,2	4,2	75	43

Tech. Code	DC mm	OAL mm	LCF mm
A11804,3	4,3	80	47
A11804,4	4,4	80	47
A11804,5	4,5	80	47
A11804,6	4,6	80	47
A11804,7	4,7	80	47
A11804,8	4,8	86	52
A11804,9	4,9	86	52
A11805	5	86	52
A11805,1	5,1	86	52
A11805,2	5,2	86	52
A11805,3	5,3	86	52
A11805,4	5,4	93	57
A11805,5	5,5	93	57
A11805,6	5,6	93	57
A11805,7	5,7	93	57
A11805,8	5,8	93	57
A11805,9	5,9	93	57
A11806	6	93	57
A11806,1	6,1	101	63
A11806,2	6,2	101	63
A11806,3	6,3	101	63
A11806,4	6,4	101	63
A11806,5	6,5	101	63
A11806,6	6,6	101	63
A11806,7	6,7	101	63
A11806,8	6,8	109	69
A11806,9	6,9	109	69
A11807	7	109	69
A11807,1	7,1	109	69
A11807,2	7,2	109	69
A11807,3	7,3	109	69
A11807,4	7,4	109	69
A11807,5	7,5	109	69

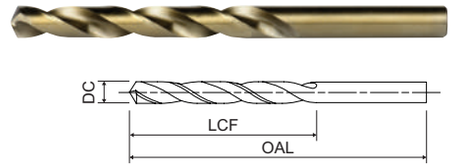
Tech. Code	DC mm	OAL mm	LCF mm
A11807,6	7,6	117	75
A11807,7	7,7	117	75
A11807,8	7,8	117	75
A11807,9	7,9	117	75
A11808	8	117	75
A11808,1	8,1	117	75
A11808,2	8,2	117	75
A11808,3	8,3	117	75
A11808,4	8,4	117	75
A11808,5	8,5	117	75
A11808,6	8,6	125	81
A11808,7	8,7	125	81
A11808,8	8,8	125	81
A11808,9	8,9	125	81
A11809	9	125	81
A11809,1	9,1	125	81
A11809,2	9,2	125	81
A11809,3	9,3	125	81
A11809,4	9,4	125	81
A11809,5	9,5	125	81
A11809,6	9,6	133	87
A11809,7	9,7	133	87
A11809,8	9,8	133	87
A11809,9	9,9	133	87
A118010	10	133	87
A118010,2	10,2	133	87
A118010,5	10,5	133	87
A118011	11	142	94
A118011,5	11,5	142	94
A118012	12	151	101
A118012,5	12,5	151	101
A118013	13	151	101

JOBBER DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	338	N/R	130°		DIN 6535 HA	GOLD OXIDE

P1	P2	P3	P4	P5	M1	M2	K1	K2	N6	N7	N8
●	●	●	●	○	●	○	●	●	●	●	○



Tech. Code	DC mm	OAL mm	LCF mm
A11451	1	34	12
A11451,1	1,1	36	14
A11451,2	1,2	38	16
A11451,3	1,3	38	16
A11451,4	1,4	40	18
A11451,5	1,5	40	18
A11451,6	1,6	43	20
A11451,7	1,7	43	20
A11451,8	1,8	46	22
A11451,9	1,9	46	22
A11452	2	49	24
A11452,1	2,1	49	24
A11452,2	2,2	53	27
A11452,3	2,3	53	27
A11452,4	2,4	57	30
A11452,5	2,5	57	30
A11452,6	2,6	57	30
A11452,7	2,7	61	33
A11452,8	2,8	61	33
A11452,9	2,9	61	33
A11453	3	61	33
A11453,2	3,2	65	36
A11453,3	3,3	65	36
A11453,4	3,4	70	39
A11453,5	3,5	70	39
A11453,6	3,6	70	39
A11453,7	3,7	70	39
A11453,8	3,8	75	43
A11453,9	3,9	75	43

Tech. Code	DC mm	OAL mm	LCF mm
A11454	4	75	43
A11454,1	4,1	75	43
A11454,2	4,2	75	43
A11454,3	4,3	80	47
A11454,5	4,5	80	47
A11454,6	4,6	80	47
A11454,7	4,7	80	47
A11454,8	4,8	86	52
A11454,9	4,9	86	52
A11455	5	86	52
A11455,1	5,1	86	52
A11455,2	5,2	86	52
A11455,3	5,3	86	52
A11455,5	5,5	93	57
A11455,6	5,6	93	57
A11455,7	5,7	93	57
A11455,8	5,8	93	57
A11456	6	93	57
A11456,1	6,1	101	63
A11456,2	6,2	101	63
A11456,3	6,3	101	63
A11456,4	6,4	101	63
A11456,5	6,5	101	63
A11456,6	6,6	101	63
A11456,7	6,7	101	63
A11456,8	6,8	109	69
A11457	7	109	69
A11457,1	7,1	109	69
A11457,3	7,3	109	69

Tech. Code	DC mm	OAL mm	LCF mm
A11457,5	7,5	109	69
A11457,7	7,7	117	75
A11457,8	7,8	117	75
A11458	8	117	75
A11458,2	8,2	117	75
A11458,3	8,3	117	75
A11458,4	8,4	117	75
A11458,5	8,5	117	75
A11458,6	8,6	125	81
A11458,7	8,7	125	81
A11458,9	8,9	125	81
A11459	9	125	81
A11459,1	9,1	125	81
A11459,2	9,2	125	81
A11459,3	9,3	125	81
A11459,4	9,4	125	81
A11459,5	9,5	125	81
A11459,7	9,7	133	87
A11459,8	9,8	133	87
A114510	10	133	87
A114510,2	10,2	133	87
A114510,5	10,5	133	87
A114511	11	142	94
A114511,5	11,5	142	94
A114512	12	151	101
A114512,5	12,5	151	101
A114513	13	151	101



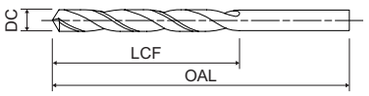
JOBBER DRILLS

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS	338	N/R	118°		DIN 6535 HA	VAP

P1	P2	P3	P4	P5	K1	K2	N2	N3	N4	N5	N6	N7	N9
●	●	●	●	○	●	●	●	●	○	●	●	●	●





Tech. Code	DC mm	OAL mm	LCF mm
A11200,3	0,3	19	3
A11200,4	0,4	20	5
A11200,5	0,5	22	6
A11200,6	0,6	24	7
A11200,7	0,7	28	9
A11200,75	0,75	28	9
A11200,8	0,8	30	10
A11200,9	0,9	32	11
A11201	1	34	12
A11201,1	1,1	36	14
A11201,2	1,2	38	16
A11201,25	1,25	38	16
A11201,3	1,3	38	16
A11201,4	1,4	40	18
A11201,5	1,5	40	18
A11201,6	1,6	43	20
A11201,7	1,7	43	20
A11201,75	1,75	46	22
A11201,8	1,8	46	22
A11201,9	1,9	46	22
A11202	2	49	24
A11202,1	2,1	49	24
A11202,2	2,2	53	27
A11202,25	2,25	53	27
A11202,3	2,3	53	27
A11202,4	2,4	57	30
A11202,5	2,5	57	30
A11202,6	2,6	57	30
A11202,7	2,7	61	33
A11202,75	2,75	61	33
A11202,8	2,8	61	33
A11202,9	2,9	61	33
A11203	3	61	33
A11203,1	3,1	65	36
A11203,2	3,2	65	36
A11203,25	3,25	65	36
A11203,3	3,3	65	36
A11203,4	3,4	70	39
A11203,5	3,5	70	39
A11203,6	3,6	70	39
A11203,7	3,7	70	39
A11203,75	3,75	70	39
A11203,8	3,8	75	43
A11203,9	3,9	75	43
A11204	4	75	43
A11204,1	4,1	75	43
A11204,2	4,2	75	43
A11204,25	4,25	75	43
A11204,3	4,3	80	47
A11204,4	4,4	80	47
A11204,5	4,5	80	47
A11204,6	4,6	80	47
A11204,7	4,7	80	47
A11204,75	4,75	80	47
A11204,8	4,8	86	52
A11204,9	4,9	86	52
A11205	5	86	52
A11205,1	5,1	86	52
A11205,2	5,2	86	52
A11205,25	5,25	86	52

Tech. Code	DC mm	OAL mm	LCF mm
A11205,3	5,3	86	52
A11205,4	5,4	93	57
A11205,5	5,5	93	57
A11205,6	5,6	93	57
A11205,7	5,7	93	57
A11205,75	5,75	93	57
A11205,8	5,8	93	57
A11205,9	5,9	93	57
A11206	6	93	57
A11206,1	6,1	101	63
A11206,2	6,2	101	63
A11206,25	6,25	101	63
A11206,3	6,3	101	63
A11206,4	6,4	101	63
A11206,5	6,5	101	63
A11206,6	6,6	101	63
A11206,7	6,7	101	63
A11206,75	6,75	109	69
A11206,8	6,8	109	69
A11206,9	6,9	109	69
A11207	7	109	69
A11207,1	7,1	109	69
A11207,2	7,2	109	69
A11207,25	7,25	109	69
A11207,3	7,3	109	69
A11207,4	7,4	109	69
A11207,5	7,5	109	69
A11207,6	7,6	117	75
A11207,7	7,7	117	75
A11207,75	7,75	117	75
A11207,8	7,8	117	75
A11207,9	7,9	117	75
A11208	8	117	75
A11208,1	8,1	117	75
A11208,2	8,2	117	75
A11208,25	8,25	117	75
A11208,3	8,3	117	75
A11208,4	8,4	117	75
A11208,5	8,5	117	75
A11208,6	8,6	125	81
A11208,7	8,7	125	81
A11208,75	8,75	125	81
A11208,8	8,8	125	81
A11208,9	8,9	125	81
A11209	9	125	81
A11209,1	9,1	125	81
A11209,2	9,2	125	81
A11209,25	9,25	125	81
A11209,3	9,3	125	81
A11209,4	9,4	125	81
A11209,5	9,5	125	81
A11209,6	9,6	133	87
A11209,7	9,7	133	87
A11209,75	9,75	133	87
A11209,8	9,8	133	87
A11209,9	9,9	133	87
A112010	10	133	87
A112010,1	10,1	133	87
A112010,2	10,2	133	87
A112010,25	10,25	133	87

Tech. Code	DC mm	OAL mm	LCF mm
A112010,3	10,3	133	87
A112010,4	10,4	133	87
A112010,5	10,5	133	87
A112010,6	10,6	133	87
A112010,7	10,7	142	94
A112010,75	10,75	142	94
A112010,8	10,8	142	94
A112010,9	10,9	142	94
A112011	11	142	94
A112011,1	11,1	142	94
A112011,2	11,2	142	94
A112011,25	11,25	142	94
A112011,3	11,3	142	94
A112011,4	11,4	142	94
A112011,5	11,5	142	94
A112011,6	11,6	142	94
A112011,7	11,7	142	94
A112011,75	11,75	142	94
A112011,8	11,8	142	94
A112011,9	11,9	151	101
A112012	12	151	101
A112012,1	12,1	151	101
A112012,2	12,2	151	101
A112012,25	12,25	151	101
A112012,3	12,3	151	101
A112012,4	12,4	151	101
A112012,5	12,5	151	101
A112012,6	12,6	151	101
A112012,7	12,7	151	101
A112012,75	12,75	151	101
A112012,8	12,8	151	101
A112012,9	12,9	151	101
A112013	13	151	101
A112013,25	13,25	160	108
A112013,5	13,5	160	108
A112013,75	13,75	160	108
A112014	14	160	108
A112014,25	14,25	169	114
A112014,5	14,5	169	114
A112014,75	14,75	169	114
A112015	15	169	114
A112015,25	15,25	178	120
A112015,5	15,5	178	120
A112015,75	15,75	178	120
A112016	16	178	120
A112016,25	16,25	184	125
A112016,5	16,5	184	125
A112016,75	16,75	184	125
A112017	17	184	125
A112017,25	17,25	191	130
A112017,5	17,5	191	130
A112017,75	17,75	191	130
A112018	18	191	130
A112018,25	18,25	198	135
A112018,5	18,5	198	135
A112018,75	18,75	198	135
A112019	19	198	135
A112019,25	19,25	205	140
A112019,5	19,5	205	140
A112020	20	205	140

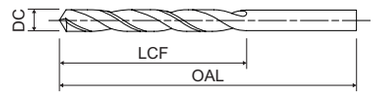
DRILLS - LONG SERIES

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	340	FS/R	130°		DIN 6535 HA	TiAlN

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2	N6	N7	N8
●	●	●	●	○	○	●	●	●	○	●	○	●	●	○





Tech. Code	DC mm	OAL mm	LCF mm
A13303	3	100	66
A13303,3	3,3	106	69
A13303,5	3,5	112	73
A13304	4	119	78
A13304,2	4,2	119	78
A13304,5	4,5	126	82
A13305	5	132	87
A13305,5	5,5	139	91
A13306	6	139	91

Tech. Code	DC mm	OAL mm	LCF mm
A13306,5	6,5	148	97
A13306,8	6,8	156	102
A13307	7	156	102
A13307,5	7,5	156	102
A13308	8	165	109
A13308,5	8,5	165	109
A13309	9	175	115
A13309,5	9,5	175	115
A133010	10	184	121

Tech. Code	DC mm	OAL mm	LCF mm
A133010,2	10,2	184	121
A133010,5	10,5	184	121
A133011	11	195	128
A133011,5	11,5	195	128
A133012	12	205	134
A133012,5	12,5	205	134
A133013	13	205	134
A133013,5	13,5	214	140
A133014	14	214	140

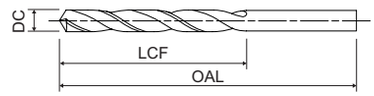
DRILLS - LONG SERIES

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS	340	S/R	130°		DIN 6535 HA	BRIGHT

P1	P2	P3	P4	K1	K2	K3	N5	N6	N7
●	●	●	●	●	●	○	●	●	○





Tech. Code	DC mm	OAL mm	LCF mm
A13201	1	56	33
A13201,1	1,1	60	37
A13201,2	1,2	65	41
A13201,3	1,3	65	41
A13201,4	1,4	70	45
A13201,5	1,5	70	45
A13201,6	1,6	76	50
A13201,7	1,7	76	50
A13201,8	1,8	80	53
A13201,9	1,9	80	53
A13202	2	85	56
A13202,1	2,1	85	56
A13202,2	2,2	90	59
A13202,3	2,3	90	59
A13202,4	2,4	95	62
A13202,5	2,5	95	62
A13202,6	2,6	95	62
A13202,7	2,7	100	66
A13202,8	2,8	100	66
A13202,9	2,9	100	66
A13203	3	100	66
A13203,1	3,1	106	69
A13203,2	3,2	106	69
A13203,25	3,25	106	69
A13203,3	3,3	106	69

Tech. Code	DC mm	OAL mm	LCF mm
A13203,4	3,4	112	73
A13203,5	3,5	112	73
A13203,6	3,6	112	73
A13203,7	3,7	112	73
A13203,8	3,8	119	78
A13203,9	3,9	119	78
A13204	4	119	78
A13204,1	4,1	119	78
A13204,2	4,2	119	78
A13204,25	4,25	119	78
A13204,3	4,3	126	82
A13204,4	4,4	126	82
A13204,5	4,5	126	82
A13204,6	4,6	126	82
A13204,7	4,7	126	82
A13204,75	4,75	126	82
A13204,8	4,8	132	87
A13204,9	4,9	132	87
A13205	5	132	87
A13205,1	5,1	132	87
A13205,2	5,2	132	87
A13205,25	5,25	132	87
A13205,3	5,3	132	87
A13205,4	5,4	139	91
A13205,5	5,5	139	91

Tech. Code	DC mm	OAL mm	LCF mm
A13205,6	5,6	139	91
A13205,7	5,7	139	91
A13205,75	5,75	139	91
A13205,8	5,8	139	91
A13206	6	139	91
A13206,25	6,25	148	97
A13206,5	6,5	148	97
A13206,75	6,75	156	102
A13207	7	156	102
A13207,5	7,5	156	102
A13207,75	7,75	165	109
A13208	8	165	109
A13208,25	8,25	165	109
A13208,5	8,5	165	109
A13209	9	175	115
A13209,25	9,25	175	115
A13209,5	9,5	175	115
A132010	10	184	121
A132010,5	10,5	184	121
A132011	11	195	128
A132011,5	11,5	195	128
A132012	12	205	134
A132012,5	12,5	205	134
A132013	13	205	134
A132014	14	214	140

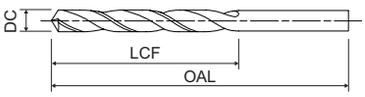
DRILLS - EXTRA-LONG SERIES

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	1869/1	S/R	130°		DIN 6535 HA	BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○





Tech. Code	DC mm	OAL mm	LCF mm
A13402	2	125	85
A13402,5	2,5	140	95
A13403	3	150	100
A13403,5	3,5	165	115
A13404	4	175	120
A13404,5	4,5	185	125
A13405	5	195	135
A13405,5	5,5	205	140

Tech. Code	DC mm	OAL mm	LCF mm
A13406	6	205	140
A13406,5	6,5	215	150
A13407	7	225	155
A13407,5	7,5	225	155
A13408	8	240	165
A13408,5	8,5	240	165
A13409	9	250	175
A13409,5	9,5	250	175

Tech. Code	DC mm	OAL mm	LCF mm
A134010	10	265	185
A134010,5	10,5	265	185
A134011	11	280	195
A134011,5	11,5	280	195
A134012	12	295	205
A134012,5	12,5	295	205
A134013	13	295	205

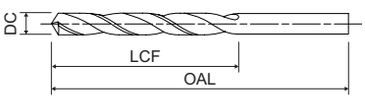
DRILLS - EXTRA-LONG SERIES

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	1869/2	S/R	130°		DIN 6535 HA	BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○





Tech. Code	DC mm	OAL mm	LCF mm
A13503	3	190	130
A13503,5	3,5	210	145
A13504	4	220	150
A13504,5	4,5	233	160
A13505	5	245	170
A13505,5	5,5	260	180
A13506	6	260	180

Tech. Code	DC mm	OAL mm	LCF mm
A13506,5	6,5	273	190
A13507	7	290	200
A13507,5	7,5	290	200
A13508	8	305	210
A13508,5	8,5	305	210
A13509	9	320	220
A13509,5	9,5	320	220

Tech. Code	DC mm	OAL mm	LCF mm
A135010	10	340	233
A135010,5	10,5	340	235
A135011	11	365	250
A135012	12	375	260
A135012,5	12,5	375	260
A135013	13	375	260

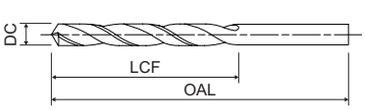
DRILLS - EXTRA-LONG SERIES

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	1869/3	S/R	130°		DIN 6535 HA	BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○





Tech. Code	DC mm	OAL mm	LCF mm
A13603,5	3,5	265	180
A13604	4	280	190
A13604,5	4,5	295	200
A13605	5	315	210
A13605,5	5,5	330	225
A13606	6	330	225
A13606,5	6,5	350	235

Tech. Code	DC mm	OAL mm	LCF mm
A13607	7	370	250
A13607,5	7,5	370	250
A13608	8	390	265
A13608,5	8,5	390	265
A13609	9	410	280
A13609,5	9,5	410	280
A136010	10	430	295

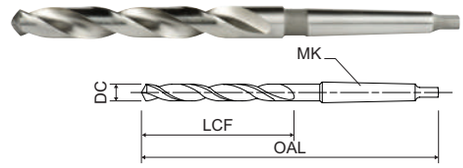
Tech. Code	DC mm	OAL mm	LCF mm
A136010,5	10,5	430	295
A136011	11	455	300
A136011,5	11,5	455	300
A136012	12	480	300
A136012,5	12,5	480	300
A136013	13	480	300

DRILLS MORSE TAPER SHANK

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	345	N/R	118°		MK	BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N6	N7	N8
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○	○



Tech. Code	DC mm	OAL mm	LCF mm	MK
A151214	14	212	114	1
A151214,5	14,5	212	114	2
A151215	15	212	114	2
A151215,5	15,5	218	120	2
A151216	16	218	120	2
A151216,5	16,5	223	125	2
A151217	17	223	125	2
A151217,5	17,5	228	130	2
A151218	18	228	130	2
A151218,5	18,5	233	135	2
A151219	19	233	135	2

Tech. Code	DC mm	OAL mm	LCF mm	MK
A151219,5	19,5	238	140	2
A151220	20	238	140	2
A151220,5	20,5	243	145	2
A151221	21	243	145	2
A151221,5	21,5	248	150	2
A151222	22	248	150	2
A151222,5	22,5	253	155	2
A151223	23	253	155	2
A151223,5	23,5	276	155	3
A151224	24	281	160	3
A151224,5	24,5	281	160	3

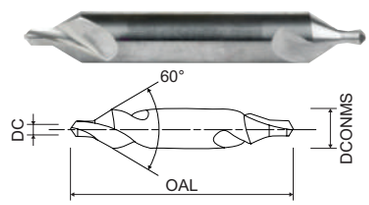
Tech. Code	DC mm	OAL mm	LCF mm	MK
A151225	25	281	160	3
A151226	26	286	165	3
A151227	27	291	170	3
A151228	28	291	170	3
A151229	29	296	175	3
A151230	30	296	175	3
A151231	31	301	180	3
A151232	32	334	185	4
A151233	33	334	185	4
A151234	34	339	190	4
A151235	35	339	190	4

CENTRE DRILLS TYPE A

KERFOLG

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	COATING
N	HM	333 A	118°		BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N6	N7
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	DCONMS mm	OAL mm
A164001	1	3,17	38
A164001,25	1,25	3,17	38
A164001,6	1,6	4	40
A164002	2	5	50

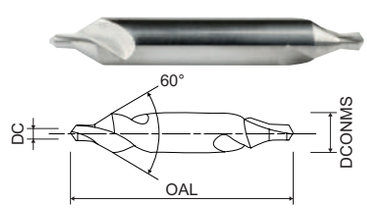
Tech. Code	DC mm	DCONMS mm	OAL mm
A164002,5	2,5	6,3	50
A164003,15	3,15	8	63
A164004	4	10	66

CENTRE DRILLS TYPE A

KERFOLG

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	COATING
N	HSSE	333 A	118°		BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16111	1	3,15	31,5	60°
A16111,25	1,25	3,15	31,5	60°
A16111,6	1,6	4	35,5	60°
A16112	2	5	40	60°
A16112,5	2,5	6,3	45	60°

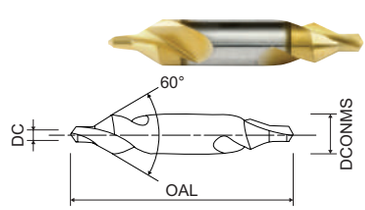
Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16113,15	3,15	8	50	60°
A16114	4	10	56	60°
A16115	5	12,5	63	60°
A16116,3	6,3	16	71	60°

CENTRE DRILLS TYPE A

KERFOLG

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	COATING
N	HSS	333 A	118°		TiN

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N6	N7
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16121	1	3,15	31,5	60°
A16121,25	1,25	3,15	31,5	60°
A16121,6	1,6	4	35,5	60°
A16122	2	5	40	60°
A16122,5	2,5	6,3	45	60°

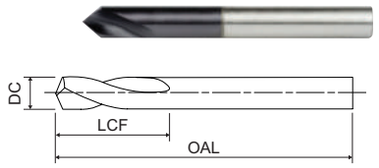
Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16123,15	3,15	8	50	60°
A16124	4	10	56	60°
A16125	5	12,5	63	60°
A16126,3	6,3	16	71	60°

CENTRE SPOTTING DRILLS 90°

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	1897	N/R	90°		DIN 6535 HA	TiAlN

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N6	N7
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A16553	3	46	12
A16554	4	55	12
A16555	5	62	14

Tech. Code	DC mm	OAL mm	LCF mm
A16556	6	66	16
A16558	8	79	21
A165510	10	89	25

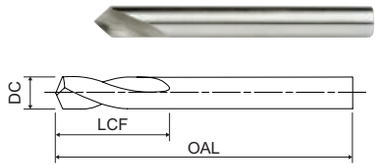
Tech. Code	DC mm	OAL mm	LCF mm
A165512	12	102	30
A165516	16	115	38
A165520	20	131	45

CENTRE SPOTTING DRILLS 90°

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	1897	N/R	90°		DIN 6535 HA	BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A16503	3	46	12
A16504	4	55	12
A16505	5	62	14

Tech. Code	DC mm	OAL mm	LCF mm
A16506	6	66	19
A16508	8	79	23
A165010	10	89	26

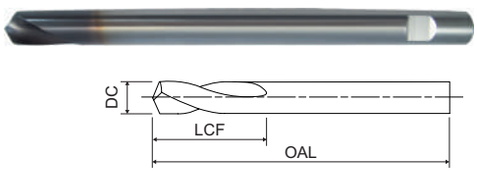
Tech. Code	DC mm	OAL mm	LCF mm
A165012	12	102	31
A165016	16	115	34
A165020	20	131	36

CENTRE SPOTTING DRILLS 90° - LONG SERIES

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	NDF	N/R	90°		DIN 6535 HB	TiAlN

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N6	N7
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A16566	6	140	20
A16568	8	140	25

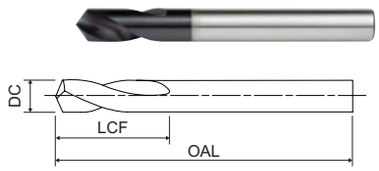
Tech. Code	DC mm	OAL mm	LCF mm
A165610	10	170	25
A165612	12	170	30

CENTRE SPOTTING DRILLS 120° FOR NC

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	1897	N/R	120°		DIN 6535 HA	TiAlN

P5	P6	M1	M2	M3	K1	K2	N2	N3	N6	N7
○	○	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A16656	6	66	16
A16658	8	79	21

Tech. Code	DC mm	OAL mm	LCF mm
A166510	10	89	25
A166512	12	102	30

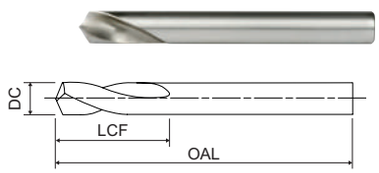
Tech. Code	DC mm	OAL mm	LCF mm
A166516	16	115	38
A166520	20	131	45

CENTRE DRILL BITS 120° FOR NC

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSSE	1897	N/R	120°		DIN 6535 HA	BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A16606	6	66	19
A16608	8	79	23

Tech. Code	DC mm	OAL mm	LCF mm
A166010	10	89	26
A166012	12	102	31

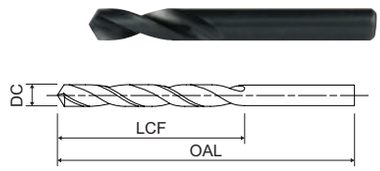
Tech. Code	DC mm	OAL mm	LCF mm
A166016	16	115	34
A166020	20	131	36

STUB DRILLS

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS	1897	N/R	118°		DIN 6535 HA	VAP

P1	P2	P3	P4	P5	K1	K2	N1	N2
●	●	●	●	○	●	●	●	●



Tech. Code	DC mm	OAL mm	LCF mm
A10102	2	38	12
A10102,1	2,1	38	12
A10102,2	2,2	40	13
A10102,3	2,3	40	13
A10102,4	2,4	43	14
A10102,5	2,5	43	14
A10102,6	2,6	43	14
A10102,7	2,7	46	16
A10102,8	2,8	46	16
A10102,9	2,9	46	16
A10103	3	46	16
A10103,1	3,1	49	18
A10103,2	3,2	49	18
A10103,25	3,25	49	18
A10103,3	3,3	49	18
A10103,4	3,4	52	20
A10103,5	3,5	52	20
A10103,6	3,6	52	20
A10103,7	3,7	52	20
A10103,8	3,8	55	22
A10103,9	3,9	55	22

Tech. Code	DC mm	OAL mm	LCF mm
A10104	4	55	22
A10104,1	4,1	55	22
A10104,2	4,2	55	22
A10104,3	4,3	58	24
A10104,4	4,4	58	24
A10104,5	4,5	58	24
A10104,6	4,6	58	24
A10104,7	4,7	58	24
A10104,8	4,8	62	26
A10104,9	4,9	62	26
A10105	5	62	26
A10105,1	5,1	62	26
A10105,2	5,2	62	26
A10105,3	5,3	62	26
A10105,4	5,4	66	28
A10105,5	5,5	66	28
A10105,6	5,6	66	28
A10105,7	5,7	66	28
A10105,8	5,8	66	28
A10105,9	5,9	66	28
A10106	6	66	28

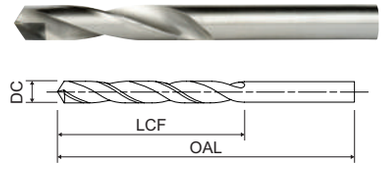
Tech. Code	DC mm	OAL mm	LCF mm
A10106,3	6,3	70	31
A10106,4	6,4	70	31
A10106,5	6,5	70	31
A10106,6	6,6	70	31
A10106,7	6,7	70	31
A10106,8	6,8	74	34
A10107	7	74	34
A10107,5	7,5	74	34
A10108	8	79	37
A10108,2	8,2	79	37
A10108,5	8,5	79	37
A10109	9	84	40
A10109,5	9,5	84	40
A101010	10	89	43
A101010,5	10,5	89	43
A101011	11	95	47
A101011,5	11,5	95	47
A101012	12	102	51
A101012,5	12,5	102	51
A101013	13	102	51

STUB DRILLS CARBIDE-TIPPED

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS +HM	8037	N/R	118°		DIN 6535 HA	BRIGHT

P2	P3	P6	K1	K2	K3	N6	N7	H1
○	○	○	●	●	●	○	○	●



Tech. Code	DC mm	OAL mm	LCF mm
A10902	2	45	18
A10902,5	2,5	45	18
A10903	3	50	20
A10903,2	3,2	56	25
A10903,3	3,3	56	25
A10903,5	3,5	56	25
A10904	4	56	25
A10904,2	4,2	63	28
A10904,5	4,5	63	28
A10905	5	63	28
A10905,5	5,5	71	32
A10906	6	71	32
A10906,5	6,5	71	32
A10906,8	6,8	80	40

Tech. Code	DC mm	OAL mm	LCF mm
A10907	7	80	40
A10907,5	7,5	80	40
A10908	8	80	40
A10908,5	8,5	90	50
A10909	9	90	50
A10909,5	9,5	90	50
A109010	10	100	56
A109010,5	10,5	100	56
A109011	11	100	56
A109011,5	11,5	112	63
A109012	12	112	63
A109012,5	12,5	112	63
A109013	13	112	63
A109013,5	13,5	125	71

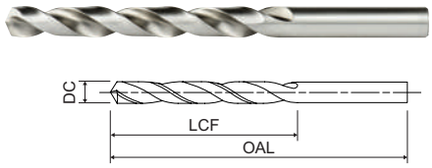
Tech. Code	DC mm	OAL mm	LCF mm
A109014	14	125	71
A109014,5	14,5	125	71
A109015	15	125	71
A109015,5	15,5	140	80
A109016	16	140	80
A109016,5	16,5	140	80
A109017	17	140	80
A109017,5	17,5	160	90
A109018	18	160	90
A109018,5	18,5	160	90
A109019	19	160	90
A109019,5	19,5	160	90
A109020	20	160	90

JOBBER DRILLS

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
VA	HSSE	338	VA/R	130°		DIN 6535 HA	BRIGHT

P1	P2	P3	P7	P8	M1	M2	N2	N3	N4	N5	N6	S1	S2
●	●	●	○	○	●	○	●	●	○	●	●	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A11401	1	34	12
A11401,1	1,1	36	14
A11401,2	1,2	38	16
A11401,3	1,3	38	16
A11401,4	1,4	40	18
A11401,5	1,5	40	18
A11401,6	1,6	43	20
A11401,7	1,7	43	20
A11401,8	1,8	46	22
A11401,9	1,9	46	22
A11402	2	49	24
A11402,1	2,1	49	24
A11402,2	2,2	53	27
A11402,3	2,3	53	27
A11402,4	2,4	57	30
A11402,5	2,5	57	30
A11402,6	2,6	57	30
A11402,7	2,7	61	33
A11402,8	2,8	61	33
A11402,9	2,9	61	33
A11403	3	61	33
A11403,1	3,1	65	36
A11403,2	3,2	65	36

Tech. Code	DC mm	OAL mm	LCF mm
A11403,25	3,25	65	36
A11403,3	3,3	65	36
A11403,4	3,4	70	39
A11403,5	3,5	70	39
A11403,6	3,6	70	39
A11403,7	3,7	70	39
A11403,8	3,8	75	43
A11403,9	3,9	75	43
A11404	4	75	43
A11404,1	4,1	75	43
A11404,2	4,2	75	43
A11404,3	4,3	80	47
A11404,4	4,4	80	47
A11404,5	4,5	80	47
A11404,6	4,6	80	47
A11404,7	4,7	80	47
A11404,8	4,8	86	52
A11404,9	4,9	86	52
A11405	5	86	52
A11405,1	5,1	86	52
A11405,2	5,2	86	52
A11405,3	5,3	86	52
A11405,4	5,4	93	57

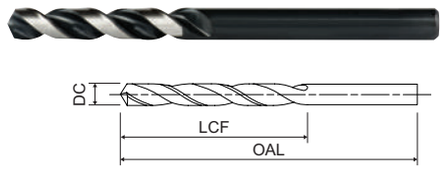
Tech. Code	DC mm	OAL mm	LCF mm
A11405,5	5,5	93	57
A11405,6	5,6	93	57
A11405,7	5,7	93	57
A11405,8	5,8	93	57
A11405,9	5,9	93	57
A11406	6	93	57
A11406,5	6,5	101	63
A11406,8	6,8	109	69
A11407	7	109	69
A11407,5	7,5	109	69
A11408	8	117	75
A11408,5	8,5	117	75
A11409	9	125	81
A11409,5	9,5	125	81
A114010	10	133	87
A114010,5	10,5	133	87
A114011	11	142	94
A114011,5	11,5	142	94
A114012	12	151	101
A114012,5	12,5	151	101
A114013	13	151	101

JOBBER DRILLS

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
VA	HSS	338	VA/R	130°		DIN 6535 HA	VAP

P1	P2	P3	P4	P7	P8	M1	M2	M3	S1	S2	S3	S4
●	●	●	●	●	●	●	●	○	○	○	○	○



Tech. Code	DC mm	OAL mm	LCF mm
A11303	3	61	18
A11303,1	3,1	65	20
A11303,2	3,2	65	20
A11303,3	3,3	65	20
A11303,4	3,4	70	22
A11303,5	3,5	70	22
A11304	4	75	25
A11304,2	4,2	75	25
A11304,3	4,3	80	28
A11304,5	4,5	80	28
A11305	5	86	32
A11305,1	5,1	86	32
A11305,2	5,2	86	32

Tech. Code	DC mm	OAL mm	LCF mm
A11305,3	5,3	86	32
A11305,5	5,5	93	36
A11305,8	5,8	93	36
A11306	6	93	36
A11306,2	6,2	101	40
A11306,5	6,5	101	40
A11306,8	6,8	109	45
A11307	7	109	45
A11307,5	7,5	117	51
A11308	8	117	51
A11308,1	8,1	117	51
A11308,2	8,2	117	51
A11308,5	8,5	125	57

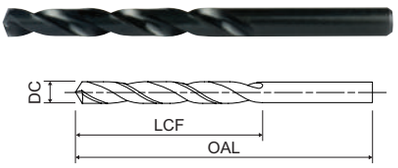
Tech. Code	DC mm	OAL mm	LCF mm
A11308,6	8,6	125	57
A11309	9	125	57
A11309,5	9,5	133	63
A113010	10	133	63
A113010,2	10,2	133	63
A113010,5	10,5	133	63
A113011	11	142	71
A113011,2	11,2	142	71
A113011,5	11,5	142	71
A113011,8	11,8	142	71
A113012	12	151	71
A113012,5	12,5	151	71
A113013	13	151	71

JOBBER DRILLS

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS	338	N/R	118°		DIN 6535 HA	VAP

P1	P2	P3	P4	P5	K1	K2	N1	N2
●	●	●	●	○	●	●	●	●



Tech. Code	DC mm	OAL mm	LCF mm
A11100,25	0,25	19	3
A11100,3	0,3	19	3
A11100,35	0,35	19	4
A11100,4	0,4	20	5
A11100,45	0,45	20	5
A11100,5	0,5	22	6
A11100,55	0,55	24	7
A11100,6	0,6	24	7
A11100,65	0,65	26	8
A11100,7	0,7	28	9
A11100,75	0,75	28	9
A11100,8	0,8	30	10
A11100,85	0,85	30	10
A11100,9	0,9	32	11
A11100,95	0,95	32	11
A11101	1	34	12
A11101,1	1,1	36	14
A11101,2	1,2	38	16
A11101,25	1,25	38	16
A11101,3	1,3	38	16
A11101,35	1,35	40	18
A11101,4	1,4	40	18
A11101,5	1,5	40	18
A11101,55	1,55	43	20
A11101,6	1,6	43	20
A11101,65	1,65	43	20
A11101,7	1,7	43	20
A11101,75	1,75	46	22
A11101,8	1,8	46	22
A11101,85	1,85	46	22
A11101,9	1,9	46	22
A11102	2	49	24
A11102,1	2,1	49	24
A11102,2	2,2	53	27
A11102,25	2,25	53	27
A11102,3	2,3	53	27
A11102,4	2,4	57	30
A11102,45	2,45	57	30
A11102,5	2,5	57	30
A11102,6	2,6	57	30
A11102,65	2,65	57	30
A11102,7	2,7	61	33
A11102,75	2,75	61	33
A11102,8	2,8	61	33
A11102,9	2,9	61	33
A11103	3	61	33
A11103,1	3,1	65	36
A11103,15	3,15	65	36
A11103,17	3,17	65	36
A11103,2	3,2	65	36
A11103,25	3,25	65	36
A11103,3	3,3	65	36
A11103,4	3,4	70	39
A11103,5	3,5	70	39
A11103,6	3,6	70	39
A11103,7	3,7	70	39
A11103,75	3,75	70	39
A11103,8	3,8	75	43

Tech. Code	DC mm	OAL mm	LCF mm
A11103,9	3,9	75	43
A11103,95	3,95	75	43
A11104	4	75	43
A11104,1	4,1	75	43
A11104,15	4,15	75	43
A11104,2	4,2	75	43
A11104,25	4,25	75	43
A11104,3	4,3	80	47
A11104,4	4,4	80	47
A11104,45	4,45	80	47
A11104,5	4,5	80	47
A11104,6	4,6	80	47
A11104,65	4,65	80	47
A11104,7	4,7	80	47
A11104,75	4,75	80	47
A11104,8	4,8	86	52
A11104,85	4,85	86	52
A11104,9	4,9	86	52
A11105	5	86	52
A11105,1	5,1	86	52
A11105,2	5,2	86	52
A11105,25	5,25	86	52
A11105,3	5,3	86	52
A11105,4	5,4	93	57
A11105,45	5,45	93	57
A11105,5	5,5	93	57
A11105,6	5,6	93	57
A11105,7	5,7	93	57
A11105,75	5,75	93	57
A11105,8	5,8	93	57
A11105,9	5,9	93	57
A11105,95	5,95	93	57
A11106	6	101	63
A11106,1	6,1	101	63
A11106,2	6,2	101	63
A11106,25	6,25	101	63
A11106,3	6,3	101	63
A11106,35	6,35	101	63
A11106,4	6,4	101	63
A11106,5	6,5	101	63
A11106,6	6,6	101	63
A11106,7	6,7	109	69
A11106,75	6,75	109	69
A11106,8	6,8	109	69
A11106,9	6,9	109	69
A11107	7	109	69
A11107,1	7,1	109	69
A11107,2	7,2	109	69
A11107,25	7,25	109	69
A11107,3	7,3	109	69
A11107,4	7,4	109	69
A11107,5	7,5	117	75
A11107,6	7,6	117	75
A11107,7	7,7	117	75
A11107,75	7,75	117	75
A11107,8	7,8	117	75
A11107,9	7,9	117	75
A11108	8	117	75

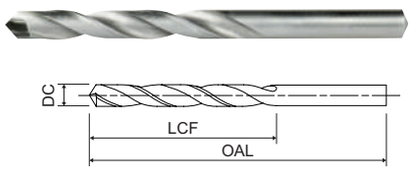
Tech. Code	DC mm	OAL mm	LCF mm
A11108,1	8,1	117	75
A11108,2	8,2	117	75
A11108,25	8,25	117	75
A11108,3	8,3	117	75
A11108,4	8,4	117	75
A11108,5	8,5	125	81
A11108,6	8,6	125	81
A11108,7	8,7	125	81
A11108,75	8,75	125	81
A11108,8	8,8	125	81
A11108,9	8,9	125	81
A11109	9	125	81
A11109,1	9,1	125	81
A11109,2	9,2	125	81
A11109,25	9,25	125	81
A11109,3	9,3	125	81
A11109,4	9,4	125	81
A11109,5	9,5	133	87
A11109,6	9,6	133	87
A11109,7	9,7	133	87
A11109,75	9,75	133	87
A11109,8	9,8	133	87
A11109,9	9,9	133	87
A111010	10	133	87
A111010,1	10,1	133	87
A111010,2	10,2	133	87
A111010,25	10,25	133	87
A111010,5	10,5	142	94
A111010,75	10,75	142	94
A111011	11	142	94
A111011,5	11,5	142	94
A111011,75	11,75	151	101
A111012	12	151	101
A111012,1	12,1	151	101
A111012,25	12,25	151	101
A111012,5	12,5	151	101
A111012,75	12,75	151	101
A111013	13	160	108
A111013,25	13,25	160	108
A111013,5	13,5	160	108
A111013,75	13,75	160	108
A111014	14	169	114
A111014,25	14,25	169	114
A111014,5	14,5	169	114
A111014,75	14,75	169	114
A111015	15	178	120
A111015,25	15,25	178	120
A111015,5	15,5	178	120
A111015,75	15,75	178	120
A111016	16	184	125
A111016,5	16,5	184	125
A111017	17	191	130
A111017,5	17,5	191	130
A111018	18	198	135
A111019	19	205	140
A111020	20	205	140

JOBBER DRILLS CARBIDE-TIPPED

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS +HM	338	N/R	118°		DIN 6535 HA	BRIGHT

P2	P3	P6	K1	K2	K3	N6	N7	H1
○	○	●	●	●	●	○	○	●



Tech. Code	DC mm	OAL mm	LCF mm
A12402	2	49	24
A12402,5	2,5	57	30
A12403	3	61	33
A12403,3	3,3	65	36
A12403,5	3,5	70	39
A12404	4	75	43
A12404,2	4,2	75	43
A12404,5	4,5	80	47
A12405	5	86	52
A12405,5	5,5	93	57
A12406	6	93	57
A12406,5	6,5	101	63

Tech. Code	DC mm	OAL mm	LCF mm
A12406,8	6,8	109	69
A12407	7	109	69
A12407,5	7,5	109	69
A12408	8	117	75
A12409	9	125	81
A12409,5	9,5	125	81
A124010	10	133	87
A124010,5	10,5	133	87
A124011	11	142	94
A124011,5	11,5	142	94
A124012	12	151	101
A124012,5	12,5	151	101

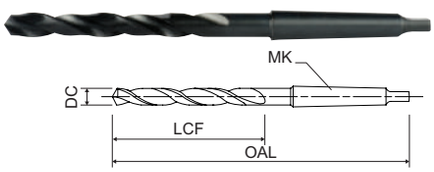
Tech. Code	DC mm	OAL mm	LCF mm
A124013	13	151	101
A124014	14	160	108
A124014,5	14,5	169	114
A124015	15	169	114
A124015,5	15,5	178	120
A124016	16	178	120
A124017	17	184	125
A124018	18	191	130
A124019	19	198	135
A124020	20	205	140

DRILLS MORSE TAPER SHANK

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS	345	N/R	118°		MK	VAP

P1	P2	P3	P4	K1	K2	N2	N3	N6	N7
●	●	●	●	●	○	●	●	○	○



Tech. Code	DC mm	OAL mm	LCF mm	MK
A15105	5	133	52	1
A15105,25	5,25	133	52	1
A15105,5	5,5	138	57	1
A15105,75	5,75	138	57	1
A15106	6	138	57	1
A15106,25	6,25	144	63	1
A15106,5	6,5	144	63	1
A15106,75	6,75	150	69	1
A15107	7	150	69	1
A15107,25	7,25	150	69	1
A15107,5	7,5	150	69	1
A15107,75	7,75	156	75	1
A15108	8	156	75	1
A15108,25	8,25	156	75	1
A15108,5	8,5	156	75	1
A15108,75	8,75	162	81	1
A15109	9	162	81	1
A15109,25	9,25	162	81	1
A15109,5	9,5	162	81	1
A15109,75	9,75	168	87	1
A151010	10	168	87	1
A151010,2	10,2	168	87	1
A151010,25	10,25	168	87	1
A151010,5	10,5	168	87	1
A151010,75	10,75	175	94	1
A151011	11	175	94	1
A151011,25	11,25	175	94	1
A151011,5	11,5	175	94	1
A151011,75	11,75	175	94	1
A151012	12	182	101	1
A151012,25	12,25	182	101	1
A151012,5	12,5	182	101	1
A151012,75	12,75	182	101	1
A151013	13	182	101	1
A151013,25	13,25	189	108	1
A151013,5	13,5	189	108	1
A151013,75	13,75	189	108	1
A151014	14	189	108	1
A151014,25	14,25	212	114	2
A151014,5	14,5	212	114	2
A151014,75	14,75	212	114	2
A151015	15	212	114	2
A151015,25	15,25	218	120	2
A151015,5	15,5	218	120	2

Tech. Code	DC mm	OAL mm	LCF mm	MK
A151015,75	15,75	218	120	2
A151016	16	218	120	2
A151016,25	16,25	223	125	2
A151016,5	16,5	223	125	2
A151016,75	16,75	223	125	2
A151017	17	223	125	2
A151017,25	17,25	228	130	2
A151017,5	17,5	228	130	2
A151017,75	17,75	228	130	2
A151018	18	228	130	2
A151018,25	18,25	233	135	2
A151018,5	18,5	233	135	2
A151018,75	18,75	233	135	2
A151019,0	19,00	233	135	2
A151019,25	19,25	238	140	2
A151019,5	19,5	238	140	2
A151019,75	19,75	238	140	2
A151020	20	238	140	2
A151020,25	20,25	243	145	2
A151020,5	20,5	243	145	2
A151020,75	20,75	243	145	2
A151021	21	243	145	2
A151021,25	21,25	248	150	2
A151021,5	21,5	248	150	2
A151021,75	21,75	248	150	2
A151022	22	248	150	2
A151022,25	22,25	248	150	2
A151022,5	22,5	276	155	2
A151022,75	22,75	276	155	2
A151023	23	276	155	2
A151023,25	23,25	276	155	3
A151023,5	23,5	276	155	3
A151023,75	23,75	281	160	3
A151024	24	281	160	3
A151024,25	24,25	281	160	3
A151024,5	24,5	281	160	3
A151024,75	24,75	281	160	3
A151025	25	281	160	3
A151025,25	25,25	286	165	3
A151025,5	25,5	286	165	3
A151025,75	25,75	286	165	3
A151026	26	286	165	3
A151026,25	26,25	286	165	3
A151026,5	26,5	286	165	3

Tech. Code	DC mm	OAL mm	LCF mm	MK
A151026,75	26,75	291	170	3
A151027	27	291	170	3
A151027,25	27,25	291	170	3
A151027,5	27,5	291	170	3
A151027,75	27,75	291	170	3
A151028	28	291	170	3
A151028,25	28,25	296	175	3
A151028,5	28,5	296	175	3
A151028,75	28,75	296	175	3
A151029	29	296	175	3
A151029,25	29,25	296	175	3
A151029,5	29,5	296	175	3
A151029,75	29,75	296	175	3
A151030	30	296	175	3
A151030,5	30,5	301	180	3
A151031	31	301	180	3
A151031,5	31,5	301	180	3
A151032	32	334	185	4
A151032,5	32,5	334	185	4
A151033	33	334	185	4
A151033,5	33,5	334	185	4
A151034	34	339	190	4
A151034,5	34,5	339	190	4
A151035	35	339	190	4
A151035,5	35,5	339	190	4
A151036	36	344	195	4
A151036,5	36,5	344	195	4
A151037	37	344	195	4
A151037,5	37,5	344	195	4
A151038	38	349	200	4
A151038,5	38,5	349	200	4
A151039	39	349	200	4
A151039,5	39,5	349	200	4
A151040	40	349	200	4
A151041	41	345	205	4
A151042	42	345	205	4
A151043	43	359	210	4
A151044	44	359	210	4
A151045	45	359	210	4
A151046	46	364	215	4
A151047	47	364	215	4
A151048	48	369	220	4
A151049	49	369	220	4
A151050	50	369	220	4

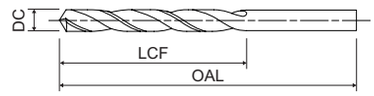
DRILLS - LONG SERIES

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS	340	N/R	118°		DIN 6535 HA	VAP

P1	P2	P3	P4	P5	K1	K2	N1	N2
●	●	●	●	○	●	●	●	●





Tech. Code	DC mm	OAL mm	LCF mm
A13101	1	56	33
A13101,1	1,1	60	37
A13101,2	1,2	65	41
A13101,3	1,3	65	41
A13101,4	1,4	70	45
A13101,5	1,5	70	45
A13101,6	1,6	76	50
A13101,7	1,7	76	50
A13101,75	1,75	80	53
A13101,8	1,8	80	53
A13101,9	1,9	80	53
A13102	2	85	56
A13102,1	2,1	85	56
A13102,2	2,2	90	59
A13102,25	2,25	90	59
A13102,3	2,3	90	59
A13102,4	2,4	95	62
A13102,5	2,5	95	62
A13102,6	2,6	95	62
A13102,7	2,7	100	66
A13102,8	2,8	100	66
A13102,9	2,9	100	66
A13103	3	100	66
A13103,1	3,1	106	69
A13103,2	3,2	106	69
A13103,3	3,3	106	69

Tech. Code	DC mm	OAL mm	LCF mm
A13103,5	3,5	112	73
A13103,6	3,6	112	73
A13103,7	3,7	112	73
A13103,75	3,75	112	73
A13103,8	3,8	119	78
A13103,9	3,9	119	78
A13104	4	119	78
A13104,1	4,1	119	78
A13104,2	4,2	119	78
A13104,3	4,3	126	82
A13104,4	4,4	126	82
A13104,5	4,5	126	82
A13104,6	4,6	126	82
A13104,7	4,7	126	82
A13104,75	4,75	126	82
A13104,8	4,8	132	87
A13104,9	4,9	132	87
A13105	5	132	87
A13105,1	5,1	132	87
A13105,2	5,2	132	87
A13105,3	5,3	132	87
A13105,4	5,4	139	91
A13105,5	5,5	139	91
A13105,6	5,6	139	91
A13105,7	5,7	139	91
A13105,75	5,75	139	91

Tech. Code	DC mm	OAL mm	LCF mm
A13105,8	5,8	139	91
A13105,9	5,9	139	91
A13106	6	139	91
A13106,5	6,5	148	97
A13107	7	156	102
A13107,25	7,25	156	102
A13107,5	7,5	156	102
A13108	8	165	109
A13108,5	8,5	165	109
A13109	9	175	115
A13109,25	9,25	175	115
A13109,5	9,5	175	115
A13109,75	9,75	184	121
A131010	10	184	121
A131010,5	10,5	184	121
A131011	11	195	128
A131011,5	11,5	195	128
A131012	12	205	134
A131012,5	12,5	205	134
A131013	13	205	134
A131013,5	13,5	214	140
A131014	14	214	140
A131014,5	14,5	220	144
A131015	15	220	144
A131015,5	15,5	227	149
A131016	16	227	149

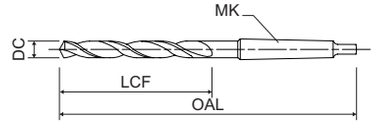
DRILLS MORSE TAPER SHANK - LONG SERIES

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS	1870	N/R	118°		MK	VAP

P1	P2	P3	P4	K1	K2	N2	N3	N6	N7
●	●	●	●	●	○	●	●	○	○





Tech. Code	DC mm	OAL mm	LCF mm	MK
A151812	12	310	205	1
A151813	13	310	205	1
A151814	14	325	220	1

Tech. Code	DC mm	OAL mm	LCF mm	MK
A151815	15	340	220	2
A151816	16	355	230	2
A151818	18	370	245	2

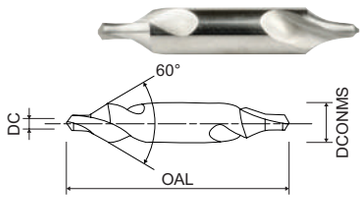
Tech. Code	DC mm	OAL mm	LCF mm	MK
A151820	20	385	260	2
A151825	25	440	290	3
A151830	30	460	305	3

CENTRE DRILLS TYPE A

WRK

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	COATING
N	HSS	333 A	118°		BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16101	1	3,15	31,5	60°
A16101,25	1,25	3,15	31,5	60°
A16101,6	1,6	4	35,5	60°
A16102	2	5	40	60°
A16102,5	2,5	6,3	45	60°

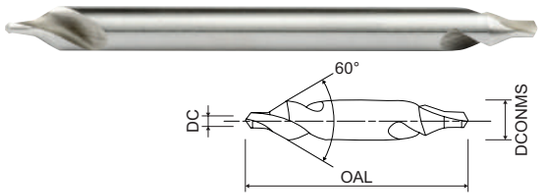
Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16103,15	3,15	8	50	60°
A16104	4	10	56	60°
A16105	5	12,5	63	60°
A16106,3	6,3	16	71	60°

CENTRE DRILLS TYPE A - LONG SERIES

WRK

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	COATING
N	HSS	333 A	118°		BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16151	1	3,15	120	60°
A16151,6	1,6	4	120	60°
A16152	2	5	120	60°
A16152,5	2,5	6,3	120	60°

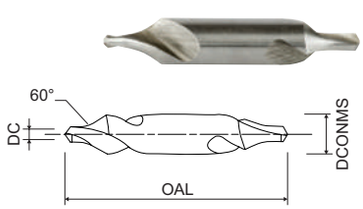
Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16153,15	3,15	8	120	60°
A16154	4	10	120	60°
A16155	5	12,5	120	60°

CENTRE DRILLS TYPE R

WRK

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	COATING
N	HSS	333 R	118°		BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16201,6	1,6	4	35,5	60°
A16202	2	5	40	60°
A16202,5	2,5	6,3	45	60°

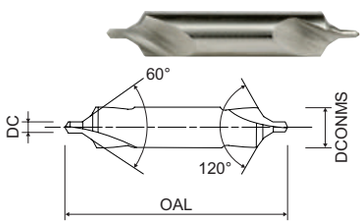
Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16203,15	3,15	8	50	60°
A16204	4	10	56	60°
A16205	5	12,5	63	60°

CENTRE DRILLS TYPE B

WRK

TOOL TYPE	MATERIAL	DIN	POINT ANGLE	NOF	COATING
N	HSS	333 B	118°		BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○



Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16301	1	4	35,5	60°
A16301,25	1,25	5	40	60°
A16301,6	1,6	6,3	45	60°
A16302	2	8	50	60°
A16302,5	2,5	10	56	60°

Tech. Code	DC mm	DCONMS mm	OAL mm	RCSK mm
A16303,15	3,15	11,2	60	60°
A16304	4	14	67	60°
A16305	5	18	75	60°
A16306,3	6,3	20	80	60°

SUBLAND TWIST DRILLS 90°

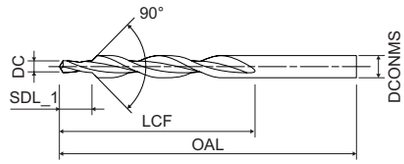
WRK

MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
HSS	8374	N/R	118°		DIN 6535 HA	BRIGHT

For countersunk screw seats

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○





Tech. Code	For thread	DC mm	DCONMS mm	OAL mm	LCF mm	SDL_1 mm
A1710M3	M3	3,20	6,30	90	52	11
A1710M4	M4	4,30	8,30	105	63	13
A1710M5	M5	5,30	10,40	133	83	16

Tech. Code	For thread	DC mm	DCONMS mm	OAL mm	LCF mm	SDL_1 mm
A1710M6	M6	6,40	12,40	142	90	20
A1710M8	M8	8,40	16,50	186	115	23
A1710M10	M10	10,50	19,00	198	135	23

SUBLAND TWIST DRILLS 90°

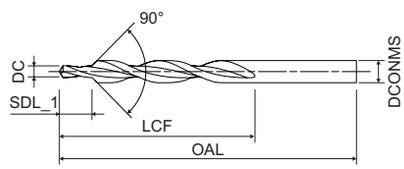
WRK

MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
HSS	8378	N/R	118°		DIN 6535 HA	BRIGHT

For pre-hole tapping, countersinking of through holes

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○





Tech. Code	For thread	DC mm	DCONMS mm	OAL mm	LCF mm	SDL_1 mm
A1720M3	M3	2,50	3,40	70	39	8
A1720M4	M4	3,30	4,50	80	47	11
A1720M5	M5	4,20	5,50	93	57	13
A1720M6	M6	5,00	6,60	101	63	16

Tech. Code	For thread	DC mm	DCONMS mm	OAL mm	LCF mm	SDL_1 mm
A1720M8	M8	6,80	9,00	125	81	21
A1720M10	M10	8,50	11,00	142	94	25
A1720M12	M12	10,20	13,50	160	108	30

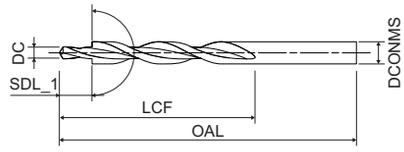
SUBLAND TWIST DRILLS 180°

WRK

MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
HSS	8376	N/R	118°		DIN 6535 HA	BRIGHT

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6
●	●	●	●	○	○	●	●	●	●	○	●	○	●	●	○	○





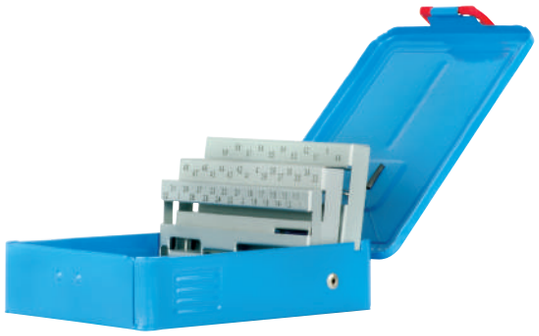
Tech. Code	For thread	DC mm	DCONMS mm	OAL mm	LCF mm	SDL_1 mm
A1730M3	M3	3,40	6	93	57	9
A1730M4	M4	4,50	8	117	75	11
A1730M5	M5	5,50	10	133	87	13

Tech. Code	For thread	DC mm	DCONMS mm	OAL mm	LCF mm	SDL_1 mm
A1730M6	M6	6,60	11	142	94	15
A1730M8	M8	9,00	15	169	114	19

BOXES FOR JOBBER DRILLS SET - EMPTY

WRK

Cylindrical	Description
A179019	Empty box for assortment of 19 tips
A179025	Empty box for assortment of 25 tips
A179041	Empty box for assortment 41 tips
A179050	Empty box for assortment of 50 tips



JOBBER DRILLS KIT

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS	338	N/R	118°		DIN 6535 HA	VAP

P1	P2	P3	P4	P5	K1	K2	N1	N2
●	●	●	●	○	●	●	●	●

Tech. Code	Description	Pieces
A1111SET110	Drill bit assortment art. no. A1110 1.00 to 10.00 x 0.5	19
A1111SET113	Drill bit assortment art. no. A1110 1.00 to 13.00 x 0.5	25
A1111SET15,9	Drill bit assortment art. no. A1110 1.00 to 5.9 x 0.1	50
A1111SET610	Drill bit assortment art. no. A1110 6.00 to 10.00 x 0.1	41



JOBBER DRILLS KIT

WRK

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
VA	HSSE	338	VA/R	130°		DIN 6535 HA	BRIGHT

P1	P2	P3	P7	P8	M1	M2	N2	N3	N4	N5	N6	S1	S2
●	●	●	○	○	●	○	●	●	○	●	●	○	○

Tech. Code	Description	Pieces
A1141SET110	Drill bit assortment art. no. A1140 from 1.00 to 10.00 x 0.5	19
A1141SET113	Drill bit assortment art. no. A1140 from 1.00 to 13.00 x 0.5	25
A1141SET15,9	Drill bit assortment art. no. A1140 from 1.00 to 5.90 x 0.1	50
A1141SET610	Drill bit assortment art. no. A1140 6.00 to 10.00 x 0.1	41



JOBBER DRILLS KIT

KERFOLG

TOOL TYPE	MATERIAL	DIN	HELIX TYPE	POINT ANGLE	NOF	SHANK	COATING
N	HSS	338	N/R	118°		DIN 6535 HA	TiN

P1	P2	P3	P4	P5	P6	K1	K2	K3	N8	O1	O2
●	●	●	●	○	○	●	●	○	●	○	○

Tech. Code	Description	Pieces	D mm
A1181SET110	Assortment item A1180	19	1,00 ÷ 10,00 x 0,5
A1181SET113	Assortment item A1180	25	1,00 ÷ 13,00 x 0,5



TAPS DRILL-OUT TOOLS

WRK

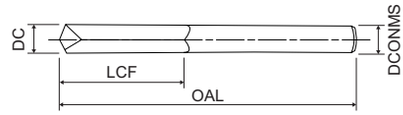
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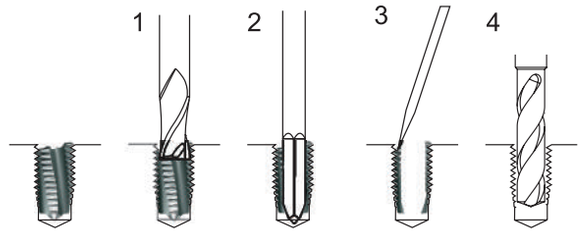


This solid carbide tool is designed to destroy broken taps inside holes.
Machining is normally performed dry.

For optimum centring, the following procedure should be followed:

- (1) Flatten the broken tap, using the tool
  largest size tool or an end mill of the same size.
- (2) Choose the appropriate tap-destroying tool and perform the operation, taking care that the
  the operation taking care that the rigidity in machining is maximum.
  We recommend a cutting speed not exceeding 45 m/min and a
  feed rate of 0.03 to 0.05 mm.
- (3) Remove any pieces of tap remaining along the walls using
  using a pointed tool.
- (4) When the operation is complete, it is recommended to re-drill the hole with a drill
  of the same size as the tapping pre-hole.





Tech. Code	For thread	DC mm	DCONMS mm	OAL mm	LCF mm
A18103	M4 - M5	3	3	50	15
A18104	M6	4	4	50	20
A18104,5	M8	4,5	4,5	50	20
A18105	M10	5	5	50	25

Tech. Code	For thread	DC mm	DCONMS mm	OAL mm	LCF mm
A18106	M12	6	6	60	30
A18108	M14 - M16	8	8	80	30
A181010	M18 - M20	10	10	100	35
A181012	M22 - M24	12	12	100	35

TAPS DRILL-OUT KIT

WRK

Cylindrical	D mm	Pieces
A1811KIT	3 ÷ 6	5





ICON LEGEND THREADING TOOLS

The icons shown are a summary of what is included on the individual product pages

THREAD TYPE

ASME B1.1 UNC	Unified coarse thread UNC ASME B1.1
ASME B1.1 UNF	Unified fine thread UNF ASME B1.1
ASME B1.20.1 NPT	National pipe thread, taper 1:16 ASME/ANSI B1.20.1
BS 84 BSW	British standard Whitworth 55°
DIN8140-2 EG M	WIRE INSERT THREAD 60°
ISO 7-1 BSPT	Bspt withworth 55°
DIN13 M	ISO Metric corse thread
DIN13 MF	ISO Metric fine thread
DIN 40430 PG	Armored pipe 80°
EN ISO 228 G	Whitworth pipe thread EN ISO 228

COATING

COATING KX2	Brown multilayer coating for excellent wear and oxidation resistance. Lower friction coefficient for easier chip flow.
COATING TiN	Titanium nitride coating for very good hardness and friction coefficient. For wear resistance
COATING KX1	Black multilayer coating for excellent wear and oxidation resistance. Lower friction coefficient for easier chip flow.
COATING TiCN	Titanium carbonitride coating for very good hardness and friction coefficient. For higher wear resistance
COATING WX2	Black monolayer coating for excellent wear and oxidation resistance. Lower friction coefficient for easier chip flow.
COATING NIT+VAP	Combination of vaporization and surface hardening for excellent wear resistance and simplified chip flow.
COATING VAP	Surface oxidation for very low friction coefficient. Easier chip flow.
COATING NITR	Surface hardening for higher wear resistance. Longer tool life.
COATING BRIGHT	No treatment - Bright

SHANK

SHANK DIN 2174 (371-374)	Standard for forming taps for standard ISO metric threads and ISO metric fine threads.
SHANK DIN 2174 (371-376)	Standard for forming taps for standard ISO metric threads and ISO metric fine threads
SHANK DIN 2184-1	Standard for machine taps for standard Unified coarse and fine pitch ASME B1.1 EN ISO 228
SHANK DIN 22568	DIN 22568
SHANK DIN 24231	DIN 24231
SHANK DIN 352	Standard for hand and machine taps for standard ISO metric threads. Short version
SHANK DIN 357	DIN 357
SHANK DIN 371 DIN 376	Standard for machine taps with reinforced and reduced shank for standard ISO metric threads and ISO metric fine threads.
SHANK DIN 374	Standard for machine taps with reduced shank (machine nut tap) for ISO metric fine threads.
SHANK DIN 40432	DIN 40432
SHANK DIN 40435	DIN 40435
SHANK DIN 5156	Standard for machine taps for pipe thread to DIN EN ISO 228 and for taps for pipe thread to DIN EN 10226.
SHANK DIN 5157	Standard for machine taps for BSPP threads to DIN ISO 228 and for BSP threads to DIN EN 10 226-1. Short version.
SHANK DIN 2189	Standard for forming taps for standard G - Whitworth pipe thread EN ISO 228
SHANK Factory Standard	Factory standard

MATERIALS

MATERIAL HSSE	Conventional high speed steel
MATERIAL PM-K	Powder metallurgy high speed steel
MATERIAL PM	Powder metallurgy high speed steel
MATERIAL PM-P	High performance powder metallurgy high speed steel
MATERIAL PM-Z	High performance powder metallurgy high speed steel
MATERIAL HSS	Conventional high speed steel
MATERIAL HM	Solide carbide

HOLE TYPE

HOLE TYPE	Blind and through hole
HOLE TYPE	Blind hole
HOLE TYPE	Through hole

TOOL TYPE

TOOL TYPE Cutting	Cutting tap
TOOL TYPE Cutting die	Thread-cutting die
TOOL TYPE Forming	Forming tap

CHAMFER

CHAMFER 1.75 x P	Chamfer 1,75 x P
CHAMFER A-C	Hand taps. A: 5-6 C:2-3 chamfer forms, from rougher to finisher.
CHAMFER A-D-C	Hand taps. A: 5-6 D: 4-5 C:2-3 chamfer forms, from rougher to finisher.
CHAMFER B 4-5	Chamfer form B: 4 - 5 threads for through holes
CHAMFER B 18-20	Medium-length B 18 - 20 for through holes
CHAMFER C 2-3	Chamfer form C: 2 - 3 threads for blind and through holes
CHAMFER E 1,5-2	Chamfer form E: 1,5 - 2 threads for blind holes

TOLERANCE

TOLERANCE 6GX	Tolerance 6GX
TOLERANCE 6HX	Tolerance 6HX

FLUTES

FLUTES Helical 15°	Tap with 15° right hand spiral
FLUTES Straight	Tap with straight flutes

GEOMETRY

GEOMETRY Spiral flutes	Spiral flutes tap
GEOMETRY Spiral pointed	Spiral pointed tap

DEPTH

DEPTH < 1,5xD	Up to 1,5 x d1
DEPTH < 3,5xD	Up to 3,5 x d1

ROTATION

ROTATION LH	Left hand rotation
ROTATION RH	Right hand rotation

PITCH Cross	Tap with interrupted thread
REAR Back tapering	Back tapered tap

COOLANT

COOLANT Internal	Internal coolant
COOLANT Oil grooves	Forming tap with oil grooves

PROCESS Synchro	Only for rigid tapping

CHAPTER A – TAP SECTION – LIST OF APPLICATIONS

		Range code	Tool article	Thread type	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	Shank type	Thread range	Chamfer form and length	Hole type	Hand rotation	Tolerance	Coating	Tool type	Coolant	Page
	KERFOLG	A2220	KPT M	DIN13 - M	○	●						HSSE	DIN 371 DIN 376	M3 - M20	B 4/5		RH	6HX	KX2	Cutting Tap		51
	KERFOLG	A2225	KPT M	DIN13 - M	○	●						HSSE	DIN 371 DIN 376	M3 - M20	C 2/3		RH	6HX	KX2	Cutting Tap		51
	KERFOLG	A2230	KPT M	DIN13 - M	●	●	○	○				HSSE	DIN 371 DIN 376	M2 - M20	B 4/5		RH	ISO2-6H	TiN	Cutting Tap		51
	KERFOLG	A2235	KPT M	DIN13 - M	●	●	○	○				HSSE	DIN 371 DIN 376	M2 - M20	C 2/3		RH	ISO2-6H	TiN	Cutting Tap		52
	KERFOLG	A2260	KPT M	DIN13 - M	○			●				HSSE	DIN 371 DIN 376	M3 - M16	B 4/5		RH	ISO2-6H	KX1	Cutting Tap		52
	KERFOLG	A2265	KPT M	DIN13 - M	○			●				HSSE	DIN 371 DIN 376	M3 - M20	C 2/3		RH	ISO2-6H	KX1	Cutting Tap		52
	KERFOLG	A2320	KPT M	DIN13 - M			●	○				PM-K	DIN 371 DIN 376	M3 - M16	C 2/3		RH	6HX	TiCN	Cutting Tap		53
	KERFOLG	A2161	KPT M	DIN13 - M	●	●	○					PM	DIN 371 DIN 376	M3 - M24	B 4/5		RH	ISO2-6H	TiN	Cutting Tap		53
	KERFOLG	A2166	KPT M	DIN13 - M	●	●	○					PM	DIN 371 DIN 376	M3 - M24	C 2/3		RH	ISO2-6H	TiN	Cutting Tap		53
	KERFOLG	A2170	KPT M	DIN13 - M	●		●	●	●			PM-P	DIN 371 DIN 376	M5 - M20	C 2/3		RH	6HX	KX1	Cutting Tap	Internal Coolant	53
	KERFOLG	A2190	KPT M	DIN13 - M	●	○	●	○				PM-P	DIN 371 DIN 376	M2 - M20	B 4/5		RH	6HX	TiCN	Cutting Tap		54
	KERFOLG	A2195	KPT M	DIN13 - M	●	○	●	○	○			PM-P	DIN 371 DIN 376	M3 - M20	C 2/3		RH	6HX	TiCN	Cutting Tap		54
	KERFOLG	A2245	KPT M	DIN13 - M					●	○		PM	DIN 371 DIN 376	M3 - M10	B 4/5		RH	6HX	TiCN	Cutting Tap		54
	KERFOLG	A2246	KPT M	DIN13 - M					●	○		PM	DIN 371 DIN 376	M3 - M10	C 2/3		RH	6HX	TiCN	Cutting Tap		54
	KERFOLG	A2430	KPT MF	DIN13 - MF	●	●						HSSE	DIN 374	M8 - M20	B 4/5		RH	ISO2-6H	KX2	Cutting Tap		55
	KERFOLG	A2435	KPT MF	DIN13 - MF	●	●						HSSE	DIN 374	M8 - M20	C 2/3		RH	ISO2-6H	KX2	Cutting Tap		55
	KERFOLG	A2520	KPT UNC	ASME B1.1 - UNC	●	●						HSSE	DIN 2184-1	1/4" - 3/4"	C 2/3		RH	2B	KX2	Cutting Tap		55
	KERFOLG	A2560	KPT UNF	ASME B1.1 - UNF	●	●						HSSE	DIN 2184-1	1/4" - 3/4"	C 2/3		RH	2B	KX2	Cutting Tap		55
	KERFOLG	A2620	KPT G	EN ISO 228 - G	●	●						HSSE	DIN 5156	1/8" - 1"	B 4/5		RH	ISO 5969	KX2	Cutting Tap		56
	KERFOLG	A2625	KPT G	EN ISO 228 - G	●	●						HSSE	DIN 5156	1/8" - 1"	C 2/3		RH	ISO 5969	KX2	Cutting Tap		56
	KERFOLG	A2360	KPT M	DIN13 - M	●	●						PM-Z	DIN 2174 (371-376)	M4 - M16	C 2/3		RH	6HX	WX2	Forming Tap	Oil Grooves	56

	KERFOLG	A2350	KPT M	DIN13 - M	●			●				HSSE	DIN 2174 (371-376)	M3 - M16	C 2/3		RH	6HX	TiN	Forming Tap		56
	KERFOLG	A2351	KPT M	DIN13 - M	●			●				HSSE	DIN 2174 (371-376)	M3 - M10	C 2/3		RH	6GX	TiN	Forming Tap	Oil Grooves	57
	KERFOLG	A2358	KPT M	DIN13 - M	●	●		●	●			PM-K	DIN 2174 (371-376)	M2 - M16	C 2/3		RH	6HX	TiN	Forming Tap	Oil Grooves	57
	KERFOLG	A2362	KPT M	DIN13 - M	●	●		●	●			PM-K	DIN 2174 (371-376)	M3 - M10	E 1,5/2		RH	6HX	TiN	Forming Tap		57
	KERFOLG	A2457	KPT MF	DIN13 - MF	●			●				HSSE	DIN 2174 (371-374)	M8 - M16	C 2/3		RH	6HX	TiN	Forming Tap	Oil Grooves	57
	KERFOLG	A2640	KPT G	EN ISO 228 - G	●			●				HSSE	DIN 2189	1/8" - 1/2"	C 2/3		RH	ISO 5969X	TiN	Forming Tap	Oil Grooves	58

CHAPTER A – TAP SECTION – LIST OF APPLICATIONS

		Range code	Tool article	Thread type	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	Shank type	Thread range	Chamfer form and length	Hole type	Hand rotation	Tolerance	Coating	Tool type	Coolant	Page
	KERFOLG	A2102	KUT M	DIN13 - M	●	●	●	●				HSSE	DIN 371 DIN 376	M2 - M30	B 4/5		RH	ISO2-6H	NIT+VAP	Cutting Tap		58
	KERFOLG	A2103	KUT M	DIN13 - M	●	●	●	●				HSSE	DIN 371 DIN 376	M2 - M30	C 2/3		RH	ISO2-6H	NIT+VAP	Cutting Tap		58
	KERFOLG	A2104	KUT M	DIN13 - M	●	●	●	●				HSSE	DIN 371 DIN 376	M2 - M30	B 4/5		RH	ISO2-6H	TiN	Cutting Tap		59
	KERFOLG	A2105	KUT M	DIN13 - M	●	●	●	●				HSSE	DIN 371 DIN 376	M2 - M30	C 2/3		RH	ISO2-6H	TiN	Cutting Tap		59
	KERFOLG	A2226	KUT M	DIN13 - M	●	●		●	●			HSSE	DIN 371 DIN 376	M3 - M16	B 4/5		RH	6HX	KX2	Cutting Tap		59
	KERFOLG	A2227	KUT M	DIN13 - M	●	●		●	●			HSSE	DIN 371 DIN 376	M3 - M16	C 2/3		RH	6HX	KX2	Cutting Tap		60
	KERFOLG	A2152	KUT M	DIN13 - M	●	●	●	●	●			PM-K	DIN 371 DIN 376	M3 - M16	B 4/5		RH	6HX	KX1	Cutting Tap		60
	KERFOLG	A2157	KUT M	DIN13 - M	●	●	●	●	●			PM-K	DIN 371 DIN 376	M3 - M16	C 2/3		RH	6HX	KX1	Cutting Tap		60
	KERFOLG	A2175	KUT M	DIN13 - M	●	●	●	●				PM-P	DIN 371 DIN 376	M3 - M20	B 4/5		RH	6HX	KX1	Cutting Tap		61
	KERFOLG	A2180	KUT M	DIN13 - M	●	●	●	●	●			PM-Z	DIN 371 DIN 376	M3 - M20	C 2/3		RH	6HX	KX1	Cutting Tap		61
	KERFOLG	A2182	KUT M	DIN13 - M	●	●	●	●	●			PM-Z	DIN 371 DIN 376	M3 - M20	E 1,5/2		RH	6HX	KX1	Cutting Tap		61
	KERFOLG	A2450	KUT MF	DIN13 - MF	●	●	●	○				HSSE	DIN 374	M6 - M24	B 4/5		RH	ISO2-6H	NIT+VAP	Cutting Tap		62
	KERFOLG	A2455	KUT MF	DIN13 - MF	●	●	●	○				HSSE	DIN 374	M6 - M24	C 2/3		RH	ISO2-6H	NIT+VAP	Cutting Tap		62
	KERFOLG	A2445	KUT MF	DIN13 - MF	●	●	●	●	●			PM-Z	DIN 374	M8 - M16	C 2/3		RH	6HX	KX1	Cutting Tap		62
	KERFOLG	A2611	KUT G	EN ISO 228 - G	●	●	●	●				HSSE	DIN 5156	1/8" - 3/4"	B 4/5		RH	ISO 5969	NIT+VAP	Cutting Tap		62
	KERFOLG	A2616	KUT G	EN ISO 228 - G	●	●	●	●				HSSE	DIN 5156	1/8" - 3/4"	C 2/3		RH	ISO 5969	NIT+VAP	Cutting Tap		63

CHAPTER A – TAP SECTION – LIST OF APPLICATIONS

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	KERFOLG	A2060	KST M	DIN13 - M	●		●					HSSE	DIN 371 DIN 376	M3 - M20	C 2/3		LH	ISO2-6H	BRIGHT	Cutting Tap		63
	KERFOLG	A2110	KST M	DIN13 - M	●		●	○				HSSE	DIN 371 DIN 376	M2 - M36	B 4/5		RH	ISO2-6H	VAP	Cutting Tap		63
	KERFOLG	A2120	KST M	DIN13 - M	●		●	○				HSSE	DIN 371 DIN 376	M2 - M36	C 2/3		RH	ISO2-6H	VAP	Cutting Tap		64
	KERFOLG	A2130	KST M	DIN13 - M	●	●	●	●				HSSE	DIN 371 DIN 376	M2 - M33	B 4/5		RH	ISO2-6H	TiN	Cutting Tap		64
	KERFOLG	A2135	KST M	DIN13 - M	●	●	●	●				HSSE	DIN 371 DIN 376	M2 - M30	C 2/3		RH	ISO2-6H	TiN	Cutting Tap		64
	KERFOLG	A2080	KST M	DIN13 - M	●			○				HSSE	NDF	M4 - M12	B 4/5		RH	ISO2-6H	BRIGHT	Cutting Tap		65
	KERFOLG	A2085	KST M	DIN13 - M	●			○				HSSE	NDF	M4 - M12	C 2/3		RH	ISO2-6H	BRIGHT	Cutting Tap		65
	KERFOLG	A2210	KST M	DIN13 - M	●		●	●				HSSE	DIN 371 DIN 376	M2 - M30	B 4/5		RH	ISO2-6H	VAP	Cutting Tap		65
	KERFOLG	A2215	KST M	DIN13 - M	●		●	●				HSSE	DIN 371 DIN 376	M2 - M30	C 2/3		RH	ISO2-6H	VAP	Cutting Tap		66
	KERFOLG	A2250	KST M	DIN13 - M	○			●				HSSE	DIN 371 DIN 376	M3 - M16	C 2/3		RH	ISO2-6H	BRIGHT	Cutting Tap		66
	KERFOLG	A2255	KST M	DIN13 - M				●	○			HSSE	DIN 371 DIN 376	M2 - M14	C 2/3		RH	ISO2-6H	BRIGHT	Cutting Tap		66
	KERFOLG	A2310	KST M	DIN13 - M			●	○				HSSE	DIN 371 DIN 376	M3 - M33	C 2/3		RH	6HX	NITR	Cutting Tap		67
	KERFOLG	A2160	KST M	DIN13 - M	●	○	●	○				PM-P	DIN 371 DIN 376	M3 - M20	B 4/5		RH	6HX	BRIGHT	Cutting Tap		67
	KERFOLG	A2165	KST M	DIN13 - M	●	○	●	○				PM-Z	DIN 371 DIN 376	M3 - M24	C 2/3		RH	6HX	BRIGHT	Cutting Tap		67
	KERFOLG	A2022	KST M	DIN13 - M	●			●				HSSE	DIN 371 DIN 376	M3 - M16	B 4/5		RH	6H +0,1mm	BRIGHT	Cutting Tap		68
	KERFOLG	A2042	KST M	DIN13 - M	●			●				HSSE	DIN 371 DIN 376	M4 - M16	C 2/3		RH	6H +0,1mm	BRIGHT	Cutting Tap		68
	KERFOLG	A2814	KST M	DIN13 - M	●		●	●				HSS	DIN 352	M2 - M30	A-D-C		RH	ISO2-6H	BRIGHT	Cutting Tap		68
	KERFOLG	A2818	KST M	DIN13 - M	●	●	●	●	●			HSSE	DIN 352	M2 - M20	C 2/3		RH	ISO2-6H	BRIGHT	Cutting Tap		69
	KERFOLG	A2410	KST MF	DIN13 - MF	●		●	●				HSSE	DIN 374	M4 - M30	B 4/5		RH	ISO2-6H	VAP	Cutting Tap		69
	KERFOLG	A2415	KST MF	DIN13 - MF	●		●	●				HSSE	DIN 374	M6 - M30	C 2/3		RH	ISO2-6H	VAP	Cutting Tap		69
	KERFOLG	A2432	KST MF	DIN13 - MF	●	●	●	●				HSSE	DIN 374	M6 - M20	B 4/5		RH	ISO2-6H	TiN	Cutting Tap		70
	KERFOLG	A2425	KST MF	DIN13 - MF	●	●	●	●				HSSE	DIN 374	M6 - M20	C 2/3		RH	ISO2-6H	TiN	Cutting Tap		70
	KERFOLG	A2420	KST MF	DIN13 - MF	●		●					HSSE	DIN 374	M6 - M20	C 2/3		LH	ISO2-6H	BRIGHT	Cutting Tap		70
	KERFOLG	A2510	KST UNC	ASME B1.1 - UNC	●		●	●				HSSE	DIN 2184-1	1/4" - 1"	B 4/5		RH	2B	BRIGHT	Cutting Tap		71
	KERFOLG	A2617	KST UNC	ASME B1.1 - UNC	●		●	●				HSSE	DIN 2184-1	1/4" - 1"	C 2/3		RH	2B	BRIGHT	Cutting Tap		71
	KERFOLG	A2550	KST UNF	ASME B1.1 - UNF	●		●	●				HSSE	DIN 2184-1	1/4" - 1"	B 4/5		RH	2B	BRIGHT	Cutting Tap		71

CHAPTER A – TAP SECTION – LIST OF APPLICATIONS

		Range code	Tool article	Thread type	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	Shank type	Thread range	Chamfer form and length	Hole type	Hand rotation	Tolerance	Coating	Tool type	Coolant	Page
	KERFOLG	A2555	KST UNF	ASME B1.1 - UNF	●		●	●				HSSE	DIN 2184-1	1/4" - 1"	C 2/3		RH	2B	BRIGHT	Cutting Tap		71
	KERFOLG	A2610	KST G	EN ISO 228 - G	●		●	●				HSSE	DIN 5156	1/8" - 1 1/2"	B 4/5		RH	ISO 5969	BRIGHT	Cutting Tap		72
	KERFOLG	A2615	KST G	EN ISO 228 - G	●		●	●				HSSE	DIN 5156	1/8" - 2 1/2"	C 2/3		RH	ISO 5969	BRIGHT	Cutting Tap		72
	KERFOLG	A2825	KST G	EN ISO 228 - G	●		●	●				HSS	DIN 5157	1/8" - 1"	A-C		RH	ISO 5969	BRIGHT	Cutting Tap		72
	KERFOLG	A2650	KST NPT	ASME B1.20.1 - NPT	●		●					HSSE	NDF	1/16" - 1 1/2"	C 2/3		RH	-	BRIGHT	Cutting Tap		73
	KERFOLG	A2655	KST NPT	ASME B1.20.1 - NPT	●	●		●				HSSE	DIN 374	1/16" - 1"	C 2/3		RH	-	BRIGHT	Cutting Tap		73
	WRK	A2010	-	DIN13 - M	●		●	●				HSSE	DIN 371 DIN 376	M2 - M42	C 2/3		RH	ISO2-6H	BRIGHT	Cutting Tap		74
	WRK	A2020	-	DIN13 - M	●		●	●				HSSE	DIN 371 DIN 376	M2 - M20	B 4/5		RH	ISO2-6H	BRIGHT	Cutting Tap		74
	WRK	A2030	-	DIN13 - M	●	○	●	○				HSSE	DIN 371 DIN 376	M2 - M30	C 2/3		RH	ISO2-6H	BRIGHT	Cutting Tap		74
	WRK	A2040	-	DIN13 - M	●		●	●				HSSE	DIN 371 DIN 376	M2 - M20	C 2/3		RH	ISO2-6H	BRIGHT	Cutting Tap		75
	WRK	A2125	-	DIN13 - M	●	○		●				HSSE	DIN 371 DIN 376	M3 - M24	B 4/5		RH	ISO2-6H	TiN	Cutting Tap		75
	WRK	A2128	-	DIN13 - M	●	○		●				HSSE	DIN 357	M3 - M24	C 2/3		RH	ISO2-6H	TiN	Cutting Tap		75
	WRK	A2070	-	DIN13 - M	●							HSSE	DIN 357	M4 - M16	B 18-20		RH	ISO2-6H	BRIGHT	Cutting Tap		76
	WRK	A2660	-	DIN 40430 - PG	●			●				HSSE	DIN 40432	7 - 21	C 2/3		RH	-	BRIGHT	Cutting Tap		76
	WRK	A2671	-	DIN 8140-2 - EG M	●		●	●				HSSE	DIN 40435	M3 - M16	C 2/3		RH	FR 6H	BRIGHT	Cutting Tap		76
	WRK	A2840	-	DIN13 - M	●			○				HSSE	NDF	M3 - M12	C 2/3		RH	ISO2-6H	BRIGHT	Cutting Tap		76

CHAPTER A – TAP SECTION – LIST OF APPLICATIONS

		Range code	Tool article	Thread type	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	Shank type	Thread range	Chamfer form and length	Hole type	Hand rotation	Tolerance	Coating	Tool type	Coolant	Page
	KERFOLG	A2910	-	DIN13 - M	●	○		○				HSS	-	M2 - M39	1,75 x P		RH	ISO 6G	BRIGHT	Cutting Die		77
	KERFOLG	A2911	-	DIN13 - MF	●	○		○				HSS	-	MF3 - MF40	1,75 x P		RH	ISO 6G	BRIGHT	Cutting Die		77
	KERFOLG	A2915	-	DIN13 - M	●	○		○				HSS	-	M2 - M30	1,75 x P		LH	ISO 6G	BRIGHT	Cutting Die		77
	KERFOLG	A2916	-	DIN13 - MF	●	○		○				HSS	-	MF8 - MF24	1,75 x P		LH	ISO 6G	BRIGHT	Cutting Die		78
	KERFOLG	A2912	-	DIN13 - M	○	●		○				HSSE	-	M3 - MF10	1,75 x P		RH	ISO 6G	BRIGHT	Cutting Die		78
	KERFOLG	A2914	-	DIN13 - M	●	○	○	○				HSS	-	M3 - M20	1,75 x P		RH	ISO 6G	TiN	Cutting Die		78
	KERFOLG	A2913	-	DIN13 - MF	●	○		○				HSS	-	MF8 - MF20	1,75 x P		RH	ISO 6G	TiN	Cutting Die		78
	KERFOLG	A2920	-	EN ISO 228 - G	●	○	○	○				HSS	-	1/8" - 1 1/2"	1,75 x P		RH	Classe A	BRIGHT	Cutting Die		79
	KERFOLG	A2925	-	ASME B1.1 - UNC	●	○	○	○				HSS	-	1/4" - #12	1,75 x P		RH	Classe 2A	BRIGHT	Cutting Die		79
	KERFOLG	A2927	-	ASME B1.1 - UNF	●	○	○	○				HSS	-	1/4" - #12	1,75 x P		RH	Classe 2A	BRIGHT	Cutting Die		79
	KERFOLG	A2930	-	BS 84 - BSW	●	○	○	○				HSS	-	3/32" - 7/8"	1,75 x P		RH	Classe 2A	BRIGHT	Cutting Die		79
	KERFOLG	A2935	-	DIN 40430 - PG	●	○	○	○				HSS	-	7 - 21	1,75 x P		RH	-	BRIGHT	Cutting Die		80
	KERFOLG	A2940	-	ISO 7-1 - BSPT	●	○	○	○				HSS	-	1/8" - 1"	1,75 x P		RH	-	BRIGHT	Cutting Die		80
	KERFOLG	A2945	-	ASME B1.20.1 - NPT	●	○	○	○				HSS	-	1/8" - 1 1/2"	1,75 x P		RH	-	BRIGHT	Cutting Die		80

	KERFOLG	A3013	-	DIN13 - M DIN13 - MF	●	●	●	●	●	●		HM	-	3,10 - 16,00				-	WIND+			81
	KERFOLG	A3016	-	EN ISO 228 - G	●	●	●	●	●	●		HM	-	8 - 20				-	WIND+			81
	KERFOLG	A3021	-	ASME B1.20.1 - NPT	●	●	●	●	●	●		HM	-	5,90 - 19,60				-	WIND+			81
	KERFOLG	A3024	-	ASME B1.1 - UNC ASME B1.1 - UNF	●	●	●	●	●	●		HM	-	4,50 - 20,00				-	WIND+			81

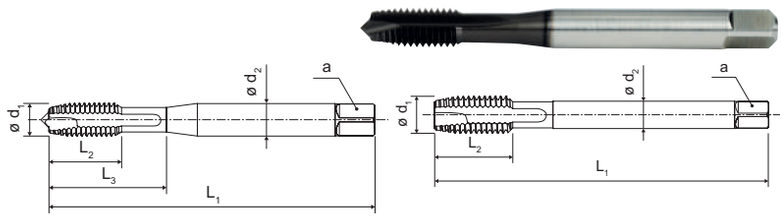
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	KX2	< 2,5xD	RH

P7	M1	M2	M3
18 - 20	18 - 20	10 - 20	10 - 20



DIN371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2220M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2220M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2220M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2220M6	M6	1	80	16	29	6	4,9	3	5
A2220M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2220M10	M10	1,5	100	20	36	10	8	3	8,5

DIN376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2220M12	M12	1,75	110	25		9	7	3	10,2
A2220M14	M14	2	110	25		11	9	3	12
A2220M16	M16	2	110	28		12	9	3	14
A2220M18	M18	2,5	125	32		14	11	4	15,5
A2220M20	M20	2,5	140	32		16	12	4	17,5

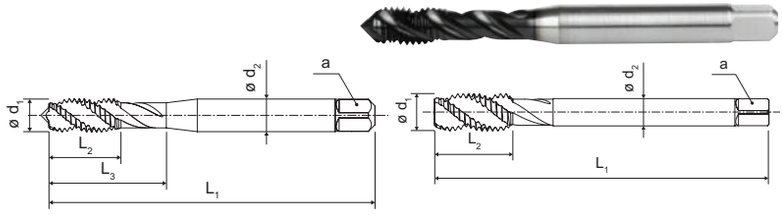
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	KX2	< 2,5xD	RH

P7	M1	M2	M3
8 - 10	8 - 10	5 - 7	5 - 7



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2225M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2225M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2225M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2225M6	M6	1	80	16	29	6	4,9	3	5
A2225M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2225M10	M10	1,5	100	20	36	10	8	3	8,5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2225M12	M12	1,75	110	24		9	7	3	10,2
A2225M14	M14	2	110	25		11	9	4	12
A2225M16	M16	2	110	28		12	9	4	14
A2225M18	M18	2,5	125	32		14	11	4	15,5
A2225M20	M20	2,5	140	32		16	12	4	17,5

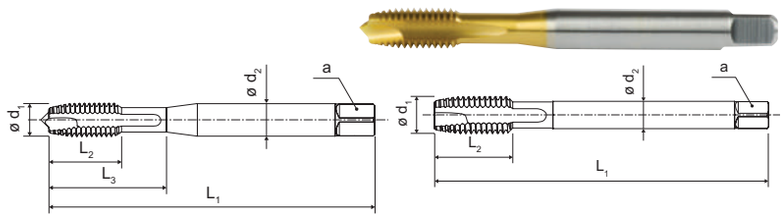
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	TiN	< 2,5xD	RH

P2	P3	P4	P5	P7	M1	M2	K2	N2	N3	N6
30 - 35	25 - 30	20 - 25	10 - 15	10 - 15	10 - 15	5 - 7	25 - 30	30 - 35	25 - 30	30 - 35



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2230M2	M2	0,4	45	7	11	2,8	2,1	2	1,6
A2230M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2230M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2230M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2230M6	M6	1	80	16	29	6	4,9	3	5
A2230M8	M8	1,25	90	18	33	8	6,2	3	6,8

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2230M10	M10	1,5	100	20	36	10	8	3	8,5
A2230M12	M12	1,75	110	24		9	7	3	10,2
A2230M14	M14	2	110	25		11	9	4	12
A2230M16	M16	2	110	28		12	9	4	14
A2230M20	M20	2,5	140	32		16	12	4	17,5

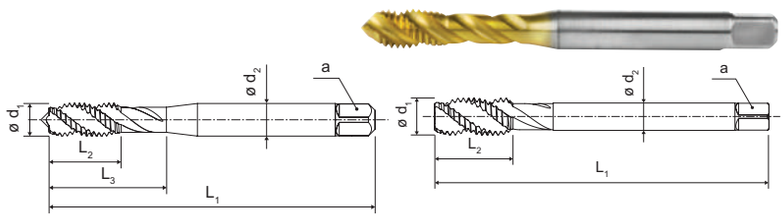
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	TiN	< 2,5xD	RH

P2	P3	P4	P5	P7	M1	M2	K2	N2	N3	N6
25 - 30	20 - 25	15 - 20	5 - 10	8 - 10	8 - 10	5 - 7	20 - 25	25 - 30	25 - 30	25 - 30



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2235M2	M2	0,4	45	6	12	2,8	2,1	3	1,6
A2235M2,5	M2,5	0,45	50	6,5	15	2,8	2,1	3	2,05
A2235M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2235M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2235M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2235M6	M6	1	80	12	29	6	4,9	3	5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2235M8	M8	1,25	90	15	33	8	6,2	3	6,8
A2235M10	M10	1,5	100	17,5	38	10	8	3	8,5
A2235M12	M12	1,75	110	18		9	7	4	10,2
A2235M14	M14	2	110	20,5		11	9	4	12
A2235M16	M16	2	110	20,5		12	9	4	14
A2235M20	M20	2,5	140	29,5		16	12	4	17,5

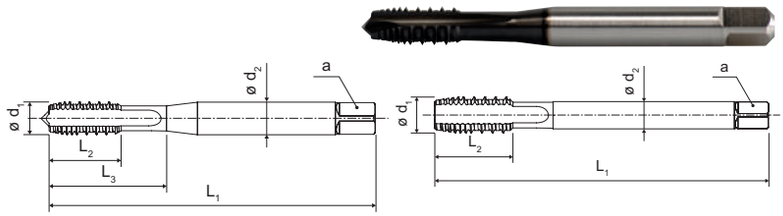
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	KX1	< 2,5xD	RH

P1	N1	N2	N5	N6
30 - 35	30 - 40	30 - 40	30 - 35	30 - 35



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2260M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2260M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2260M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2260M6	M6	1	80	16	29	6	4,9	3	5
A2260M8	M8	1,25	90	18	33	8	6,2	3	6,8

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2260M10	M10	1,5	100	20	36	10	8	3	8,5
A2260M12	M12	1,75	110	24		9	7	3	10,2
A2260M14	M14	2	110	25		11	9	3	12
A2260M16	M16	2	110	28		12	9	3	14

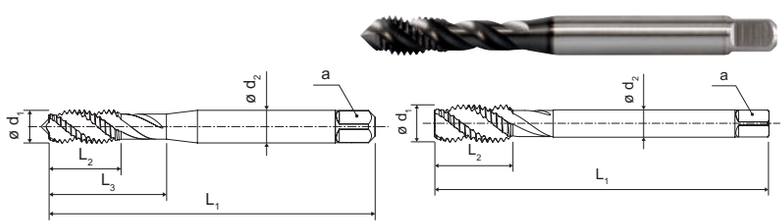
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	KX1	< 2,5xD	RH

P1	N1	N2	N3	N5	N6
25 - 30	25 - 30	25 - 30	25 - 30	20 - 25	20 - 25



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2265M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2265M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2265M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2265M6	M6	1	80	12	29	6	4,9	3	5
A2265M8	M8	1,25	90	15	33	8	6,2	3	6,8
A2265M10	M10	1,5	100	17,5	38	10	8	3	8,5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2265M12	M12	1,75	110	18		9	7	3	10,2
A2265M14	M14	2	110	20,5		11	9	3	12
A2265M16	M16	2	110	20,5		12	9	3	14
A2265M18	M18	2,5	125	25,5		14	11	3	15,5
A2265M20	M20	2,5	140	29,5		16	12	3	17,5

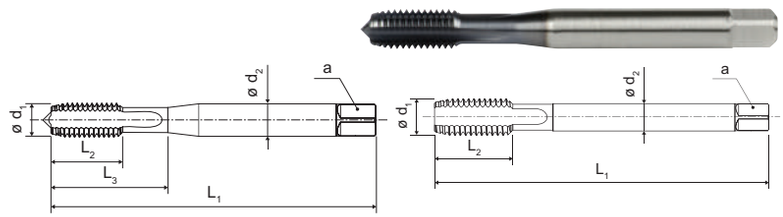
STRAIGHT FLUTE TAPS FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-K	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	COATING	DEPTH	ROTATION
Cutting	C 2-3	Straight	TiCN	< 2,5xD	RH

K1	N4	N7	N9	N10
40 - 45	40 - 45	40 - 45	45 - 50	45 - 50



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2320M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2320M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2320M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2320M6	M6	1	80	16	29	6	4,9	4	5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2320M8	M8	1,25	90	18	33	8	6,2	4	6,8
A2320M10	M10	1,5	100	20	36	10	8	4	8,5
A2320M12	M12	1,75	110	24		9	7	4	10,2
A2320M16	M16	2	110	28		12	9	4	14

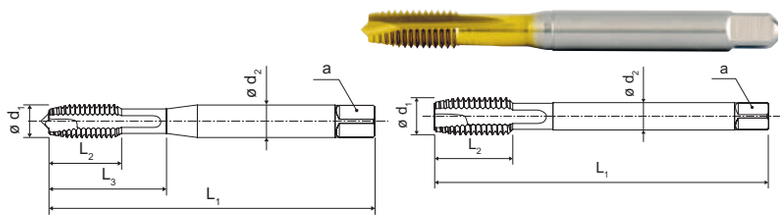
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	PM	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	TiN	< 3xD	RH

P4	P5	P7	P8	M1	M2	M3	K1	K2
15 - 20	15 - 20	10 - 15	5 - 10	8 - 15	5 - 10	5 - 10	15 - 25	15 - 20



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2161M03	M3	0,5	56	11	18	3,5	2,7	3	2,5
A2161M04	M4	0,7	63	13	21	4,5	3,4	3	3,3
A2161M05	M5	0,8	70	15	25	6	4,9	3	4,2
A2161M06	M6	1	80	17	30	6	4,9	3	5
A2161M08	M8	1,25	90	20	35	8	6,2	3	6,8

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2161M10	M10	1,5	100	22	39	10	8	3	8,5
A2161M12	M12	1,75	110	24		9	7	3	10,2
A2161M16	M16	2	110	27		12	9	4	14
A2161M20	M20	2,5	140	32		16	12	4	17,5
A2161M24	M24	3	160	34		18	14,5	4	21

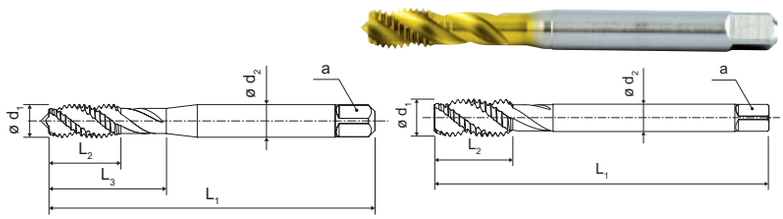
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	PM	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	TiN	< 2,5xD	RH

P4	P5	P7	P8	M1	M2	M3	K1	K2
15 - 20	15 - 20	10 - 15	5 - 8	8 - 12	5 - 10	5 - 10	15 - 25	15 - 20



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2166M03	M3	0,5	56	5	18	3,5	2,7	3	2,5
A2166M04	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2166M05	M5	0,8	70	8	25	6	4,9	3	4,2
A2166M06	M6	1	80	10	30	6	4,9	3	5
A2166M08	M8	1,25	90	12,5	35	8	6,2	3	6,8

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2166M10	M10	1,5	100	15	39	10	8	3	8,5
A2166M12	M12	1,75	110	17,5		9	7	3	10,2
A2166M16	M16	2	110	20		12	9	4	14
A2166M20	M20	2,5	140	25		16	12	4	17,5
A2166M24	M24	3	160	30		18	14,5	4	21

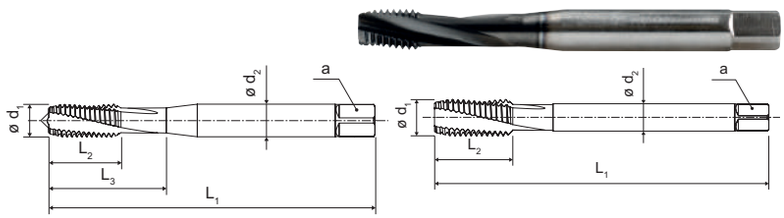
SPIRAL FLUTE 15° TAP FOR BLIND HOLES - COOLANT HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-P	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	COOLANT	ROTATION
Cutting	C 2-3	Helical 15°	Spiral flutes	KX1	< 2xD	Internal	RH

P3	P4	P5	P6	P7	K2	N3	N6	N7	S2	S4	S5
25 - 30	20 - 25	10 - 15	5 - 10	10 - 15	25 - 30	25 - 30	25 - 30	20 - 25	2 - 3	2 - 3	2 - 3



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2170M5	M5	0,8	70	9	25	6	4,9	3	4,2
A2170M6	M6	1	80	11	30	6	4,9	3	5
A2170M8	M8	1,25	90	12	35	8	6,2	3	6,8
A2170M10	M10	1,5	100	13	39	10	8	3	8,5
A2170M12	M12	1,75	110	15		9	7	3	10,2

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2170M14	M14	2	110	18		11	9	3	12
A2170M16	M16	2	110	18		12	9	3	14
A2170M18	M18	2,5	125	20		14	11	4	15,5
A2170M20	M20	2,5	140	20		16	12	4	17,5

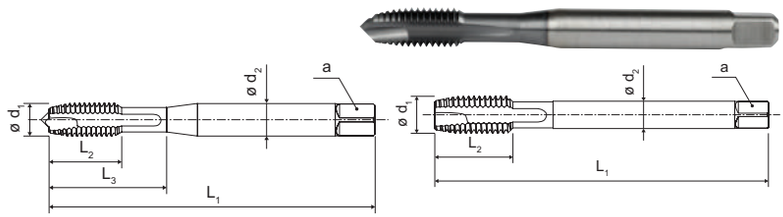
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-P	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	TiCN	< 3xD	RH

P3	P4	P5	P6	P7	M1	M2	M3	K2	N2	N3	N6
25 - 35	20 - 30	10 - 20	8 - 10	10 - 20	10 - 20	6 - 8	6 - 8	25 - 35	30 - 40	30 - 40	25 - 35



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2190M2	M2	0,4	45	7	11	2,8	2,1	3	1,6
A2190M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2190M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2190M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2190M6	M6	1	80	16	29	6	4,9	3	5
A2190M8	M8	1,25	90	18	33	8	6,2	3	6,8

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2190M10	M10	1,5	100	20	36	10	8	3	8,5
A2190M12	M12	1,75	110	24		9	7	4	10,2
A2190M14	M14	2	110	25		11	9	4	12
A2190M16	M16	2	110	28		12	9	4	14
A2190M18	M18	2,5	125	32		14	11	4	15,5
A2190M20	M20	2,5	140	32		16	12	4	17,5

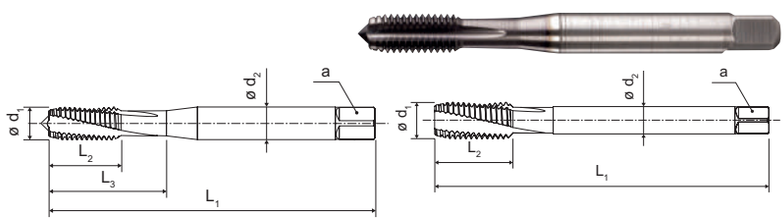
SPIRAL FLUTE 15° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-P	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 15°	Spiral flutes	TiCN	< 2xD	RH

P3	P4	P5	P6	P7	M1	M2	M3	K2	N2	N3	N6	S1	S4	S5
25 - 35	20 - 30	10 - 20	8 - 10	10 - 20	10 - 20	6 - 8	6 - 8	25 - 35	30 - 40	30 - 40	25 - 35	2 - 3	2 - 3	2 - 3



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2195M3	M3	0,5	56	5	18	3,5	2,7	3	2,5
A2195M4	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2195M5	M5	0,8	70	9	25	6	4,9	3	4,2
A2195M6	M6	1	80	11	30	6	4,9	3	5
A2195M8	M8	1,25	90	12	35	8	6,2	3	6,8
A2195M10	M10	1,5	100	13	39	10	8	3	8,5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2195M12	M12	1,75	110	15		9	7	3	10,2
A2195M14	M14	2	110	18		11	9	3	12
A2195M16	M16	2	110	18		12	9	3	14
A2195M18	M18	2,5	125	20		14	11	4	15,5
A2195M20	M20	2,5	140	20		16	12	4	17,5

SPIRAL FLUTE 15° LEFT-HAND TAP FOR THROUGH HOLES - M

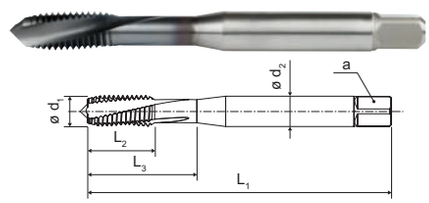
KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	B 4-5	TiCN	RH

Rounded ridge profile (MJ). Pre-hole +0.1mm

S2	S4	S5	H1
4 - 8	6 - 8	3 - 4	5 - 8



DIN 371

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2245M3	M3	0,5	56	10	3,5	2,7	2,5
A2245M4	M4	0,7	63	13	4,5	3,4	3,3
A2245M5	M5	0,8	70	13	6	4,9	4,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2245M6	M6	1	80	16	6	4,9	5
A2245M8	M8	1,25	90	18	8	6,2	6,8
A2245M10	M10	1,5	100	20	10	8	8,5

SPIRAL FLUTE 15° RIGHT-HAND TAP FOR BLIND HOLES - M

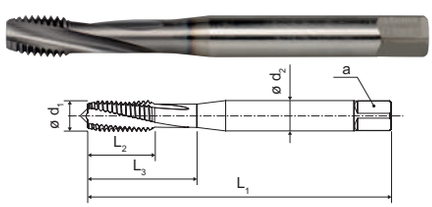
KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	COATING	ROTATION
Cutting	C 2-3	Helical 15°	TiCN	RH

Rounded ridge profile (MJ). Pre-hole +0.1mm

S2	S4	S5	H1
4 - 8	6 - 8	3 - 4	5 - 8



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2246M3	M3	0,5	56	5	3,5	2,7	2,5
A2246M4	M4	0,7	63	7	4,5	3,4	3,3
A2246M5	M5	0,8	70	8	6	4,9	4,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2246M6	M6	1	80	10	6	4,9	5
A2246M8	M8	1,25	90	13	8	6,2	6,8
A2246M10	M10	1,5	100	15	10	8	8,5

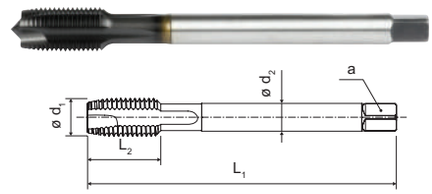
SPIRAL POINT TAP FOR THROUGH HOLES - MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	ISO 2 6H	HSSE	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	KX2	< 2,5xD	RH

P7	M1
10 - 15	10 - 15



DIN 374

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2430MF81	M8	1	90	16	6	4,9	3	7
A2430MF101	M10	1	100	18	7	5,5	4	9
A2430MF101,25	M10	1,25	100	18	7	5,5	3	8,8
A2430MF121	M12	1	100	22	9	7	4	11
A2430MF121,25	M12	1,25	100	22	9	7	4	10,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2430MF121,5	M12	1,5	100	22	9	7	3	10,5
A2430MF141,5	M14	1,5	100	22	11	9	4	12,5
A2430MF161,5	M16	1,5	100	22	12	9	4	14,5
A2430MF181,5	M18	1,5	110	22	14	11	4	16,5
A2430MF201,5	M20	1,5	125	25	16	12	4	18,5

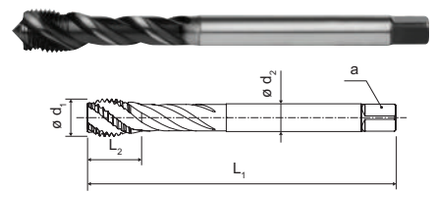
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	ISO 2 6H	HSSE	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	KX2	Back tapering	< 2,5xD	RH

P7	M1	M2	M3
8 - 10	8 - 10	5 - 7	5 - 7



DIN 374

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2435MF81	M8	1	90	10	6	4,9	3	7
A2435MF101	M10	1	90	10	7	5,5	3	9
A2435MF101,25	M10	1,25	100	11,5	7	5,5	3	8,8
A2435MF121,25	M12	1,25	100	13,5	9	7	4	10,8
A2435MF121,5	M12	1,5	100	14	9	7	4	10,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2435MF141,5	M14	1,5	100	15,5	11	9	4	12,5
A2435MF161,5	M16	1,5	100	15,5	12	9	4	14,5
A2435MF181,5	M18	1,5	110	16	14	11	4	16,5
A2435MF201,5	M20	1,5	125	17	16	12	4	18,5

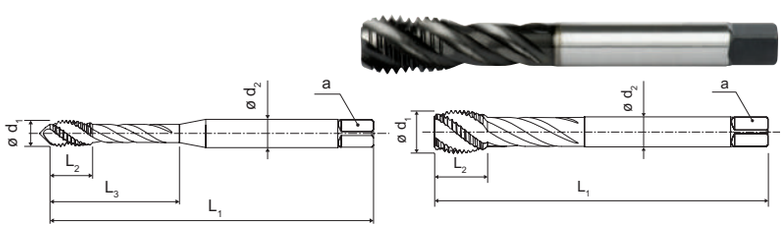
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - UNC

KERFOLG

ASME B1.1	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
UNC	2B	HSSE	DIN 2184-1	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	KX2	Back tapering	< 2,5xD	RH

P7	M1	M2	M3
8 - 10	8 - 10	5 - 7	5 - 7



DIN 2184-1 ≤ Ø 1/4"

DIN 2184-1 ≥ Ø 5/16"

Tech. Code	Thread UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2520UNC1/4	1/4"	6,35	20	80	11,5	32	7	5,5	3	5,1
A2520UNC5/16	5/16"	7,938	18	90	13		6	4,9	3	6,6
A2520UNC3/8	3/8"	9,525	16	100	14		7	5,5	3	8
A2520UNC7/16	7/16"	11,113	14	100	17		8	6,2	3	9,4

Tech. Code	Thread UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2520UNC1/2	1/2"	12,7	13	110	19		9	7	4	10,8
A2520UNC5/8	5/8"	15,875	11	110	22,5		12	9	4	13,5
A2520UNC3/4	3/4"	19,05	10	125	26		14	11	4	16,5

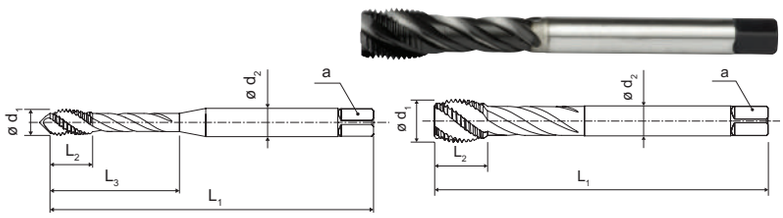
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - UNF

KERFOLG

ASME B1.1	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
UNF	2B	HSSE	DIN 2184-1	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	KX2	Back tapering	< 2,5xD	RH

P7	M1	M2	M3
8 - 10	8 - 10	5 - 7	5 - 7



DIN2184-1 ≤ Ø 1/4"

DIN2184-1 ≥ Ø 5/16"

Tech. Code	Thread UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2560UNF1/4	1/4"	6,35	28	80	10	32	7	5,5	3	5,5
A2560UNF3/8	3/8"	9,525	24	90	12		7	5,5	3	8,5
A2560UNF1/2	1/2"	12,7	20	100	14,5		9	7	4	11,5

Tech. Code	Thread UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2560UNF5/8	5/8"	15,875	18	100	16		12	9	4	14,5
A2560UNF3/4	3/4"	19,05	16	110	18		14	11	4	17,5

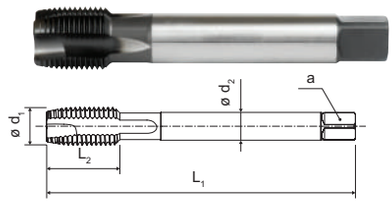
SPIRAL POINT TAP FOR THROUGH HOLES - BSP

KERFOLG

EN ISO 228	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
G	ISO 5969	HSSE	DIN 5156	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	KX2	< 2,5xD	RH

P7	M1
10 - 15	10 - 15



DIN5156

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2620GAS1/8	1/8"	9,728	28	90	18	7	5,5	4	8,8
A2620GAS1/4	1/4"	13,157	19	100	22	11	9	4	11,8
A2620GAS3/8	3/8"	16,662	19	100	22	12	9	4	15,25
A2620GAS1/2	1/2"	20,955	14	125	25	16	12	4	19

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2620GAS5/8	5/8"	22,911	14	125	25	18	14,5	4	21
A2620GAS3/4	3/4"	26,441	14	140	28	20	16	4	24,5
A2620GAS1	1"	33,249	11	160	30	25	20	4	30,75

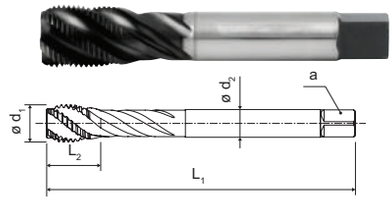
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - BSP

KERFOLG

EN ISO 228	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
G	ISO 5969	HSSE	DIN 5156	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	KX2	Back tapering	< 2,5xD	RH

P7	M1	M2	M3
8 - 10	8 - 10	5 - 7	5 - 7



DIN5156

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2625GAS1/8	1/8"	9,728	28	90	17	7	5,5	3	8,8
A2625GAS1/4	1/4"	13,157	19	100	23	11	9	4	11,8
A2625GAS3/8	3/8"	16,662	19	100	23	12	9	4	15,25
A2625GAS1/2	1/2"	20,955	14	125	29	16	12	5	19

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2625GAS5/8	5/8"	22,911	14	125	29	18	14,5	5	21
A2625GAS3/4	3/4"	26,441	14	140	29	20	16	5	24,5
A2625GAS1	1"	33,249	11	160	34,5	25	20	5	30,75

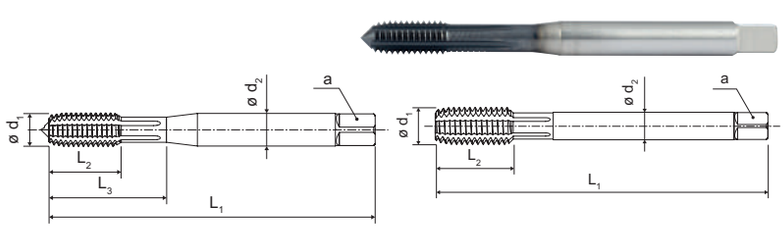
FORMING TAP FOR BLIND AND THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-Z	DIN 2174 (371-376)	

TOOL TYPE	CHAMFER	COATING	DEPTH	COOLANT	ROTATION
Forming	C 2-3	WX2	< 3xD	Oil grooves	RH

P7	M1	M2	M3
15 - 20	10 - 15	8 - 10	8 - 10



DIN 2174 (371) ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2360M4	M4	0,7	70	7	18	4,5	3,4	5	3,7
A2360M5	M5	0,8	70	8	23	6	4,9	5	4,65
A2360M6	M6	1	80	10	29	6	4,9	5	5,6
A2360M8	M8	1,25	90	14	33	8	6,2	5	7,45

DIN 2174 (376) ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2360M10	M10	1,5	100	16	36	10	8	5	9,35
A2360M12	M12	1,75	110	18		9	7	5	11,25
A2360M14	M14	2	110	18		11	9	6	13,1
A2360M16	M16	2	110	20		12	9	6	15,1

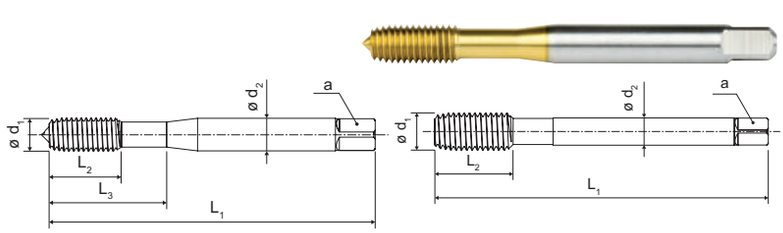
FORMING TAP FOR BLIND AND THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	HSSE	DIN 2174 (371-376)	

TOOL TYPE	CHAMFER	COATING	DEPTH	ROTATION
Forming	C 2-3	TiN	< 1,5xD	RH

P1	P2	P3	N1	N2	N3	N5	N6
40 - 45	40 - 45	35 - 45	40 - 45	40 - 45	35 - 40	40 - 45	40 - 45



DIN 2174 (371) ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2350M3	M3	0,5	56	10	18	3,5	2,7	4	2,8
A2350M4	M4	0,7	63	12	21	4,5	3,4	5	3,7
A2350M5	M5	0,8	70	14	24,5	6	4,9	5	4,65
A2350M6	M6	1	80	16	29	6	4,9	5	5,55
A2350M8	M8	1,25	90	18	33	8	6,2	5	7,4

DIN 2174 (376) ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2350M10	M10	1,5	100	20	36	10	8	5	9,3
A2350M12	M12	1,75	110	24		9	7	5	11,2
A2350M14	M14	2	110	25		11	9	6	13,1
A2350M16	M16	2	110	28		12	9	6	15,1

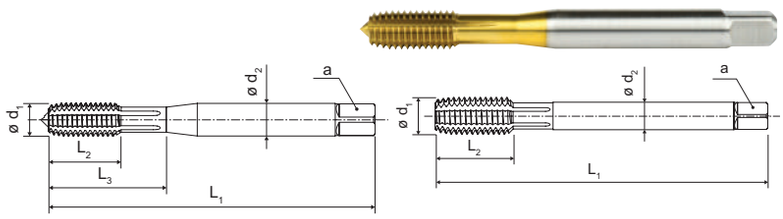
FORMING TAP FOR BLIND AND THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6GX	HSSE	DIN 2174 (371-376)	

TOOL TYPE	CHAMFER	COATING	DEPTH	COOLANT	ROTATION
Forming	C 2-3	TiN	< 2,5xD	Oil grooves	RH

P1	P2	P3	N1	N2	N3	N5	N6
40 - 45	40 - 45	35 - 45	40 - 45	40 - 45	35 - 40	40 - 45	40 - 45



DIN 2174 (371) ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2351M3	M3	0,5	56	10	18	3,5	2,7	4	2,8
A2351M4	M4	0,7	63	12	21	4,5	3,4	5	3,7
A2351M5	M5	0,8	70	14	24,5	6	4,9	5	4,65

DIN 2174 (376) ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2351M6	M6	1	80	16	29	6	4,9	5	5,55
A2351M8	M8	1,25	90	18	33	8	6,2	5	7,4
A2351M10	M10	1,5	100	20	36	10	8	5	9,3

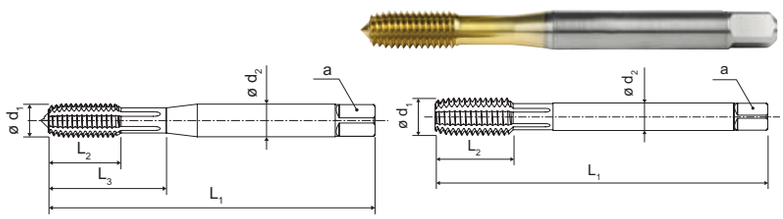
FORMING TAP FOR BLIND AND THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-K	DIN 2174 (371-376)	

TOOL TYPE	CHAMFER	COATING	DEPTH	COOLANT	ROTATION
Forming	C 2-3	TiN	< 3xD	Oil grooves	RH

P1	P2	P3	P4	P5	P7	M1	N1	N2	N3	N5	N6	S3
40 - 45	40 - 45	35 - 40	30 - 35	15 - 20	15 - 20	15 - 20	40 - 45	40 - 45	35 - 40	40 - 45	40 - 45	10 - 15



DIN 2174 (371) ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2358M2	M2	0,4	45	7	11	2,8	2,1	3	1,85
A2358M2,5	M2,5	0,45	50	9	15	2,8	2,1	3	2,3
A2358M3	M3	0,5	56	10	18	3,5	2,7	4	2,8
A2358M4	M4	0,7	63	12	21	4,5	3,4	5	3,7
A2358M5	M5	0,8	70	14	24,5	6	4,9	5	4,65
A2358M6	M6	1	80	16	29	6	4,9	5	5,55

DIN 2174 (376) ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2358M8	M8	1,25	90	18	33	8	6,2	5	7,4
A2358M10	M10	1,5	100	20	36	10	8	5	9,3
A2358M12	M12	1,75	110	24		9	7	5	11,2
A2358M14	M14	2	110	25		11	9	6	13,1
A2358M16	M16	2	110	28		12	9	6	15,1

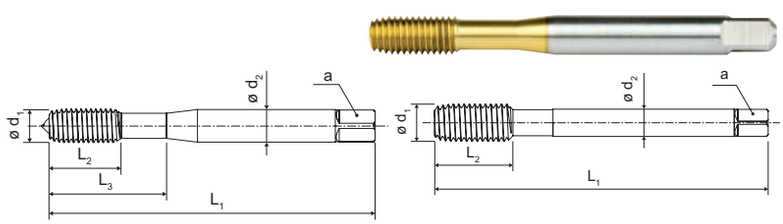
FORMING TAP - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-K	DIN 2174 (371-376)	

TOOL TYPE	CHAMFER	COATING	DEPTH	ROTATION
Forming	E 1,5-2	TiN	< 1,5xD	RH

P1	P2	P3	P4	P5	P7	M1	N1	N2	N3	N5	N6	S3
40 - 45	40 - 45	35 - 40	30 - 35	15 - 20	15 - 20	15 - 20	40 - 45	40 - 45	35 - 40	40 - 45	40 - 45	10 - 15



DIN 2174 (371) ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2362M3	M3	0,5	56	10	18	3,5	2,7	4	2,8
A2362M4	M4	0,7	63	12	21	4,5	3,4	5	3,7
A2362M5	M5	0,8	70	14	24,5	6	4,9	5	4,65

DIN 2174 (376) ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2362M6	M6	1	80	16	29	6	4,9	5	5,55
A2362M8	M8	1,25	90	18	33	8	6,2	5	7,4
A2362M10	M10	1,5	100	20	36	10	8	5	9,3

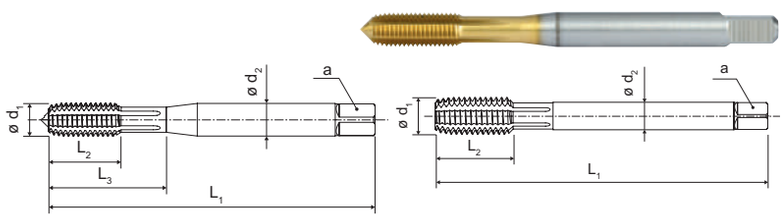
FORMING TAP FOR BLIND THROUGH HOLES - MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	6HX	HSSE	DIN 2174 (371-374)	

TOOL TYPE	CHAMFER	COATING	DEPTH	COOLANT	ROTATION
Forming	C 2-3	TiN	< 2,5xD	Oil grooves	RH

P1	P2	P3	N1	N2	N3	N5	N6
40 - 45	40 - 45	35 - 40	40 - 45	40 - 45	35 - 40	40 - 45	40 - 45



DIN 2174 (371) ≤ **M10x1,25**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2457MF081	M8	1	90	18	33	8	6,2	5	7,55
A2457MF101	M10	1	90	18	34	10	8	6	9,55
A2457MF101,25	M10	1,25	100	20	36	10	8	6	9,4
A2457MF121	M12	1	100	22		9	7	6	11,55
A2457MF121,25	M12	1,25	100	22		9	7	6	11,4

DIN 2174 (374) ≥ **M12x1**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2457MF121,5	M12	1,5	100	22		9	7	6	11,3
A2457M141	M14	1	100	22		11	9	6	13,4
A2457M141,5	M14	1,5	100	22		11	9	6	13,3
A2457M161	M16	1	100	22		12	9	6	15,5
A2457M161,5	M16	1,5	100	22		12	9	6	15,3

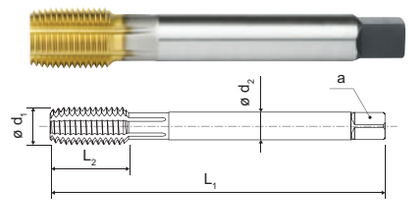
FORMING TAP FOR BLIND AND THROUGH HOLES - BSP

KERFOLG

EN ISO 228	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
G	ISO 5969X	HSSE	DIN 2189	

TOOL TYPE	CHAMFER	COATING	DEPTH	COOLANT	ROTATION
Forming	C 2-3	TiN	< 2,5xD	Oil grooves	RH

P1	P2	P3	N1	N2	N3	N5	N6
40 - 45	40 - 45	35 - 40	40 - 45	40 - 45	35 - 40	40 - 45	40 - 45



DIN 2189

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2640GAS1/8	1/8"	9,728	28	90	18	7	5,5	6	9,25
A2640GAS1/4	1/4"	13,157	19	100	22	11	9	6	12,5

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2640GAS3/8	3/8"	16,662	19	100	22	12	9	6	16
A2640GAS1/2	1/2"	20,955	14	125	25	16	12	6	20

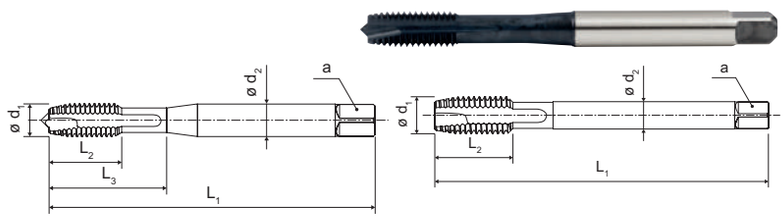
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	NIT+VAP	< 2xD	RH

P1	P2	P3	P4	P5	M1	K1	K2	N2	N3	N4
20 - 25	20 - 25	12 - 20	8 - 12	5 - 10	5 - 8	15 - 25	10 - 20	20 - 25	10 - 20	10 - 20



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2102M02	M2	0,4	45	7	12	2,8	2,1	2	1,6
A2102M02,5	M2,5	0,45	50	9	14	2,8	2,1	3	2,05
A2102M03	M3	0,5	56	11	18	3,5	2,7	3	2,5
A2102M04	M4	0,7	63	13	21	4,5	3,4	3	3,3
A2102M05	M5	0,8	70	15	25	6	4,9	3	4,2
A2102M06	M6	1	80	17	30	6	4,9	3	5
A2102M08	M8	1,25	90	20	35	8	6,2	3	6,8
A2102M10	M10	1,5	100	22	39	10	8	3	8,5
A2102M12	M12	1,75	110	24		9	7	4	10,2

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2102M14	M14	2	110	26		11	9	4	12
A2102M16	M16	2	110	27		12	9	4	14
A2102M18	M18	2,5	125	30		14	11	4	15,5
A2102M20	M20	2,5	140	32		16	12	4	17,5
A2102M22	M22	2,5	140	32		18	14,5	4	19,5
A2102M24	M24	3	160	34		18	14,5	4	21
A2102M27	M27	3	160	36		20	16	4	24
A2102M30	M30	3,5	180	40		22		4	26,5

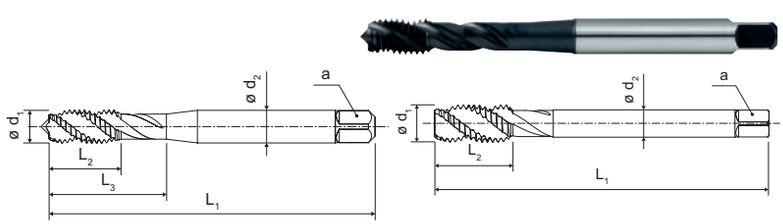
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	NIT+VAP	< 2,5xD	RH

P1	P2	P3	P4	P5	M1	K1	K2	N2	N3	N4
20 - 25	20 - 25	12 - 20	8 - 12	5 - 10	5 - 8	15 - 25	10 - 20	20 - 25	10 - 20	10 - 20



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2103M02	M2	0,4	45	4	12	2,8	2,1	3	1,6
A2103M02,5	M2,5	0,45	50	5	14	2,8	2,1	3	2,05
A2103M03	M3	0,5	56	6	18	3,5	2,7	3	2,5
A2103M04	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2103M05	M5	0,8	70	8	25	6	4,9	3	4,2
A2103M06	M6	1	80	10	30	6	4,9	3	5
A2103M08	M8	1,25	90	14	35	8	6,2	3	6,8
A2103M10	M10	1,5	100	16	39	10	8	3	8,5
A2103M12	M12	1,75	110	18		9	7	4	10,2

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2103M14	M14	2	110	20		11	9	4	12
A2103M16	M16	2	110	22		12	9	4	14
A2103M18	M18	2,5	125	25		14	11	4	15,5
A2103M20	M20	2,5	140	25		16	12	4	17,5
A2103M22	M22	2,5	140	27		18	14,5	4	19,5
A2103M24	M24	3	160	30		18	14,5	4	21
A2103M27	M27	3	160	30		20	16	5	24
A2103M30	M30	3,5	180	35		22	18	5	26,5

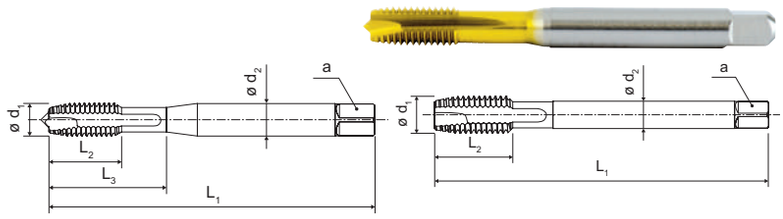
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	TiN	< 3xD	RH

P1	P2	P3	P4	P5	M1	K1	K2	N2	N3	N6
35 - 45	30 - 35	25 - 30	20 - 25	10 - 15	10 - 15	25 - 30	15 - 25	30 - 35	30 - 35	25 - 30



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2104M02	M2	0,4	45	4	12	2,8	2,1	2	1,6
A2104M02,5	M2,5	0,45	50	5	14	2,8	2,1	3	2,05
A2104M03	M3	0,5	56	6	18	3,5	2,7	3	2,5
A2104M04	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2104M05	M5	0,8	70	8	25	6	4,9	3	4,2
A2104M06	M6	1	80	10	30	6	4,9	3	5
A2104M08	M8	1,25	90	14	35	8	6,2	3	6,8
A2104M10	M10	1,5	100	16	39	10	8	3	8,5
A2104M12	M12	1,75	110	18		9	7	4	10,2

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2104M14	M14	2	110	20		11	9	4	12
A2104M16	M16	2	110	22		12	9	4	14
A2104M18	M18	2,5	125	25		14	11	4	15,5
A2104M20	M20	2,5	140	25		16	12	4	17,5
A2104M22	M22	2,5	140	27		18	14,5	4	19,5
A2104M24	M24	3	160	30		18	14,5	4	21
A2104M27	M27	3	160	30		20	16	4	24
A2104M30	M30	3,5	180	35		22	18	4	26,5

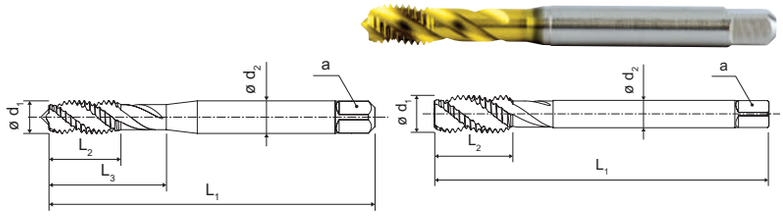
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	TiN	< 2,5xD	RH

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N6
30 - 40	20 - 35	20 - 30	15 - 20	8 - 12	10 - 15	5 - 10	5 - 10	20 - 30	15 - 25	30 - 35	30 - 35	25 - 30



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2105M02	M2	0,4	45	4	12	2,8	2,1	3	1,6
A2105M02,5	M2,5	0,45	50	5	14	2,8	2,1	3	2,05
A2105M03	M3	0,5	56	6	18	3,5	2,7	3	2,5
A2105M04	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2105M05	M5	0,8	70	8	25	6	4,9	3	4,2
A2105M06	M6	1	80	10	30	6	4,9	3	5
A2105M08	M8	1,25	90	14	35	8	6,2	3	6,8
A2105M10	M10	1,5	100	16	39	10	8	3	8,5
A2105M12	M12	1,75	110	18		9	7	4	10,2

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2105M14	M14	2	110	20		11	9	4	12
A2105M16	M16	2	110	22		12	9	4	14
A2105M18	M18	2,5	125	25		14	11	4	15,5
A2105M20	M20	2,5	140	25		16	12	4	17,5
A2105M22	M22	2,5	140	27		18	14,5	4	19,5
A2105M24	M24	3	160	30		18	14,5	4	21
A2105M27	M27	3	160	30		20	16	5	24
A2105M30	M30	3,5	180	35		22	18	5	26,5

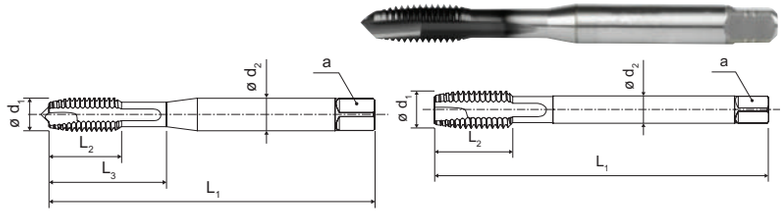
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	KX2	< 3xD	RH

P2	P3	P4	P5	M1	M2	M3	N2	N3	N6	S4
20 - 25	20 - 25	15 - 20	5 - 12	8 - 10	5 - 8	5 - 8	30 - 35	30 - 35	25 - 30	5 - 8



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2226M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2226M4	M4	0,7	63	13	21	4,5	3,4	3	3,3
A2226M5	M5	0,8	70	13	24,5	6	4,9	3	4,2
A2226M6	M6	1	80	16	29	6	4,9	3	5
A2226M8	M8	1,25	90	18	33	8	6,2	3	6,8

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2226M10	M10	1,5	100	20	36	10	8	3	8,5
A2226M12	M12	1,75	110	25		9	7	4	10,2
A2226M14	M14	2	110	28		11	9	4	12
A2226M16	M16	2	110	28		12	9	4	14

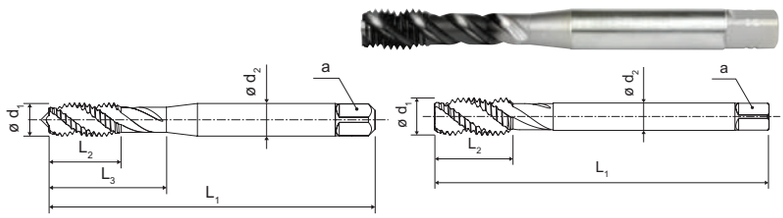
SPIRAL FLUTE 48° TAPS - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 48°	Spiral flutes	KX2	< 3,5xD	RH

P2	P3	P4	P8	M1	M2	M3	N1	N2	N5	S4
20 - 25	20 - 25	15 - 20	6 - 8	10 - 15	8 - 10	8 - 10	30 - 35	30 - 35	25 - 30	5 - 8



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2227M3	M3	0,5	56	5	15	3,5	2,7	3	2,5
A2227M4	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2227M5	M5	0,8	70	8	24,5	6	4,9	3	4,2
A2227M6	M6	1	80	10	29	6	4,9	3	5
A2227M8	M8	1,25	90	13	33	8	6,2	3	6,8

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2227M10	M10	1,5	100	15	38	10	8	3	8,5
A2227M12	M12	1,75	110	18		9	7	3	10,2
A2227M14	M14	2	110	20		11	9	3	12
A2227M16	M16	2	110	20		12	9	4	14

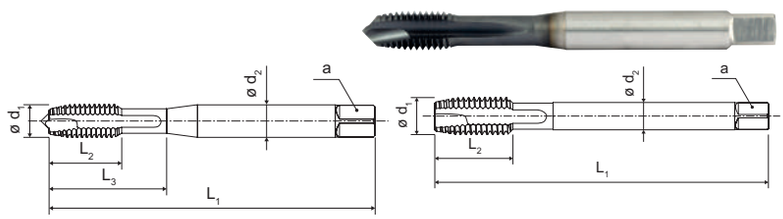
SPIRAL POINT TAPS - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	PROCESS
M	6HX	PM-K	DIN 371 DIN 376		Synchro

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	KX1	< 3xD	RH

P1	P2	P3	P4	P5	P7	M1	M2	M3	K2	N1	N2	N3	N5	N6	S1	S3
50 - 60	50 - 60	45 - 55	40 - 50	15 - 25	15 - 25	15 - 25	10 - 20	10 - 20	45 - 55	50 - 60	45 - 55	45 - 55	40 - 50	35 - 45	15 - 25	15 - 25



DIN 371 ≤ **M12**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2152M3	M3	0,5	70	5	15	6	4,9	3	2,5
A2152M4	M4	0,7	70	7	18	6	4,9	3	3,3
A2152M5	M5	0,8	70	8	25	6	4,9	3	4,2
A2152M6	M6	1	80	10	30	6	4,9	3	5
A2152M8	M8	1,25	90	12,5	35	8	6,2	3	6,8

DIN 376 ≥ **M14**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2152M10	M10	1,5	100	15	39	10	8	3	8,5
A2152M12	M12	1,75	110	17,5	42	12	9	3	10,2
A2152M14	M14	2	110	20		12	9	3	12
A2152M16	M16	2	110	20		12	9	4	14

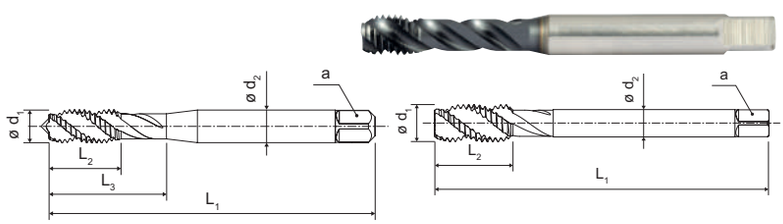
SPIRAL FLUTE 40° TAPS - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE	PROCESS
M	6HX	PM-K	DIN 371 DIN 376		Synchro

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	KX1	Back tapering	< 3xD	RH

P1	P2	P3	P4	P5	P7	M1	M2	M3	K2	N1	N2	N3	N5	N6	S1	S3
50 - 60	50 - 60	45 - 55	40 - 50	15 - 25	15 - 25	15 - 25	10 - 20	10 - 20	45 - 55	50 - 60	45 - 55	45 - 55	40 - 50	35 - 45	15 - 25	15 - 25



DIN 371 ≤ **M12**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2157M3	M3	0,5	70	5,5	14	6	4,9	3	2,5
A2157M4	M4	0,7	70	7,5	18	6	4,9	3	3,3
A2157M5	M5	0,8	70	8,5	25	6	4,9	3	4,2
A2157M6	M6	1	80	10,5	30	6	4,9	3	5
A2157M8	M8	1,25	90	11,5	35	8	6,2	3	6,8

DIN 376 ≥ **M14**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2157M10	M10	1,5	100	14	40	10	8	3	8,5
A2157M12	M12	1,75	110	16,5	42	12	9	3	10,2
A2157M14	M14	2	110	19		12	9	3	12
A2157M16	M16	2	110	19		12	9	4	14

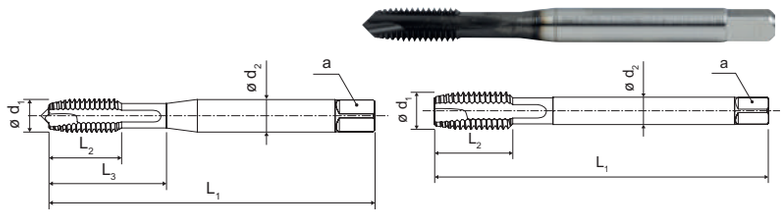
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-P	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	KX1	< 3xD	RH

P3	P4	P5	P6	P7	M1	M2	M3	K2	N2	N3	N6
50 - 60	45 - 55	40 - 50	15 - 25	15 - 25	15 - 25	10 - 20	10 - 20	45 - 55	45 - 55	45 - 55	35 - 45



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2175M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2175M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2175M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2175M6	M6	1	80	16	29	6	4,9	3	5
A2175M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2175M10	M10	1,5	100	20	36	10	8	3	8,5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2175M12	M12	1,75	110	24		9	7	4	10,2
A2175M14	M14	2	110	25		11	9	4	12
A2175M16	M16	2	110	28		12	9	4	14
A2175M18	M18	2,5	125	32		14	11	4	15,5
A2175M20	M20	2,5	140	32		16	12	4	17,5

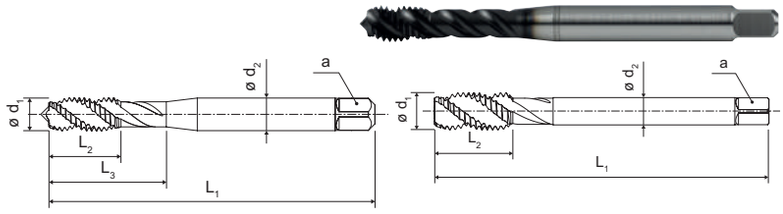
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-Z	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 45°	Spiral flutes	KX1	Back tapering	< 3xD	RH

P3	P4	P5	P7	M1	M2	M3	K2	N3	N6	S1	S3
20 - 30	15 - 25	5 - 15	10 - 15	10 - 15	5 - 7	5 - 7	20 - 30	25 - 35	25 - 35	10 - 15	10 - 15



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2180M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2180M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2180M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2180M6	M6	1	80	12	29	6	4,9	3	5
A2180M8	M8	1,25	90	14	33	8	6,2	3	6,8
A2180M10	M10	1,5	100	17	39	10	8	3	8,5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2180M12	M12	1,75	110	18		9	7	4	10,2
A2180M14	M14	2	110	20,5		11	9	4	12
A2180M16	M16	2	110	20,5		12	9	4	14
A2180M18	M18	2,5	125	25,5		14	11	4	15,5
A2180M20	M20	2,5	140	25,5		16	12	4	17,5

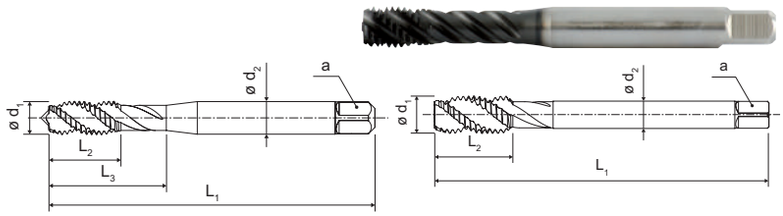
SPIRAL FLUTE 40° TAP FOR BLIND HOLES E - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-Z	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	E 1,5-2	Helical 45°	Spiral flutes	KX1	Back tapering	< 3xD	RH

P3	P4	P5	P7	M1	M2	M3	K2	N3	N6	S1	S3
20 - 30	15 - 25	5 - 15	10 - 15	10 - 15	5 - 7	5 - 7	20 - 30	25 - 35	25 - 35	10 - 15	10 - 15



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2182M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2182M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2182M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2182M6	M6	1	80	12	29	6	4,9	3	5
A2182M8	M8	1,25	90	14	33	8	6,2	4	6,8

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2182M10	M10	1,5	100	17	39	10	8	4	8,5
A2182M12	M12	1,75	110	18		9	7	4	10,2
A2182M14	M14	2	110	20,5		11	9	5	12
A2182M16	M16	2	110	20,5		12	9	5	14
A2182M20	M20	2,5	140	25,5		16	12	5	17,5

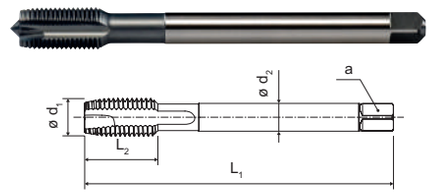
SPIRAL POINT TAP FOR THROUGH HOLES- MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	ISO 2 6H	HSSE	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	NIT+VAP	< 3xD	RH

P2	P3	P4	P5	M1	M2	M3	K1	K2	K3	N2	N3	N6
10 - 25	15 - 20	10 - 15	8 - 10	3 - 10	3 - 10	3 - 8	10 - 25	10 - 20	5 - 15	10 - 20	10 - 20	5 - 10



DIN 374

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2450MF060,75	M6	0,75	80	13	4,5	3,4	3	5,2
A2450MF081	M8	1	90	17	6	4,9	3	7
A2450MF101	M10	1	90	18	7	5,5	3	9
A2450MF121	M12	1	100	18	9	7	4	11
A2450MF121,5	M12	1,5	100	22	9	7	4	10,5
A2450MF141,5	M14	1,5	100	22	11	9	4	12,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2450MF161,5	M16	1,5	100	22	12	9	4	14,5
A2450MF181,5	M18	1,5	110	25	14	11	4	16,5
A2450MF201,5	M20	1,5	125	25	16	12	4	18,5
A2450MF221,5	M22	1,5	125	25	18	14,5	4	20,5
A2450MF241,5	M24	1,5	140	27	18	14,5	4	22,5

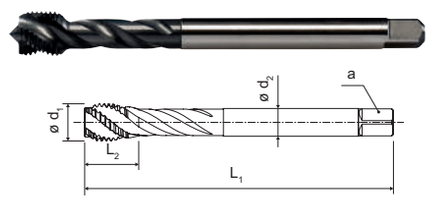
SPIRAL FLUTE 35° TAP FOR BLIND HOLES - MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	ISO 2 6H	HSSE	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 35°	Spiral flutes	NIT+VAP	< 2,5xD	RH

P2	P3	P4	P5	M1	M2	M3	K1	K2	K3	N2	N3	N6
10 - 25	15 - 20	10 - 15	8 - 10	3 - 10	3 - 10	3 - 8	10 - 25	10 - 20	5 - 15	10 - 20	10 - 20	5 - 10



DIN 374

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2455MF060,75	M6	0,75	80	8	4,5	3,4	3	5,2
A2455MF081	M8	1	90	10	6	4,9	3	7
A2455MF101	M10	1	90	10	7	5,5	3	9
A2455MF121	M12	1	100	11	9	7	4	11
A2455MF121,5	M12	1,5	100	15	9	7	4	10,5
A2455MF141,5	M14	1,5	100	15	11	9	4	12,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2455MF161,5	M16	1,5	100	15	12	9	4	14,5
A2455MF181,5	M18	1,5	110	17	14	11	4	16,5
A2455MF201,5	M20	1,5	125	17	16	12	4	18,5
A2455MF221,5	M22	1,5	125	17	18	14,5	4	20,5
A2455MF241,5	M24	1,5	140	20	18	14,5	4	22,5

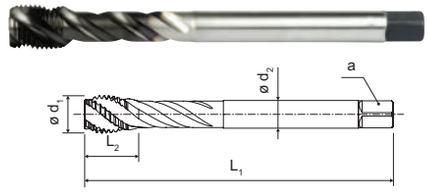
SPIRAL FLUTE 45° TAP FOR BLIND HOLES - MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	6HX	PM-Z	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 45°	Spiral flutes	KX1	Back tapering	< 2,5xD	RH

P3	P4	P5	P7	M1	M2	M3	K2	N3	N6	S1	S3
20 - 30	15 - 25	5 - 15	10 - 15	10 - 15	5 - 7	5 - 7	20 - 30	25 - 35	25 - 35	10 - 15	10 - 15



DIN 374

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2445MF81	M8	1	90	12	6	4,9	3	7
A2445MF101	M10	1	90	12	7	5,5	3	9
A2445MF101,25	M10	1,25	100	14	7	5,5	3	8,8
A2445MF121	M12	1	100	14	9	7	4	11

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2445MF121,25	M12	1,25	100	14	9	7	4	10,8
A2445MF121,5	M12	1,5	100	15	9	7	4	10,5
A2445MF141,5	M14	1,5	100	16	11	9	4	12,5
A2445MF161,5	M16	1,5	100	16	12	9	4	14,5

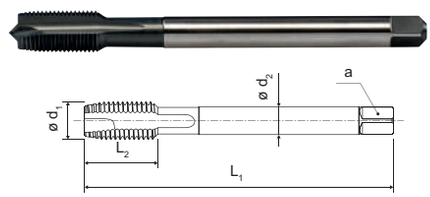
SPIRAL POINT TAP FOR THROUGH HOLES - BSP

KERFOLG

EN ISO 228	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
G	ISO 5969	HSSE	DIN 5156	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	NIT+VAP	< 3xD	RH

P2	P3	P4	P5	M1	M2	M3	K1	K2	K3	N2	N3	N6
10 - 25	15 - 20	10 - 15	8 - 10	3 - 10	3 - 10	3 - 8	10 - 25	10 - 20	5 - 15	10 - 20	10 - 20	5 - 10



DIN 5156

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2611GAS1/8	1/8"	9,728	28	90	18	7	5,5	3	8,8
A2611GAS1/4	1/4"	13,157	19	100	22	11	9	4	11,8
A2611GAS3/8	3/8"	16,662	19	100	22	12	9	4	15,25

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2611GAS1/2	1/2"	20,955	14	125	25	16	12	4	19
A2611GAS3/4	3/4"	26,441	14	140	28	20	16	5	24,5

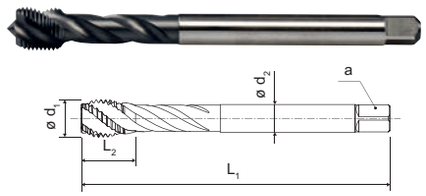
SPIRAL FLUTE 35° TAP FOR BLIND HOLES - BSP

KERFOLG

EN ISO 228	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
G	ISO 5969	HSSE	DIN 5156	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 35°	Spiral flutes	NIT+VAP	< 2,5xD	RH

P2	P3	P4	P5	M1	M2	M3	K1	K2	K3	N2	N3	N6
10 - 25	15 - 20	10 - 15	8 - 10	3 - 10	3 - 10	3 - 8	10 - 25	10 - 20	5 - 15	10 - 20	10 - 20	5 - 10



DIN 5156

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2616GAS1/8	1/8"	9,728	28	90	10	7	5,5	3	8,8
A2616GAS1/4	1/4"	13,157	19	100	15	11	9	4	11,8
A2616GAS3/8	3/8"	16,662	19	100	15	12	9	4	15,25

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2616GAS1/2	1/2"	20,955	14	125	17	16	12	5	19
A2616GAS3/4	3/4"	26,441	14	140	20	20	16	5	24,5

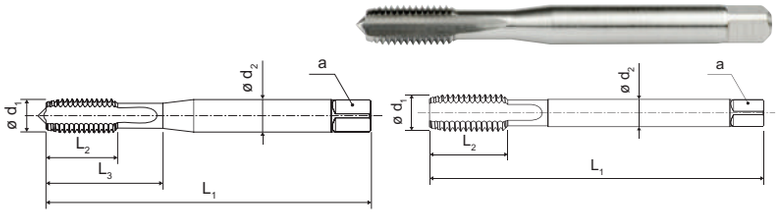
STRAIGHT FLUTE TAP LEFT-HANDED THREAD - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	COATING	DEPTH	ROTATION
Cutting	C 2-3	Straight	BRIGHT	< 1,5xD	LH

P2	P3	K2
10 - 12	8 - 10	8 - 10



DIN 371 ≤ **M10**

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2060M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2060M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2060M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2060M6	M6	1	80	16	29	6	4,9	3	5
A2060M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2060M10	M10	1,5	100	20	36	10	8	3	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2060M12	M12	1,75	110	25		9	7	3	10,2
A2060M14	M14	2	110	25		11	9	3	12
A2060M16	M16	2	110	28		12	9	3	14
A2060M18	M18	2,5	125	32		14	11	3	15,5
A2060M20	M20	2,5	140	32		16	12	4	17,5

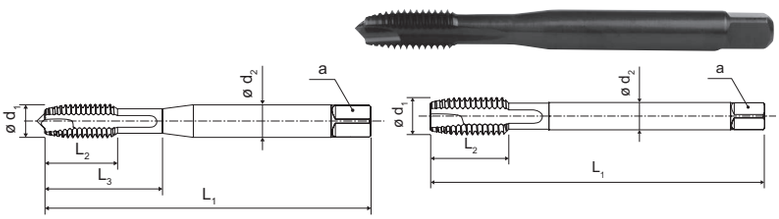
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	VAP	< 2,5xD	RH

P2	P3	P4	K2	N2	N3	N6
20 - 25	15 - 20	12 - 15	15 - 20	20 - 25	20 - 25	15 - 18



DIN 371 ≤ **M10**

DIN 376 ≥ **M11 & GP**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2110M2	M2	0,4	45	7	11	2,8	2,1	2	1,6
A2110M2,5	M2,5	0,45	50	9	15	2,8	2,1	2	2,05
A2110M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2110M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2110M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2110M6	M6	1	80	16	29	6	4,9	3	5
A2110M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2110M10	M10	1,5	100	20	36	10	8	3	8,5
A2110M4GP	M4	0,7	63	12		2,8	2,1	3	3,3
A2110M5GP	M5	0,8	70	14		3,5	2,7	3	4,2
A2110M6GP	M6	1	80	16		4,5	3,4	3	5
A2110M8GP	M8	1,25	90	18		6	4,9	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2110M10GP	M10	1,5	100	20		7	5,5	3	8,5
A2110M12	M12	1,75	110	24		9	7	4	10,2
A2110M14	M14	2	110	25		11	9	4	12
A2110M16	M16	2	110	28		12	9	4	14
A2110M18	M18	2,5	125	32		14	11	4	15,5
A2110M20	M20	2,5	140	32		16	12	4	17,5
A2110M22	M22	2,5	140	32		18	14,5	4	19,5
A2110M24	M24	3	160	36		18	14,5	4	21
A2110M27	M27	3	160	36		20	16	4	24
A2110M30	M30	3,5	180	40		22	18	4	26,5
A2110M33	M33	3,5	180	40		25	20	5	29,5
A2110M36	M36	4	200	55		28	22	5	32

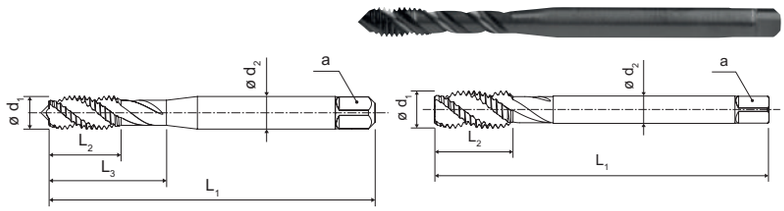
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	VAP	Back tapering	< 2,5xD	RH

P2	P3	P4	K2	N3	N6
20 - 25	15 - 20	12 - 15	15 - 20	20 - 25	15 - 18



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2120M2	M2	0,4	45	6	12	2,8	2,1	3	1,6
A2120M2,5	M2,5	0,45	50	6,5	15	2,8	2,1	3	2,05
A2120M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2120M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2120M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2120M6	M6	1	80	12	29	6	4,9	3	5
A2120M8	M8	1,25	90	15	33	8	6,2	3	6,8
A2120M10	M10	1,5	100	17,5	38	10	8	3	8,5
A2120M4GP	M4	0,7	63	8,5		2,8	2,1	3	3,3
A2120M5GP	M5	0,8	70	10		3,5	2,7	3	4,2
A2120M6GP	M6	1	80	12		4,5	3,4	3	5
A2120M8GP	M8	1,25	90	15		6	4,9	3	6,8

DIN 376 ≥ **M11 & GP**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2120M10GP	M10	1,5	100	17,5		7	5,5	3	8,5
A2120M12	M12	1,75	110	18		9	7	4	10,2
A2120M14	M14	2	110	20,5		11	9	4	12
A2120M16	M16	2	110	20,5		12	9	4	14
A2120M18	M18	2,5	125	25,5		14	11	4	15,5
A2120M20	M20	2,5	140	29,5		16	12	4	17,5
A2120M22	M22	2,5	140	29,5		18	14,5	4	19,5
A2120M24	M24	3	160	35,5		18	14,5	4	21
A2120M27	M27	3	160	37,5		20	16	5	24
A2120M30	M30	3,5	180	42		22	18	5	26,5
A2120M33	M33	3,5	180	43,5		25	20	5	29,5
A2120M36	M36	4	200	47		28	22	5	32

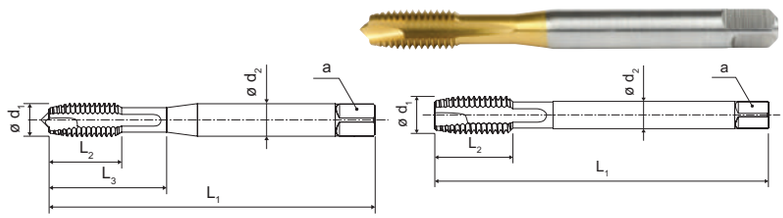
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	TiN	< 2,5xD	RH

P2	P3	P4	P5	P7	M1	K2	N2	N3	N6
30 - 35	25 - 30	20 - 25	10 - 15	10 - 15	10 - 15	25 - 30	30 - 35	30 - 35	25 - 30



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2130M2	M2	0,4	45	7	11	2,8	2,1	2	1,6
A2130M2,5	M2,5	0,45	50	9	15	2,8	2,1	3	2,05
A2130M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2130M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2130M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2130M6	M6	1	80	16	29	6	4,9	3	5
A2130M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2130M10	M10	1,5	0	20	36	10	8	3	8,5
A2130M12	M12	1,75	110	24		9	7	4	10,2

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2130M14	M14	2	110	25		11	9	4	12
A2130M16	M16	2	110	28		12	9	4	14
A2130M18	M18	2,5	125	32		14	11	4	15,5
A2130M20	M20	2,5	140	32		16	12	4	17,5
A2130M22	M22	2,5	140	32		18	14,5	4	19,5
A2130M24	M24	3	160	36		18	14,5	4	21
A2130M27	M27	3	160	36		20	16	4	24
A2130M30	M30	3,5	180	40		22	20	4	26,5
A2130M33	M33	3,5	180	40		25	20	5	29,5

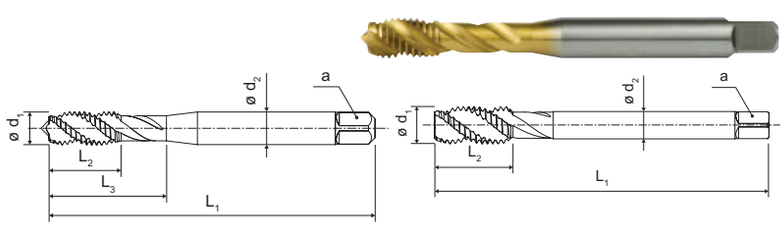
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	TiN	Back tapering	< 2,5xD	RH

P2	P3	P4	P5	P7	M1	K2	N3	N6
30 - 35	25 - 30	20 - 25	10 - 15	10 - 15	10 - 15	25 - 30	30 - 35	25 - 30



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2135M2	M2	0,4	45	6	12	2,8	2,1	3	1,6
A2135M2,5	M2,5	0,45	50	6,5	15	2,8	2,1	3	2,05
A2135M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2135M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2135M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2135M6	M6	1	80	12	29	6	4,9	3	5
A2135M8	M8	1,25	90	15	33	8	6,2	3	6,8
A2135M10	M10	1,5	100	17,5	38	10	8	3	8,5
A2135M12	M12	1,75	110	18		9	7	4	10,2

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2135M14	M14	2	110	20,5		11	9	4	12
A2135M16	M16	2	110	20,5		12	9	4	14
A2135M18	M18	2,5	125	25,5		14	11	4	15,5
A2135M20	M20	2,5	140	29,5		16	12	4	17,5
A2135M22	M22	2,5	140	29,5		18	14,5	4	19,5
A2135M24	M24	3	160	35,5		18	14,5	4	21
A2135M27	M27	3	160	37,5		20	16	4	24
A2135M30	M30	3,5	180	42		22	18	4	26,5

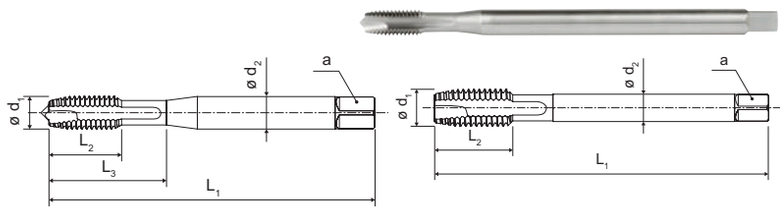
SPIRAL POINT TAP FOR THROUGH-HOLES EXTRA-LONG SHANK - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	Factory Standard	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	BRIGHT	< 2,5xD	RH

P1	P2	P3	N1	N2	N5	N6
18 - 20	15 - 18	12 - 15	18 - 20	15 -18	15 - 18	12 - 15



NDF

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2080M4	M4	0,7	112	12	21	4,5	3,4	3	3,3
A2080M5	M5	0,8	125	14	24,5	6	4,9	3	4,2
A2080M6	M6	1	125	16	29	6	4,9	3	5

NDF

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2080M8	M8	1,25	140	18	33	8	6,2	3	6,8
A2080M10	M10	1,5	160	20	36	10	8	3	8,5
A2080M12	M12	1,75	180	24		9	7	3	10,2

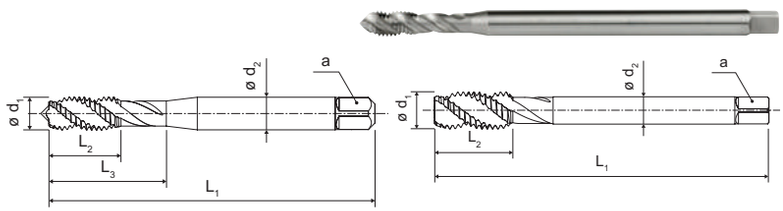
SPIRAL FLUTE 40° TAP FOR BLIND HOLES EXTRA-LONG SHANK - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	Factory Standard	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	BRIGHT	Back tapering	< 2,5xD	RH

P1	P2	N1	N2	N5	N6
18 - 20	15 - 18	18 - 20	15 - 18	15 - 18	12 - 15



NDF

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2085M4	M4	0,7	112	8,5	21	4,5	3,4	3	3,3
A2085M5	M5	0,8	125	10	24,5	6	4,9	3	4,2
A2085M6	M6	1	125	12	29	6	4,9	3	5

NDF

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2085M8	M8	1,25	140	15	33	8	6,2	3	6,8
A2085M10	M10	1,5	160	17,5	38	10	8	3	8,5
A2085M12	M12	1,75	180	18		9	7	3	10,2

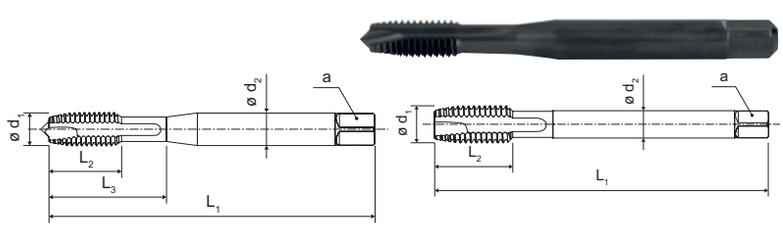
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	VAP	< 2,5xD	RH

P2	P3	P4	K2	N2	N3	N6
20 - 25	15 - 20	12 - 15	15 - 20	20 - 25	20 - 25	15 - 18



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2210M2	M2	0,4	45	7	11	2,8	2,1	2	1,6
A2210M2,5	M2,5	0,45	50	9	15	2,8	2,1	3	2,05
A2210M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2210M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2210M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2210M6	M6	1	80	16	29	6	4,9	3	5
A2210M7	M7	1	80	16	29	7	5,5	3	6
A2210M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2210M10	M10	1,5	100	20	36	10	8	3	8,5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2210M12	M12	1,75	110	24		9	7	4	10,2
A2210M14	M14	2	110	25		11	9	4	12
A2210M16	M16	2	110	28		12	9	4	14
A2210M18	M18	2,5	125	32		14	11	4	15,5
A2210M20	M20	2,5	140	32		16	12	4	17,5
A2210M22	M22	2,5	140	32		18	14,5	4	19,5
A2210M24	M24	3	160	36		18	14,5	4	21
A2210M27	M27	3	160	36		20	16	4	24
A2210M30	M30	3,5	180	40		22	18	4	26,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

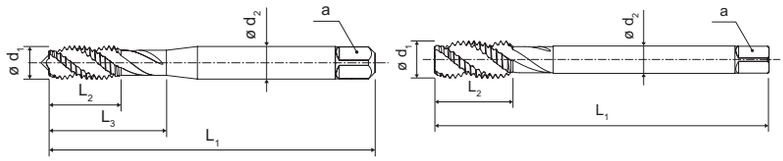
KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	VAP	Back tapering	< 2,5xD	RH

P2	P3	P4	K2	N3	N6
15 - 20	12 - 15	10 - 12	12 - 15	15 - 18	15 - 18





DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2215M2	M2	0,4	45	6	12	2,8	2,1	3	1,6
A2215M2,5	M2,5	0,45	50	6,5	15	2,8	2,1	3	2,05
A2215M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2215M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2215M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2215M6	M6	1	80	12	29	6	4,9	3	5
A2215M7	M7	1	80	12	29	7	5,5	3	6
A2215M8	M8	1,25	90	15	33	8	6,2	3	6,8
A2215M10	M10	1,5	100	17,5	38	10	8	3	8,5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2215M12	M12	1,75	110	18		9	7	4	10,2
A2215M14	M14	2	110	20,5		11	9	4	12
A2215M16	M16	2	110	20,5		12	9	4	14
A2215M18	M18	2,5	125	25,5		14	11	4	15,5
A2215M20	M20	2,5	140	29,5		16	12	4	17,5
A2215M22	M22	2,5	140	29,5		18	14,5	4	19,5
A2215M24	M24	3	160	35,5		18	14,5	4	21
A2215M27	M27	3	160	37,5		20	16	5	24
A2215M30	M30	3,5	180	42		22	18	5	26,5

STRAIGHT FLUTE TAP FOR THROUGH HOLES - M

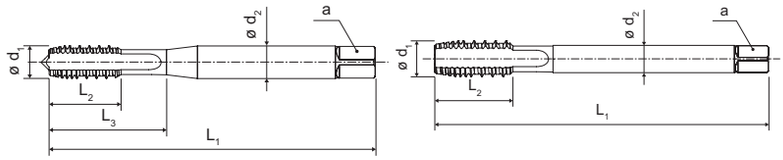
KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	COATING	PITCH	DEPTH	ROTATION
Cutting	C 2-3	Straight	BRIGHT	Cross	< 2,5xD	RH

P1	N1	N2	N5	N6
12 - 15	12 - 15	10 - 12	10 - 12	8 - 10





DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2250M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2250M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2250M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2250M6	M6	1	80	16	29	6	4,9	3	5
A2250M8	M8	1,25	90	18	33	8	6,2	3	6,8

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2250M10	M10	1,5	100	20	36	10	8	3	8,5
A2250M12	M12	1,75	110	24		9	7	3	10,2
A2250M14	M14	2	110	25		11	9	3	12
A2250M16	M16	2	110	28		12	9	3	14

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

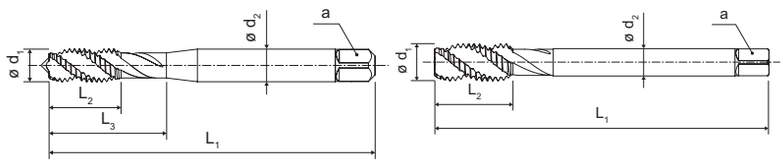
KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	BRIGHT	< 2,5xD	RH

N1	N2	N5	N6	S1	S3
12 - 15	12 - 15	10 - 12	10 - 12	6 - 8	6 - 8





DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2255M2	M2	0,4	45	7	11	2,8	2,1	2	1,6
A2255M2,5	M2,5	0,45	50	9	15	2,8	2,1	2	2,05
A2255M3	M3	0,5	56	10	18	3,5	2,7	2	2,5
A2255M4	M4	0,7	63	12	21	4,5	3,4	2	3,3
A2255M5	M5	0,8	70	14	24,5	6	4,9	2	4,2

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2255M6	M6	1	80	16	29	6	4,9	2	5
A2255M8	M8	1,25	90	18	33	8	6,2	2	6,8
A2255M10	M10	1,5	100	20	36	10	8	2	8,5
A2255M12	M12	1,75	110	24		9	7	2	10,2
A2255M14	M14	2	110	25		11	9	2	12

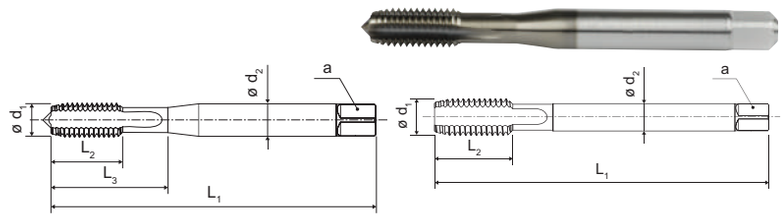
STRAIGHT FLUTE TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	COATING	DEPTH	ROTATION
Cutting	C 2-3	Straight	NITR	< 2,5xD	RH

K1	N4	N7	N9	N10
15 - 20	15 - 20	15 - 20	20 - 25	20 - 25



DIN 371 ≤ **M10 & GP**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2310M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2310M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2310M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2310M6	M6	1	80	16	29	6	4,9	4	5
A2310M8	M8	1,25	90	18	33	8	6,2	4	6,8
A2310M10	M10	1,5	100	20	36	10	8	4	8,5
A2310M12	M12	1,75	110	24		9	7	4	10,2
A2310M14	M14	2	110	25		11	9	4	12

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2310M16	M16	2	110	28		12	9	4	14
A2310M18	M18	2,5	125	32		14	11	4	15,5
A2310M20	M20	2,5	140	32		16	12	4	17,5
A2310M22	M22	2,5	140	32		18	14,5	4	19,5
A2310M24	M24	3	160	36		18	14,5	5	21
A2310M27	M27	3	160	36		20	16	5	24
A2310M30	M30	3,5	180	40		22	18	5	26,5
A2310M33	M33	3,5	180	40		25	20	5	29,5

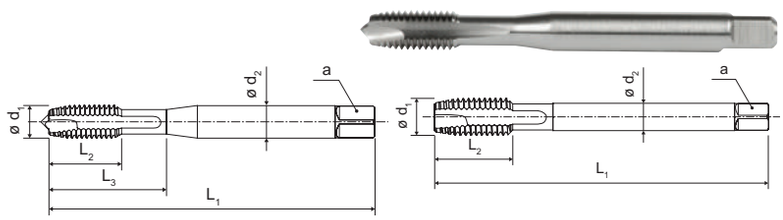
SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-P	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	BRIGHT	< 3xD	RH

P3	P4	P5	P6	P7	M1	M2	M3	K2	N2	N3	N6
20 - 30	15 - 25	10 - 15	8 - 10	10 - 15	8 - 15	5 - 8	5 - 8	20 - 30	25 - 35	25 - 35	20 - 30



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2160M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2160M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2160M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2160M6	M6	1	80	16	29	6	4,9	3	5
A2160M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2160M10	M10	1,5	100	20	36	10	8	3	8,5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2160M12	M12	1,75	110	24		9	7	4	10,2
A2160M14	M14	2	110	25		11	9	4	12
A2160M16	M16	2	110	28		12	9	4	14
A2160M18	M18	2,5	125	32		14	11	4	15,5
A2160M20	M20	2,5	140	32		16	12	4	17,5

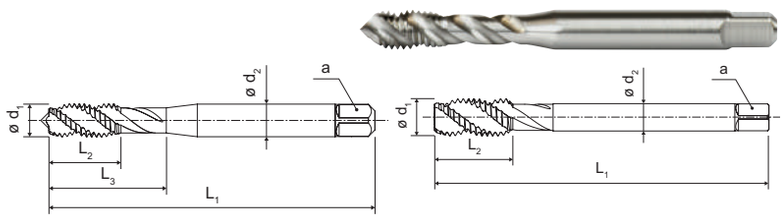
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	6HX	PM-Z	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 45°	Spiral flutes	BRIGHT	Back tapering	< 3xD	RH

P3	P4	P5	P7	M1	K2	N3	N6
15 - 25	10 - 20	5 - 8	8 - 12	8 - 12	15 - 20	20 - 30	20 - 30



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2165M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2165M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2165M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2165M6	M6	1	80	12	29	6	4,9	3	5
A2165M8	M8	1,25	90	14	33	8	6,2	3	6,8
A2165M10	M10	1,5	100	17	39	10	8	3	8,5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2165M12	M12	1,75	110	18		9	7	4	10,2
A2165M14	M14	2	110	20,5		11	9	4	12
A2165M16	M16	2	110	20,5		12	9	4	14
A2165M18	M18	2,5	125	25,5		14	11	4	15,5
A2165M20	M20	2,5	140	25,5		16	12	4	17,5
A2165M24	M24	3	160	32		18	14,5	4	21

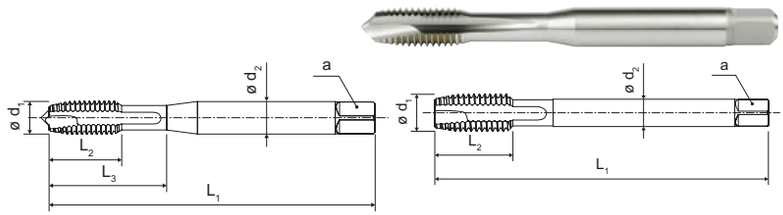
SPIRAL POINT TAP FOR THROUGH HOLES - M - OVERSIZED

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H+0,1mm	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	BRIGHT	< 3xD	RH

P2	P3	N2	N3	N6	N7
10 - 15	10 - 12	15 - 20	10 - 12	8 - 12	10 - 15



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2022M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2022M4	M4	0,7	63	13	21	4,5	3,4	3	3,3
A2022M5	M5	0,8	70	13	24,5	6	4,9	3	4,2
A2022M6	M6	1	80	16	29	6	4,9	3	5

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2022M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2022M10	M10	1,5	100	20	36	10	8	3	8,5
A2022M12	M12	1,75	110	25		9	7	3	10,2
A2022M16	M16	2	110	28		12	9	3	14

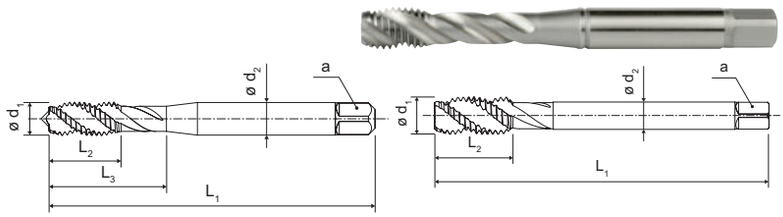
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M - OVERSIZED

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H+0,1mm	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	BRIGHT	< 2,5xD	RH

P1	P2	P3	P4	N5	N6
20 - 30	20 - 30	20 - 25	15 - 20	15 - 20	20 - 25



DIN 371 ≤ **M10**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2042M4	M4	0,7	63	7	21	4,25	3,4	3	3,3
A2042M5	M5	0,8	70	8	24,5	6	4,9	3	4,2
A2042M6	M6	1	80	10	29	6	4,9	3	5
A2042M8	M8	1,25	90	13	33	8	6,2	3	6,8

DIN 376 ≥ **M11**

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2042M10	M10	1,5	100	15	36	10	8	3	8,5
A2042M12	M12	1,75	110	18		9	7	3	10,2
A2042M16	M16	2	110	20		12	9	3	14

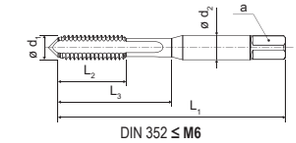
HAND TAP 3-PIECE SET - M

KERFOLG

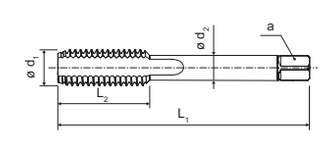
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSS	DIN 352	

TOOL TYPE	CHAMFER	FLUTES	COATING	DEPTH	ROTATION
Cutting	A-D-C	Straight	BRIGHT	< 2,5xD	RH

P1	P4	P7	K2	N1	N3	N5	N7
●	●	●	●	●	●	●	●



DIN 352 ≤ **M6**



DIN 352 ≥ **M8**



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2814M2	M2	0,4	36	7,5	12	2,8	2,1	3	1,6
A2814M2,5	M2,5	0,45	40	8,5	14,5	2,8	2,1	3	2,05
A2814M3	M3	0,5	40	10	18	3,5	2,7	3	2,5
A2814M3,5	M3,5	0,6	45	11	20	4	3	3	2,9
A2814M4	M4	0,7	45	12	21	4,5	3,4	3	3,3
A2814M4,5	M4,5	0,75	50	13	23	6	4,9	3	3,7
A2814M5	M5	0,8	50	14	24	6	4,9	3	4,2
A2814M6	M6	1	56	16	28	6	4,9	3	5
A2814M7	M7	1	56	19		6	4,9	3	6
A2814M8	M8	1,25	63	22		6	4,9	3	6,8
A2814M9	M9	1,25	63	22		7	5,5	3	7,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2814M10	M10	1,5	70	24		7	5,5	3	8,5
A2814M12	M12	1,75	75	28		9	7	4	10,2
A2814M14	M14	2	80	30		11	9	4	12
A2814M16	M16	2	80	32		12	9	4	14
A2814M18	M18	2,5	95	34		14	11	4	15,5
A2814M20	M20	2,5	95	34		16	12	4	17,5
A2814M22	M22	2,5	100	34		18	14,5	4	19,5
A2814M24	M24	3	110	38		18	14,5	4	21
A2814M27	M27	3	110	38		20	16	4	24
A2814M30	M30	3,5	125	45		22	18	4	26,5

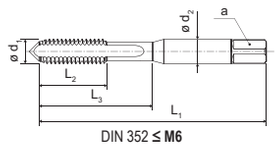
HAND TAP 3-PIECE SET FOR HARDENED - M

KERFOLG

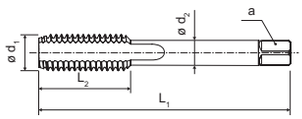
DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 352	

TOOL TYPE	CHAMFER	FLUTES	COATING	DEPTH	ROTATION
Cutting	C 2-3	Straight	BRIGHT	< 2,5xD	RH

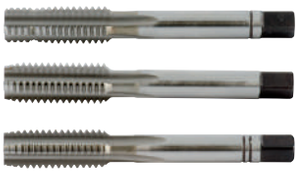
P1	P2	P3	P4	P5	P7	M1	M2	M3	K1	K2	K3	N2	N3	N4	N6	N7	N8	S1	S2
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



DIN 352 ≤ **M6**



DIN 352 ≥ **M8**



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2818M2	M2	0,4	36	7,5	12	2,8	2,1	3	1,6
A2818M2,5	M2,5	0,45	40	8,5	14,5	2,8	2,1	3	2,05
A2818M3	M3	0,5	40	10	18	3,5	2,7	3	2,5
A2818M3,5	M3,5	0,6	45	11	20	4	3	3	2,9
A2818M4	M4	0,7	45	12	21	4,5	3,4	3	3,3
A2818M5	M5	0,8	50	14	24	6	4,9	3	4,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2818M6	M6	1	56	16	28	6	4,9	3	5
A2818M8	M8	1,25	63	22		6	4,9	3	6,8
A2818M10	M10	1,5	70	24		7	5,5	3	8,5
A2818M12	M12	1,75	75	28		9	7	4	10,2
A2818M16	M16	2	80	32		12	9	4	14
A2818M20	M20	2,5	95	34		16	12	4	17,5

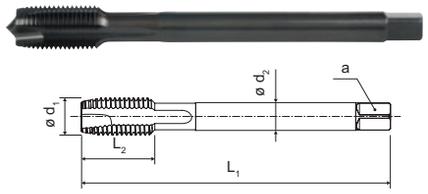
SPIRAL POINT TAP FOR THROUGH HOLES - MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	ISO 2 6H	HSSE	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	VAP	< 2,5xD	RH

P2	P3	P4	K2	N2	N3	N6
20 - 25	15 - 20	12 - 15	15 - 20	20 - 25	20 - 25	15 - 18



DIN 374

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2410MF40,5	M4	0,5	63	12	2,8	2,1	3	3,5
A2410MF50,5	M5	0,5	70	14	3,5	2,7	3	4,5
A2410MF60,75	M6	0,75	80	16	4,5	3,4	3	5,2
A2410MF80,75	M8	0,75	80	16	6	4,9	3	7,2
A2410MF81	M8	1	90	16	6	4,9	3	7
A2410MF100,75	M10	0,75	90	18	7	5,5	4	9,2
A2410MF101	M10	1	90	18	7	5,5	4	9
A2410MF101,25	M10	1,25	100	18	7	5,5	3	8,8
A2410MF121	M12	1	100	22	9	7	4	11
A2410MF121,25	M12	1,25	100	22	9	7	4	10,8
A2410MF121,5	M12	1,5	100	22	9	7	3	10,5
A2410MF141	M14	1	100	22	11	9	4	13
A2410MF141,25	M14	1,25	100	22	11	9	4	12,8
A2410MF141,5	M14	1,5	100	22	11	9	4	12,5
A2410MF161	M16	1	100	22	12	9	4	15

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2410MF161,5	M16	1,5	100	22	12	9	4	14,5
A2410MF181	M18	1	110	25	14	11	4	17
A2410MF181,5	M18	1,5	100	25	14	11	4	16,5
A2410MF201	M20	1	125	25	16	12	4	19
A2410MF201,5	M20	1,5	125	25	16	12	4	18,5
A2410MF221	M22	1	125	25	18	14,5	4	21
A2410MF221,5	M22	1,5	125	25	18	14,5	4	20,5
A2410MF241	M24	1	140	25	18	14,5	5	23
A2410MF241,5	M24	1,5	140	25	18	14,5	4	22,5
A2410MF242	M24	2	140	25	18	14,5	4	22
A2410MF271,5	M27	1,5	140	28	20	16	4	25,5
A2410MF272	M27	2	140	28	20	16	4	25
A2410MF301,5	M30	1,5	150	28	22	18	4	28,5
A2410MF302	M30	2	150	28	22	18	4	28

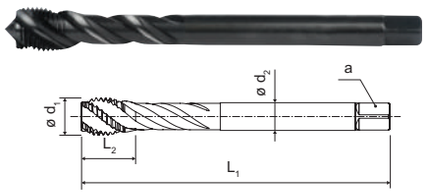
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	ISO 2 6H	HSSE	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	VAP	Back tapering	< 2,5xD	RH

P2	P3	P4	K2	N3	N6
15 - 20	12 - 15	10 - 12	12 - 15	15 - 18	15 - 18



DIN 374

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2415MF60,75	M6	0,75	80	7,5	4,5	3,4	3	5,2
A2415MF81	M8	1	90	10	6	4,9	3	7
A2415MF101	M10	1	90	10	7	5,5	3	9
A2415MF101,25	M10	1,25	100	11,5	7	5,5	3	8,8
A2415MF121	M12	1	100	13	9	7	4	11
A2415MF121,25	M12	1,25	100	13,5	9	7	4	10,8
A2415MF121,5	M12	1,5	100	14	9	7	4	10,5
A2415MF141,5	M14	1,5	100	15,5	11	9	4	12,5
A2415MF161,5	M16	1,5	100	15,5	12	9	4	14,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2415MF181,5	M18	1,5	100	16	14	11	4	16,5
A2415MF201,5	M20	1,5	125	17	16	12	4	18,5
A2415MF221,5	M22	1,5	125	19	18	14,5	4	20,5
A2415MF241,5	M24	1,5	140	21	18	14,5	4	22,5
A2415MF261,5	M26	1,5	140	23	18	14,5	4	24,5
A2415MF271,5	M27	1,5	140	23	20	16	4	25,5
A2415MF281,5	M28	1,5	140	23	20	16	4	26,5
A2415MF301,5	M30	1,5	150	25	22	18	5	28,5

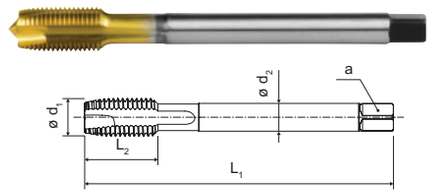
SPIRAL POINT TAP FOR THROUGH HOLES - MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	ISO 2 6H	HSSE	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	TiN	< 2,5xD	RH

P2	P3	P4	P5	P7	M1	K2	N2	N3	N6
30 - 35	25 - 30	20 - 25	10 - 15	10 - 15	10 - 15	25 - 30	30 - 35	30 - 35	25 - 30



DIN 374

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2432MF60,75	M6	0,75	80	14	4,5	3,4	3	5,2
A2432MF81	M8	1	90	16	6	4,9	3	7
A2432MF101	M10	1	90	18	7	5,5	4	9
A2432MF101,25	M10	1,25	100	18	7	5,5	3	8,8
A2432MF121	M12	1	100	22	9	7	4	11
A2432MF121,5	M12	1,5	100	22	9	7	3	10,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2432MF141,25	M14	1,25	100	22	11	9	4	12,8
A2432MF141,5	M14	1,5	100	22	11	9	4	12,5
A2432MF161,5	M16	1,5	100	22	12	9	4	14,5
A2432MF181,5	M18	1,5	110	25	14	11	4	16,5
A2432MF201,5	M20	1,5	125	25	16	12	4	18,5

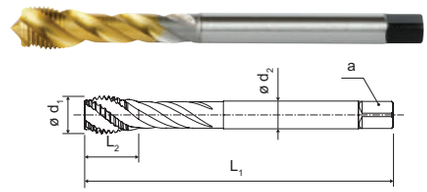
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	ISO 2 6H	HSSE	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	TiN	Back tapering	< 2,5xD	RH

P2	P3	P4	P5	P7	M1	K2	N3	N6
25 - 30	20 - 25	15 - 20	5 - 10	8 - 10	8 - 10	20 - 25	25 - 30	25 - 30



DIN 374

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2425MF60,75	M6	0,75	80	7,5	4,5	3,4	3	5,2
A2425MF81	M8	1	90	10	6	4,9	3	7
A2425MF101	M10	1	90	10	7	5,5	4	9
A2425MF101,25	M10	1,25	100	11,5	7	5,5	3	8,8
A2425MF121	M12	1	100	13	9	7	4	11
A2425MF121,25	M12	1,25	100	13,5	9	7	4	10,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2425MF121,5	M12	1,5	100	14	9	7	4	10,5
A2425MF141,5	M14	1,5	100	15,5	11	9	4	12,5
A2425MF161,5	M16	1,5	100	15,5	12	9	4	14,5
A2425MF181,5	M18	1,5	110	16	14	11	4	16,5
A2425MF201,5	M20	1,5	125	17	16	12	4	18,5

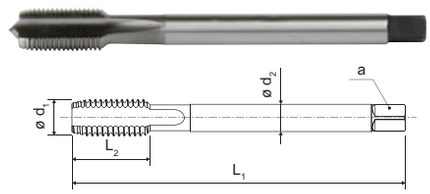
STRAIGHT FLUTE TAP FOR BLIND HOLES LEFT-HAND THREAD - MF

KERFOLG

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
MF	ISO 2 6H	HSSE	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	COATING	DEPTH	ROTATION
Cutting	C 2-3	Straight	BRIGHT	< 1,5xD	LH

P2	P3	K2
10 - 12	8 - 10	8 - 10



DIN 374

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2420MF60,75	M6	0,75	80	16	4,5	3,4	3	5,2
A2420MF81	M8	1	90	16	6	4,9	3	7
A2420MF101	M10	1	90	18	7	5,5	3	9
A2420MF101,25	M10	1,25	100	18	7	5,5	3	8,8
A2420MF121,25	M12	1,25	100	22	9	7	3	10,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2420MF121,5	M12	1,5	100	22	9	7	3	10,5
A2420MF141,5	M14	1,5	100	22	11	9	3	12,5
A2420MF161,5	M16	1,5	100	22	12	9	3	14,5
A2420MF181,5	M18	1,5	110	25	14	11	4	16,5
A2420MF201,5	M20	1,5	125	25	16	12	4	18,5

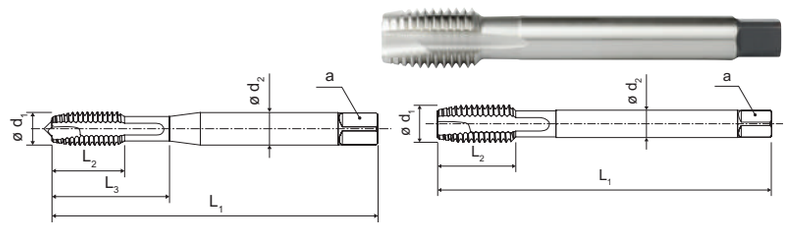
SPIRAL POINT TAP FOR THROUGH HOLES - UNC

KERFOLG

ASME B1.1	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
UNC	2B	HSSE	DIN 2184-1	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	BRIGHT	< 2,5xD	RH

P2	P3	P4	K2	N2	N3	N6
20 - 25	15 - 20	12 - 15	15 - 20	20 - 25	20 - 25	15 - 18



DIN 2184-1 ≤ **Ø 1/4"**

Tech. Code	Thread UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2510UNC1/4	1/4"	6,35	20	80	17	30	7	5,5	3	5,1
A2510UNC5/16	5/16"	7,938	18	90	18		6	4,9	3	6,6
A2510UNC3/8	3/8"	9,525	16	100	22		7	5,5	3	8
A2510UNC7/16	7/16"	11,113	14	100	24		8	6,2	3	9,4
A2510UNC1/2	1/2"	12,7	13	110	26		9	7	3	10,8

DIN 2184-1 ≥ **Ø 5/16"**

Tech. Code	Thread UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2510UNC9/16	9/16"	14,288	12	110	28		11	9	3	12,2
A2510UNC5/8	5/8"	15,875	11	110	28		12	9	3	13,5
A2510UNC3/4	3/4"	19,05	10	125	32		14	11	4	16,5
A2510UNC7/8	7/8"	22,225	9	140	32		18	14,5	4	19,5
A2510UNC1	1"	25,4	8	160	36		18	14,5	4	22,25

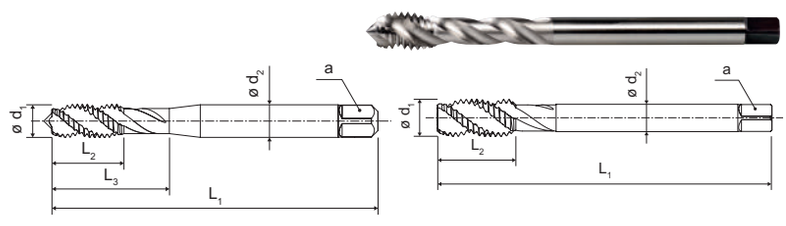
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - UNC

KERFOLG

ASME B1.1	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
UNC	2B	HSSE	DIN 2184-1	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	BRIGHT	Back tapering	< 2,5xD	RH

P2	P3	P4	K2	N3	N6
15 - 20	12 - 15	10 - 12	12 - 15	15 - 18	15 - 18



DIN 2184-1 ≤ **Ø 1/4"**

Tech. Code	Thread UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2617UNC1/4	1/4"	6,35	20	80	11,5	32	7	5,5	3	5,1
A2617UNC5/16	5/16"	7,938	18	90	13		6	4,9	3	6,6
A2617UNC3/8	3/8"	9,525	16	100	14		7	5,5	3	8
A2617UNC7/16	7/16"	11,113	14	100	17		8	6,2	3	9,4
A2617UNC1/2	1/2"	12,7	13	110	19		9	7	4	10,8

DIN 2184-1 ≥ **Ø 5/16"**

Tech. Code	Thread UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2617UNC9/16	9/16"	14,288	12	110	21		11	9	4	12,2
A2617UNC5/8	5/8"	15,875	11	110	22,5		12	9	4	13,5
A2617UNC3/4	3/4"	19,05	10	125	26		14	11	4	16,5
A2617UNC7/8	7/8"	22,225	9	140	30		18	14,5	4	19,5
A2617UNC1	1"	25,4	8	160	36,5		18	14,5	4	22,25

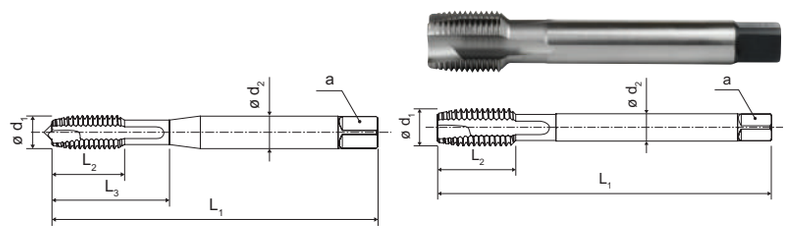
SPIRAL POINT TAP FOR THROUGH HOLES - UNF

KERFOLG

ASME B1.1	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
UNF	2B	HSSE	DIN 2184-1	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	BRIGHT	< 2,5xD	RH

P2	P3	P4	K2	N2	N3	N6
20 - 25	15 - 20	12 - 15	15 - 20	20 - 25	20 - 25	15 - 18



DIN 2184-1 ≤ **Ø 1/4"**

Tech. Code	Thread UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2550UNF1/4	1/4"	6,35	28	80	16	30	7	5,5	3	5,5
A2550UNF5/16	5/16"	7,938	24	90	18		6	4,9	3	6,9
A2550UNF3/8	3/8"	9,525	24	90	18		7	5,5	3	8,5
A2550UNF7/16	7/16"	11,113	20	100	20		8	6,2	3	9,9
A2550UNF1/2	1/2"	12,7	20	100	22		9	7	4	11,5

DIN 2184-1 ≥ **Ø 5/16"**

Tech. Code	Thread UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2550UNF9/16	9/16"	14,288	18	100	22		11	9	4	12,9
A2550UNF5/8	5/8"	15,875	18	100	22		12	9	4	14,5
A2550UNF3/4	3/4"	19,05	16	110	25		14	11	4	17,5
A2550UNF7/8	7/8"	22,225	14	125	25		18	14,5	4	20,4
A2550UNF1	1"	25,4	12	140	28		18	14,5	4	23,25

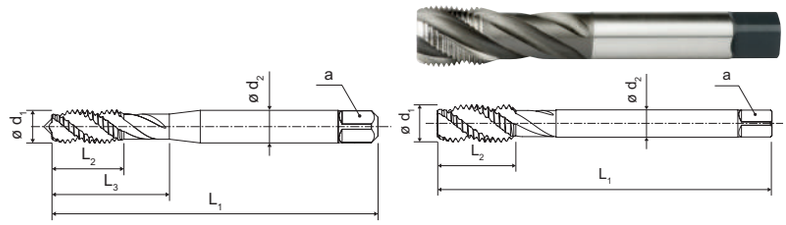
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - UNF

KERFOLG

ASME B1.1	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
UNF	2B	HSSE	DIN 2184-1	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	REAR	DEPTH	ROTATION
Cutting	C 2-3	Helical 40°	Spiral flutes	BRIGHT	Back tapering	< 2,5xD	RH

P2	P3	P4	K2	N3	N6
15 - 20	12 - 15	10 - 12	12 - 15	15 - 18	15 - 18



DIN 2184-1 ≤ **Ø 1/4"**

Tech. Code	Thread UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2555UNF1/4	1/4"	6,35	28	80	10	32	7	5,5	3	5,5
A2555UNF5/16	5/16"	7,938	24	90	11		6	4,9	3	6,9
A2555UNF3/8	3/8"	9,525	24	90	12		7	5,5	3	8,5
A2555UNF7/16	7/16"	11,113	20	100	13,5		8	6,2	3	9,9
A2555UNF1/2	1/2"	12,7	20	100	14,5		9	7	4	11,5

DIN 2184-1 ≥ **Ø 5/16"**

Tech. Code	Thread UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Pre-hole mm
A2555UNF9/16	9/16"	14,288	18	100	15,5		11	9	4	12,9
A2555UNF5/8	5/8"	15,875	18	100	16		12	9	4	14,5
A2555UNF3/4	3/4"	19,05	16	110	18		14	11	4	17,5
A2555UNF7/8	7/8"	22,225	14	125	23,5		18	14,5	4	20,4
A2555UNF1	1"	25,4	12	140	26		18	14,5	4	23,25

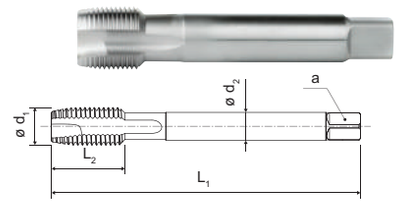
SPIRAL POINT TAP FOR THROUGH HOLES - BSP

KERFOLG

EN ISO 228	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
G	ISO 5969	HSSE	DIN 5156	

TOOL TYPE	CHAMFER	FLUTES	GEOMETRY	COATING	DEPTH	ROTATION
Cutting	B 4-5	Straight	Spiral pointed	BRIGHT	< 2,5xD	RH

P2	P3	P4	K2	N2	N3	N6
20 - 25	15 - 20	12 - 15	15 - 20	20 - 25	20 - 25	15 - 18



DIN 5156

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2610GAS1/8	1/8"	9,728	28	90	18	7	5,5	4	8,8
A2610GAS1/4	1/4"	13,157	19	100	22	11	9	4	11,8
A2610GAS3/8	3/8"	16,662	19	100	22	12	9	4	15,25
A2610GAS1/2	1/2"	20,955	14	125	25	16	12	4	19
A2610GAS5/8	5/8"	22,911	14	125	25	18	14,5	4	21
A2610GAS3/4	3/4"	26,441	14	140	28	20	16	4	24,5

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2610GAS7/8	7/8"	30,201	14	150	28	22	18	4	28,25
A2610GAS1	1"	33,249	11	160	30	25	20	4	30,75
A2610GAS11/8	1 1/8"	37,897	11	170	30	28	22	5	35,5
A2610GAS11/4	1 1/4"	41,91	11	170	30	32	24	5	39,5
A2610GAS11/2	1 1/2"	47,803	11	190	32	36	29	5	45,25

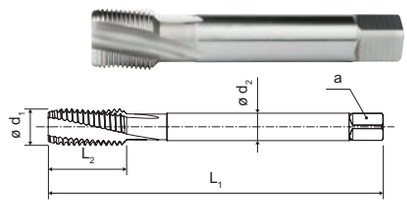
SPIRAL FLUTE 15° TAP FOR BLIND HOLES - BSP

KERFOLG

EN ISO 228	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
G	ISO 5969	HSSE	DIN 5156	

TOOL TYPE	CHAMFER	FLUTES	COATING	DEPTH	ROTATION
Cutting	C 2-3	Helical 15°	BRIGHT	< 1,5xD	RH

P1	P2	P3	P4	K2	N1	N2	N3	N5	N6
18 - 20	15 - 18	12 - 15	10 - 12	12 - 15	18 - 20	15 - 18	15 - 18	15 - 18	12 - 15



DIN 5156

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2615GAS1/8	1/8"	9,728	28	90	18	7	5,5	3	8,8
A2615GAS1/4	1/4"	13,157	19	100	22	11	9	3	11,8
A2615GAS3/8	3/8"	16,662	19	100	22	12	9	3	15,25
A2615GAS1/2	1/2"	20,955	14	125	25	16	12	4	19
A2615GAS5/8	5/8"	22,911	14	125	25	18	14,5	4	21
A2615GAS3/4	3/4"	26,441	14	140	28	20	16	4	24,5
A2615GAS7/8	7/8"	30,201	14	150	28	22	18	4	28,25

Tech. Code	Thread G	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2615GAS1	1"	33,249	11	160	30	25	20	4	30,75
A2615GAS11/8	1 1/8"	37,897	11	170	30	28	22	5	35,5
A2615GAS11/4	1 1/4"	41,91	11	170	30	32	24	5	39,5
A2615GAS11/2	1 1/2"	47,803	11	190	32	36	29	6	45,25
A2615GAS13/4	1 3/4"	53,746	11	190	32	40	32	6	51
A2615GAS2	2"	59,614	11	220	40	45	35	6	57
A2615GAS21/2	2 1/2"	75,184	11	250	50	45	35	8	72,8

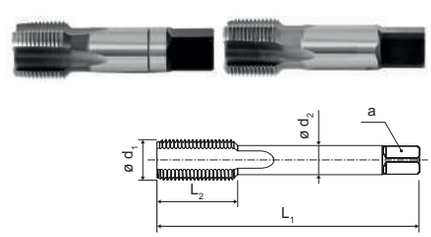
HAND TAP 2-PIECE SET - BSP

KERFOLG

EN ISO 228	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
G	ISO 5969	HSS	DIN 5157	

TOOL TYPE	CHAMFER	FLUTES	COATING	DEPTH	ROTATION
Cutting	A-C	Straight	BRIGHT	< 2,5xD	RH

P1	P2	P3	P4	P7	K2	N2	N3	N6	N7
●	●	●	●	●	●	●	●	●	●



DIN 5157

Tech. Code	Thread G	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2825GAS1/8	1/8"	9,728	28	63	18	7	5,5	3	8,8
A2825GAS1/4	1/4"	13,157	19	70	20	11	9	4	11,8
A2825GAS3/8	3/8"	16,662	19	70	20	12	9	4	15,25
A2825GAS1/2	1/2"	20,955	14	80	22	16	12	4	19

Tech. Code	Thread G	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2825GAS5/8	5/8"	22,911	14	80	22	18	14,5	4	21
A2825GAS3/4	3/4"	26,441	14	90	22	20	16	4	24,5
A2825GAS7/8	7/8"	30,201	14	90	22	22	18	4	28,25
A2825GAS1	1"	33,249	11	100	25	25	20	4	30,75

STRAIGHT FLUTE TAP FOR BLIND AND THROUGH HOLES - NPT

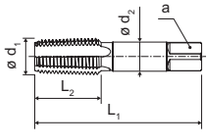
KERFOLG

ASME B1.20.1	MATERIAL	SHANK	HOLE TYPE
NPT	HSSE	Factory Standard	

TOOL TYPE	CHAMFER	FLUTES	COATING	ROTATION
Cutting	C 2-3	Straight	BRIGHT	RH

P2	P3	P4	K2
●	●	●	●





NDF

Tech. Code	Thread NPT	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2650NPT1/16	1/16"	7,938	27	63	12	6	4,9	4	6,15
A2650NPT1/8	1/8"	10,287	27	63	12	7	5,5	4	8,5
A2650NPT1/4	1/4"	13,716	18	63	18	11	9	4	11
A2650NPT3/8	3/8"	17,145	18	70	18	12	9	4	14,5
A2650NPT1/2	1/2"	21,336	14	80	23	16	12	4	17,85

Tech. Code	Thread NPT	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2650NPT3/4	3/4"	26,67	14	100	24	20	16	5	23,2
A2650NPT1	1"	33,401	11,5	110	30	25	20	5	29
A2650NPT11/4	1 1/4"	42,164	11,5	125	32	32	24	5	37,8
A2650NPT11/2	1 1/2"	48,26	11,5	140	32	36	29	6	44
A2650NPT2	2"	60,325	11,5	160	34	45	35	6	56

STRAIGHT FLUTE TAP FOR BLIND AND THROUGH HOLES - NPT

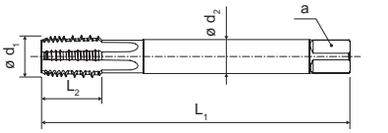
KERFOLG

ASME B1.20.1	MATERIAL	SHANK	HOLE TYPE
NPT	HSSE	DIN 374	

TOOL TYPE	CHAMFER	FLUTES	COATING	PITCH	ROTATION
Cutting	C 2-3	Straight	BRIGHT	Cross	RH

P1	P7	M1	N1	N2	N5	N6
12 - 15	2 - 3	2 - 3	12 - 15	12 - 15	10 - 12	6 - 8





DIN 374

Tech. Code	Thread NPT	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2655NPT1/16	1/16"	7,938	27	90	12	6	4,9	3	6,15
A2655NPT1/8	1/8"	10,287	27	100	12	7	5,5	5	8,5
A2655NPT1/4	1/4"	13,716	18	100	18	11	9	5	11
A2655NPT3/8	3/8"	17,145	18	110	18	12	9	5	14,5

Tech. Code	Thread NPT	d1 mm	P TPI	L1 mm	L2 mm	d2 mm	a mm	Z	Pre-hole mm
A2655NPT1/2	1/2"	21,336	14	140	23	16	12	5	17,85
A2655NPT3/4	3/4"	26,67	14	150	24	20	16	5	23,2
A2655NPT1	1"	33,401	11,5	170	30	25	20	5	29



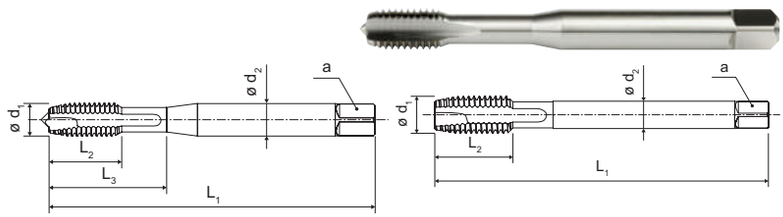
STRAIGHT FLUTE TAP FOR BLIND AND THROUGH-HOLES - M

WRK

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	C 2-3	BRIGHT	RH

P1	P2	P3	P4	K1	K2	N2
15 - 20	15 - 20	10 - 15	10 - 15	10 - 15	8 - 12	20 - 30



DIN 371 DIN 376

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2010M2	M2	0,4	45	8	2,5	2,1	1,6
A2010M3	M3	0,5	56	11	3,5	2,7	2,5
A2010M4	M4	0,7	63	12	4,5	3,4	3,3
A2010M5	M5	0,8	70	14	6	4,9	4,2
A2010M6	M6	1	80	16	6	4,9	5
A2010M8	M8	1,25	90	18	8	6,2	6,8
A2010M10	M10	1,5	100	20	10	8	8,5
A2010M3GP	M3	0,5	56	5	2,2	1,8	2,5
A2010M4GP	M4	0,7	63	12	2,8	2,1	3,3
A2010M5GP	M5	0,8	70	14	3,5	2,7	4,2
A2010M6GP	M6	1	80	16	4,5	3,4	5
A2010M8GP	M8	1,25	90	18	6	4,9	6,8
A2010M10GP	M10	1,5	100	20	7	5,5	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2010M12	M12	1,75	110	24	9	7	10,2
A2010M14	M14	2	110	26	11	9	12
A2010M16	M16	2	110	28	12	9	14
A2010M18	M18	2,5	125	30	14	11	15,5
A2010M20	M20	2,5	140	32	16	12	17,5
A2010M22	M22	2,5	140	32	18	14,5	19,5
A2010M24	M24	3	160	36	18	14,5	21
A2010M27	M27	3	160	36	20	16	24
A2010M30	M30	3,5	180	40	22	18	26,5
A2010M33	M33	3,5	180	40	25	20	29,5
A2010M36	M36	4	200	55	28	22	32
A2010M39	M39	4	200	60	32	24	35
A2010M42	M42	4,5	200	60	32	24	37,5

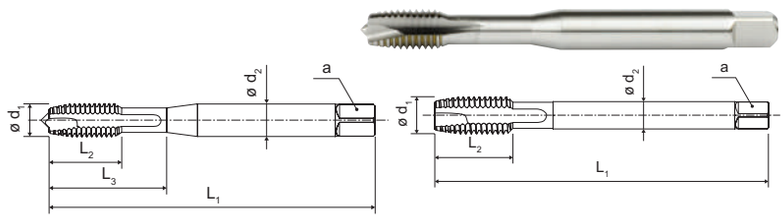
SPIRAL POINT TAP FOR THROUGH-HOLES - M

WRK

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	B 4-5	BRIGHT	RH

P1	P2	P3	P4	K1	K2	N2	N3	N6
20 - 25	20 - 25	10 - 15	10 - 15	10 - 15	8 - 12	20 - 30	15 - 25	6 - 15



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2020M2	M2	0,4	45	8	2,8	2,1	1,6
A2020M2,5	M2,5	0,45	50	9	2,8	2,1	2,05
A2020M3	M3	0,5	56	10	3,5	2,7	2,5
A2020M4	M4	0,7	63	12	4,5	3,4	3,3
A2020M5	M5	0,8	70	14	6	4,9	4,2
A2020M6	M6	1	80	16	6	4,9	5
A2020M8	M8	1,25	90	18	8	6,2	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2020M10	M10	1,5	100	20	10	8	8,5
A2020M12	M12	1,75	110	25	9	7	10,2
A2020M14	M14	2	110	25	11	9	12
A2020M16	M16	2	110	28	12	9	14
A2020M18	M18	2,5	125	32	14	11	15,5
A2020M20	M20	2,5	140	32	16	12	17,5

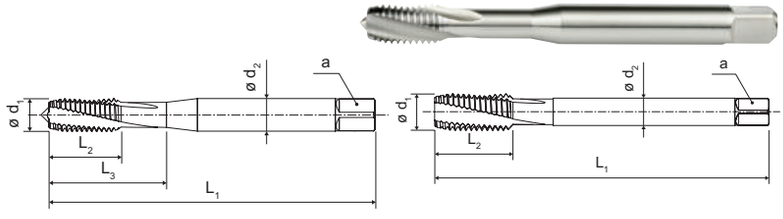
SPIRAL FLUTE 15° TAP FOR BLIND HOLES - M

WRK

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	C 2-3	BRIGHT	RH

P1	P2	P3	P4	M1	K1	K2
20 - 25	20 - 25	10 - 15	10 - 15	8 - 12	10 - 15	8 - 12



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2030M2	M2	0,4	45	8	2,8	2,1	1,6
A2030M2,5	M2,5	0,45	50	9	2,8	2,1	2,05
A2030M3	M3	0,5	56	10	3,5	2,7	2,5
A2030M4	M4	0,7	63	12	4,5	3,4	3,3
A2030M5	M5	0,8	70	14	6	4,9	4,2
A2030M6	M6	1	80	16	6	4,9	5
A2030M8	M8	1,25	90	18	8	6,2	6,8
A2030M10	M10	1,5	100	20	10	8	8,5
A2030M5GP	M5	0,8	70	14	3,5	2,7	4,2
A2030M6GP	M6	1	80	16	4,5	3,4	5
A2030M8GP	M8	1,25	90	18	6	4,9	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2030M10GP	M10	1,5	100	20	7	5,5	8,5
A2030M12	M12	1,75	110	25	9	7	10,2
A2030M14	M14	2	110	25	11	9	12
A2030M16	M16	2	110	28	12	9	14
A2030M18	M18	2,5	125	30	14	11	15,5
A2030M20	M20	2,5	140	32	16	12	17,5
A2030M22	M22	2,5	140	32	18	14,5	19,5
A2030M24	M24	3	160	36	18	14,5	21
A2030M27	M27	3	160	36	20	16	24
A2030M30	M30	3,5	180	40	22	18	26,5

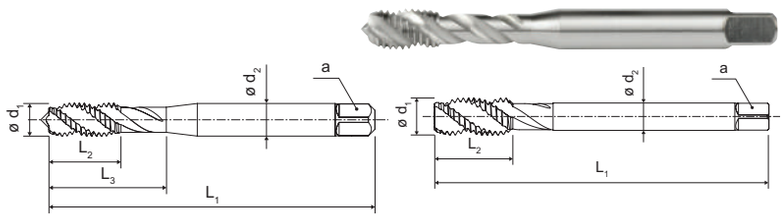
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

WRK

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	C 2-3	BRIGHT	RH

P1	P2	P3	P4	K1	K2	N2
20 - 25	20 - 25	10 - 15	10 - 15	10 - 15	8 - 12	15 - 30



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2040M2	M2	0,4	45	6	2,8	2,1	1,6
A2040M2,5	M2,5	0,45	50	6,5	2,8	2,1	2,05
A2040M3	M3	0,5	56	7	3,5	2,7	2,5
A2040M4	M4	0,7	63	8,5	4,5	3,4	3,3

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2040M5	M5	0,8	70	10	6	4,9	4,2
A2040M6	M6	1	80	12	6	4,9	5
A2040M8	M8	1,25	90	15	8	6,2	6,8
A2040M10	M10	1,5	100	17,5	10	8	8,5

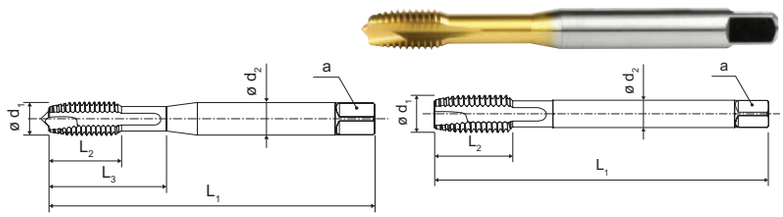
SPIRAL POINT TAP FOR THROUGH-HOLES - M

WRK

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 371 DIN 376	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	B 4-5	TiN	RH

P1	P2	P3	P4	P5	M1	N2	N6
20 - 25	20 - 25	10 - 15	10 - 15	5 - 8	5 - 8	20 - 30	20 - 35



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2125M3	M3	0,5	56	10	3,5	2,7	2,5
A2125M4	M4	0,7	63	12	4,5	3,4	3,3
A2125M5	M5	0,8	70	14	6	4,9	4,2
A2125M6	M6	1	80	16	6	4,9	5
A2125M8	M8	1,25	90	18	8	6,2	6,8
A2125M10	M10	1,5	100	20	10	8	8,5
A2125M12	M12	1,75	110	22	9	7	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2125M14	M14	2	110	24	11	9	12
A2125M16	M16	2	110	26	12	9	14
A2125M18	M18	2,5	125	30	14	11	15,5
A2125M20	M20	2,5	140	30	16	12	17,5
A2125M22	M22	2,5	140	30	18	14,5	19,5
A2125M24	M24	3	160	36	18	14,5	21

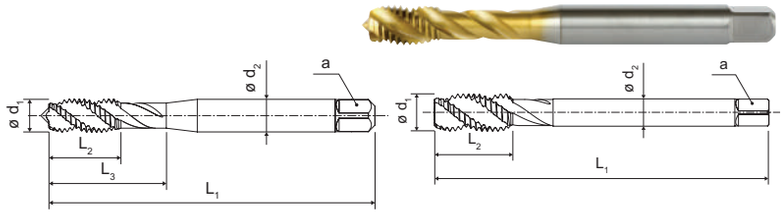
SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

WRK

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 357	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	C 2-3	TiN	RH

P1	P2	P3	P4	P5	M1	N2	N6
20 - 25	20 - 25	10 - 15	10 - 15	5 - 8	5 - 8	20 - 30	20 - 35



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2128M3	M3	0,5	56	7	3,5	2,7	2,5
A2128M4	M4	0,7	63	8	4,5	3,4	3,3
A2128M5	M5	0,8	70	10	6	4,9	4,2
A2128M6	M6	1	80	12	6	4,9	5
A2128M8	M8	1,25	90	15	8	6,2	6,8
A2128M10	M10	1,5	100	18	10	8	8,5
A2128M12	M12	1,75	110	18	9	7	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2128M14	M14	2	110	20	11	9	12
A2128M16	M16	2	110	20	12	9	14
A2128M18	M18	2,5	125	25	14	11	15,5
A2128M20	M20	2,5	140	25	16	12	17,5
A2128M22	M22	2,5	140	25	18	14,5	19,5
A2128M24	M24	3	160	30	18	14,5	21

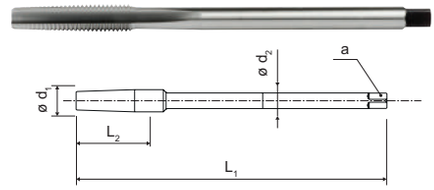
STRAIGHT FLUTE TAP FOR THROUGH-HOLES REDUCED SHANK - M

WRK

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	DIN 357	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	B 18-20	BRIGHT	RH

P1	P2	P3	P4
10 - 15	10 - 15	8 - 10	8 - 10



DIN 357

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2070M4	M4	0,7	90	25	2,8	2,1	3,3
A2070M5	M5	0,8	100	28	3,5	2,7	4,2
A2070M6	M6	1	110	32	4,5	3,4	5
A2070M8	M8	1,25	125	40	6	4,9	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2070M10	M10	1,5	140	45	7	5,5	8,5
A2070M12	M12	1,75	180	50	9	7	10,2
A2070M14	M14	2	200	56	11	9	12
A2070M16	M16	2	209	63	12	9	14

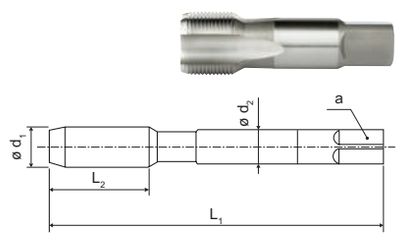
STRAIGHT FLUTE TAP FOR BLIND AND THROUGH HOLES - PG

WRK

DIN 40430	MATERIAL	SHANK	HOLE TYPE
PG	HSSE	DIN 40432	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	C 2-3	BRIGHT	RH

P1	P2	P3	P4	N2	N3
10 - 15	10 - 15	8 - 10	8 - 10	20 - 25	15 - 20



Tech. Code	Thread PG	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2660PG7	7	12,5	20	70	20	9	7	11,4
A2660PG9	9	15,2	18	70	20	12	9	14
A2660PG11	11	18,6	18	80	22	14	11	17,25

Tech. Code	Thread PG	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2660PG13,5	13,5	20,4	18	80	22	16	12	19
A2660PG16	16	22,5	18	80	22	18	14,5	21,25
A2660PG21	21	28,3	16	90	22	22	18	27

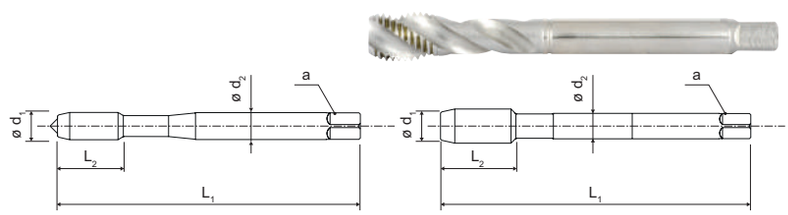
SPIRAL FLUTE 40° TAP FOR THREAD INSERTS - EG - M

WRK

DIN8140-2	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
EG M	FR 6H	HSSE	DIN 40435	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	C 2-3	BRIGHT	RH

P1	P2	P3	P4	K1	K2	N2	N3	N6
15 - 20	15 - 20	12 - 15	12 - 15	8 - 12	3 - 5	20 - 25	15 - 20	12 - 18



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2671M3	M3	0,5	63	7	4,5	3,4	3,2
A2671M4	M4	0,7	70	8	6	4,9	4,2
A2671M5	M5	0,8	80	10	7	5,5	5,2
A2671M6	M6	1	90	13	8	6,2	6,3
A2671M8	M8	1,25	100	15	10	8	8,4

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
A2671M10	M10	1,5	110	18	9	7	10,5
A2671M12	M12	1,75	110	20	11	9	12,5
A2671M14	M14	2	110	20	12	9	14,5
A2671M16	M16	2	125	25	14	11	16,5

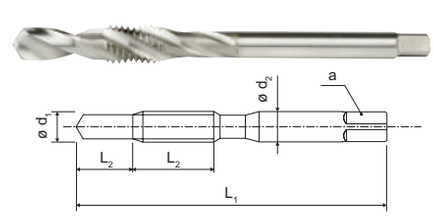
COMBINATION DRILL TAP - M

WRK

DIN13	TOLERANCE	MATERIAL	SHANK	HOLE TYPE
M	ISO 2 6H	HSSE	Factory Standard	

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting	C 2-3	BRIGHT	RH

P1	P2	P3	N2	N3	N6
10 - 15	10 - 22	8 - 10	15 - 20	10 - 15	10 - 15



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Pre-hole mm
A2840M3	M3	0,5	66	10	10	3,5	2,7	2,5
A2840M4	M4	0,7	69	11	11	4,5	3,4	3,3
A2840M5	M5	0,8	81	12	11	6	4,9	4,2
A2840M6	M6	1	82	13	13	6	4,9	5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Pre-hole mm
A2840M8	M8	1,25	101	18	14	6	4,9	6,8
A2840M10	M10	1,5	107	24	15	7	5,6	8,5
A2840M12	M12	1,75	120	25	17	9	7	10,2

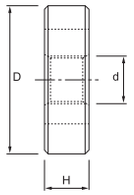
RIGHT-HAND FIXED DIN - M

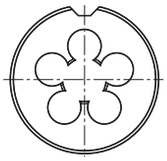
KERFOLG

DIN13	TOLERANCE	MATERIAL
M	ISO 6G	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1,75 x P	BRIGHT	RH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	d1 mm	P mm	D mm	H mm
A2910M2	M2	0,4	16	5
A2910M2,5	M2,5	0,45	16	5
A2910M3	M3	0,5	20	5
A2910M3,5	M3,5	0,6	20	5
A2910M4	M4	0,7	20	5
A2910M5	M5	0,8	20	7
A2910M6	M6	1	20	7
A2910M7	M7	1	25	9

Tech. Code	d1 mm	P mm	D mm	H mm
A2910M8	M8	1,25	25	9
A2910M9	M9	1,25	25	9
A2910M10	M10	1,5	30	11
A2910M11	M11	1,5	30	11
A2910M12	M12	1,75	38	14
A2910M14	M14	2	38	14
A2910M16	M16	2	45	14
A2910M18	M18	2,5	45	18

Tech. Code	d1 mm	P mm	D mm	H mm
A2910M20	M20	2,5	45	18
A2910M22	M22	2,5	55	22
A2910M24	M24	3	55	22
A2910M27	M27	3	65	25
A2910M30	M30	3,5	65	25
A2910M33	M33	3,5	65	25
A2910M36	M36	4	65	25
A2910M39	M39	4	75	30

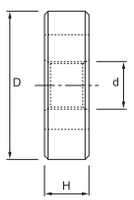
RIGHT-HAND FIXED DIN - MF

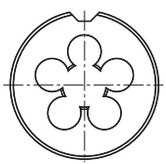
KERFOLG

DIN13	TOLERANCE	MATERIAL
MF	ISO 6G	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1,75 x P	BRIGHT	RH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	d1 mm	P mm	D mm	H mm
A2911MF30,35	MF3	0,35	20	5
A2911MF40,35	MF4	0,35	20	5
A2911MF40,5	MF4	0,5	20	5
A2911MF50,5	MF5	0,5	20	5
A2911MF60,5	MF6	0,5	20	5
A2911MF60,75	MF6	0,75	20	7
A2911MF70,75	MF7	0,75	25	9
A2911MF80,5	MF8	0,5	25	9
A2911MF80,75	MF8	0,75	25	9
A2911MF81	MF8	1	25	9
A2911MF90,75	MF9	0,75	25	9
A2911MF91	MF9	1	25	9
A2911MF100,5	MF10	0,5	30	11
A2911MF100,75	MF10	0,75	30	11
A2911MF101	MF10	1	30	11
A2911MF101,25	MF10	1,25	30	11
A2911MF111	MF11	1	30	11
A2911MF120,75	MF12	0,75	38	10
A2911MF121	MF12	1	38	10
A2911MF121,25	MF12	1,25	38	10

Tech. Code	d1 mm	P mm	D mm	H mm
A2911MF121,5	MF12	1,5	38	10
A2911MF131	MF13	1	38	10
A2911MF141	MF14	1	38	10
A2911MF141,25	MF14	1,25	38	10
A2911MF141,5	MF14	1,5	38	10
A2911MF151	MF15	1	38	10
A2911MF161	MF16	1	45	14
A2911MF161,25	MF16	1,25	45	14
A2911MF161,5	MF16	1,5	45	14
A2911MF171	MF17	1	45	14
A2911MF181	MF18	1	45	14
A2911MF181,5	MF18	1,5	45	14
A2911MF182	MF18	2	45	14
A2911MF201	MF20	1	45	14
A2911MF201,5	MF20	1,5	45	14
A2911MF202	MF20	2	45	14
A2911MF221	MF22	1	55	16
A2911MF221,5	MF22	1,5	55	16
A2911MF222	MF22	2	55	16
A2911MF241	MF24	1	55	16

Tech. Code	d1 mm	P mm	D mm	H mm
A2911MF241,5	MF24	1,5	55	16
A2911MF242	MF24	2	55	16
A2911MF251,5	MF25	1,5	55	16
A2911MF261	MF26	1	65	18
A2911MF261,5	MF26	1,5	65	18
A2911MF271	MF27	1	65	18
A2911MF271,5	MF27	1,5	65	18
A2911MF272	MF27	2	65	18
A2911MF281,5	MF28	1,5	65	18
A2911MF301	MF30	1	65	18
A2911MF301,5	MF30	1,5	65	18
A2911MF302	MF30	2	65	18
A2911MF331,5	MF33	1,5	65	18
A2911MF332	MF33	2	65	18
A2911MF351,5	MF35	1,5	65	18
A2911MF361,5	MF36	1,5	65	18
A2911MF362	MF36	2	65	18
A2911MF381,5	MF38	1,5	75	20
A2911MF401,5	MF40	1,5	75	20

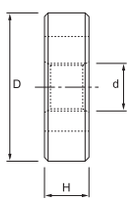
LEFT-HAND FIXED DIN - M

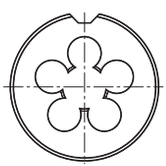
KERFOLG

DIN13	TOLERANCE	MATERIAL
M	ISO 6G	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1,75 x P	BRIGHT	LH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	d1 mm	P mm	D mm	H mm
A2915M2	M2	0,4	16	5
A2915M3	M3	0,5	20	5
A2915M4	M4	0,7	20	5
A2915M5	M5	0,8	20	7
A2915M6	M6	1	20	7
A2915M8	M8	1,25	25	9

Tech. Code	d1 mm	P mm	D mm	H mm
A2915M10	M10	1,5	30	11
A2915M12	M12	1,75	38	14
A2915M14	M14	2	38	14
A2915M16	M16	2	45	14
A2915M18	M18	2,5	45	18
A2915M20	M20	2,5	45	18

Tech. Code	d1 mm	P mm	D mm	H mm
A2915M22	M22	2,5	55	22
A2915M24	M24	3	55	22
A2915M27	M27	3	55	25
A2915M30	M30	3,5	65	25

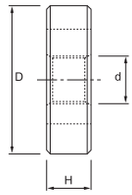
LEFT-HAND FIXED DIE - MF

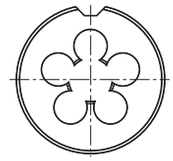
KERFOLG

DIN13	TOLERANCE	MATERIAL
MF	ISO 6G	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1.75 x P	BRIGHT	LH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	d1 mm	P mm	D mm	H mm
A2916MF81	MF8	1	25	9
A2916MF101	MF10	1	30	11
A2916MF101,25	MF10	1,25	30	11
A2916MF121	MF12	1	38	10
A2916MF121,25	MF12	1,25	38	10

Tech. Code	d1 mm	P mm	D mm	H mm
A2916MF121,5	MF12	1,5	38	10
A2916MF141	MF14	1	38	10
A2916MF141,5	MF14	1,5	38	10
A2916MF161	MF16	1	45	14
A2916MF161,5	MF16	1,5	45	14

Tech. Code	d1 mm	P mm	D mm	H mm
A2916MF181,5	MF18	1,5	45	14
A2916MF201,5	MF20	1,5	45	14
A2916MF221,5	MF22	1,5	55	16
A2916MF241,5	MF24	1,5	55	15

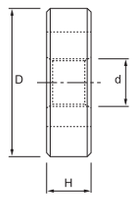
RIGHT-HAND FIXED DIE - M

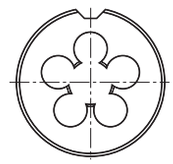
KERFOLG

DIN13	TOLERANCE	MATERIAL
M	ISO 6G	HSSE

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1.75 x P	BRIGHT	RH

P1	P2	P3	M1	M2	N2	N3
○	○	○	●	○	○	○







Tech. Code	d1 mm	P mm	D mm	H mm
A2912M3	M3	0,5	20	5
A2912M4	M4	0,7	20	5
A2912M5	M5	0,8	20	7
A2912M6	M6	1	20	7

Tech. Code	d1 mm	P mm	D mm	H mm
A2912M8	M8	1,25	25	9
A2912M10	M10	1,5	30	11
A2912M12	M12	1,75	38	14
A2912M14	M14	2	38	14

Tech. Code	d1 mm	P mm	D mm	H mm
A2912M16	M16	2	45	14
A2912M18	M18	2,5	45	18
A2912M20	M20	2,5	45	18

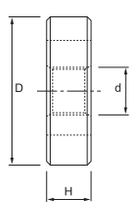
RIGHT-HAND FIXED DIE - TIN - M

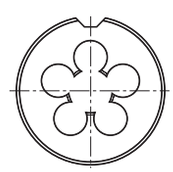
KERFOLG

DIN13	TOLERANCE	MATERIAL
M	ISO 6G	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1.75 x P	TiN	RH

P1	P2	P3	M1	K1	N2	N7	N8
●	●	●	○	○	○	○	○







Tech. Code	d1 mm	P mm	D mm	H mm
A2914M3	M3	0,5	20	5
A2914M4	M4	0,7	20	5
A2914M5	M5	0,8	20	7
A2914M6	M6	1	20	7

Tech. Code	d1 mm	P mm	D mm	H mm
A2914M8	M8	1,25	25	9
A2914M10	M10	1,5	30	11
A2914M12	M12	1,75	38	14
A2914M14	M14	2	38	14

Tech. Code	d1 mm	P mm	D mm	H mm
A2914M16	M16	2	45	14
A2914M18	M18	2,5	45	18
A2914M20	M20	2,5	45	18

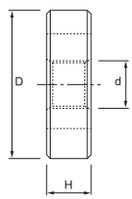
RIGHT-HAND FIXED DIE - TIN - MF

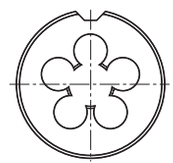
KERFOLG

DIN13	TOLERANCE	MATERIAL
MF	ISO 6G	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1.75 x P	TiN	RH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	d1 mm	P mm	D mm	H mm
A2913MF81	MF8	1	25	9
A2913MF101	MF10	1	30	11
A2913MF10125	MF10	1,25	30	11

Tech. Code	d1 mm	P mm	D mm	H mm
A2913MF12125	MF12	1,25	38	14
A2913MF1215	MF12	1,5	38	14
A2913MF1415	MF14	1,5	38	14

Tech. Code	d1 mm	P mm	D mm	H mm
A2913MF1615	MF16	1,5	45	14
A2913MF1815	MF18	1,5	45	18
A2913MF2015	MF20	1,5	45	18

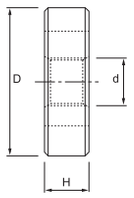
RIGHT-HAND FIXED DIE - BSP

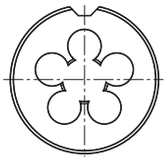
KERFOLG

EN ISO 228	TOLERANCE	MATERIAL
G	CLASSE A	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1,75 x P	BRIGHT	RH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	Thread G	P TPI	D mm	H mm
A2920GAS1/8	1/8"	28	38	10
A2920GAS1/4	1/4"	19	38	10
A2920GAS3/8	3/8"	19	45	14
A2920GAS1/2	1/2"	14	45	14

Tech. Code	Thread G	P TPI	D mm	H mm
A2920GAS5/8	5/8"	14	55	16
A2920GAS3/4	3/4"	14	65	18
A2920GAS7/8	7/8"	14	65	18
A2920GAS1	1"	11	65	18

Tech. Code	Thread G	P TPI	D mm	H mm
A2920GAS11/8	1 1/8"	11	75	20
A2920GAS11/4	1 1/4"	11	75	20
A2920GAS11/2	1 1/2"	11	90	22
A2920GAS2	2"	11	105	22

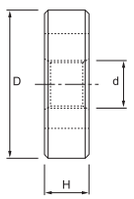
RIGHT-HAND FIXED DIE - UNC

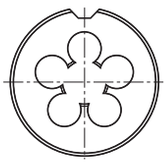
KERFOLG

ASME B1.1	TOLERANCE	MATERIAL
UNC	CLASSE 2A	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1,75 x P	BRIGHT	RH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	Thread UNC	P TPI	D mm	H mm
A2925UNC440	#4	40	20	5
A2925UNC540	#5	40	20	5
A2925UNC632	#6	32	20	5
A2925UNC832	#8	32	20	5
A2925UNC1024	#10	24	20	7
A2925UNC1224	#12	24	20	7

Tech. Code	Thread UNC	P TPI	D mm	H mm
A2925UNC1/4	1/4"	20	20	7
A2925UNC5/16	5/16"	18	25	9
A2925UNC3/8	3/8"	16	30	11
A2925UNC7/16	7/16"	14	30	11
A2925UNC1/2	1/2"	13	38	14
A2925UNC9/16	9/16"	12	38	14

Tech. Code	Thread UNC	P TPI	D mm	H mm
A2925UNC5/8	5/8"	11	45	18
A2925UNC3/4	3/4"	10	45	18
A2925UNC7/8	7/8"	9	55	22
A2925UNC1	1"	8	55	22

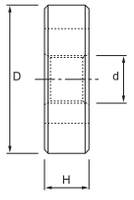
RIGHT-HAND FIXED DIE - UNF

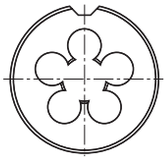
KERFOLG

ASME B1.1	TOLERANCE	MATERIAL
UNF	CLASSE 2A	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1,75 x P	BRIGHT	RH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	Thread UNF	P TPI	D mm	H mm
A2927UNF836	#8	36	20	5
A2927UNF1032	#10	32	20	7
A2927UNF1228	#12	28	20	7
A2927UNF1/4	1/4"	28	20	7
A2927UNF5/16	5/16"	24	25	9

Tech. Code	Thread UNF	P TPI	D mm	H mm
A2927UNF3/8	3/8"	24	30	11
A2927UNF7/16	7/16"	20	30	11
A2927UNF1/2	1/2"	20	38	10
A2927UNF9/16	9/16"	18	38	10
A2927UNF5/8	5/8"	18	45	14

Tech. Code	Thread UNF	P TPI	D mm	H mm
A2927UNF3/4	3/4"	16	45	14
A2927UNF7/8	7/8"	14	55	16
A2927UNF1	1"	12	55	16

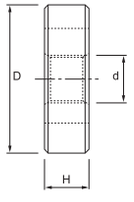
RIGHT-HAND FIXED DIE - BSW

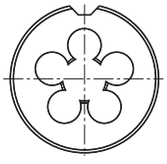
KERFOLG

BS 84	TOLERANCE	MATERIAL
BSW	CLASSE 2A	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1,75 x P	BRIGHT	RH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	Thread BSW	P TPI	D mm	H mm
A2930BSW3/32	3/32"	48	20	5
A2930BSW1/8	1/8"	48	20	5
A2930BSW3/16	3/16"	24	20	7
A2930BSW7/32	7/32"	24	20	7
A2930BSW1/4	1/4"	20	20	7

Tech. Code	Thread BSW	P TPI	D mm	H mm
A2930BSW5/16	5/16"	18	25	9
A2930BSW3/8	3/8"	16	30	11
A2930BSW7/16	7/16"	14	30	11
A2930BSW1/2	1/2"	12	38	14
A2930BSW9/16	9/16"	12	38	14

Tech. Code	Thread BSW	P TPI	D mm	H mm
A2930BSW5/8	5/8"	11	45	18
A2930BSW3/4	3/4"	10	45	18
A2930BSW7/8	7/8"	9	55	22

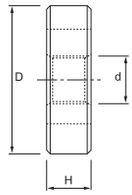
RIGHT-HAND FIXED DIE - PG

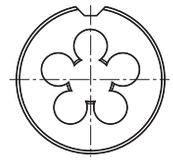
KERFOLG

DIN 40430	MATERIAL
PG	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1,75 x P	BRIGHT	RH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	Thread PG	P TPI	D mm	H mm
A2935PG7	7	20	38	14
A2935PG9	9	18	38	14

Tech. Code	Thread PG	P TPI	D mm	H mm
A2935PG11	11	18	45	14
A2935PG13,5	13,5	18	45	14

Tech. Code	Thread PG	P TPI	D mm	H mm
A2935PG16	16	18	55	16
A2935PG21	21	16	65	18

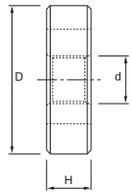
RIGHT-HAND FIXED DIE - BSPT

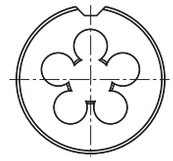
KERFOLG

ISO 7-1	MATERIAL
BSPT	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1,75 x P	BRIGHT	RH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	Thread BSPT	P TPI	D mm	H mm
A2940BSPT1/8	1/8"	28	38	11,5
A2940BSPT1/4	1/4"	19	38	13

Tech. Code	Thread BSPT	P TPI	D mm	H mm
A2940BSPT3/8	3/8"	19	45	15
A2940BSPT1/2	1/2"	14	45	19

Tech. Code	Thread BSPT	P TPI	D mm	H mm
A2940BSPT3/4	3/4"	14	65	22
A2940BSPT1	1"	1	65	20,5

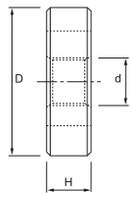
RIGHT-HAND FIXED DIE - NPT

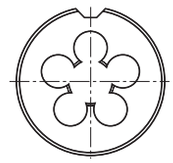
KERFOLG

ASME B1.20.1	MATERIAL
NPT	HSS

TOOL TYPE	CHAMFER	COATING	ROTATION
Cutting die	1,75 x P	BRIGHT	RH

P1	P2	P3	M1	N2
●	●	●	○	○







Tech. Code	Thread NPT	P TPI	D mm	H mm
A2945NPT1/8	1/8"	27	30	10
A2945NPT1/4	1/4"	18	38	15
A2945NPT3/8	3/8"	18	45	15,3

Tech. Code	Thread NPT	P TPI	D mm	H mm
A2945NPT1/2	1/2"	14	45	20
A2945NPT3/4	3/4"	14	55	20,2
A2945NPT1	1"	1,5	65	25

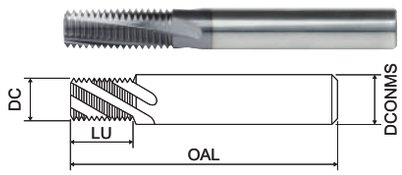
Tech. Code	Thread NPT	P TPI	D mm	H mm
A2945NPT11/4	1 1/4"	1,5	75	25,6
A2945NPT11/2	1 1/2"	1,5	90	26

THREAD MILLING CUTTER 2XD - M-MF

KERFOLG

DIN13	DIN13	MATERIAL	HELIX ANGLE	COATING
M	MF	HM	λ=10°	WIND+

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S	S	S	H
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	●



Cylindrical	M	MF	DC mm	P mm	OAL mm	LU mm	DCONMS	ZEFP
A3013M050D04,5		MF6	4,50	0,50	55	12	6	3
A3013M070D03,1	M4		3,10	0,70	55	8	6	3
A3013M075D04,5		MF6	4,50	0,75	55	12	6	3
A3013M080D04	M5		4,00	0,80	55	12	6	3
A3013M100D04,5	M6-M7		4,50	1,00	55	12	6	3
A3013M100D06		MF8	6,00	1,00	55	15	6	3
A3013M100D08		MF10	8,00	1,00	66	20	8	3
A3013M125D06	M8-M9	MF10	6,00	1,25	66	15	6	3
A3013M125D08		MF12	8,00	1,5	66	20	8	3
A3013M150D08	M10-M11	MF12	8,00	1,50	66	20	8	3

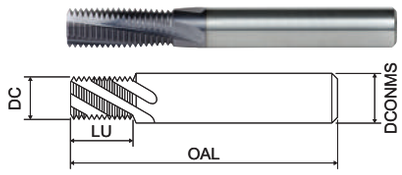
Cylindrical	M	MF	DC mm	P mm	OAL mm	LU mm	DCONMS	ZEFP
A3013M150D10		MF14	10,00	1,50	80	25	10	4
A3013M150D12		MF16	12,00	1,50	85	30	12	4
A3013M175D08	M12		8,00	1,75	66	20	8	3
A3013M200D10	M14		10,00	2,00	80	25	10	4
A3013M200D12	M16		12,00	2,00	82	30	12	4
A3013M200D14		MF18	14,00	2,00	100	35	14	4
A3013M200D16		MF20	16,00	2,00	100	40	16	5
A3013M250D14	M18		14,00	2,50	100	35	14	4
A3013M250D16	M20		16,00	2,50	100	40	16	5

THREAD MILLING CUTTER 2XD - BSP

KERFOLG

EN ISO 228	MATERIAL	HELIX ANGLE	COATING
G	HM	λ=10°	WIND+

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S	S	S	H
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	●



Cylindrical	G	DC mm	P TPI	OAL mm	LU mm	DCONMS	ZEFP
A3016G28D08	1/8	8	66	28	20	8	3
A3016G19D10	1/4	10	80	19	25	10	4
A3016G19D14	3/8	14	100	19	35	14	4

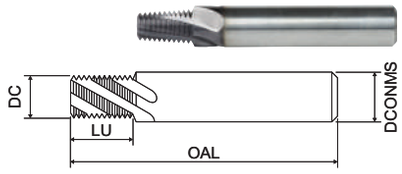
Cylindrical	G	DC mm	P TPI	OAL mm	LU mm	DCONMS	ZEFP
A3016G14D16	1/2	16	100	14	40	16	5
A3016G14D20	5/8 - 3/4 - 7/8	20	110	14	40	20	5
A3016G11D20	>1	20	110	11	40	20	5

THREAD MILLING CUTTER - NPT

KERFOLG

ASME B1.20.1	MATERIAL	HELIX ANGLE	COATING
NPT	HM	λ=10°	WIND+

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S	S	S	H
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	●



Cylindrical	NPT	DC mm	P TPI	OAL mm	LU mm	DCONMS	ZEFP
A3021NP27D05,9	1/16	5,90	27	55	9,88	8	3
A3021NP27D07,6	1/8	7,65	27	55	9,88	8	3
A3021NP18D10,2	1/4	10,15	18	75	14,82	12	4

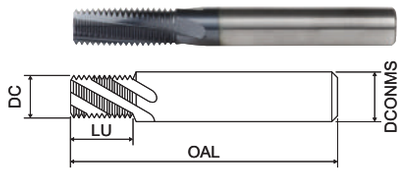
Cylindrical	NPT	DC mm	P TPI	OAL mm	LU mm	DCONMS	ZEFP
A3021NP18D11,2	3/8	11,15	18	75	14,82	12	4
A3021NP14D14,3	1/2 - 3/4	14,25	14	80	19,05	16	4
A3021NP11D19,6	1 - 2	19,60	11 - 1/2	90	23,19	20	5

THREAD MILLING CUTTER 2XD - UN

KERFOLG

ASME B1.1	ASME B1.1	MATERIAL	HELIX ANGLE	COATING
UNC	UNF	HM	λ=10°	WIND+

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S	S	S	H
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	●



Cylindrical	UNC	UNF	DC mm	P TPI	OAL mm	LU mm	DCONMS	ZEFP
A3024UN28D04,5		1/4	4,50	28	55	12	6	3
A3024UN24D05,5		5/16	5,50	24	55	15	6	3
A3024UN24D08		3/8	8,00	24	66	20	8	3
A3024UN20D04,5	1/4		4,50	20	55	12	6	3
A3024UN20D08		7/16	8,00	20	66	20	8	3
A3024UN20D10		1/2	10,00	20	80	25	10	4
A3024UN18D05,5	5/6		5,50	18	55	15	6	3
A3024UN18D10		5/8	10,00	18	80	25	10	4
A3024UN18D12		9/16	12,00	18	83	30	12	4
A3024UN16D07,5	3/8		7,50	16	66	20	8	3

Cylindrical	UNC	UNF	DC mm	P TPI	OAL mm	LU mm	DCONMS	ZEFP
A3024UN16D15,5		3/4	15,50	16	100	40	16	5
A3024UN14D08	7/16		8,00	14	66	20	8	3
A3024UN14D15,5		7/8	15,50	14	100	40	16	5
A3024UN13D10	1/2		10,00	13	80	25	10	4
A3024UN12D10	9/16		10,00	12	80	25	10	4
A3024UN11D12	5/8		12,00	11	80	30	12	4
A3024UN10D15,5	3/4		15,50	10	100	40	16	5
A3024UN09D18	7/8		18,00	9	110	40	18	5
A3024UN08D20	1		20,00	8	110	40	20	5



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KEY TO MILLING ICONS

The icons shown are a summary of what is included on the individual product pages

TOOL TYPE

TOOL TYPE **N** — Tools for general machining

TOOL TYPE **N** — Tools for hardened steel

TOOL TYPE **NR** — Tools for general machining

TOOL TYPE **W** — Tools for aluminium alloy

TOOL TYPE **WR** — Tools for aluminium alloy

TOOL TYPE **VA** — Tools for stainless steel

MATERIAL

MATERIAL **HM** — Solide carbide

MATERIAL **HSS +HM** — Brazed carbide

MATERIAL **HSSE** — High speed steel co 5%

MATERIAL **HSS** — High speed steel

MATERIAL **HSS +Co8** — High speed steel co 8%

TOOL DESIGN

TOOL DESIGN **HPC** — Tool suitable for High Power Cutting

TOOL DESIGN **HFC** — Tool suitable for High Feed Cutting

TOOL DESIGN **HDM** — Tool suitable for High Dynamic Milling

TOOL DESIGN **HSC** — Tool suitable for High Speed Cutting

TOOL DESIGN **MTC** — Tool suitable for Multitasking Cutting

EDGE SHAPE

CORNER — Tool with sharp edge

CORNER — Tool with corner radius

CORNER — Tool with chamfered edge

CORNER — Utensile semisferico

HELIX AND RAKE ANGLES

ANGLES λs= 30° γs= 6° — Helix angle and rake angle

ANGLES λs= 35°/38° γs= 13° — Variable helix angle and rake angle

TOOL LENGTH

EXTRA SHORT — Extra short length

STANDARD — Standard length

EXTRA LONG — Extra long length

SHORT — Short length

LONG — Long length

NUMBER OF CUTTING EDGES

ZEFP — 2 cutting edges

ZEFP — Multi-blade tool

STANDARD DIN

DIN **212 D** — DIN 212 D

DIN **NDF** — Factory standard

SHANK SHAPE

SHANK DIN 6535 HB DIN 6535 HA — Straight shank and weldon shank

SHANK DIN 6535 HB — Weldon shank

SHANK DIN 6535 HA — Straight shank

SHANK DIN 6527 HB DIN 6527 HA — Straight shank and weldon shank

SHANK DIN 6527 HB — Weldon shank

TYPES OF COATING

COATING **DLC** — Monolayer diamond base
Hardness 10000 hv (0,05) - max 650°c
Thickness 9 µ

COATING **AlCrSiN** — AlCrSin coating

COATING **TiCN** — Monolayer carbo nitride of titanium
Hardness 3000 hv (0,05) - max 400°c
Thickness 1,5 - 5 µ

COATING **WIND** — Multilayer TiAlN-TiN base
Hardness 3300 hv (0,05) - max 800°c
Thickness 1,5 - 5 µ

COATING **WIND X** — Monolayer AlCrN
Hardness 3200 hv (0,05) - max 1100°c
Thickness 2 - 5 µ

COATING **BRIGHT** — Lack of coating

COATING **PLATEX** — Multilayer AlTiSiN + Chrome base
Hardness 3875 hv (0,05) - max 1050°c
Thickness 3 - 4 µ

COATING **TiAlN** — Monolayer titanium allumina nitride
Hardness 3300 hv (0,05)- max 800°c
Thickness 1,5 - 4 µ

COATING **AlTiN** — AlTiN coating

COATING **WIND+** — Monolayer aluminium cromium nitride
Hardness 3200 hv (0,05) - max 1100°c
Thickness 3 - 6 µ

COATING **HT300** — Multilayer TiSi base
Hardness 3600 hv (0,05) - max 1200°c
Thickness 2,5 - 3,5 µ

TYPES OF MACHINING

DIRECTIONS — Possibility of machining in 3 directions

SIDE MILLING — Contouring

PLUNGING — Plunge milling

PLUNGING — Plunge milling

CHAMFERING — Chamfering

HELICAL INT. — Helical interpolation

PROFILING — Profiling

TROCHOIDAL — Throcoidal machininc

DIRECTIONS — Possibility of machining in 3 directions

SLOTTING — Slotting

RAMPING — Ramping

ROUNDING — Rounding

CHAMFERING — Chamfering

SLOTTING — Slotting

PROFILING — Profiling

OTHER SPECS

INDEX ≠ — Pitch variability

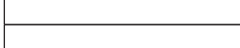
ROUGHER — Presence of a roughing profile

COOLANT **Internal** — Presence of lubrication holes

CHAP A – MILLING TOOLS SECTION – APPLICATIONS INDEX

		Range code	Tool article	Tool type	Flutes number	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	Shank type	Diameter range mm	Corner form	Length	Tool Design	Coating	Coolant	Page
	KERFOLG	A4P41	KPM	W	1				●				HM	DIN 6535 HA	4 - 12			HPC HSC	DLC		90
	KERFOLG	A4P42	KPM	W	1				●				HM	DIN 6535 HA	4 - 12			HPC HSC	DLC		90
	KERFOLG	A4P44	KPM	W	2				●				HM	DIN 6527 HA - HB	3 - 16			HPC	DLC		90
	KERFOLG	A4P52	KPM	W	3				●				HM	DIN 6527 HA - HB	3 - 16			HPC	DLC		90
	KERFOLG	A4P53	KPM	W	3				●				HM	DIN 6527 HA - HB	6 - 16			HPC	DLC		91
	KERFOLG	A4P54	KPM	W	3				●				HM	DIN 6527 HA - HB	6 - 16			HPC	DLC		91
	KERFOLG	A4P47	KPM	W	3				●				HM	DIN 6527 HA - HB	3 - 20			HPC	DLC		91
	KERFOLG	A4P49	KPM	W	3				●				HM	DIN 6527 HA - HB	6 - 16			HPC	DLC		91
	KERFOLG	A4P60	KPM	W	3				●				HM	DIN 6527 HA - HB	4 - 16			HPC	DLC		92
	KERFOLG	A4P55	KPM	WR	3				●				HM	DIN 6527 HA - HB	6 - 16			HPC	DLC		92
	KERFOLG	A4P56	KPM	WR	3				●				HM	DIN 6527 HA - HB	6 - 16			HPC	DLC		92
	KERFOLG	A4P65	KPM	W	6				●				HM	DIN 6527 HA - HB	8 - 20			HPC MTC	DLC		93
	KERFOLG	A4P70	KPM	W	2				●				HM	DIN 6535 HA	3 - 10			HPC	DLC		93
	KERFOLG	A4P71	KPM	W	2				●				HM	DIN 6535 HA	3 - 10			HPC	DLC		93
	KERFOLG	A4P75	KPM	W	4				●				HM	DIN 6535 HB	8 - 20			HDM HPC	DLC		93
	KERFOLG	A4P76	KPM	W	4				●				HM	DIN 6535 HB	10 - 20			HDM HPC	DLC		94

		Range code	Tool article	Tool type	Flutes number	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	Shank type	Diameter range mm	Corner form	Length	Tool Design	Coating	Coolant	Page
	KERFOLG	A4U39	KUM	N	3	●	●	●		●			HM	DIN 6535 HA - HB	2 - 16			HPC MTC	PLATEX		94
	KERFOLG	A4U43	KUM	N	4	●	●	●		●			HM	DIN 6535 HA - HB	4 - 16			HPC	PLATEX		94
	KERFOLG	A4U41	KUM	N	4	●	●	●		●			HM	DIN 6535 HA - HB	4 - 20			HPC	PLATEX		94
	KERFOLG	A4U40	KUM	N	4	●	●	●		●			HM	DIN 6535 HA - HB	3 - 20			HPC	PLATEX		95
	KERFOLG	A4U42	KUM	N	4	●	●	●		●			HM	DIN 6535 HA - HB	6 - 20			HPC	PLATEX		95
	KERFOLG	A4U11	KUM	N	4	●	●	●		●			HM	DIN 6535 HA - HB	4 - 16			HPC	PLATEX		95
	KERFOLG	A4U47	KUM	N	4	●	●	●		●			HM	DIN 6535 HA - HB	4 - 20			HPC	PLATEX		96
	KERFOLG	A4U44	KUM	N	4	●	●	●		●			HM	DIN 6535 HB	3 - 20			HPC MTC	PLATEX		96
	KERFOLG	A4U57	KUM	N	5	●	●	●		●			HM	DIN 6535 HA - HB	6 - 20			HPC MTC	PLATEX		96
	KERFOLG	A4U12	KUM	NR	4	●	●	●		●			HM	DIN 6535 HA - HB	4 - 20			HPC MTC	PLATEX		96
	KERFOLG	A4U25	KUM	N	6	●	●	●		●			HM	DIN 6535 HA - HB	6 - 20			HPC MTC	PLATEX		97
	KERFOLG	A4U60	KUM	N	4	●	●	●		●			HM	DIN 6535 HA - HB	3 - 16			HPC	PLATEX		97
	KERFOLG	A4U65	KUM	N	5	●	●	●		●			HM	DIN 6535 HB	6 - 20			HDM HPC	PLATEX		97
	KERFOLG	A4U66	KUM	N	5	●	●	●		●			HM	DIN 6535 HB	6 - 20			HDM HPC	PLATEX		97
	KERFOLG	A4U67	KUM	N	5	●	●	●		●			HM	DIN 6535 HB	6 - 20			HDM HPC	PLATEX		98
	KERFOLG	A4U70	KUM	N	5	●	●	●		●			HM	DIN 6535 HB	10 - 20			HDM HPC	PLATEX		98

		Range code	Tool article	Tool type	Flutes number	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	Shank type	Diameter range mm	Corner form	Length	Tool Design	Coating	Coolant	Page
	KERFOLG	A4543	KSM	N	4	●	○	●			○		HM	DIN 6527 HA - HB	3 - 20			HPC	AlCrSiN		98
	KERFOLG	A4553	KSM	N	4	●	○	●			○		HM	DIN 6527 HA - HB	3 - 16			HPC	AlCrSiN		99
	KERFOLG	A4516	KSM	N	4	●	○	●			○		HM	DIN 6527 HA - HB	4 - 12			HPC	AlCrSiN		99
	KERFOLG	A4533	KSM	N	2	●	○	●			○		HM	DIN 6527 HA - HB	2 - 20				TiAlN		99
	KERFOLG	A4534	KSM	N	3	●	○	●			○		HM	DIN 6535 HA - HB	2 - 20				TiAlN		100
	KERFOLG	A4535	KSM	N	4	●	○	●			○		HM	DIN 6535 HA - HB	2 - 20				TiAlN		100
	KERFOLG	A4532	KSM	N	3	●	○	●			○		HM	DIN 6535 HA - HB	1 - 20				TiAlN		100
	KERFOLG	A4538	KSM	N	3	●	○	●			○		HM	DIN 6535 HA - HB	4 - 20				TiAlN		101
	KERFOLG	A4539	KSM	N	3	●	○	●			○		HM	DIN 6535 HA - HB	6 - 20				TiAlN		101
	KERFOLG	A4548	KSM	N	4	●	○	●			○		HM	DIN 6535 HA - HB	4 - 20				TiAlN		101
	KERFOLG	A4549	KSM	N	4	●	○	●			○		HM	DIN 6535 HA - HB	6 - 20				TiAlN		101
	KERFOLG	A4550	KSM	N	4	●	○	●			○		HM	DIN 6535 HA - HB	3 - 8				TiAlN		102
	KERFOLG	A4551	KSM	N	4	●	○	●			○		HM	DIN 6535 HA - HB	4 - 12				TiAlN		102
	KERFOLG	A4552	KSM	N	4	●	○	●			○		HM	DIN 6535 HA - HB	6 - 20				TiAlN		102
	KERFOLG	A4507	KSM	NR	3	●	○	●			○		HM	DIN 6535 HA - HB	3 - 20				AlTiN		102
	KERFOLG	A4525	KSM	N	6	●	○	●			○		HM	DIN 6535 HA - HB	6 - 16				TiAlN		103
	KERFOLG	A4518	KSM	N	2	●	○	●			○		HM	DIN 6535 HA - HB	2 - 20				TiAlN		103
	KERFOLG	A4540	KSM	N	2	●	●	●			●		HM	DIN 6535 HA - HB	3 - 12			HFC	TiCN		103
	KERFOLG	A4541	KSM	N	2	●	●	●			●		HM	DIN 6535 HA - HB	3 - 10			HFC	TiCN		103
	KERFOLG	A4510	KSM	N	2	●					●		HM		0,5 - 3				TiAlN		104
	KERFOLG	A4511	KSM	N	2	●					●		HM		0,5 - 2				TiAlN		104
	KERFOLG	A4500	KSM	N	2	●					●		HM		0,5 - 6				TiAlN		104
	KERFOLG	A4501	KSM	N	2	●					●		HM		0,6 - 3				TiAlN		105
	KERFOLG	A4520	KSM	N	2	●					●		HM		0,5 - 4				TiAlN		105
	KERFOLG	A4521	KSM	N	2	●					●		HM		0,5 - 2				TiAlN		105

CHAP A – MILLING TOOLS SECTION – APPLICATIONS INDEX

		Range code	Tool article	Tool type	Flutes number	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	Shank type	Diameter range mm	Corner form	Length	Tool Design	Coating	Coolant	Page
	KERFOLG	A4526	KSM	N	4	●	○	●	○		○		HM	DIN 6535 HA - HB	6 - 16				TiAlN		106
	KERFOLG	A4527	KSM	N	4	●	○	●	○		○		HM	DIN 6535 HA - HB	4 - 16				TiAlN		106
	KERFOLG	A4536	KSM	N	4	●	○	●	○				HM	DIN 6535 HA	3 - 6				TiAlN		106
	KERFOLG	A4537	KSM	N	4	●	○	●	○				HM	DIN 6535 HA	8 - 12				TiAlN		106
	KERFOLG	A4509	KSM	N	4	●	○	●	○				HM	DIN 6535 HA	1 - 12				TiAlN		107
	KERFOLG	A4528	KSM	N	4	●	○	●	○				HM	DIN 6535 HA - HB	1 - 6				TiAlN		107
	KERFOLG	A4565	KSM	W	2				●				HM	DIN 6527 HA - HB	3 - 20			HPC MTC	BRIGHT		108
	KERFOLG	A4563	KSM	W	3				●				HM	DIN 6527 HA - HB	3 - 20			HPC MTC	BRIGHT		108
	KERFOLG	A4572	KSM	W	3				●				HM	DIN 6527 HA - HB	4 - 16			HPC MTC	BRIGHT		108
	KERFOLG	A4564	KSM	W	3				●				HM	DIN 6527 HA - HB	3 - 16			HPC MTC	BRIGHT		109
	KERFOLG	A4566	KSM	WR	3				●				HM	DIN 6527 HB	6 - 20			HPC	BRIGHT		109
	KERFOLG	A4569	KSM	WR	3				●				HM	DIN 6527 HB	6 - 16			HPC	BRIGHT		109
	KERFOLG	A4567	KSM	W	2				●				HM	DIN 6527 HA - HB	3 - 16			HPC MTC	BRIGHT		110
	KERFOLG	A4568	KSM	W	2				●				HM	DIN 6527 HA - HB	3 - 12			HPC MTC	BRIGHT		110
	KERFOLG	A4560	KSM	W	1				●				HM	DIN 6535 HA	1,5 - 12				BRIGHT		110
	KERFOLG	A4570	KSM	W	1				●				HM	DIN 6535 HA	2 - 10				BRIGHT		110
	KERFOLG	A4561	KSM	W	1				●				HM	DIN 6535 HA	1,5 - 12				BRIGHT		111
	KERFOLG	A4571	KSM	W	1				●				HM	DIN 6535 HA	2 - 10				BRIGHT		111

CHAP A – MILLING TOOLS SECTION – APPLICATIONS INDEX

		Range code	Tool article	Tool type	Flutes number	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	Shank type	Diameter range mm	Corner form	Length	Tool Design	Coating	Coolant	Page
	WRK	A4015		N	2	●	●	●					HM	DIN 6535 HA - HB	1 - 20						112
	WRK	A4035		N	3	●	●	●			○		HM	DIN 6535 HA - HB	2 - 20				WIND		112 - 113
	KERFOLG	A4036		VA	3		●			●			HM	DIN 6535 HA - HB	3 - 20				TiAlN		112
	WRK	A4045		N	4	●	●	●					HM	DIN 6535 HA - HB	1 - 20				WIND		113
	KERFOLG	A4118		H	4	●					●		HM	DIN 6535 HA - HB	4 - 12						113
	WRK	A4055		N	4	●	●	●		●	○		HM	DIN 6535 HA - HB	1 - 20				WIND		113
	KERFOLG	A4126		N	4	●		●			●		HM	DIN 6535 HA - HB	6 - 16				WIND		114
	KERFOLG	A4131		VA	4	●		●			●		HM	DIN 6535 HA - HB	6 - 12				WIND		114
	KERFOLG	A4059		N	5	●	●	●		●			HM	DIN 6535 HB	8 - 16			HDM	HT300	Internal coolant	114
	KERFOLG	A4063		N	5	●	●	●		●			HM	DIN 6535 HB	6 - 20			HDM	TiAlN		114
	KERFOLG	A4215		VA		●	○	●		○	●		HM	DIN 6535 HA	6 - 16			HPC MTC	WIND		115
	KERFOLG	A4220		VA		●	○	●		○	●		HM	DIN 6535 HA	4 - 20			HPC MTC	WIND		115
	KERFOLG	A4516		VA	4	●	●			○			HM	DIN 6535 HA - HB	6 - 20				WIND+		115
	KERFOLG	A4138		H	6	●					●		HM	DIN 6535 HA	6 - 16				WIND-X	Internal coolant	115
	WRK	A4315		N	2	●	●	●			○		HM	DIN 6535 HA - HB	1 - 6				WIND		116
	KERFOLG	A4350		N	2	●	○			○	●		HM	DIN 6535 HA	3 - 16				HT300		116
	KERFOLG	A4351		N	2	●	○			○	●		HM	DIN 6535 HA	3 - 12				HT300		116
	KERFOLG	A4352		N	2	●	○			○	●		HM	DIN 6535 HA	3 - 12				HT300		116
	KERFOLG	A4330		H	2	●					●		HM	DIN 6535 HA	1 - 16				WIND-X		117
	KERFOLG	A4427		H	2	●					●		HM	DIN 6535 HA	0,3 - 4				WIND-X		117
	KERFOLG	A4415		H	2	●					●		HM	DIN 6535 HA	0,2 - 3				WIND-X		117
	KERFOLG	A4360		N	2	●	○			●	●		HM	DIN 6535 HA	0,2 - 4						118

CHAP A – MILLING TOOLS SECTION – APPLICATIONS INDEX

		Range code	Tool article	Tool type	Flutes number	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	Shank type	Diameter range mm	Corner form	Length	Tool Design	Coating	Coolant	Page
	WRK	A5010		N	2	●	●	●					HSS +Co8	DIN 6535 HB	1,5 - 22			HPC	BRIGHT		118
	WRK	A5015		N	2	●	●	●					HSS +Co8	DIN 6535 HB	2 - 30			HPC	WIND		119
	WRK	A5020		N	2	●	●	●					HSS +Co8	DIN 6535 HB	1,5 - 22			HPC	BRIGHT		119
	WRK	A5110		N	3		●	●					HSS +Co8	DIN 6535 HB	1,5 - 22			HPC	BRIGHT		119
	WRK	A5210		N	4	●	●	●					HSS +Co8	DIN 6535 HB	2 - 22			HPC	BRIGHT		120
	WRK	A5025		N	2	●	●	●					HSS +Co8	DIN 6535 HB	3 - 25			HPC	WIND		120
	WRK	A5115		N	3	●	●	●					HSS +Co8	DIN 6535 HB	1,5 - 25			HPC	WIND		120
	WRK	A5215		VA	4	●	●	●					HSS +Co8	DIN 6535 HB	2 - 25			HPC	WIND		121
	WRK	A5040		VA	2	●	●	●					HSS +Co8	DIN 6535 HB	2 - 20			HPC	BRIGHT		121
	WRK	A5045		VA	2	●	●	●					HSS +Co8	DIN 6535 HB	2 - 20			HPC	WIND		121
	WRK	A5120		VA	3	●	●	●					HSS +Co8	DIN 6535 HA	3 - 20			HPC	BRIGHT		122
	WRK	A5315		VA	4	●	●	●					HSS +Co8	DIN 6535 HB	5 - 32			HPC	WIND		122
	WRK	A5410		VA		●	●	●					HSSE	DIN 6535 HA	10,5 - 45,5				BRIGHT		122
	WRK	A5415		VA		●	●	●					HSSE	DIN 6535 HB	12,5 - 40				BRIGHT		123
	WRK	A5420		VA		●	●	●					HSSE	DIN 6535 HA	16 - 25				BRIGHT		123
	WRK	A5425		VA		●	●	●					HSSE	DIN 6535 HA	16 - 25				BRIGHT		123
	WRK	A4810				●	●	○	●	○			HM		20 - 80						124
	WRK	A4815				●	●	○	●	○			HM		15 - 100						124
	WRK	A5455				●	●	●					HSSE		63 - 125						125
	WRK	A5465				●	●	●	●				HSS		50 - 125						125
	WRK	A5460				●	●	●	●				HSS		20 - 250						126

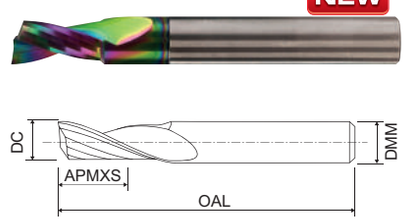
END MILLS WITH VARIABLE HELIX Z1

KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HPC	HSC	λs= 25° γs= 20°		DIN 6535 HA		DLC	

DIRECTIONS	PLUNGING	SLOTTING	SIDE MILLING



Balanced tool (G2.5)
right-hand cutting edge - standard right-hand helix

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●

Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h5 mm	ZEFP
A4P410408	-	4	8	58	6	1
A4P410512	-	5	12	50	6	1
A4P410611	-	6	11	50	6	1

Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h5 mm	ZEFP
A4P410814	-	8	14	64	8	1
A4P411022	-	10	22	63	10	1
A4P411222	-	12	22	73	12	1

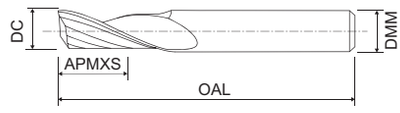
END MILLS WITH VARIABLE HELIX Z1

KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	HPC	HSC	λs= 25° γs= 20°		DIN 6535 HA		DLC	

DIRECTIONS	PLUNGING	SLOTTING	SIDE MILLING



Balanced tool (G2.5)
right-hand cutting edge - standard right-hand helix

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●

Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h5 mm	ZEFP
A4P420418	-	4	18	58	6	1
A4P420518	-	5	18	58	6	1
A4P420617	-	6	17	50	6	1
A4P420625	-	6	25	58	6	1

Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h5 mm	ZEFP
A4P420822	-	8	22	64	8	1
A4P421026	-	10	26	63	10	1
A4P421232	-	12	32	73	12	1

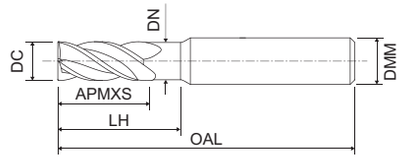
END MILLS WITH VARIABLE HELIX Z2

KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HPC	≠	λs= 44° γs= 20°		DIN 6527 HB DIN 6527 HA		DLC	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.



Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●

Cylindrical	Weldon	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P4403	A4P4403W	3	11	2,9	16	57	6	2
A4P4404	A4P4404W	4	13	3,9	20	57	6	2
A4P4405	A4P4405W	5	13	4,9	20	57	6	2
A4P4406	A4P4406W	6	13	5,9	20	57	6	2

Cylindrical	Weldon	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P4408	A4P4408W	8	21	7,8	25	63	8	2
A4P4410	A4P4410W	10	22	9,7	30	72	10	2
A4P4412	A4P4412W	12	26	11,7	36	83	12	2
A4P4416	A4P4416W	16	36	15,5	42	92	16	2

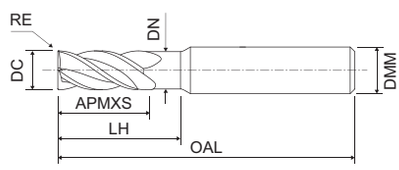
END MILLS WITH VARIABLE PITCH AND HELIX Z3

KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HPC	≠	λs= 41°/46° γs= 20°		DIN 6527 HB DIN 6527 HA		DLC	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.



Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●

Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5203	A4P5203W	3	0,1	8	2,9	13	57	6	3
A4P5204	A4P5204W	4	0,1	11	3,9	17	57	6	3
A4P5205	A4P5205W	5	0,2	13	4,9	18	57	6	3
A4P5206	A4P5206W	6	0,2	13	5,9	18	57	6	3

Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5208	A4P5208W	8	0,2	21	7,8	25	64	8	3
A4P5210	A4P5210W	10	0,3	22	9,8	30	72	10	3
A4P5212	A4P5212W	12	0,4	26	11,7	36	83	12	3
A4P5216	A4P5216W	16	0,6	36	15,5	42	92	16	3

END MILLS WITH VARIABLE PITCH AND HELIX Z3

KERFOLG

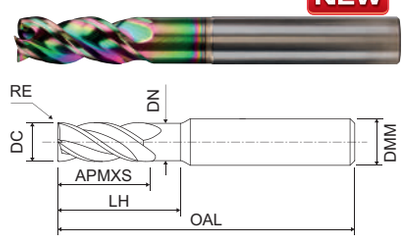
NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	HPC	≠	λs= 41°/46° γs= 20°		DIN 6527 HB DIN 6527 HA		DLC	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5306	A4P5306W	6	0,2	13	5,9	24	62	6	3
A4P5308	A4P5308W	8	0,2	21	7,8	34	68	8	3
A4P5310	A4P5310W	10	0,3	22	9,8	40	80	10	3

Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5312	A4P5312W	12	0,4	26	11,7	48	94	12	3
A4P5316	A4P5316W	16	0,6	36	15,5	48	100	16	3

END MILLS WITH VARIABLE PITCH AND HELIX Z3

KERFOLG

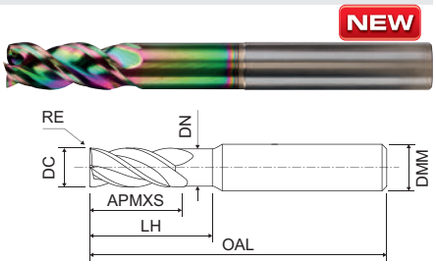
NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	EXTRA LONG
W	HM	HPC	≠	λs= 41°/46° γs= 20°		DIN 6527 HB DIN 6527 HA		DLC	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5406	A4P5406W	6	0,2	13	5,9	30	70	6	3
A4P5408	A4P5408W	8	0,2	21	7,8	40	80	8	3
A4P5410	A4P5410W	10	0,3	22	9,8	50	91	10	3

Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5412	A4P5412W	12	0,4	26	11,7	60	106	12	3
A4P5416	A4P5416W	16	0,6	36	15,5	64	113	16	3

END MILLS WITH VARIABLE PITCH AND HELIX Z3

KERFOLG

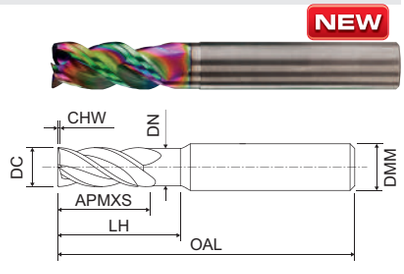
NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HPC	≠	λs= 43°/45° γs= 20°		DIN 6527 HB DIN 6527 HA		DLC	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4P4703	A4P4703W	3	8	2,9	13	57	6	0,1	3
A4P4704	A4P4704W	4	13	3,9	17	57	6	0,1	3
A4P4705	A4P4705W	5	13	4,9	18	57	6	0,1	3
A4P4706	A4P4706W	6	13	5,9	18	57	6	0,2	3
A4P4708	A4P4708W	8	21	7,7	25	63	8	0,2	3

Cylindrical	Weldon	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4P4710	A4P4710W	10	22	9,7	30	72	10	0,2	3
A4P4712	A4P4712W	12	26	11,7	36	83	12	0,2	3
-	A4P4716W	16	36	15,5	42	92	16	0,2	3
-	A4P4720W	20	41	19,5	52	104	20	0,2	3

END MILLS WITH VARIABLE PITCH AND HELIX Z3

KERFOLG

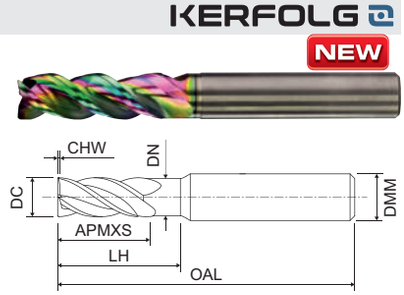
NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	HPC	≠	λs= 43°/45° γs= 20°		DIN 6527 HB DIN 6527 HA		DLC	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4P4906	A4P4906W	6	18	5,9	24	62	6	0,2	3
A4P4908	A4P4908W	8	24	7,7	30	68	8	0,2	3
A4P4910	A4P4910W	10	30	9,7	38	80	10	0,2	3

Cylindrical	Weldon	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4P4912	A4P4912W	12	36	11,7	46	93	12	0,2	3
-	A4P4916W	16	48	15,5	58	108	16	0,2	3

END MILLS WITH VARIABLE PITCH AND HELIX Z3

KERFOLG

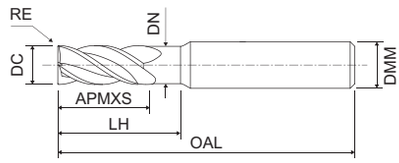
NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HPC	≠	λs= 43°/45° γs= 20°		DIN 6527 HB DIN 6527 HA		DLC	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P600405	A4P600405W	4	0,5	13	3,9	18	57	6	3
A4P600410	A4P600410W	4	1	13	3,9	18	57	6	3
A4P600505	A4P600505W	5	0,5	13	4,9	18	57	6	3
A4P600510	A4P600510W	5	1	13	4,9	18	57	6	3
A4P600605	A4P600605W	6	0,5	19	5,9	19	57	6	3
A4P600610	A4P600610W	6	1	19	5,9	19	57	6	3
A4P600805	A4P600805W	8	0,5	21	7,5	25	63	8	3
A4P600810	A4P600810W	8	1	21	7,5	25	63	8	3

Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P601005	A4P601005W	10	0,5	22	9,7	25	72	10	3
A4P601010	A4P601010W	10	1	22	9,7	30	72	10	3
A4P601020	A4P601020W	10	2	22	9,7	30	72	10	3
A4P601205	A4P601205W	12	0,5	26	11,7	36	83	12	3
A4P601210	A4P601210W	12	1	26	11,7	36	83	12	3
A4P601220	A4P601220W	12	2	26	11,7	36	83	12	3
A4P601610	A4P601610W	16	1	36	15,5	42	92	16	3
A4P601620	A4P601620W	16	2	36	15,5	42	92	16	3

END MILLS WITH VARIABLE PITCH AND HELIX Z3

KERFOLG

NEW

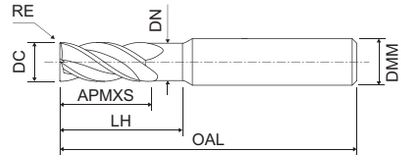
TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD	ROUGHER
WR	HM	HPC	≠	λs= 41°/46° γs= 20°		DIN 6527 HB DIN 6527 HA		DLC		

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●





Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5506	A4P5506W	6	0,2	13	5,8	18	58	6	3
A4P5508	A4P5508W	8	0,2	21	7,8	25	63	8	3
A4P5510	A4P5510W	10	0,3	22	9,7	30	72	10	3

Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5512	A4P5512W	12	0,4	26	11,7	36	84	12	3
A4P5516	A4P5516W	16	0,6	36	15,5	42	92	16	3

END MILLS WITH VARIABLE PITCH AND HELIX Z3

KERFOLG

NEW

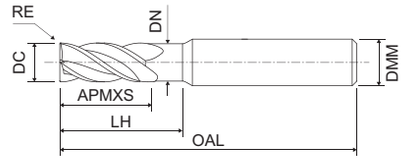
TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG	ROUGHER
WR	HM	HPC	≠	λs= 41°/46° γs= 20°		DIN 6527 HB DIN 6527 HA		DLC		

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●





Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5606	A4P5606W	6	0,2	13	5,8	24	62	6	3
A4P5608	A4P5608W	8	0,2	21	7,8	34	68	8	3
A4P5610	A4P5610W	10	0,3	22	9,7	40	80	10	3

Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P5612	A4P5612W	12	0,4	26	11,7	48	94	12	3
A4P5616	A4P5616W	16	0,6	36	15,5	48	100	16	3

END MILLS WITH VARIABLE PITCH AND HELIX Z6

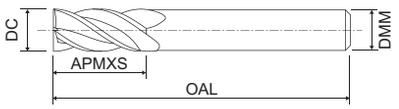
KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	HPC	MTC	≠	λs= 43°/45° γs= 13°		DIN 6527 HB DIN 6527 HA		DLC	

DIRECTIONS	SIDE MILLING	RAMPING	HELICAL INT.





Balanced tool (G2.5)
Angle correction
Tool with maximum taper 0.004mm for extremely precise shoulder

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●

Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h5 mm	ZEFP
A4P6508	A4P6508W	8	24	68	8	6
A4P6510	A4P6510W	10	30	80	10	6
A4P6512	A4P6512W	12	36	93	12	6

Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h5 mm	ZEFP
A4P6516	A4P6516W	16	48	108	16	6
A4P6520	A4P6520W	20	60	126	20	6

END MILLS WITH VARIABLE HELIX Z2

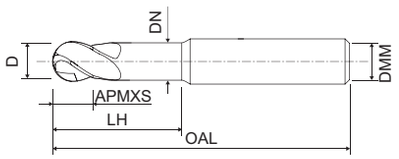
KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HPC		DIN 6535 HA		DLC	

DIRECTIONS	PROFILING





Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●

Cylindrical	Weldon	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P7003	-	3	8	2,8	12	60	3	2
A4P7004	-	4	10	3,8	16	62	4	2
A4P7005	-	5	11	4,8	18	62	5	2

Cylindrical	Weldon	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P7006	-	6	12	5,9	20	62	6	2
A4P7008	-	8	15	7,8	22	68	8	2
A4P7010	-	10	25	9,7	39	80	10	2

END MILLS WITH VARIABLE HELIX Z2

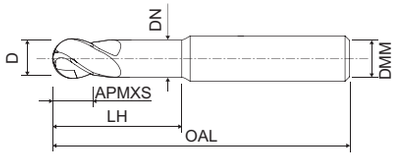
KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	HPC		DIN 6535 HA		DLC	

DIRECTIONS	PROFILING





Balanced instrument (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●

Cylindrical	Weldon	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P7103	-	3	10	2,8	32	75	3	2
A4P7104	-	4	13	3,8	36	75	4	2
A4P7105	-	5	15	4,8	40	75	5	2

Cylindrical	Weldon	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4P7106	-	6	16	5,9	44	100	6	2
A4P7108	-	8	22	7,8	55	100	8	2
A4P7110	-	10	25	9,7	60	100	10	2

END MILLS WITH VARIABLE PITCH AND HELIX Z4

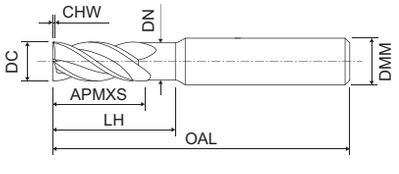
KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HDM	HPC	≠	λs= 43°/45° γs= 13°		DIN 6535 HB		DLC	

DIRECTIONS	TROCHOIDAL	SIDE MILLING	HELICAL INT.





Balanced tool (G2.5).
Highly dynamic milling tools.
CAM software is required for toolpath generation.

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●

Cylindrical	Weldon	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
-	A4P7508W	8	25	7,8	30	68	8	0,2	4
-	A4P7510W	10	31	9,8	38	80	10	0,2	4
-	A4P7512W	12	37	11,7	46	93	12	0,3	4

Cylindrical	Weldon	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
-	A4P7516W	16	49	15,5	58	108	16	0,3	4
-	A4P7520W	20	61	19,5	74	126	20	0,3	4

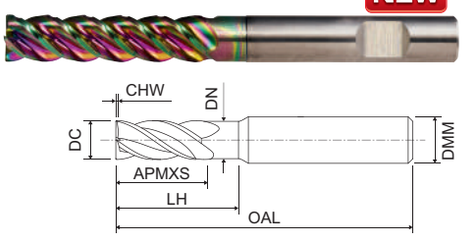
END MILLS WITH VARIABLE PITCH AND HELIX Z4

KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	HDM	HPC	≠	λs= 43°/45° γs= 13°		DIN 6535 HB		DLC	

DIRECTIONS	TROCHOIDAL	SIDE MILLING	HELICAL INT.



Balanced tool (G2.5).
Highly dynamic milling tools.
CAM software is required for toolpath generation.

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●

Cylindrical	Weldon	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
-	A4P7610W	10	41	9,8	50	95	10	0,2	4
-	A4P7612W	12	49	11,7	60	109	12	0,3	4

Cylindrical	Weldon	DC e8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
-	A4P7616W	16	65	15,5	80	132	16	0,3	4
-	A4P7620W	20	82	19,5	100	154	20	0,3	4

END MILLS WITH VARIABLE HELIX Z3

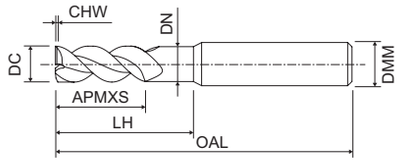
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	MTC	≠	λs= 43°/45° γs= 13°		DIN 6535 HB DIN 6535 HA		PLATEX	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○





Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U3902	A4U3902W	2	5	1,92	10	57	6	0,1	3
A4U3903	A4U3903W	3	8	2,9	15	57	6	0,1	3
A4U3904	A4U3904W	4	11	3,9	16	57	6	0,1	3
A4U3905	A4U3905W	5	13	4,9	19	57	6	0,1	3
A4U3906	A4U3906W	6	13	5,9	19	57	6	0,1	3
A4U3907	A4U3907W	7	19	6,8	25	63	8	0,2	3

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U3908	A4U3908W	8	19	7,8	25	63	8	0,2	3
A4U3910	A4U3910W	10	22	9,7	30	72	10	0,2	3
A4U3912	A4U3912W	12	26	11,7	36	83	12	0,2	3
A4U3914	A4U3914W	14	26	13,7	36	83	14	0,2	3
A4U3916	A4U3916W	16	32	15,5	42	92	16	0,2	3

END MILLS WITH VARIABLE PITCH Z4

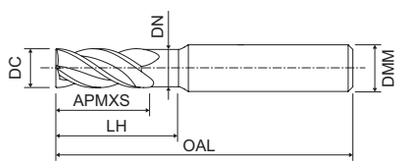
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	≠	λs= 35°/38° γs= 13°		DIN 6535 HB DIN 6535 HA		PLATEX	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○





Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U4304	A4U4304W	4	11			57	6	4
A4U4305	A4U4305W	5	13	4,9	18	57	6	4
A4U4306	A4U4306W	6	13	5,9	18	57	6	4
A4U4308	A4U4308W	8	21	7,8	25	63	8	4

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U4310	A4U4310W	10	22	9,7	30	72	10	4
A4U4312	A4U4312W	12	26	11,7	36	83	12	4
A4U4316	A4U4316W	16	36	15,5	42	92	16	4

END MILLS WITH VARIABLE PITCH Z4

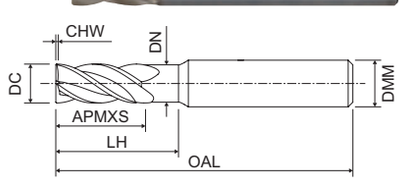
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	SHORT
N	HM	HPC	≠	λs= 35°/38° γs= 13°		DIN 6535 HB DIN 6535 HA		PLATEX	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○





Cylindrical	Weldon	DC f8 mm	APMXS mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4104	A4U4104W	4	8	54	6	0,1	4
A4U4105	A4U4105W	5	9	54	6	0,1	4
A4U4106	A4U4106W	6	10	54	6	0,1	4
A4U4108	A4U4108W	8	12	58	8	0,2	4

Cylindrical	Weldon	DC f8 mm	APMXS mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4110	A4U4110W	10	14	66	10	0,2	4
A4U4112	A4U4112W	12	16	73	12	0,3	4
A4U4116	A4U4116W	16	22	82	16	0,2	4
A4U4120	A4U4120W	20	26	92	20	0,3	4

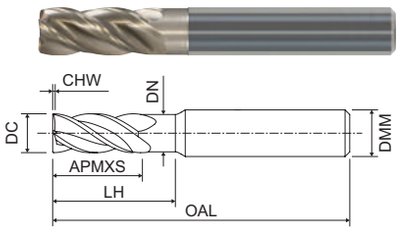
END MILLS WITH VARIABLE PITCH Z4

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	≠	λs= 35°/38° γs= 13°		DIN 6535 HB DIN 6535 HA		PLATEX	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○



Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4003	-	3	8			57	6	0,1	4
A4U4004	A4U4004W	4	11	3,9	12	57	6	0,1	4
A4U4005	A4U4005W	5	13	4,9	18	57	6	0,1	4
A4U4006	A4U4006W	6	13	5,9	18	57	6	0,1	4
A4U4008	A4U4008W	8	21	7,8	25	63	8	0,2	4
A4U4009	A4U4009W	9	22	8,7	30	72	10	0,2	4

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4010	A4U4010W	10	22	9,7	30	72	10	0,2	4
A4U4012	A4U4012W	12	26	11,7	36	83	12	0,3	4
A4U4014	A4U4014W	14	26	13,7	36	83	14	0,3	4
A4U4016	A4U4016W	16	36	15,5	42	92	16	0,3	4
A4U4020	A4U4020W	20	41	19,5	52	103	20	0,3	4

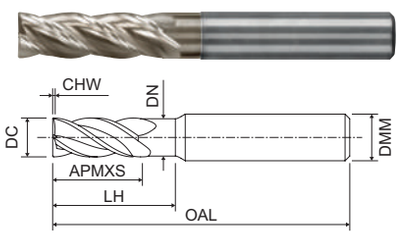
END MILLS WITH VARIABLE PITCH Z4

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
N	HM	HPC	≠	λs= 35°/38° γs= 13°		DIN 6535 HB DIN 6535 HA		PLATEX	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○



Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4206	A4U4206W	6	18	5,9	24	62	6	0,1	4
A4U4208	A4U4208W	8	24	7,8	30	68	8	0,2	4
A4U4210	A4U4210W	10	30	9,7	39	80	10	0,2	4

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4212	A4U4212W	12	36	11,7	46	93	12	0,3	4
A4U4216	A4U4216W	16	48	15,5	58	108	16	0,3	4
A4U4220	A4U4220W	20	60	19,5	75	126	20	0,3	4

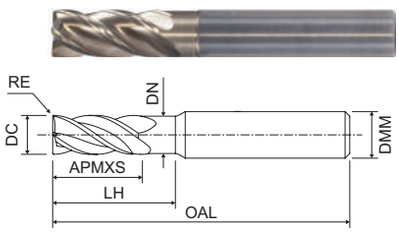
CORNER RADIUS END MILLS WITH VARIABLE PITCH Z4

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	≠	λs= 35°/38° γs= 13°		DIN 6535 HB DIN 6535 HA		PLATEX	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○



Cylindrical	Weldon	DC f8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U110402	A4U110402W	4	0,2	11	3,9	13	57	6	4
A4U110405	A4U110405W	4	0,5	11	3,9	13	57	6	4
A4U110502	A4U110502W	5	0,2	13	4,9	18	57	6	4
A4U110505	A4U110505W	5	0,5	13	4,9	18	57	6	4
A4U110602	A4U110602W	6	0,2	13	5,9	18	57	6	4
A4U110605	A4U110605W	6	0,5	13	5,9	18	57	6	4
A4U110610	A4U110610W	6	1	13	5,9	18	57	6	4
A4U110805	A4U110805W	8	0,5	21	7,8	25	63	8	4
A4U110810	A4U110810W	8	1	21	7,8	25	63	8	4

Cylindrical	Weldon	DC f8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U111005	A4U111005W	10	0,5	22	9,7	30	72	10	4
A4U111010	A4U111010W	10	1	22	9,7	30	72	10	4
A4U111020	A4U111020W	10	2	22	9,7	30	72	10	4
A4U111205	A4U111205W	12	0,5	26	11,7	36	83	12	4
A4U111210	A4U111210W	12	1	26	11,7	36	83	12	4
A4U111220	A4U111220W	12	2	26	11,7	36	83	12	4
A4U111605	A4U111605W	16	0,5	36	15,5	42	92	16	4
A4U111610	A4U111610W	16	1	36	15,5	42	92	16	4
A4U111620	A4U111620W	16	2	36	15,5	42	92	16	4

END MILLS WITH VARIABLE HELIX Z4

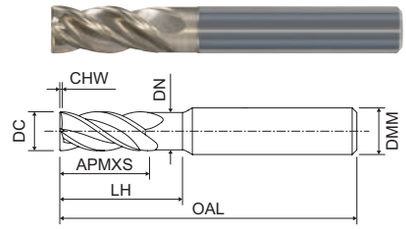
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	≠	λs= 37°/39° γs= 12°		DIN 6535 HB DIN 6535 HA		PLATEX	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

Also highly recommended for ramping, plunging and drilling.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○



Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4704	A4U4704W	4	11	3,9	12	57	6	0,1	4
A4U4705	A4U4705W	5	13	4,9	18	57	6	0,1	4
A4U4706	A4U4706W	6	13	5,9	18	57	6	0,1	4
A4U4708	A4U4708W	8	21	7,8	25	63	8	0,2	4
A4U4710	A4U4710W	10	22	9,7	30	72	10	0,2	4

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U4712	A4U4712W	12	26	11,7	36	83	12	0,3	4
A4U4714	A4U4714W	14	26	13,7	36	83	14	0,3	4
A4U4716	A4U4716W	16	36	15,5	42	92	16	0,3	4
A4U4720	A4U4720W	20	41	19,5	52	103	20	0,3	4

END MILLS WITH VARIABLE PITCH Z4

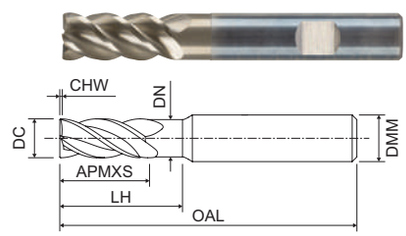
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	MTC	≠	λs= 44°/46° γs= 13°		DIN 6535 HB		PLATEX	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

SOFT CUT. Strongly reccomended to reduce vibration

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○



Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4U4403W	3	8			57	6	0,1	4
A4U4404W	4	11			57	6	0,1	4
A4U4405W	5	13	4,9	18	57	6	0,1	4
A4U4406W	6	13	5,9	18	57	6	0,1	4
A4U4408W	8	21	7,8	25	64	8	0,2	4

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4U4410W	10	22	9,7	30	72	10	0,2	4
A4U4412W	12	26	11,7	36	83	12	0,3	4
A4U4414W	14	26	13,7	36	83	14	0,3	4
A4U4416W	16	36	15,5	42	92	16	0,3	4
A4U4420W	20	41	19,5	52	104	20	0,3	4

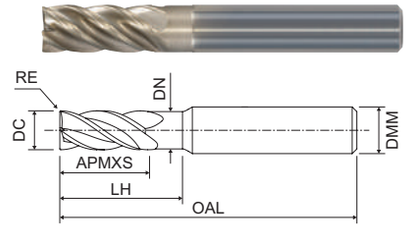
END MILLS WITH VARIABLE PITCH Z5

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	MTC	≠	λs= 35°/38° γs= 13°		DIN 6535 HB DIN 6535 HA		PLATEX	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○



Cylindrical	Weldon	DC f8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U5706	A4U5706W	6	0,1	13	5,9	18	57	6	5
A4U5707	A4U5707W	7	0,2	19	6,8	21	63	8	5
A4U5708	A4U5708W	8	0,2	21	7,8	25	64	8	5
A4U5710	A4U5710W	10	0,2	22	9,7	30	72	10	5

Cylindrical	Weldon	DC f8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U5712	A4U5712W	12	0,5	26	11,7	36	83	12	5
A4U5716	A4U5716W	16	0,5	36	15,5	42	92	16	5
A4U5720	A4U5720W	20	0,5	41	19,5	52	104	20	5

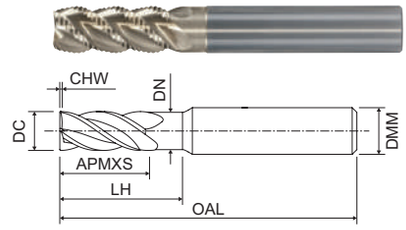
ROUGHING END MILLS Z4 VARIALBLE HELIX

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD	ROUGHER
NR	HM	HPC	MTC	≠	λs= 44°/45,5° γs= 8°		DIN 6535 HB DIN 6535 HA		PLATEX		

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○



Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U1204	A4U1204W	4	11	3,9	16	57	6	0,1	4
A4U1205	A4U1205W	5	13	4,9	18	57	6	0,1	4
A4U1206	A4U1206W	6	13	5,9	20	57	6	0,1	4
A4U1208	A4U1208W	8	21	7,8	26	63	8	0,2	4

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U1210	A4U1210W	10	23	9,7	31	72	10	0,2	4
A4U1212	A4U1212W	12	26	11,7	37	83	12	0,3	4
A4U1216	A4U1216W	16	32	15,5	42	92	16	0,3	4
A4U1220	A4U1220W	20	38	19,5	53	104	20	0,3	4

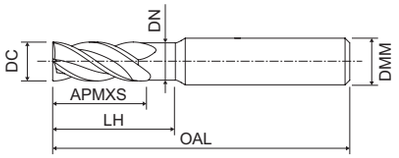
SUPER FINISHING END MILLS WITH CENTRE CUTTING Z6 WTIH VARABLE PITCH

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	MTC	≠	λs= 46°/48° γs= 13°		DIN 6535 HB DIN 6535 HA		PLATEX	

DIRECTIONS	SIDE MILLING	RAMPING	HELICAL INT.





Cutting edge correction.
Tool with maximum taper of 0.004 mm for extremely precise shoulders.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U2506	A4U2506W	6	13	5,9	19	57	6	6
A4U2508	A4U2508W	8	19	7,8	25	63	8	6
A4U2510	A4U2510W	10	22	9,7	30	72	10	6

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U2512	A4U2512W	12	26	11,7	36	83	12	6
A4U2516	A4U2516W	16	32	15,5	42	92	16	6
A4U2520	A4U2520W	20	38	19,5	52	104	20	6

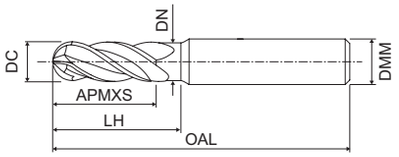
BALL NOSE END MILLS VARIABLE PITCH Z4

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	≠	λs= 36°/39° γs= 11°		DIN 6535 HB DIN 6535 HA		PLATEX	

DIRECTIONS	PROFILING





P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U6003	A4U6003W	3	8			57	6	4
A4U6004	A4U6004W	4	11			57	6	4
A4U6005	A4U6005W	5	13	4,9	18	57	6	4
A4U6006	A4U6006W	6	13	5,9	18	57	6	4

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U6008	A4U6008W	8	21	7,8	25	63	8	4
A4U6010	A4U6010W	10	22	9,7	30	72	10	4
A4U6012	A4U6012W	12	26	11,7	36	83	12	4
A4U6016	A4U6016W	16	36	15,5	42	92	16	4

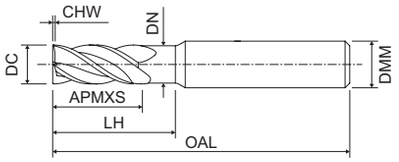
Z5 3XD END MILLS WITH CHIPBREAKER FOR TROCHOIDAL

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HDM	HPC	≠	λs= 39°/45° γs= 10°		DIN 6535 HB		PLATEX	

DIRECTIONS	TROCHOIDAL	SIDE MILLING	HELICAL INT.





Tools for High Dynamic Milling
CAM tool path generation software is needed.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U6506W	6	19	5,9	24	62	6	0,1	5
A4U6508W	8	25	7,8	30	68	8	0,2	5
A4U6510W	10	31	9,8	38	80	10	0,2	5

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U6512W	12	37	11,7	47	93	12	0,3	5
A4U6516W	16	49	15,5	58	108	16	0,3	5
A4U6520W	20	61	19,5	74	126	20	0,3	5

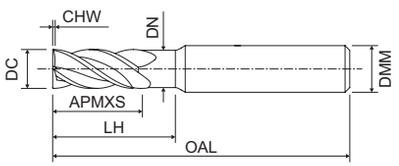
Z5 4XD MILLING CUTTERS WITH CHIPBREAKER FOR TROCHOIDAL

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
N	HM	HDM	HPC	≠	λs= 39°/45° γs= 10°		DIN 6535 HB		PLATEX	

DIRECTIONS	TROCHOIDAL	SIDE MILLING	HELICAL INT.





Tools for High Dynamic Milling
CAM tool path generation software is needed.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U6606W	6	26	5,9	35	70	6	0,1	5
A4U6608W	8	34	7,8	45	80	8	0,2	5
A4U6610W	10	42	9,8	55	90	10	0,2	5

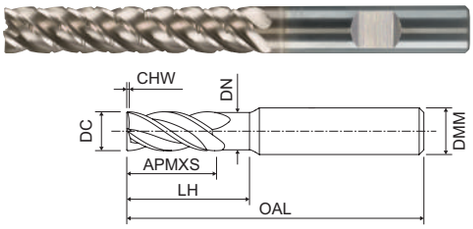
Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U6612W	12	52	11,7	56	103	12	0,3	5
A4U6616W	16	66	15,5	75	125	16	0,3	5
A4U6620W	20	82	19,5	90	140	20	0,3	5

Z5 5XD MILLING CUTTERS WITH CHIPBREAKER FOR TROCHOIDAL

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	EXTRA LONG
N	HM	HDM	HPC	≠	λs= 39°/45° γs= 10°		DIN 6535 HB		PLATEX	

DIRECTIONS	TROCHOIDAL	SIDE MILLING	HELICAL INT.



Tools for High Dynamic Milling
CAM tool path generation software is needed.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	○

Tech. Code	DC f8 mm	APMXS mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U6706W	6	32	70	6	0,1	5
A4U6708W	8	42	80	8	0,2	5
A4U6710W	10	52	100	10	0,2	5

Tech. Code	DC f8 mm	APMXS mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
A4U6712W	12	62	116	12	0,3	5
A4U6716W	16	82	140	16	0,3	5
A4U6720W	20	108	164	20	0,3	5

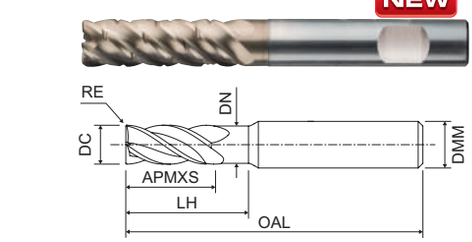
Z5 5XD MILLING CUTTERS WITH CHIPBREAKER FOR TROCHOIDAL

KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HDM	HPC	≠	λs= 39°/45° γs= 10°		DIN 6535 HB		PLATEX	

DIRECTIONS	TROCHOIDAL	SIDE MILLING	HELICAL INT.



Tools for High Dynamic Milling
CAM tool path generation software is needed.

P2	P3	P4	P5	P7	P8	M1	M2	M3	K1	K2	S2	S4
●	●	●	●	●	●	●	●	●	●	●	●	●

Tech. Code	DC f8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U701005W	10	0,5	31	9,8	38	80	10	5
A4U701010W	10	1	31	9,8	38	80	10	5
A4U701020W	10	2	31	9,8	38	80	10	5
A4U701205W	12	0,5	37	11,7	47	93	12	5
A4U701210W	12	1	37	11,7	47	93	12	5
A4U701220W	12	2	37	11,7	47	93	12	5
A4U701605W	16	0,5	49	15,5	58	108	16	5

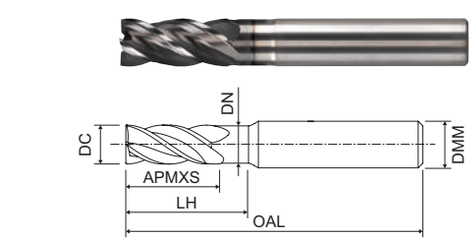
Tech. Code	DC f8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4U701610W	16	1	49	15,5	58	108	16	5
A4U701620W	16	2	49	15,5	58	108	16	5
A4U701630W	16	3	49	15,5	58	108	16	5
A4U702010W	20	1	61	19,5	74	126	20	5
A4U702020W	20	2	61	19,5	74	126	20	5
A4U702030W	20	3	61	19,5	74	126	20	5
A4U702040W	20	4	61	19,5	74	126	20	5

END MILLS WITH VARIABLE PITCH Z4

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	λs= 35°/38° γs= 5°		DIN 6527 HB DIN 6527 HA		AlCrSiN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.



Diameter tolerance DC ≤ 12mm 0 -0,02 - D > 12mm 0 -0,03

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○

Cylindrical	Weldon	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP
A4S4303	A4S4303W	3	8	2,8	12	57	6	4
A4S4304	A4S4304W	4	11	3,8	15	57	6	4
A4S4305	A4S4305W	5	13	4,8	17	57	6	4
A4S4306	A4S4306W	6	13	5,8	21	57	6	4
A4S4308	A4S4308W	8	19	7,7	27	63	8	4

Cylindrical	Weldon	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP
A4S4310	A4S4310W	10	22	9,7	32	72	10	4
A4S4312	A4S4312W	12	26	11,6	38	83	12	4
A4S4316	A4S4316W	16	32	15,5	44	92	16	4
A4S4320	A4S4320W	20	38	19,5	54	104	20	4

END MILLS WITH VARIALBE PITCH Z4

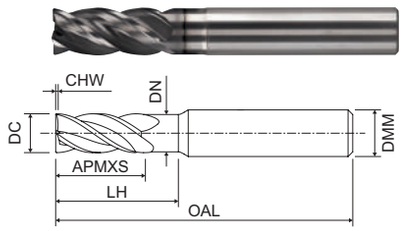
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	λs= 35°/38° γs= 5°		DIN 6527 HB DIN 6527 HA		AlCrSiN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

Diameter tolerance DC ≤ 12mm 0 -0,02 - D > 12mm 0 -0,03

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○



Cylindrical	Weldon	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4S5303	A4S5303W	3	8	2,8	12	57	6	0,15	4
A4S5304	A4S5304W	4	11	3,8	15	57	6	0,15	4
A4S5305	A4S5305W	5	13	4,8	17	57	6	0,15	4
A4S5306	A4S5306W	6	13	5,8	21	57	6	0,2	4

Cylindrical	Weldon	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4S5308	A4S5308W	8	19	7,7	27	63	8	0,2	4
A4S5310	A4S5310W	10	22	9,7	32	72	10	0,3	4
A4S5312	A4S5312W	12	26	11,6	38	83	12	0,3	4
A4S5316	A4S5316W	16	32	15,5	44	92	16	0,3	4

CORNER RADIUS END MILLS WITH VARIABLE HELIX Z4

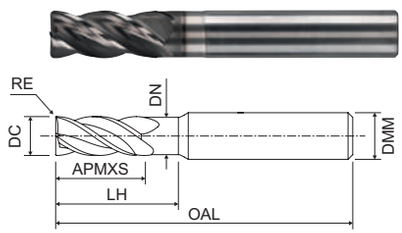
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HPC	λs= 35°/38° γs= 5°		DIN 6527 HB DIN 6527 HA		AlCrSiN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

Diameter tolerance DC ≤ 12mm 0 -0,02 - D > 12mm 0 -0,03

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○



Cylindrical	Weldon	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP
A4S160403	A4S160403W	4	0,3	11	3,8	15	57	6	4
A4S160405	A4S160405W	4	0,5	11	3,8	15	57	6	4
A4S160503	A4S160503W	5	0,3	13	4,8	17	57	6	4
A4S160505	A4S160505W	5	0,5	13	4,8	17	57	6	4
A4S160605	A4S160605W	6	0,5	13	5,8	21	57	6	4
A4S160610	A4S160610W	6	1	13	5,8	21	57	6	4
A4S160805	A4S160805W	8	0,5	19	7,7	27	63	8	4

Cylindrical	Weldon	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP
A4S160810	A4S160810W	8	1	19	7,7	27	63	8	4
A4S161005	A4S161005W	10	0,5	22	9,7	32	72	10	4
A4S161010	A4S161010W	10	1	22	9,7	32	72	10	4
A4S161020	A4S161020W	10	2	22	9,7	32	72	10	4
A4S161205	A4S161205W	12	0,5	26	11,6	38	83	12	4
A4S161210	A4S161210W	12	1	26	11,6	38	83	12	4
A4S161220	A4S161220W	12	2	26	11,6	38	83	12	4

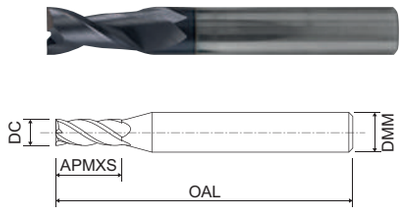
END MILLS FOR SLOTTING Z2

KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 30° γs= 9°		DIN 6527 HB DIN 6527 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○



Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S3302	-	2	6	38	3	2
A4S3303	-	3	7	38	3	2
A4S330306	A4S330306W	3	7	57	6	2
A4S3304	-	4	8	50	4	2
A4S330406	A4S330406W	4	8	57	6	2
A4S3305	-	5	10	50	5	2
A4S330506	A4S330506W	5	10	57	6	2
A4S3306	A4S3306W	6	10	57	6	2

Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S3308	A4S3308W	8	16	63	8	2
A4S3310	A4S3310W	10	19	72	10	2
A4S3312	A4S3312W	12	22	83	12	2
A4S3314	A4S3314W	14	22	83	14	2
A4S3316	A4S3316W	16	26	92	16	2
A4S3318	A4S3318W	18	26	92	18	2
A4S3320	A4S3320W	20	32	104	20	2

END MILLS FOR SLOTTING Z3

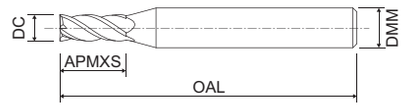
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 30° γs= 9°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S3402	-	2	6	38	3	3
A4S3403	-	3	7	38	3	3
A4S340306	A4S340306W	3	7	57	6	3
A4S3404	-	4	8	50	4	3
A4S340406	A4S340406W	4	8	57	6	3
A4S3405	-	5	10	50	5	3
A4S340506	A4S340506W	5	10	57	6	3
A4S3406	A4S3406W	6	10	57	6	3

Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S3408	A4S3408W	8	16	63	8	3
A4S3410	A4S3410W	10	19	72	10	3
A4S3412	A4S3412W	12	22	83	12	3
A4S3414	A4S3414W	14	22	83	14	3
A4S3416	A4S3416W	16	26	92	16	3
A4S3418	A4S3418W	18	26	92	18	3
A4S3420	A4S3420W	20	32	104	20	3

END MILLS FOR SLOTTING Z4

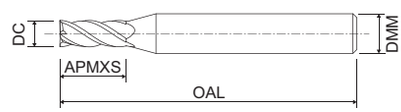
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 30° γs= 9°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S3502	-	2	6	38	3	4
A4S3503	-	3	7	38	3	4
A4S350306	A4S350306W	3	7	57	6	4
A4S3504	-	4	8	50	4	4
A4S350406	A4S350406W	4	8	57	6	4
A4S3505	-	5	10	50	5	4
A4S350506	A4S350506W	5	10	57	6	4
A4S3506	A4S3506W	6	10	57	6	4

Cylindrical	Weldon	DC e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S3508	A4S3508W	8	16	63	8	4
A4S3510	A4S3510W	10	19	72	10	4
A4S3512	A4S3512W	12	22	83	12	4
A4S3514	A4S3514W	14	22	83	14	4
A4S3516	A4S3516W	16	26	92	16	4
A4S3518	A4S3518W	18	26	92	18	4
A4S3520	A4S3520W	20	32	104	20	4

END MILLS Z3

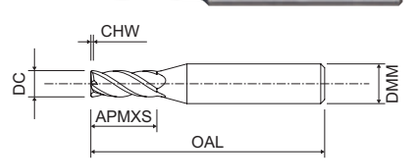
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	EXTRA SHORT
N	HM	λs= 30° γs= 12°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4S3201	-	1	2	38	3	0,02	3
A4S32015	-	1,5	2	38	3	0,02	3
-	A4S3202W	2	4	38	6	0,02	3
-	A4S32025W	2,5	5	37	6	0,05	3
-	A4S3203W	3	5	38	6	0,05	3
-	A4S32035W	3,5	6	38	6	0,05	3
-	A4S3204W	4	7	38	6	0,05	3
-	A4S32045W	4,5	8	38	6	0,05	3
-	A4S3205W	5	8	38	6	0,05	3
-	A4S32055W	5,5	8	38	6	0,05	3
-	A4S320575W	5,75	8	38	6	0,05	3
-	A4S3206W	6	8	38	6	0,05	3

Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
-	A4S3207W	7	10	42	8	0,1	3
-	A4S320775W	7,75	10	42	8	0,1	3
-	A4S3208W	8	11	43	8	0,1	3
-	A4S32087W	8,7	11	48	10	0,1	3
-	A4S3209W	9	11	48	10	0,1	3
-	A4S32097W	9,7	11	48	10	0,1	3
-	A4S3210W	10	13	50	10	0,1	3
-	A4S3212W	12	15	55	12	0,1	3
-	A4S3214W	14	15	58	14	0,15	3
-	A4S3216W	16	18	62	16	0,15	3
-	A4S3220W	20	22	65	20	0,15	3

END MILLS LONG SERIES Z3

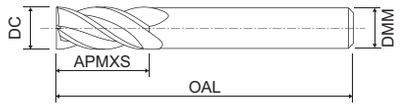
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
N	HM	λs= 35° γs= 9°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S3804060	-	4	20	60	4	3
A4S3805060	-	5	20	60	5	3
A4S3806065	A4S3806065W	6	24	65	6	3
A4S3808080	A4S3808080W	8	32	80	8	3

Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S3810080	A4S3810080W	10	32	80	10	3
A4S3812100	A4S3812100W	12	50	100	12	3
A4S3816120	A4S3816120W	16	60	120	16	3
A4S3820130	A4S3820130W	20	60	130	20	3

MILLING CUTTERS WITH LONG CUTTING EDGE Z3

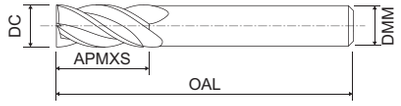
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	EXTRA LONG
N	HM	λs= 35° γs= 9°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S3906080	A4S3906080W	6	40	80	6	3
A4S3908100	A4S3908100W	8	42	100	8	3
A4S3910100	A4S3910100W	10	45	100	10	3

Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S3912150	A4S3912150W	12	75	150	12	3
A4S3916150	A4S3916150W	16	75	150	16	3
A4S3920150	A4S3920150W	20	75	150	20	3

MILLING CUTTERS WITH LONG CUTTING EDGE Z4

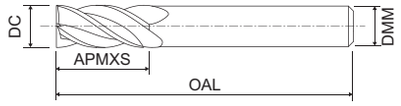
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
N	HM	λs= 30° γs= 9°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S4804060	-	4	20	60	4	4
A4S4805060	-	5	20	60	5	4
A4S4806065	A4S4806065W	6	24	65	6	4
A4S4808080	A4S4808080W	8	32	80	8	4

Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S4810080	A4S4810080W	10	32	80	10	4
A4S4812100	A4S4812100W	12	50	100	12	4
A4S4816120	A4S4816120W	16	60	120	16	4
A4S4820130	A4S4820130W	20	60	130	20	4

MILLING CUTTERS WITH EXTRA-LONG Z4 CUTTING EDGE

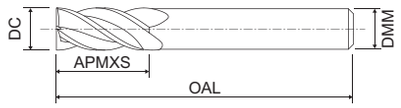
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	EXTRA LONG
N	HM	λs= 30° γs= 9°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S4906080	A4S4906080W	6	40	80	6	4
A4S4908100	A4S4908100W	8	42	100	8	4
A4S4910100	A4S4910100W	10	45	100	10	4

Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S4912150	A4S4912150W	12	75	150	12	4
A4S4916150	A4S4916150W	16	75	150	16	4
A4S4920150	A4S4920150W	20	75	150	20	4

END MILLS Z4

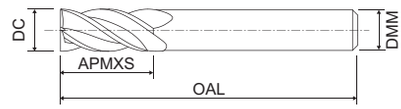
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 35° γs= 8°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM mm	ZEFP
A4S500375	-	3	8	75	4	4
A4S500475	-	4	11	75	4	4
A4S500575	A4S500575W	5	13	75	6	4

Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM mm	ZEFP
A4S500675	A4S500675W	6	15	75	6	4
A4S500875	A4S500875W	8	20	75	8	4

Z4 CUTTERS

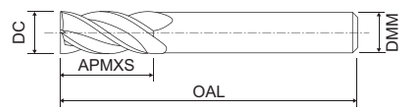
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
N	HM	λs= 35° γs= 8°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM mm	ZEFP
A4S5104100	-	4	11	100	4	4
A4S5106100	A4S5106100W	6	11	100	6	4
A4S5108100	A4S5108100W	8	20	100	8	4

Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM mm	ZEFP
A4S5110100	A4S5110100W	10	25	100	10	4
A4S5112130	A4S5112130W	12	30	100	12	4
A4S5112150	A4S5112150W	12	50	100	12	4

END MILLS Z4

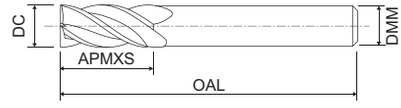
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	EXTRA LONG
N	HM	λs= 35° γs= 8°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM mm	ZEFP
A4S5206150	A4S5206150W	6	16	150	6	4
A4S5208150	A4S5208150W	8	20	150	8	4
A4S5210150	A4S5210150W	10	25	150	10	4
A4S5212150	A4S5212150W	12	30	150	12	4

Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM mm	ZEFP
A4S5214150	A4S5214150W	14	50	150	14	4
A4S5216150	A4S5216150W	16	60	150	16	4
A4S5220200	A4S5220200W	20	90	200	20	4

ROUGHING END MILLS MULTI-CUTTING

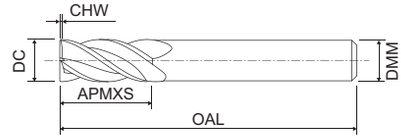
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	ZEFP	ZEFP	SHANK	CORNER	COATING	STANDARD	ROUGHER
NR	HM	λs= 45° γs= -4°				DIN 6535 HB DIN 6535 HA		AlTiN		

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○





Cylindrical	Weldon	DC h11 mm	APMXS mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4S0703	A4S0703W	3	8	57	6	0,15	3
A4S0704	A4S0704W	4	12	57	6	0,15	3
A4S0705	A4S0705W	5	12	57	6	0,15	4
A4S0706	A4S0706W	6	13	57	6	0,15	4
A4S0707	A4S0707W	7	13	63	8	0,15	4
A4S0708	A4S0708W	8	16	63	8	0,2	4
A4S0709	A4S0709W	9	16	70	10	0,2	4

Cylindrical	Weldon	DC h11 mm	APMXS mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4S0710	A4S0710W	10	22	70	10	0,2	4
A4S0711	A4S0711W	11	26	75	12	0,2	4
A4S0712	A4S0712W	12	26	75	12	0,3	4
A4S0714	A4S0714W	14	26	75	14	0,3	4
A4S0715	A4S0715W	15	32	92	16	0,3	4
A4S0716	A4S0716W	16	32	92	16	0,3	6
A4S0720	A4S0720W	20	38	104	20	0,3	6

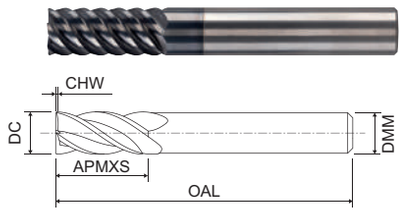
SUPER FINISHING END MILLS Z6

KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 55° γs= 13°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	SIDE MILLING

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○



Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4S2506	A4S2506W	6	13	57	6	0,15	6
A4S2508	A4S2508W	8	19	63	8	0,15	6
A4S2510	A4S2510W	10	22	72	10	0,15	6

Cylindrical	Weldon	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	CHW mm	ZEFP
A4S2512	A4S2512W	12	26	83	12	0,15	6
A4S2516	A4S2516W	16	32	92	16	0,2	6

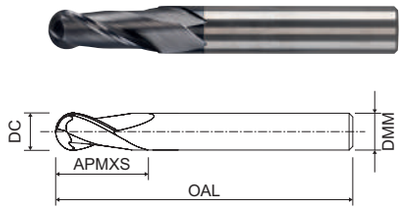
BALL NOSE END MILLS Z2

KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 30° γs= 6°		DIN 6535 HB DIN 6535 HA		TiAlN	

DIRECTIONS	PROFILING

P2	P3	P4	P5	M1	K1	K2	H1
●	●	●	●	○	●	●	○



Cylindrical	Weldon	DC h9 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S1802	-	2	7	38	3	2
A4S1803	A4S1803W	3	8	57	6	2
A4S1804	A4S1804W	4	11	57	6	2
A4S1805	A4S1805W	5	13	57	6	2
A4S1806	A4S1806W	6	13	57	6	2

Cylindrical	Weldon	DC h9 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S1808	A4S1808W	8	19	63	8	2
A4S1810	A4S1810W	10	22	72	10	2
A4S1812	A4S1812W	12	26	83	12	2
A4S1816	A4S1816W	16	32	92	16	2
A4S1820	A4S1820W	20	38	104	20	2

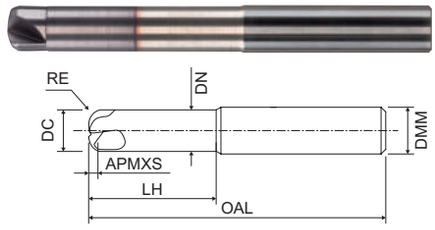
HIGH FEED END MILLS - Z2 - Z3

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	HFC	λs= 0° γs= 0°		DIN 6535 HB DIN 6535 HA		TiCN	

DIRECTIONS	PROFILING

P2	P3	P4	P5	P7	P8	M1	M2	K1	K2	H1
●	●	●	●	●	●	●	○	●	●	●



Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP	r 3D mm
A4S4003	-	3	0,75	0,2	2,9	14	53	3	2	0,70
A4S4004	-	4	1	0,27	3,8	19	53	4	3	0,85
A4S4005	-	5	1,25	0,34	4,8	24	53	5	3	1,20
A4S4006	A4S4006W	6	1,5	0,4	5,8	29	53	6	3	1,40

Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP	r 3D mm
A4S4008	A4S4008W	8	2	0,54	7,7	38	64	8	3	1,95
A4S4010	A4S4010W	10	2,5	0,68	9,7	48	80	10	3	2,30
A4S4012	A4S4012W	12	3	0,81	11,6	52	80	12	3	2,85

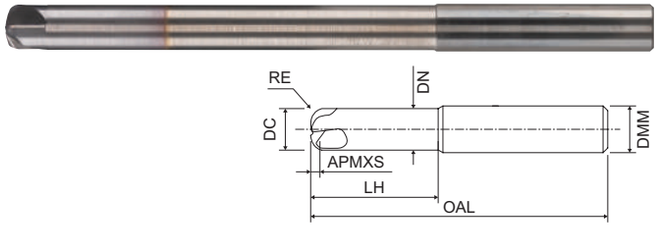
HIGH FEED END MILLS Z2 - Z3

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
N	HM	HFC	λs= 0° γs= 0°		DIN 6535 HB DIN 6535 HA		TiCN	

DIRECTIONS	PROFILING

P2	P3	P4	P5	P7	P8	M1	M2	K1	K2	H1
●	●	●	●	●	●	●	○	●	●	●



Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP	r 3D mm
A4S4103	-	3	0,75	0,2	2,9	26	53	3	2	0,70
A4S4104	-	4	1	0,27	3,8	35	64	4	3	0,85
A4S4106	A4S4106W	6	1,5	0,4	5,8	53	80	6	3	1,40

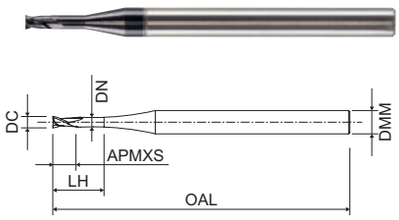
Cylindrical	Weldon	DC e8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP	r 3D mm
A4S4108	A4S4108W	8	2	0,54	7,7	58	106	8	3	1,95
A4S4110	A4S4110W	10	2,5	0,68	9,7	60	106	10	3	2,30

FLAT MICRO END MILLS Z2

KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 35° γs= 0°		Factory Standard		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING



Diameter tolerance DC ≤ 2mm 0 -0,005 - D > 2mm 0 -0,025

P2	P3	P4	P5	P6	H1	H2
●	●	●	●	●	●	○

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S1005020	0,5	1	0,46	2	50	4xDC	4	2
A4S1005040	0,5	1	0,46	4	50	8xDC	4	2
A4S1010060	1	1,5	0,95	6	50	6xDC	4	2
A4S1010080	1	1,5	0,95	8	50	8xDC	4	2
A4S1015080	1,5	2	1,44	8	50	5,3xDC	4	2
A4S1015100	1,5	2	1,44	10	50	6,6xDC	4	2
A4S1015120	1,5	2	1,44	12	50	8xDC	4	2
A4S1020080	2	3	1,92	8	50	4xDC	4	2
A4S1020100	2	3	1,92	10	50	5xDC	4	2
A4S1020120	2	3	1,92	12	50	6xDC	4	2

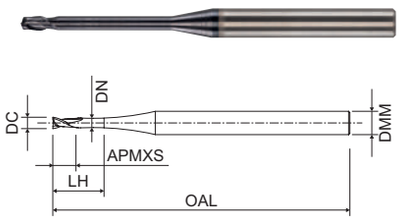
Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S1020160	2	3	1,92	16	50	8xDC	4	2
A4S1025100	2,5	3	2,4	10	50	4xDC	4	2
A4S1025120	2,5	3	2,4	12	50	4,8xDC	4	2
A4S1025160	2,5	3	2,4	16	50	6,4xDC	4	2
A4S1025200	2,5	3	2,4	20	50	8xDC	4	2
A4S1030100	3	4	2,9	10	50	3,3xDC	6	2
A4S1030120	3	4	2,9	12	50	4xDC	6	2
A4S1030160	3	4	2,9	16	50	5,3xDC	6	2
A4S1030200	3	4	2,9	20	50	6,6xDC	6	2
A4S1030250	3	4	2,9	25	50	8,3xDC	6	2

FLAT MICRO END MILLS Z2

KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
N	HM	λs= 35° γs= 0°		Factory Standard		TiAlN	

DIRECTIONS	SLOTTING	SIDE MILLING



Diameter tolerance DC ≤ 2mm 0 -0,005 - D > 2mm 0 -0,025

P2	P3	P4	P5	P6	H1	H2
●	●	●	●	●	●	○

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S1105060	0,5	1	0,46	6	50	12xDC	4	2
A4S1110100	1	1,5	0,95	10	50	10xDC	4	2
A4S1110120	1	1,5	0,95	12	50	12xDC	4	2

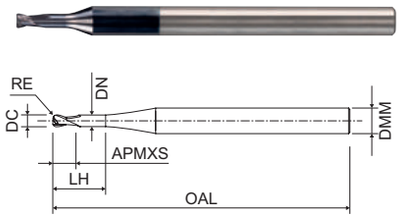
Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S1115160	1,5	2	1,44	16	50	10,6xDC	4	2
A4S1120200	2	3	1,92	20	50	10xDC	4	2

CORNER RADIUS MICRO END MILLS Z2

KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 30° γs= 0°		Factory Standard		TiAlN	

DIRECTIONS	PROFILING



Diameter tolerance DC ≤ 2 mm: 0 -0.005 - D > 2 mm: 0 -0.025

P2	P3	P4	P5	P6	H1	H2
●	●	●	●	●	●	○

Tech. Code	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S0005040	0,5	0,1	1	0,48	4	50	8xDC	4	2
A4S0008040	0,8	0,1	1	0,77	4	50	5xDC	4	2
A4S0008060	0,8	0,1	1	0,77	6	50	7,5xDC	4	2
A4S0010060	1	0,1	0,8	0,95	6	50	6xDC	4	2
A4S0015080	1,5	0,15	1,35	1,44	8	50	5,3xDC	4	2
A4S0015120	1,5	0,15	1,35	1,44	12	55	8xDC	4	2
A4S0020060	2	0,2	1,7	1,92	6	50	3xDC	4	2
A4S0020080	2	0,2	1,7	1,92	8	50	4xDC	4	2
A4S0020100	2	0,2	1,7	1,92	10	50	5xDC	4	2
A4S0020120	2	0,2	1,7	1,92	12	55	6xDC	4	2
A4S0020160	2	0,2	1,7	1,92	16	55	8xDC	4	2

Tech. Code	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S0025130	2,5	0,25	2	2,4	13	58	5,2xDC	6	2
A4S0030100	3	0,3	2,5	2,85	10	58	3,3xDC	6	2
A4S0030120	3	0,3	3	2,85	12	58	4xDC	6	2
A4S0030160	3	0,3	3	2,85	16	65	5,3xDC	6	2
A4S0030200	3	0,3	4	2,85	20	65	6,6xDC	6	2
A4S0040120	4	0,4	4,5	3,9	12	58	3xDC	6	2
A4S0040200	4	0,4	5	3,9	20	65	5xDC	6	2
A4S0040350	4	0,4	3	3,9	35	80	8,7xDC	6	2
A4S0050400	5	0,5	3,5	4,9	40	80	8xDC	6	2
A4S0060500	6	0,5	6	5,9	50	100	8,3xDC	6	2

TOROIDAL MICRO END MILLS Z2

KERFOLG

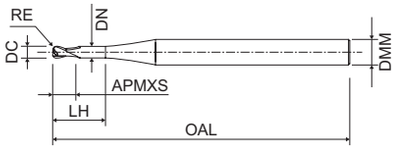
TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	EXTRA LONG
N	HM	λs= 30° γs= 0°		Factory Standard		TiAlN	

DIRECTIONS	PROFILING

Diameter tolerance DC ≤ 2mm 0 -0,005 - D > 2mm 0 -0,025

P2	P3	P4	P5	P6	H1	H2
●	●	●	●	●	●	○





Tech. Code	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S0106060	0,6	0,1	1	0,58	6	50	10xDC	4	2
A4S0110100	1	0,1	0,8	0,95	10	50	10xDC	4	2
A4S0110160	1	0,1	0,8	0,95	16	55	16xDC	4	2
A4S0110200	1	0,1	0,8	0,95	20	60	20xDC	4	2
A4S0112120	1,2	0,1	1,1	1,15	12	55	10xDC	4	2
A4S0115200	1,5	0,15	1,35	1,44	20	60	13,3xDC	4	2

Tech. Code	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S0118200	1,8	0,15	1,6	1,73	20	60	11xDC	4	2
A4S0120200	2	0,2	1,7	1,92	20	60	10xDC	4	2
A4S0120250	2	0,2	1,7	1,92	25	65	12,5xDC	4	2
A4S0120300	2	0,2	1,7	1,92	30	70	15xDC	4	2
A4S0130350	3	0,3	2,5	2,85	35	80	11,6xDC	6	2

BALL NOSE MICRO END MILLS Z2

KERFOLG

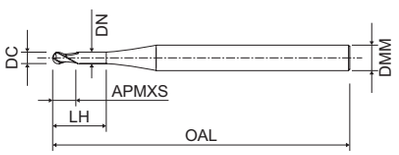
TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 30° γs= 0°		Factory Standard		TiAlN	

DIRECTIONS	PROFILING

Diameter tolerance DC ≤ 2mm 0 -0,005 - D > 2mm 0 -0,025

P2	P3	P4	P5	P6	H1	H2
●	●	●	●	●	●	○





Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S2005020	0,5	1	0,45	2	50	4xDC	4	2
A4S2005040	0,5	1	0,45	4	50	8xDC	4	2
A4S2006040	0,6	1,2	0,55	4	50	6,5xDC	4	2
A4S2008060	0,8	1,2	0,75	6	50	7,5xDC	4	2
A4S2010060	1	1,5	0,95	6	50	6xDC	4	2
A4S2010080	1	1,5	0,95	8	50	8xDC	4	2
A4S2012080	1,2	2	1,15	8	50	6,5xDC	4	2
A4S2015080	1,5	2	1,44	8	50	5,2xDC	4	2
A4S2015120	1,5	2	1,44	12	50	8xDC	4	2
A4S2016080	1,6	2,5	1,55	8	50	5xDC	4	2
A4S2016120	1,6	2,5	1,55	12	50	7,5xDC	4	2
A4S2020080	2	3	1,95	8	50	4xDC	4	2

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S2020120	2	3	1,95	12	50	6xDC	4	2
A4S2020160	2	3	1,95	16	50	8xDC	4	2
A4S2030080	3	4	2,9	8	50	2,5xDC	6	2
A4S2030100	3	4	2,9	10	50	3,3xDC	6	2
A4S2030160	3	4	2,9	16	50	5,3xDC	6	2
A4S2030200	3	4	2,9	20	60	6,6xDC	6	2
A4S2030250	3	4	2,9	25	60	8,3xDC	6	2
A4S2040100	4	5	3,9	10	75	2,5xDC	6	2
A4S2040150	4	5	3,9	15	75	3,7xDC	6	2
A4S2040200	4	5	3,9	20	75	5xDC	6	2
A4S2040250	4	5	3,9	25	75	6,2xDC	6	2
A4S2040300	4	5	3,9	30	75	7,5xDC	6	2

SEMI -SPHERICAL MICRO END MILLS Z2

KERFOLG

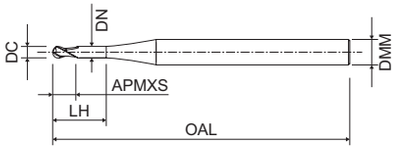
TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	EXTRA LONG
N	HM	λs= 30° γs= 0°		Factory Standard		TiAlN	

DIRECTIONS	PROFILING

Diameter tolerance DC ≤ 2 mm: 0 -0.005 - D > 2 mm: 0 -0.025

P2	P3	P4	P5	P6	H1	H2
●	●	●	●	●	●	○





Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S2105060	0,5	1	0,45	6	50	12xDC	4	2
A4S2106060	0,6	1,2	0,55	6	50	10xDC	4	2
A4S2108080	0,8	1,2	0,75	8	50	10xDC	4	2
A4S2110100	1	1,5	0,95	10	50	10xDC	4	2
A4S2110120	1	1,5	0,95	12	50	12xDC	4	2

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP
A4S2112120	1,2	2	1,15	12	50	10xDC	4	2
A4S2115160	1,5	2	1,44	16	50	10,5xDC	4	2
A4S2115200	1,5	2	1,44	20	50	13xDC	4	2
A4S2116160	1,6	1,5	1,55	16	50	10xDC	4	2
A4S2120200	2	3	1,95	20	50	10xDC	4	2

CHAMFER END MILLS - 90° Z4

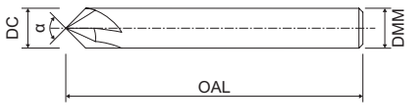
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	COATING	STANDARD
N	HM	λs= 0° γs= 0°		DIN 6535 HB DIN 6535 HA	TiAlN	

DIRECTIONS	CHAMFERING

P2	P3	P4	M1	K1	K2	N2	N3	N4	H1
●	●	●	○	●	●	○	○	○	○





Cylindrical	Weldon	DC mm	α°	OAL mm	DMM h6 mm	ZEFP
A4S2606	A4S2606W	6	90	60	6	4
A4S2608	A4S2608W	8	90	70	8	4
A4S2610	A4S2610W	10	90	75	10	4

Cylindrical	Weldon	DC mm	α°	OAL mm	DMM h6 mm	ZEFP
A4S2612	A4S2612W	12	90	75	12	4
A4S2616	A4S2616W	16	90	80	16	4

END MILLS FOR BEVELING 120° Z4

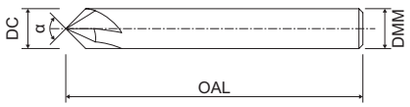
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	COATING	STANDARD
N	HM	λs= 0° γs= 0°		DIN 6535 HB DIN 6535 HA	TiAlN	

DIRECTIONS	CHAMFERING

P2	P3	P4	M1	K1	K2	N2	N3	N4	H1
●	●	●	○	●	●	○	○	○	○





Cylindrical	Weldon	DC mm	α°	OAL mm	DMM h6 mm	ZEFP
A4S2704	-	4	120	50	4	4
A4S2706	A4S2706W	6	120	50	6	4
A4S2708	A4S2708W	8	120	60	8	4

Cylindrical	Weldon	DC mm	α°	OAL mm	DMM h6 mm	ZEFP
A4S2710	A4S2710W	10	120	75	10	4
A4S2712	A4S2712W	12	120	75	12	4
A4S2716	A4S2716W	16	120	100	16	4

CHAMFER END MILLS - 45°

KERFOLG

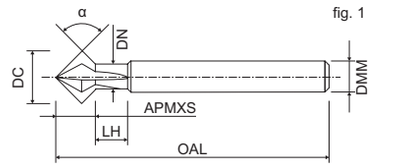
TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	COATING	STANDARD
N	HM	λs= 0° γs= 0°		DIN 6535 HA	TiAlN	

DIRECTIONS	CHAMFERING

P2	P3	P4	M1	K1	K2	N2	N3	N4
●	●	●	○	●	●	○	○	○



fig. 1



Tech. Code	DC mm	APMXS mm	DN mm	α°	LH mm	OAL mm	DMM h6 mm	ZEFP
A4S3603	3	2	2,2	90	10	75	4	4
A4S3604	4	2,7	2,9	90	13	75	4	4

Tech. Code	DC mm	APMXS mm	DN mm	α°	LH mm	OAL mm	DMM h6 mm	ZEFP
A4S3605	5	3	3,9	90	15	75	5	4
A4S3606	6	4	3,9	90	15	100	6	4

CHAMFER END MILLS - 45°

KERFOLG

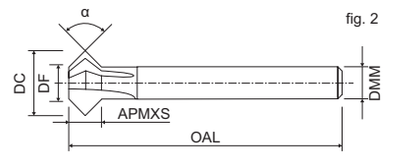
TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	COATING	STANDARD
N	HM	λs= 0° γs= 0°		DIN 6535 HA	TiAlN	

DIRECTIONS	CHAMFERING

P2	P3	P4	M1	K1	K2	N2	N3	N4
●	●	●	○	●	●	○	○	○



fig. 2



Tech. Code	DC mm	APMXS mm	α°	OAL mm	DMM h6 mm	DF mm	ZEFP
A4S3708	8	2	90	100	6	5,9	4
A4S3710	10	4	90	100	6	5,9	4

Tech. Code	DC mm	APMXS mm	α°	OAL mm	DMM h6 mm	DF mm	ZEFP
A4S3712	12	6	90	100	6	5,9	4

MULTI-FUNCTION END MILLS 90° Z2

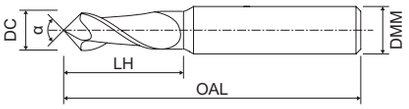
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	COATING	STANDARD
N	HM	λs= 0° γs= 0°		DIN 6535 HA	TiAlN	

DIRECTIONS	CHAMFERING







Multifunction tool for drilling, chamfering, spot drilling etc.

P1	P2	P3	P4	P5	M1	K1	K2	N2	N3
●	●	●	●	●	○	●	●	○	○

Tech. Code	DC h7 mm	α°	t mm	LH mm	OAL mm	DMM h6 mm	ZEFP
A4S09010	1	90	0,1	2	40	3	2
A4S09015	1,5	90	0,15	3	40	3	2
A4S09020	2	90	0,2	4	40	3	2
A4S09030	3	90	0,3	6	50	4	2
A4S09040	4	90	0,4	8	50	5	2

Tech. Code	DC h7 mm	α°	t mm	LH mm	OAL mm	DMM h6 mm	ZEFP
A4S09050	5	90	0,5	10	50	6	2
A4S09060	6	90	0,6	12	60	8	2
A4S09080	8	90	0,8	16	70	10	2
A4S09100	10	90	1	18	75	12	2
A4S09120	12	90	1,2	20	75	12	2

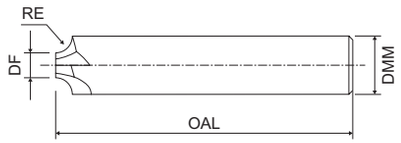
CORNER - ROUNDING END MILLS

KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	COATING	SHORT
N	HM	λs= 0° γs= 0°		DIN 6535 HB DIN 6535 HA	TiAlN	

DIRECTIONS	ROUNDING





P1	P2	P3	P4	P5	M1	K1	K2	N2	N3
●	●	●	●	●	○	●	●	○	○

Cylindrical	Weldon	RE +/-0,02 mm	OAL mm	DMM h6 mm	DF h10 mm	ZEFP
A4S2810	A4S2810W	1	50	10	8	4
A4S2815	A4S2815W	1,5	50	10	7	4
A4S2820	A4S2820W	2	50	10	6	4
A4S2825	A4S2825W	2,5	50	10	5	4

Cylindrical	Weldon	RE +/-0,02 mm	OAL mm	DMM h6 mm	DF h10 mm	ZEFP
A4S2830	A4S2830W	3	60	12	6	4
A4S2840	A4S2840W	4	60	12	4	4
A4S2850	A4S2850W	5	75	16	6	4
A4S2860	A4S2860W	6	75	16	4	4



END MILLS FOR ALUMINUM ALLOYS Z2

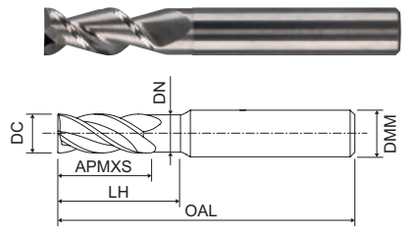
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HPC	MTC		DIN 6527 HB / DIN 6527 HA		BRIGHT	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

Balanced tool (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4S6503	A4S6503W	3	11	2,9	16	57	6	2
A4S6504	A4S6504W	4	13	3,9	20	57	6	2
A4S6505	A4S6505W	5	13	4,9	20	57	6	2
A4S6506	A4S6506W	6	13	5,9	20	57	6	2
A4S6508	A4S6508W	8	21	7,8	25	63	8	2

Cylindrical	Weldon	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4S6510	A4S6510W	10	22	9,7	30	72	10	2
A4S6512	A4S6512W	12	26	11,7	36	83	12	2
A4S6516	A4S6516W	16	36	15,5	42	92	16	2
A4S6520	A4S6520W	20	41	19,5	52	103	20	2

END MILLS FOR LIGHT ALLOYS Z3

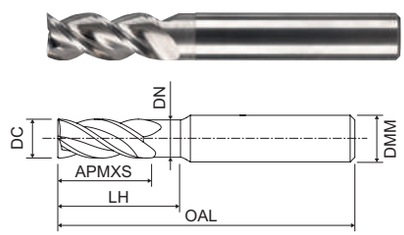
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HPC	MTC		DIN 6527 HB / DIN 6527 HA		BRIGHT	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

Balanced tool (G2,5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC h10 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4S6303	A4S6303W	3	8	2,9	13	57	6	3
A4S6304	A4S6304W	4	11	3,9	17	57	6	3
A4S6305	A4S6305W	5	13	4,9	18	57	6	3
A4S6306	A4S6306W	6	13	5,9	18	57	6	3
A4S6308	A4S6308W	8	21	7,8	25	63	8	3

Cylindrical	Weldon	DC h10 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4S6310	A4S6310W	10	22	9,8	30	72	10	3
A4S6312	A4S6312W	12	26	11,7	36	83	12	3
A4S6316	A4S6316W	16	36	15,5	42	92	16	3
A4S6320	A4S6320W	20	41	19,5	52	103	20	3

END MILLS FOR LIGHT ALLOYS Z3

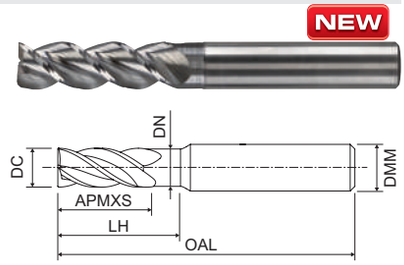
KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	HPC	MTC		DIN 6527 HB / DIN 6527 HA		BRIGHT	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	HELICAL INT.

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	ZEFP
A4S7204	A4S7204W	4	16	3,9	22	62	6	3
A4S7205	A4S7205W	5	17	4,9	24	62	6	3
A4S7206	A4S7206W	6	19	5,9	24	62	6	3
A4S7208	A4S7208W	8	24	7,8	38	68	8	3

Cylindrical	Weldon	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	ZEFP
A4S7210	A4S7210W	10	30	9,8	38	80	10	3
A4S7212	A4S7212W	12	36	11,7	46	93	12	3
A4S7216	A4S7216W	16	48	15,5	58	108	16	3

END MILLS FOR LIGHT ALLOYS Z3

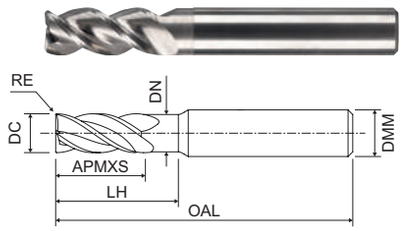
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TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HPC	MTC		DIN 6527 HB DIN 6527 HA		BRIGHT	

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

Balanced tool (G2,5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC h6 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4S640305	A4S640305W	3	0,5	8	2,9	13	57	6	3
A4S640310	A4S640310W	3	1	8	2,9	13	57	6	3
A4S640405	A4S640405W	4	0,5	11	3,9	17	57	6	3
A4S640410	A4S640410W	4	1	11	3,9	17	57	6	3
A4S640505	A4S640505W	5	0,5	13	4,9	18	57	6	3
A4S640510	A4S640510W	5	1	13	4,9	18	57	6	3
A4S640605	A4S640605W	6	0,5	13	5,9	18	57	6	3
A4S640610	A4S640610W	6	1	13	5,9	18	57	6	3
A4S640615	A4S640615W	6	1,5	13	5,9	18	57	6	3
A4S640805	A4S640805W	8	0,5	21	7,8	25	64	8	3
A4S640810	A4S640810W	8	1	21	7,8	25	64	8	3
A4S640820	A4S640820W	8	2	21	7,8	25	64	8	3

Cylindrical	Weldon	DC h6 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4S641005	A4S641005W	10	0,5	22	9,8	30	72	10	3
A4S641010	A4S641010W	10	1	22	9,8	30	72	10	3
A4S641015	A4S641015W	10	1,5	22	9,8	30	72	10	3
A4S641020	A4S641020W	10	2	22	9,8	30	72	10	3
A4S641205	A4S641205W	12	0,5	26	11,7	36	83	12	3
A4S641210	A4S641210W	12	1	26	11,7	36	83	12	3
A4S641215	A4S641215W	12	1,5	26	11,7	36	83	12	3
A4S641220	A4S641220W	12	2	26	11,7	36	83	12	3
A4S641605	A4S641605W	16	0,5	36	15,5	42	92	16	3
A4S641610	A4S641610W	16	1	36	15,5	42	92	16	3
A4S641620	A4S641620W	16	2	36	15,5	42	92	16	3

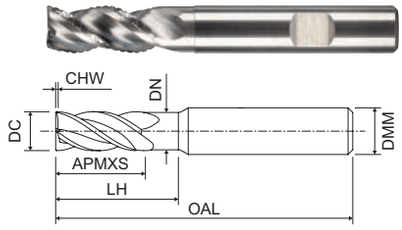
ROUGHING END MILLS FOR ALUMINUM ALLOYS Z3

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD	ROUGHER
WR	HM	HPC	≠	λs= 43°/45° γs= 20°		DIN 6527 HB		BRIGHT		

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
-	A4S6606W	6	13	5,9	18	57	6	0,1	3
-	A4S6608W	8	21	7,8	25	63	8	0,2	3
-	A4S6610W	10	22	9,7	30	72	10	0,2	3

Cylindrical	Weldon	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP
-	A4S6612W	12	26	11,7	36	83	12	0,3	3
-	A4S6616W	16	36	15,5	42	92	16	0,3	3
-	A4S6620W	20	41	19,5	52	103	20	0,3	3

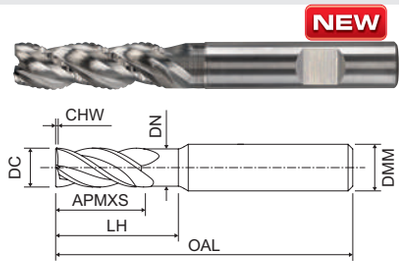
ROUGHING END MILLS FOR ALUMINUM ALLOYS Z3

KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	INDEX	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG	ROUGHER
WR	HM	HPC	≠	λs= 43°/45° γs= 20°		DIN 6527 HB		BRIGHT		

DIRECTIONS	SLOTTING	SIDE MILLING	RAMPING	PLUNGING	HELICAL INT.

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	CHW mm	ZEFP
-	A4S6906W	6	19	5,9	24	62	6	0,1	3
-	A4S6908W	8	24	7,8	30	68	8	0,2	3
-	A4S6910W	10	30	9,7	38	80	10	0,2	3

Cylindrical	Weldon	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	CHW mm	ZEFP
-	A4S6912W	12	36	11,7	46	93	12	0,3	3
-	A4S6916W	16	48	15,5	58	108	16	0,3	3

BALL NOSE END MILLS FOR LIGHT ALLOYS Z2

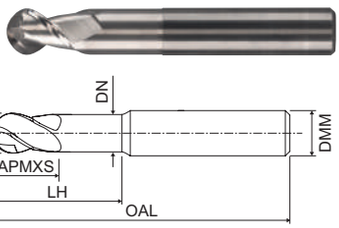
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	HPC	MTC		DIN 6527 HB / DIN 6527 HA		BRIGHT	

DIRECTIONS	PROFILING

Balanced tool (G2.5)

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4S6703	-	3	6	2,8	16	50	3	2
A4S6704	-	4	7	3,8	17	54	4	2
A4S6705	-	5	8	4,8	18	54	5	2
A4S6706	A4S6706W	6	10	5,9	21	54	6	2

Cylindrical	Weldon	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP
A4S6708	A4S6708W	8	12	7,8	27	59	8	2
A4S6710	A4S6710W	10	13	9,7	32	67	10	2
A4S6712	A4S6712W	12	16	11,7	38	73	12	2
A4S6716	A4S6716W	16	20	15,5	44	83	16	2

BALL NOSE END MILLS FOR LIGHT ALLOYS Z2

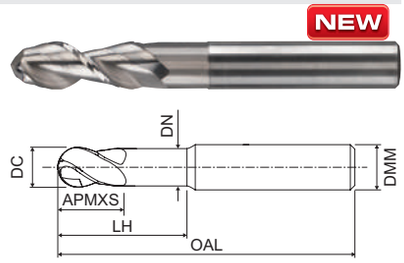
KERFOLG

NEW

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	HPC	MTC		DIN 6527 HB / DIN 6527 HA		BRIGHT	

DIRECTIONS	PROFILING

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Cylindrical	Weldon	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	ZEFP
A4S6803	-	3	8	2,8	12	60	3	2
A4S6804	-	4	10	3,8	16	62	4	2
A4S6805	-	5	11	4,8	18	62	5	2
A4S6806	A4S6806W	6	12	5,9	20	62	6	2

Cylindrical	Weldon	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	ZEFP
A4S6808	A4S6808W	8	15	7,8	22	68	8	2
A4S6810	A4S6810W	10	25	9,7	39	80	10	2
A4S6812	A4S6812W	12	26	11,7	48	93	12	2

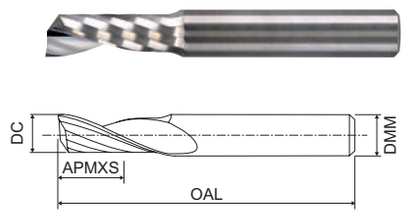
END MILLS FOR ALUMINUM ALLOYS Z1

KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	λs= 25° γs= 28°		DIN 6535 HA		BRIGHT	

DIRECTIONS	PLUNGING	SLOTTING	SIDE MILLING

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S6001506	1,5	6	40	3	1
A4S6002006	2	6	40	2	1
A4S6002010	2	10	40	3	1
A4S6002506	2,5	6	40	2,5	1
A4S6003012	3	12	40	3	1
A4S6004015	4	15	40	4	1
A4S6005016	5	16	50	5	1

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S6006020	6	20	60	6	1
A4S6006030	6	30	60	6	1
A4S6008022	8	22	63	8	1
A4S6010025	10	25	72	10	1
A4S6010035	10	35	80	10	1
A4S6012030	12	30	83	12	1

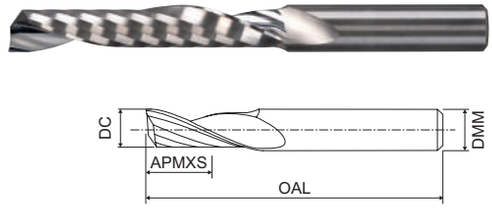
END MILLS FOR ALUMINUM ALLOYS Z1

KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	λs= 25° γs= 28°		DIN 6535 HA		BRIGHT	

DIRECTIONS	PLUNGING	SLOTTING	SIDE MILLING

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●



Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S7002010	2	10	60	6	1
A4S7003010	3	10	60	6	1
A4S7003012	3	12	60	6	1
A4S7003015	3	15	60	6	1
A4S7004012	4	12	60	6	1
A4S7004015	4	15	60	6	1
A4S7004020	4	20	75	6	1

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S7005016	5	16	60	6	1
A4S7005028	5	28	75	6	1
A4S7006035	6	35	75	6	1
A4S7008035	8	35	75	8	1
A4S7008045	8	45	100	8	1
A4S7010055	10	55	100	10	1

END MILLS FOR ALUMINUM ALLOYS LEFT HELIX Z1

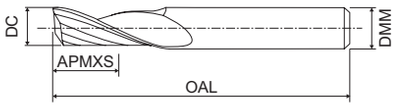
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
W	HM	λs= 25° γs= 28°		DIN 6535 HA		BRIGHT	

DIRECTIONS	PLUNGING	SLOTTING	SIDE MILLING

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●





Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S6101506	1,5	6	40	3	1
A4S6102010	2	6	40	3	1
A4S6102006	2	10	40	2	1
A4S6102506	2,5	6	40	2,5	1
A4S6103012	3	12	40	3	1
A4S6104015	4	15	40	4	1

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S6105016	5	16	50	5	1
A4S6106020	6	20	60	6	1
A4S6106030	6	30	60	6	1
A4S6108022	8	22	63	8	1
A4S6110025	10	25	72	10	1
A4S6112030	12	24	83	12	1

END MILLS FOR ALUMINUM ALLOYS LEFT HELIX Z1

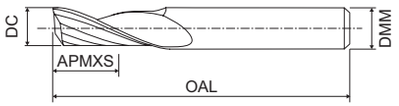
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
W	HM	λs= 25° γs= 28°		DIN 6535 HA		BRIGHT	

DIRECTIONS	PLUNGING	SLOTTING	SIDE MILLING

N2	N3	N4	N5	N6	N7
●	●	●	●	●	●





Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S7102010	2	10	60	6	1
A4S7103010	3	10	60	6	1
A4S7103012	3	12	60	6	1
A4S7103015	3	15	60	6	1
A4S7104012	4	12	60	6	1
A4S7104015	4	15	60	6	1
A4S7104020	4	20	75	6	1

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP
A4S7105016	5	16	60	6	1
A4S7105028	5	28	75	6	1
A4S7106035	6	35	75	6	1
A4S7108035	8	35	75	8	1
A4S7108045	8	45	100	8	1
A4S7110055	10	55	100	10	1



END MILLS Z2

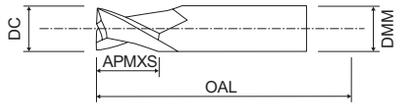
WRK

TOOL TYPE	MATERIAL	ZEFP	SHANK	CORNER	STANDARD
N	HM		DIN 6535 HB DIN 6535 HA		

SLOTTING	SIDE MILLING

P1	P2	P3	P4	P5	P6	M1	M2	K1	K2
●	●	●	●	○	○	●	○	●	●





Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A40151	-	1	3	50	4	2
A40151,5	-	1,5	4	50	4	2
A40152	-	2	6	50	4	2
A40152,5	-	2,5	8	50	4	2
A40153	-	3	8	50	4	2
A40153,5	-	3,5	10	50	4	2
A40154	-	4	11	50	4	2
A40154,5	A40154,5W	4,5	13	50	6	2
A40155	A40155W	5	13	50	6	2
A40155,5	A40155,5W	5,5	13	50	6	2
A40156	A40156W	6	16	50	6	2
A40156,5	A40156,5W	6,5	16	60	8	2

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A40157	A40157W	7	16	60	8	2
A40158	A40158W	8	20	60	8	2
A40158,5	A40158,5W	8,5	20	75	10	2
A40159	A40159W	9	20	75	10	2
A40159,5	A40159,5W	9,5	25	75	10	2
A401510	A401510W	10	25	75	10	2
A401510,5	A401510,5W	10,5	30	75	12	2
A401511	A401511W	11	30	75	12	2
A401512	A401512W	12	30	75	12	2
A401516	A401516W	16	40	100	16	2
A401518	A401518W	18	45	100	20	2
A401520	A401520W	20	45	100	20	2

END MILLS Z3

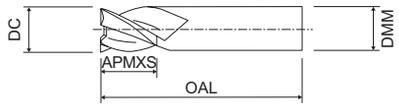
WRK

TOOL TYPE	MATERIAL	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM		DIN 6535 HB DIN 6535 HA		WIND	

SLOTTING	SIDE MILLING

P1	P2	P3	P4	P5	P6	M1	M2	K1	K2	H1
●	●	●	●	○	○	●	○	●	●	○





Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A40352	-	2	6	50	4	3
A40353	-	3	8	50	4	3
A40354	-	4	11	50	4	3
A40355	A40355W	5	13	50	6	3
A40356	A40356W	6	16	50	6	3

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A40358	A40358W	8	20	60	8	3
A403510	A403510W	10	25	75	10	3
A403512	A403512W	12	30	75	12	3
A403516	A403516W	16	40	100	16	3
A403520	A403520W	20	45	100	20	3

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP	N°
A4035SET5	A4035SET5W	5	13	50	6	3	10
A4035SET6	A4035SET6W	6	16	50	6	3	10
A4035SET8	A4035SET8W	8	20	60	8	3	5

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP	N°
A4035SET10	A4035SET10W	10	25	75	10	3	5
A4035SET12	A4035SET12W	12	30	75	12	3	5

END MILLS Z3

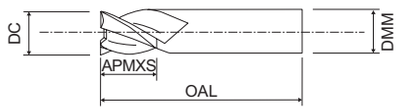
KERFOLG

TOOL TYPE	MATERIAL	ZEFP	SHANK	CORNER	COATING	STANDARD
VA	HM		DIN 6535 HB DIN 6535 HA		TiAlN	

SLOTTING	SIDE MILLING

M1	M2	M3	S1	S2
●	●	●	○	●





Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A40363	-	3	8	38	3	3
A40364	-	4	11	50	4	3
A40365	-	5	13	50	5	3
A40366	A40366W	6	13	57	6	3
A40368	A40368W	8	19	63	8	3

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A403610	A403610W	10	22	72	10	3
A403612	A403612W	12	26	83	12	3
A403616	A403616W	16	32	92	16	3
A403620	A403620W	20	38	104	20	3

END MILLS Z4

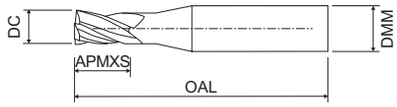
WRK

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 35° γs= 0°		DIN 6535 HB DIN 6535 HA		WIND	

SIDE MILLING

P1	P2	P3	P4	P5	P6	M1	M2	K1	K2
●	●	●	●	○	○	●	○	●	●





Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A40451	-	1	3	50	4	4
A40451,5	-	1,5	4	50	4	4
A40452	-	2	6	50	4	4
A40452,5	-	2,5	8	50	4	4
A40453	-	3	8	50	4	4
A40453,5	-	3,5	10	50	4	4
A40454	-	4	11	50	4	4
A40454,5	A40454,5W	4,5	13	50	6	4
A40455	A40455W	5	13	50	6	4
A40455,5	A40455,5W	5,5	13	50	6	4
A40456	A40456W	6	16	50	6	4
A40456,5	A40456,5W	6,5	16	60	8	4

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A40457	A40457W	7	16	60	8	4
A40458	A40458W	8	20	60	8	4
A40458,5	A40458,5W	8,5	20	75	10	4
A40459	A40459W	9	20	75	10	4
A40459,5	A40459,5W	9,5	25	75	10	4
A404510	A404510W	10	25	75	10	4
A404510,5	A404510,5W	10,5	30	75	12	4
A404511	A404511W	11	30	75	12	4
A404512	A404512W	12	30	75	12	4
A404516	A404516W	16	40	100	16	4
A404518	A404518W	18	45	100	20	4
A404520	A404520W	20	45	100	20	4

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP	N°
A4045SET6	-	6	16	60	6	4	10
A4045SET8	-	8	20	60	8	4	5

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP	N°
A4045SET10	-	10	25	75	8	4	5
A4045SET12	-	12	30	75	12	4	5

END MILLS Z4

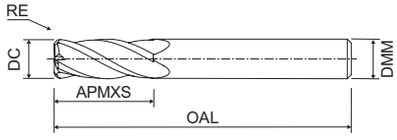
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	STANDARD
H	HM	λs= 35° γs= 0°		DIN 6535 HB DIN 6535 HA		

SLOTTING | SIDE MILLING | HELICAL INT.

P5	P6	H1	H2
●	●	●	●





Cylindrical	Weldon	DC mm	RE mm	APMXS mm	OAL mm	DMM mm	ZEFP
A41180403	-	4	0,3	10	50	4	4
A41180405	-	4	0,5	10	50	4	4
A41180605	A41180605W	6	0,5	16	50	6	4
A41180610	A41180610W	6	1	16	50	6	4
A41180805	A41180805W	8	0,5	20	60	8	4

Cylindrical	Weldon	DC mm	RE mm	APMXS mm	OAL mm	DMM mm	ZEFP
A41180810	A41180810W	8	1	20	60	8	4
A41181005	A41181005W	10	0,5	25	75	10	4
A41181010	A41181010W	10	1	25	75	10	4
A41181205	A41181205W	12	0,5	30	75	12	4
A41181210	A41181210W	12	1	30	75	12	4

END MILLS Z4

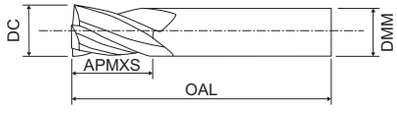
WRK

TOOL TYPE	MATERIAL	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM		DIN 6535 HB DIN 6535 HA		WIND	

SIDE MILLING

P2	P3	P4	P5	M1	K1	K2	S1	S2	S3	H1
●	●	●	●	○	●	●	●	●	●	○





Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A40551	-	1	3	50	4	4
A40552	A40552W	2	6	50	6	4
A40553	A40553W	3	8	50	6	4
A40554	A40554W	4	11	50	6	4
A40555	A40555W	5	13	50	6	4
A40556	A40556W	6	16	50	6	4

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A40558	A40558W	8	20	60	8	4
A405510	A405510W	10	25	75	10	4
A405512	A405512W	12	30	75	12	4
A405516	A405516W	16	40	100	16	4
A405520	A405520W	20	45	100	20	4

CORNER RADIUS END MILLS Z4

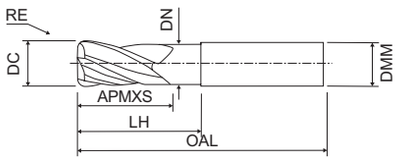
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 30° γs= 0°		DIN 6535 HB DIN 6535 HA		WIND	

SIDE MILLING	HELICAL INT.

P1	P2	P3	P4	P5	P6	K1	K2	H1
●	●	●	●	●	●	●	●	●





Cylindrical	Weldon	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	ZEFP
A412660,3	A412660,3W	6	0,3	6	5,8	24	60	6	4
A412660,5	A412660,5W	6	0,5	6	5,8	24	60	6	4
A412661	A412661W	6	1	6	5,8	24	60	6	4
A412680,3	A412680,3W	8	0,3	8	7,8	29	75	8	4
A412680,5	A412680,5W	8	0,5	8	7,8	29	75	8	4
A412681	A412681W	8	1	8	7,8	29	75	8	4
A412681,5	A412681,5W	8	1,5	8	7,8	29	75	8	4
A412682	A412682W	8	2	8	7,8	29	75	8	4
A4126100,3	A4126100,3W	10	0,3	10	9,7	35	80	10	4
A4126100,5	A4126100,5W	10	0,5	10	9,7	35	80	10	4
A4126101	A4126101W	10	1	10	9,7	35	80	10	4

Cylindrical	Weldon	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	ZEFP
A4126101,5	A4126101,5W	10	1,5	10	9,7	35	80	10	4
A4126102	A4126102W	10	2	10	9,7	35	80	10	4
A4126120,5	A4126120,5W	12	0,5	12	11,7	37	100	12	4
A4126121	A4126121W	12	1	12	11,7	37	100	12	4
A4126121,5	A4126121,5W	12	1,5	12	11,7	37	100	12	4
A4126122	A4126122W	12	2	12	11,7	37	100	12	4
A4126160,5	A4126160,5W	16	0,5	16	15,5	42	105	16	4
A4126161	A4126161W	16	1	16	15,5	42	105	16	4
A4126161,5	A4126161,5W	16	1,5	16	15,5	42	105	16	4
A4126162	A4126162W	16	2	16	15,5	42	105	16	4

CORNER RADIUS END MILLS Z4

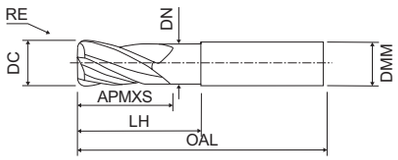
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
VA	HM	λs= 30° γs= 0°		DIN 6535 HB DIN 6535 HA		WIND	

SIDE MILLING	HELICAL INT.

P1	P2	P3	P4	P5	P6	K1	K2	H1
●	●	●	●	●	●	●	●	●





Cylindrical	Weldon	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	ZEFP
A413160,5	A413160,5W	6	0,5	6	5,8	45	90	6	4
A413161	A413161W	6	1	6	5,8	45	90	6	4
A413180,5	A413180,5W	8	0,5	8	7,8	55	100	8	4
A413181	A413181W	8	1	8	7,8	55	100	8	4
A4131100,5	A4131100,5W	10	0,5	10	9,7	55	100	10	4

Cylindrical	Weldon	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	ZEFP
A4131101,5	A4131101,5W	10	1,5	10	9,7	55	100	10	4
A4131120,5	A4131120,5W	12	0,5	12	11,7	75	120	12	4
A4131121	A4131121W	12	1	12	11,7	75	120	12	4
A4131121,5	A4131121,5W	12	1,5	12	11,7	75	120	12	4

END MILLS WITH VARIABLE HELIX AND CHIP BREAKER FOR TROCHOIDAL MILLING Z5

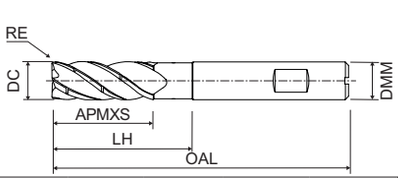
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	COOLANT	ZEFP	SHANK	CORNER	COATING	SHORT
N	HM	HDM	Internal		DIN 6535 HB		HT300	

TROCHOIDAL	SIDE MILLING	HELICAL INT.

P1	P2	P3	P4	P5	P6	M1	M2	K1	K2	S2
●	●	●	●	○	○	●	○	●	●	●





Tech. Code	DC mm	RE mm	APMXS mm	LH mm	OAL mm	DMM mm	ZEFP
A405908	8	0,2	20	25	64	8	5
A405910	10	0,2	25	30	72	10	5

Tech. Code	DC mm	RE mm	APMXS mm	LH mm	OAL mm	DMM mm	ZEFP
A405912	12	0,3	30	40	83	12	5
A405916	16	0,3	40	50	92	16	5

END MILLS WITH VARIABLE PITCH CORNER RADIUS AND CHIP BREAKER FOR TROCHOIDAL MILLING Z5

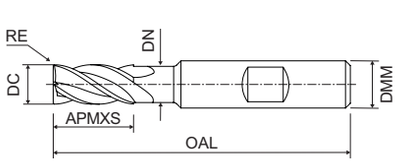
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	ZEFP	SHANK	CORNER	COATING	LONG
N	HM	HDM		DIN 6535 HB		TiAlN	

TROCHOIDAL	SIDE MILLING	HELICAL INT.

P1	P2	P3	P4	P5	P6	M1	M2	K1	K2	S2
●	●	●	●	●	○	●	●	●	●	●





Tech. Code	DC mm	RE mm	APMXS mm	DN mm	OAL mm	DMM mm	ZEFP
A40636	6	1	34	5,8	75	6	5
A40638	8	1	44	7,7	85	8	5
A406310	10	1,5	55	9,7	100	10	5

Tech. Code	DC mm	RE mm	APMXS mm	DN mm	OAL mm	DMM mm	ZEFP
A406312	12	1,5	65	11,6	115	12	5
A406316	16	1,5	86	15,5	140	16	5
A406320	20	1,5	108	19,5	163	20	5

MULTI FLUTE SUPER FINISHING END MILLS - CENTRE CUTTING

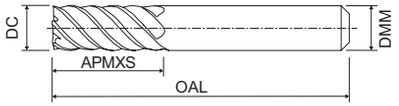
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
VA	HM	HPC	MTC	λs= 46°/48° γs= 13°		DIN 6535 HA		WIND	

DIRECTIONS | SIDE MILLING

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	S2	S4	S5	H1	H2
●	●	●	●	●	●	○	○	○	○	○	●	●	○	○	○	●	○





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A42156	6	13	57	6	6
A42158	8	19	63	8	6
A421510	10	22	72	10	8

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A421512	12	26	83	12	8
A421516	16	32	92	16	10

MULTI FLUTE SUPER FINISHING END MILLS - CENTRE CUTTING

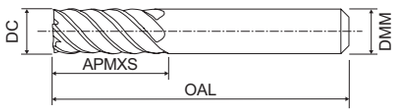
KERFOLG

TOOL TYPE	MATERIAL	TOOL DESIGN	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
VA	HM	HPC	MTC	λs= 46°/48° γs= 13°		DIN 6535 HA		WIND	

DIRECTIONS | SIDE MILLING

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	S2	S4	S5	H1	H2
●	●	●	●	●	●	○	○	○	○	○	●	●	○	○	○	●	○





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A42204	4	19	63	6	6
A42205	5	24	68	6	6
A42206	6	24	68	6	6
A42208	8	38	88	8	6
A422010	10	45	95	10	8

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A422012	12	53	110	12	8
A422014	14	53	110	14	10
A422016	16	63	123	16	10
A422020	20	75	141	20	12

ROUGHING END MILLS MULTI-CUTTING-VARIABLE PITCH

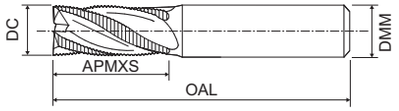
KERFOLG

TOOL TYPE	MATERIAL	ZEFP	ZEFP	SHANK	CORNER	COATING	STANDARD
VA	HM			DIN 6535 HB DIN 6535 HA		WIND+	

SLOTTING | SIDE MILLING | RAMPING | PLUNGING | HELICAL INT.

P1	P2	P3	P4	M1	M2	M3	S2	S4
●	●	●	●	●	●	●	○	○





Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A451606	A451606W	6	13	57	6	4
A451608	A451608W	8	19	63	8	4
A451610	A451610W	10	22	72	10	4

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A451612	A451612W	12	26	83	12	4
A451616	A451616W	16	32	92	16	6
A451620	A451620W	20	38	104	20	6

HIGH FEED END MILLS - COOLANT HOLE Z6

KERFOLG

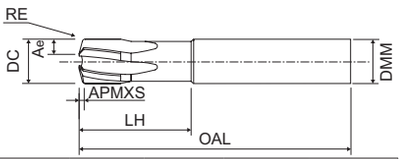
TOOL TYPE	MATERIAL	COOLANT	ZEFP	SHANK	CORNER	COATING	STANDARD
H	HM	Internal		DIN 6535 HA		WIND X	

SLOTTING | SIDE MILLING

P3	P4	P5	P6	H1	H2
○	○	●	●	●	●







Tech. Code	DC mm	RE mm	APMXS mm	LH mm	OAL mm	DMM mm	ZEFP
A41386	6	0,63	0,32	18	63	6	6
A41388	8	0,83	0,42	24	76	8	6
A413810	10	1,04	0,53	30	89	10	6

Tech. Code	DC mm	RE mm	APMXS mm	LH mm	OAL mm	DMM mm	ZEFP
A413812	12	1,24	0,63	36	100	12	6
A413816	16	1,66	0,84	48	110	16	6

BALL NOSE END MILLS Z2

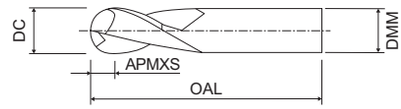
WRK

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 30° γs= 0°		DIN 6535 HB DIN 6535 HA		WIND	

PROFILING

P1	P2	P3	P4	P5	P6	M1	M2	K1	K2	H1
●	●	●	●	●	○	●	○	●	●	○





Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A43151	A43151W	1	2	50	6	2
A43151,5	A43151,5W	1,5	3	50	6	2
A43152	A43152W	2	4	50	6	2
A43152,5	A43152,5W	2,5	5	50	6	2

Cylindrical	Weldon	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A43153	A43153W	3	6	50	6	2
A43154	A43154W	4	8	50	6	2
A43155	A43155W	5	10	50	6	2
A43156	A43156W	6	12	50	6	2

BALL NOSE END MILLS Z2

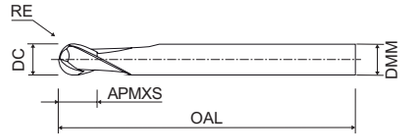
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	SHORT
N	HM	λs= 30° γs= 0°		DIN 6535 HA		HT300	

PROFILING

P1	P2	P3	P4	P5	P6	M1	M2	S2	S4	S5	H1	H2
●	●	●	●	●	●	○	○	○	○	○	●	●





Tech. Code	DC mm	RE mm	APMXS mm	OAL mm	DMM mm	ZEFP
A435003	3	1,5	5	50	6	2
A435004	4	2	8	50	6	2
A435005	5	2,5	9	50	6	2
A435006	6	3	10	60	6	2

Tech. Code	DC mm	RE mm	APMXS mm	OAL mm	DMM mm	ZEFP
A435008	8	4	12	64	8	2
A435010	10	5	14	70	10	2
A435012	12	6	16	75	12	2
A435016	16	8	32	90	16	2

E BALL NOSE END MILLS Z2

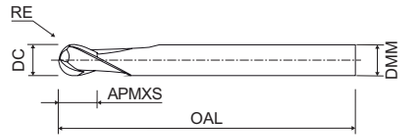
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HM	λs= 30° γs= 0°		DIN 6535 HA		HT300	

PROFILING

P1	P2	P3	P4	P5	P6	M1	M2	S2	S4	S5	H1	H2
●	●	●	●	●	●	○	○	○	○	○	●	●





Tech. Code	DC mm	RE mm	APMXS mm	OAL mm	DMM mm	ZEFP
A435103	3	1,5	5	75	6	2
A435104	4	2	8	75	6	2
A435105	5	2,5	9	75	6	2
A435106	6	3	10	75	6	2

Tech. Code	DC mm	RE mm	APMXS mm	OAL mm	DMM mm	ZEFP
A435108	8	4	12	75	8	2
A435110	10	5	14	100	10	2
A435112	12	6	16	100	12	2

BALL NOSE END MILLS Z2

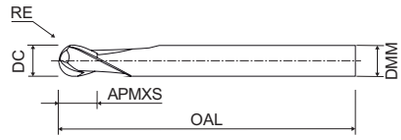
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	LONG
N	HM	λs= 30° γs= 0°		DIN 6535 HA		HT300	

PROFILING

P1	P2	P3	P4	P5	P6	M1	M2	S2	S4	S5	H1	H2
●	●	●	●	●	●	○	○	○	○	○	●	●





Tech. Code	DC mm	RE mm	APMXS mm	OAL mm	DMM mm	ZEFP
A435203	3	1,5	5	100	6	2
A435204	4	2	8	100	6	2
A435205	5	2,5	9	100	6	2
A435206	6	3	10	100	6	2

Tech. Code	DC mm	RE mm	APMXS mm	OAL mm	DMM mm	ZEFP
A435208	8	4	12	100	8	2
A435210	10	5	14	125	10	2
A435212	12	6	16	125	12	2

BALL NOSE END MILLS Z2

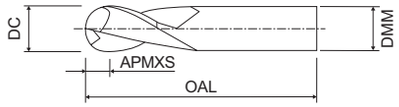
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	EXTRA SHORT
H	HM	λs= 30° γs= 0°		DIN 6535 HA		WIND X	

PROFILING

P5	P6	H1	H2
●	●	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A43301	1	1,5	50	4	2
A43301,5	1,5	2,5	50	4	2
A43302	2	3	50	4	2
A43302,5	2,5	4	50	4	2
A43303	3	5	50	4	2
A43304	4	6	50	4	2
A43305	5	8	50	6	2
A43306	6	9	50	6	2

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A43307	7	14	60	8	2
A43308	8	16	60	8	2
A43309	9	18	75	10	2
A433010	10	20	75	10	2
A433012	12	24	75	12	2
A433014	14	24	80	16	2
A433016	16	24	100	16	2

BALL NOSE MICRO END MILLS Z2

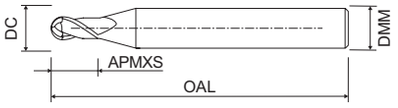
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	SHORT
H	HM	λs= 30° γs= 0°		DIN 6535 HA		WIND X	

PROFILING

P5	P6	H1	H2
●	●	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A44270,3	0,3	0,6	50	4	2
A44270,4	0,4	0,8	50	4	2
A44270,5	0,5	1	50	4	2
A44270,6	0,6	1,2	50	4	2
A44270,7	0,7	1,4	50	4	2
A44270,8	0,8	1,6	50	4	2
A44270,9	0,9	1,8	50	4	2

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A44271	1	2	50	4	2
A44271,2	1,2	2,4	50	4	2
A44271,5	1,5	3	50	4	2
A44272	2	4	50	4	2
A44273	3	6	50	4	2
A44274	4	8	50	4	2

FLAT MICRO END MILLS Z2

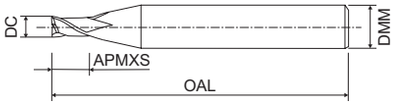
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER	COATING	SHORT
H	HM	λs= 35° γs= 0°		DIN 6535 HA		WIND X	

SLOTTING | SIDE MILLING

P5	P6	H1	H2
●	●	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A44150,2	0,2	0,4	50	4	2
A44150,3	0,3	0,6	50	4	2
A44150,4	0,4	0,8	50	4	2
A44150,5	0,5	1	50	4	2
A44150,6	0,6	1,2	50	4	2
A44150,7	0,7	1,4	50	4	2
A44150,8	0,8	1,6	50	4	2
A44150,9	0,9	1,8	50	4	2
A44151	1	2	50	4	2
A44151,1	1,1	2	50	4	2
A44151,2	1,2	2,5	50	4	2

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A44151,3	1,3	2,5	50	4	2
A44151,4	1,4	3	50	4	2
A44151,5	1,5	3	50	4	2
A44151,6	1,6	3,5	50	4	2
A44151,7	1,7	3,5	50	4	2
A44151,8	1,8	4	50	4	2
A44151,9	1,9	4	50	4	2
A44152	2	4	50	4	2
A44152,5	2,5	5	50	4	2
A44153	3	6	50	4	2

BALL NOSE MICRO END MILLS Z2

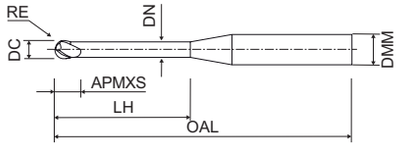
KERFOLG

TOOL TYPE	MATERIAL	ANGLES	ZEFP	SHANK	CORNER
N	HM	λs= 30° γs= 0°		DIN 6535 HA	

PROFILING

P1	P2	P3	P4	P5	P6	M1	M2	S2	S4	S5	H1	H2
○	○	●	●	●	●	○	○	○	●	●	●	●





Tech. Code	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	ZEFP
A4360021	0,2	0,1	0,2	0,15	1	50	4	2
A4360031	0,3	0,15	0,3	0,25	1	50	4	2
A4360041	0,4	0,2	0,4	0,35	1	50	4	2
A4360042	0,4	0,2	0,4	0,35	2	50	4	2
A4360043	0,4	0,2	0,4	0,35	3	50	4	2
A4360052	0,5	0,25	0,4	0,45	2	50	4	2
A4360053	0,5	0,25	0,4	0,45	3	50	4	2
A4360054	0,5	0,25	0,4	0,45	4	50	4	2
A4360055	0,5	0,25	0,4	0,45	5	50	4	2
A4360062	0,6	0,3	0,5	0,55	2	50	4	2
A4360064	0,6	0,3	0,5	0,55	4	50	4	2
A4360068	0,6	0,3	0,5	0,55	8	50	4	2
A4360082	0,8	0,4	0,6	0,75	2	50	4	2
A4360084	0,8	0,4	0,6	0,75	4	50	4	2
A4360086	0,8	0,4	0,6	0,75	6	50	4	2
A4360110	1	0,5	0,8	0,95	10	50	4	2
A4360116	1	0,5	0,8	0,95	16	50	4	2
A436013	1	0,5	0,8	0,95	3	50	4	2
A436014	1	0,5	0,8	0,95	4	50	4	2
A43601512	1,5	0,75	1,2	1,45	12	50	4	2
A4360158	1,5	0,75	1,2	1,45	8	50	4	2
A436016	1	0,5	0,8	0,95	6	50	4	2

Tech. Code	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM mm	ZEFP
A436018	1	0,5	0,8	0,95	8	50	4	2
A4360210	2	1	1,6	1,95	10	50	4	2
A4360212	2	1	1,6	1,95	12	50	4	2
A4360216	2	1	1,6	1,95	16	50	4	2
A4360220	2	1	1,6	1,95	20	60	4	2
A4360225	2	1	1,6	1,95	25	75	4	2
A4360230	2	1	1,6	1,95	30	75	4	2
A436024	2	1	1,6	1,95	4	50	4	2
A436028	2	1	1,6	1,95	8	50	4	2
A4360310	3	1,5	2,4	2,85	10	50	6	2
A4360316	3	1,5	2,4	2,85	16	60	6	2
A4360320	3	1,5	2,4	2,85	20	60	6	2
A4360330	3	1,5	2,4	2,85	30	75	6	2
A4360335	3	1,5	2,4	2,85	35	75	6	2
A436038	3	1,5	2,4	2,85	8	50	6	2
A4360410	4	2	3,2	3,85	10	50	6	2
A4360416	4	2	3,2	3,85	16	60	6	2
A4360420	4	2	3,2	3,85	20	60	6	2
A4360425	4	2	3,2	3,85	25	75	6	2
A4360430	4	2	3,2	3,85	30	75	6	2
A4360435	4	2	3,2	3,85	35	75	6	2
A4360440	4	2	3,2	3,85	40	100	6	2

END MILLS Z2

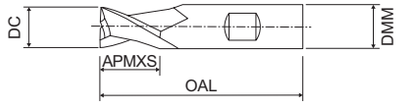
WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	SHORT
N	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		BRIGHT	

SLOTTING | SIDE MILLING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A50101,5	1,5	4	49	6	2
A50102	2	4	49	6	2
A50102,5	2,5	5	49	6	2
A50103	3	5	49	6	2
A50103,5	3,5	7	51	6	2
A50104	4	7	51	6	2
A50104,5	4,5	7	51	6	2
A50105	5	8	52	6	2
A50105,5	5,5	8	52	6	2
A50106	6	8	52	6	2
A50106,5	6,5	10	60	10	2
A50107	7	10	60	10	2
A50107,5	7,5	11	61	10	2
A50108	8	11	61	10	2
A50108,5	8,5	11	61	10	2
A50109	9	11	61	10	2

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A50109,5	9,5	11	61	10	2
A501010	10	13	63	10	2
A501010,5	10,5	13	70	12	2
A501011	11	13	70	12	2
A501011,5	11,5	16	73	12	2
A501012	12	16	73	12	2
A501012,5	12,5	16	73	12	2
A501013	13	16	73	12	2
A501014	14	16	73	12	2
A501015	15	16	73	12	2
A501016	16	19	79	16	2
A501017	17	19	79	16	2
A501018	18	19	79	16	2
A501019	19	19	79	16	2
A501020	20	22	88	20	2
A501022	22	22	88	20	2

TWO FLUTE HSS END MILL - CENTRE CUTTING

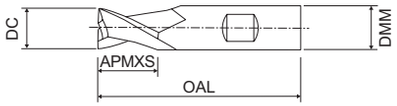
WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	SHORT
N	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		WIND	

SLOTTING	SIDE MILLING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A50152	2	4	49	6	2
A50152,5	2,5	5	49	6	2
A50153	3	5	49	6	2
A50154	4	7	51	6	2
A50154,5	4,5	7	51	6	2
A50155	5	8	52	6	2
A50155,5	5,5	8	52	6	2
A50156	6	8	52	6	2
A50156,5	6,5	10	60	10	2
A50157	7	10	60	10	2
A50157,5	7,5	11	61	10	2
A50158	8	11	61	10	2
A50158,5	8,5	11	61	10	2
A50159	9	11	61	10	2
A50159,5	9,5	13	63	10	2
A501510	10	13	63	10	2
A501510,5	10,5	13	70	12	2

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A501511	11	13	70	12	2
A501511,5	11,5	16	73	12	2
A501512	12	16	73	12	2
A501512,5	12,5	16	73	12	2
A501513	13	16	73	12	2
A501513,5	13,5	16	73	12	2
A501514	14	16	73	12	2
A501515	15	16	73	12	2
A501516	16	19	79	16	2
A501517	17	19	79	16	2
A501518	18	19	79	16	2
A501520	20	22	88	20	2
A501522	22	22	88	20	2
A501525	25	26	102	25	2
A501528	28	26	102	25	2
A501530	30	26	102	25	2

END MILLS Z2

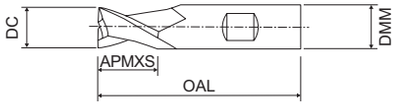
WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		BRIGHT	

SLOTTING	SIDE MILLING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A50201,5	1,5	7	52	6	2
A50202	2	7	52	6	2
A50203	3	8	52	6	2
A50203,5	3,5	10	54	6	2
A50204	4	11	55	6	2
A50204,5	4,5	11	55	6	2
A50205	5	13	57	6	2
A50206	6	13	57	6	2
A50207	7	16	66	10	2
A50208	8	19	69	10	2
A50209	9	19	69	10	2

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A502010	10	22	72	10	2
A502011	11	22	79	12	2
A502012	12	26	83	12	2
A502013	13	26	83	12	2
A502014	14	26	83	12	2
A502015	15	26	83	12	2
A502016	16	32	92	16	2
A502018	18	32	92	16	2
A502019	19	32	92	16	2
A502020	20	38	104	20	2
A502022	22	38	104	20	2

THREE FLUTE HSS END MILL - CENTRE CUTTING

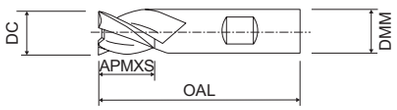
WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		BRIGHT	

SLOTTING	SIDE MILLING

M1	M2	K1	K2
●	○	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A51101,5	1,5	7	52	6	3
A51102	2	7	52	6	3
A51103	3	8	52	6	3
A51104	4	11	55	6	3
A51105	5	13	57	6	3
A51105,5	5,5	13	57	6	3
A51106	6	13	57	6	3
A51106,5	6,5	16	66	10	3
A51107	7	16	66	10	3
A51108	8	19	69	10	3
A51109	9	19	69	10	3

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A511010	10	22	72	10	3
A511011	11	22	79	12	3
A511012	12	26	83	12	3
A511013	13	26	83	12	3
A511014	14	26	83	12	3
A511015	15	26	83	12	3
A511016	16	32	92	16	3
A511017	17	32	92	16	3
A511018	18	32	92	16	3
A511020	20	38	104	20	3
A511022	22	38	104	20	3

FOUR FLUTE HSS END MILL - CENTRE CUTTING

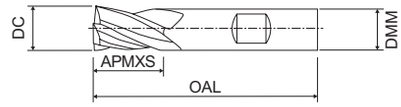
WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		BRIGHT	

SLOTTING | SIDE MILLING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A52102	2	7	52	6	4
A52102,5	2,5	8	52	6	4
A52103	3	8	52	6	4
A52104	4	11	55	6	4
A52105	5	13	57	6	4
A52106	6	13	57	6	4
A52107	7	16	66	10	4
A52108	8	19	69	10	4
A52109	9	19	69	10	4
A521010	10	22	72	10	4

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A521011	11	22	79	12	4
A521012	12	26	83	12	4
A521013	13	26	83	12	4
A521014	14	26	83	12	4
A521015	15	26	83	12	4
A521016	16	32	92	16	4
A521018	18	32	92	16	4
A521020	20	38	104	20	4
A521022	22	38	10	20	4

END MILLS Z2

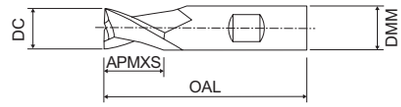
WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		WIND	

SLOTTING | SIDE MILLING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A50253	3	8	52	6	2
A50254	4	11	55	6	2
A50255	5	13	57	6	2
A50256	6	13	57	6	2
A50257	7	16	66	10	2
A50258	8	19	69	10	2
A50259	9	19	69	10	2
A502510	10	22	72	10	2
A502511	11	22	79	12	2
A502512	12	26	83	12	2

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A502513	13	26	83	12	2
A502514	14	26	83	12	2
A502515	15	26	83	12	2
A502516	16	32	92	16	2
A502517	17	32	92	16	2
A502518	18	32	92	16	2
A502520	20	38	104	20	2
A502522	22	38	104	20	2
A502525	25	45	121	25	2

THREE FLUTE HSS END MILL - CENTRE CUTTING

WRK

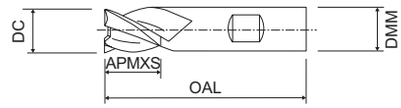
TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
N	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		WIND	

SLOTTING | SIDE MILLING

Cutting data available at pages A.

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A51151,5	1,5	7	52	6	3
A51152	2	7	52	6	3
A51152,5	2,5	8	52	6	3
A51153	3	8	52	6	3
A51153,5	3,5	10	54	6	3
A51154	4	11	55	6	3
A51154,5	4,5	11	55	6	3
A51155	5	13	57	6	3
A51156	6	13	57	6	3
A51156,5	6,5	16	66	10	3
A51157	7	16	66	10	3
A51157,5	7,5	19	69	10	3
A51158	8	19	69	10	3
A51158,5	8,5	19	69	10	3

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A51159	9	19	69	10	3
A51159,5	9,5	22	72	10	3
A511510	10	22	72	10	3
A511511	11	22	79	12	3
A511512	12	26	83	12	3
A511513	13	26	83	12	3
A511514	14	26	83	12	3
A511515	15	26	83	12	3
A511516	16	32	92	16	3
A511518	18	32	92	16	3
A511520	20	38	104	20	3
A511522	22	38	104	20	3
A511525	25	45	121	25	3

FOUR-FLUTE HSS END MILL - CENTRE-CUTTING

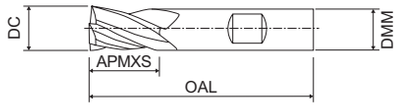
WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
VA	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		WIND	

SLOTTING	SIDE MILLING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A52152	2	7	52	6	4
A52152,5	2,5	8	52	6	4
A52153	3	8	52	6	4
A52153,5	3,5	10	54	6	4
A52154	4	11	55	6	4
A52154,5	4,5	11	55	6	4
A52155	5	13	57	6	4
A52155,5	5,5	13	57	6	4
A52156	6	13	57	6	4
A52157	7	16	66	10	4
A52158	8	19	69	10	4
A52159	9	19	69	10	4
A521510	10	22	72	10	4

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A521511	11	22	79	12	4
A521512	12	26	83	12	4
A521513	13	26	83	12	4
A521514	14	26	83	12	4
A521515	15	26	83	12	4
A521516	16	32	92	16	4
A521517	17	32	92	16	4
A521518	18	32	92	16	4
A521520	20	38	104	20	4
A521522	22	38	104	20	6
A521524	24	45	121	25	6
A521525	25	45	121	25	6

TWO FLUTE HSS BALL NOSE END MILL - CENTRE CUTTING

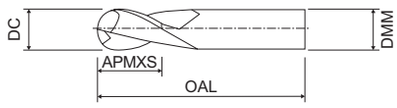
WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	SHORT
VA	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		BRIGHT	

SLOTTING	SIDE MILLING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A50402	2	4	49	6	2
A50403	3	5	49	6	2
A50404	4	7	51	6	2
A50405	5	8	52	6	2
A50406	6	8	52	6	2
A50408	8	11	61	10	2

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A504010	10	13	63	10	2
A504012	12	16	73	12	2
A504014	14	16	73	12	2
A504016	16	19	79	16	2
A504020	20	22	88	20	2

TWO FLUTE HSS BALL NOSE END MILL - CENTRE CUTTING

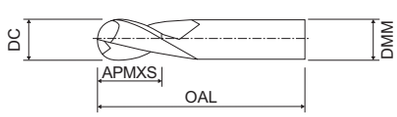
WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	SHORT
VA	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		WIND	

SLOTTING	SIDE MILLING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A50452	2	4	49	6	2
A50453	3	5	49	6	2
A50454	4	7	51	6	2
A50455	5	8	52	6	2
A50456	6	8	52	6	2
A50458	8	11	61	10	2

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A504510	10	13	63	10	2
A504512	12	16	73	12	2
A504514	14	16	73	12	2
A504516	16	19	79	16	2
A504520	20	22	88	20	2

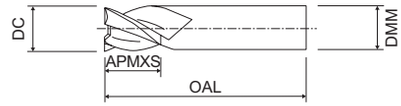
LONG SERIES END MILLS CENTER CUTTING Z3

WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	EXTRA LONG
VA	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HA		BRIGHT	

SLOTTING	SIDE MILLING





On request available with Weldon shank at a cost of € 2.
Cylindrical shank (A5120....) Weldon shank (A5120...W)

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A51203	3	12	56	6	3
A51204	4	19	63	6	3
A51205	5	24	68	6	3
A51206	6	24	68	6	3
A51208	8	38	88	10	3
A512010	10	45	95	10	3

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A512012	12	53	110	12	3
A512014	14	53	110	12	3
A512016	16	63	123	16	3
A512018	18	63	123	16	3
A512020	20	75	141	20	3

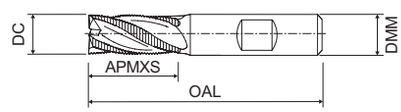
FOUR FLUTE HSS ROUGHING END MILL - CENTRE CUTTING

WRK

TOOL TYPE	MATERIAL	TOOL DESIGN	ANGLES	ZEFP	SHANK	CORNER	COATING	STANDARD
VA	HSS +Co8	HPC	λs= 30° γs= 0°		DIN 6535 HB		WIND	

SLOTTING	SIDE MILLING





P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A53155	5	13	57	6	4
A53156	6	13	57	6	4
A53156,5	6,5	16	66	10	4
A53157	7	16	66	10	4
A53158	8	19	69	10	4
A53158,5	8,5	19	69	10	4
A53159	9	19	69	10	4
A531510	10	22	72	10	4
A531510,5	10,5	22	79	12	4
A531511	11	22	79	12	4
A531512	12	26	83	12	4

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A531513	13	26	83	12	4
A531514	14	26	83	12	4
A531515	15	26	83	12	4
A531516	16	32	92	16	4
A531517	17	32	98	20	4
A531518	18	32	92	16	4
A531520	20	38	104	20	4
A531522	22	38	104	20	4
A531525	25	45	121	25	4
A531528	28	45	121	25	6
A531532	32	53	133	32	6

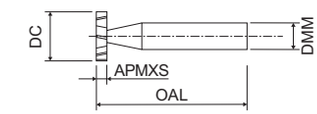
WOODRUFF KEYSEATS CUTTERS

WRK

TOOL TYPE	MATERIAL	ZEFP	SHANK	COATING
VA	HSSE		DIN 6535 HA	BRIGHT

DIRECTIONS	SLOTTING





P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A541010,52	10,5	2	50	6	8
A541010,52,5	10,5	2,5	50	6	8
A541010,53	10,5	3	50	6	8
A541013,52	13,5	2	56	10	8
A541013,53	13,5	3	56	10	8
A541013,54	13,5	4	56	10	8
A541016,53	16,5	3	56	10	8
A541016,54	16,5	4	56	10	8
A541016,55	16,5	5	56	10	8
A541019,53	19,5	3	63	10	10
A541019,54	19,5	4	63	10	10
A541019,55	19,5	5	63	10	10
A541019,56	19,5	6	63	10	10

Tech. Code	DC mm	APMXS mm	OAL mm	DMM mm	ZEFP
A541022,54	22,5	4	63	10	10
A541022,55	22,5	5	63	10	10
A541022,56	22,5	6	63	10	10
A541022,58	22,5	8	63	10	10
A541025,56	25,5	6	63	10	12
A541028,56	28,5	6	63	10	12
A541028,58	28,5	8	71	10	12
A541028,510	28,5	10	71	12	12
A541032,56	32,5	6	71	12	12
A541032,58	32,5	8	71	12	12
A541032,510	32,5	10	71	12	12
A541045,510	45,5	10	71	12	12

T-SLOT CUTTERS

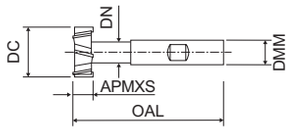
WRK

TOOL TYPE	MATERIAL	ZEFP	SHANK	COATING
VA	HSSE		DIN 6535 HB	BRIGHT

DIRECTIONS	SLOTTING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	APMXS mm	DN mm	OAL mm	DMM mm	ZEFP
A541512,5	12,5	6	5	57	10	6
A541516	16	8	7	62	10	6
A541518	18	8	8	70	12	6
A541521	21	9	10	74	12	6

Tech. Code	DC mm	APMXS mm	DN mm	OAL mm	DMM mm	ZEFP
A541525	25	11	12	82	16	8
A541528	28	12	13	75	16	8
A541532	32	14	15	90	16	8
A541536	36	16	17	95	25	10

DOVETAIL CUTTERS

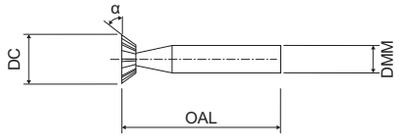
WRK

TOOL TYPE	MATERIAL	ZEFP	SHANK	COATING
VA	HSSE		DIN 6535 HA	BRIGHT

DIRECTIONS	SIDE MILLING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	α°	OAL mm	DMM mm	ZEFP
A54201645	16	45	60	12	10
A54202045	20	45	63	12	10
A54202545	25	45	67	12	10

Tech. Code	DC mm	α°	OAL mm	DMM mm	ZEFP
A54201660	16	60	60	12	10
A54202060	20	60	63	12	10
A54202560	25	60	67	12	10

INVERTED DOVETAIL CUTTERS

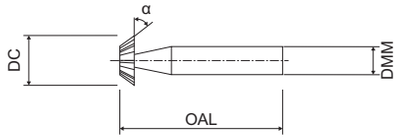
WRK

TOOL TYPE	MATERIAL	ZEFP	SHANK	COATING
VA	HSSE		DIN 6535 HA	BRIGHT

DIRECTIONS	SIDE MILLING

P1	P2	P3	P4	P5	M1	M2	K1	K2
●	●	●	●	○	●	○	●	●





Tech. Code	DC mm	α°	OAL mm	DMM mm	ZEFP
A54251645	16	45	60	12	10
A54252045	20	45	63	12	10
A54252545	25	45	67	12	10

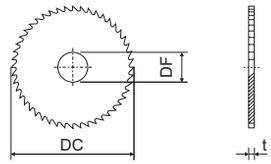
Tech. Code	DC mm	α°	OAL mm	DMM mm	ZEFP
A54251660	16	60	60	12	10
A54252060	20	60	63	12	10
A54252560	25	60	67	12	10

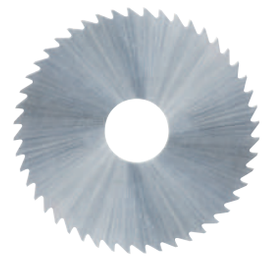
SLITTING SAWS FINE TOOTHING HM DIN 1837-A

WRK

MATERIAL	DIN
HM	1837A

Unified carbide circular saws manufactured to DIN1837-A standard with fine tooth pitch.
Sizes on request range from Ø15 mm to Ø200 mm, with thicknesses from 0.1 mm to 6 mm.





P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	S1	S3
●	●	●	●	●	●	●	○	○	○	●	●	●	○	○

Tech. Code	DC mm	t mm	DF mm	ZEFP
A48100200,2	20	0,2	5	80
A48100200,5	20	0,5	5	48
A48100201	20	1	5	40
A48100201,2	20	1,2	5	40
A48100201,5	20	1,5	5	40
A48100250,5	25	0,5	8	64
A48100251	25	1	8	48
A48100251,5	25	1,5	8	40
A48100252	25	2	8	40
A48100252,5	25	2,5	8	40
A48100300,3	30	0,3	8	80
A48100300,4	30	0,4	8	80
A48100300,5	30	0,5	8	80
A48100300,7	30	0,7	8	64
A48100301	30	1	8	64
A48100301,2	30	1,2	8	48
A48100301,5	30	1,5	8	48
A48100302	30	2	8	48
A48100303	30	3	8	40
A48100400,3	40	0,3	10	100
A48100400,4	40	0,4	10	100
A48100400,5	40	0,5	10	80
A48100400,6	40	0,6	10	80
A48100400,7	40	0,7	10	80
A48100401	40	1	10	64
A48100401,2	40	1,2	10	64

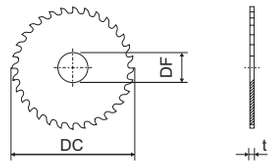
Tech. Code	DC mm	t mm	DF mm	ZEFP
A48100401,5	40	1,5	10	64
A48100401,9	40	1,9	10	48
A48100402	40	2	10	48
A48100500,5	50	0,5	13	100
A48100501	50	1	13	80
A48100501,4	50	1,4	13	64
A48100501,5	50	1,5	13	64
A48100501,9	50	1,9	13	64
A48100502	50	2	13	64
A48100502,5	50	2,5	13	64
A48100504	50	4	13	48
A48100630,5	63	0,5	16	128
A48100630,8	63	0,8	16	100
A48100631	63	1	16	100
A48100631,1	63	1,1	16	80
A48100631,4	63	1,4	16	80
A48100631,5	63	1,5	16	80
A48100632	63	2	16	80
A48100800,6	80	0,6	22	128
A48100800,7	80	0,7	22	128
A48100800,8	80	0,8	22	128
A48100800,9	80	0,9	22	100
A48100801	80	1	22	100
A48100801,2	80	1,2	22	100
A48100802	80	2	22	80
A48100803	80	3	22	80

SLITTING SAWS COARSE TOOTHING HM DIN 1838-B

WRK

MATERIAL	DIN
HM	1838B

Unified carbide circular saws manufactured to DIN1838-B standard with coarse tooth pitch.
Sizes on request range from Ø15 mm to Ø200 mm, with thicknesses from 0.1 mm to 6 mm.





P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	S1	S3
●	●	●	●	●	●	●	○	○	○	●	●	●	○	○

Tech. Code	DC mm	t mm	DF mm	ZEFP
A48150150,3	15	0,3	5	20
A48150150,4	15	0,4	5	20
A48150150,5	15	0,5	5	20
A48150151	15	1	5	20
A48150200,2	20	0,2	5	20
A48150200,5	20	0,5	5	20
A48150201	20	1	5	20
A48150300,2	30	0,2	8	24
A48150300,7	30	0,7	8	30
A48150301,7	30	1,7	8	24
A48150400,9	40	0,9	10	32
A48150401	40	1	10	32
A48150401,3	40	1,3	10	32
A48150401,5	40	1,5	10	32
A48150403	40	3	10	32
A48150500,5	50	0,5	13	48
A48150501	50	1	13	40
A48150501,5	50	1,5	13	32

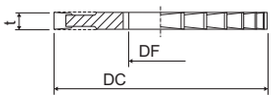
Tech. Code	DC mm	t mm	DF mm	ZEFP
A48150502	50	2	13	32
A48150503	50	3	13	24
A48150630,5	63	0,5	16	64
A48150630,8	63	0,8	16	48
A48150631	63	1	16	48
A48150631,2	63	1,2	16	40
A48150631,4	63	1,4	16	40
A48150631,5	63	1,5	16	40
A48150631,6	63	1,6	16	40
A48150631,7	63	1,7	16	40
A48150632	63	2	16	40
A48150633	63	3	16	32
A48150634	63	4	16	32
A48150800,6	80	0,6	22	64
A48150801	80	1	22	48
A48151001	100	1	22	64
A48151001,5	100	1,5	22	48

SLITTING CUTTERS

WRK

MATERIAL	DIN
HSSE	NDF

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2
●	●	●	●	○	○	●	●	●	○	●	●





Tech. Code	DC mm	t mm	DF mm	ZEFP
A5455631,6	63	1,6	22	32
A5455632	63	2	22	32
A5455632,5	63	2,5	22	32
A5455633	63	3	22	28
A5455633,5	63	3,5	22	28
A5455802	80	2	22	36
A5455802,5	80	2,5	22	36
A5455803	80	3	22	32
A5455803,5	80	3,5	22	32

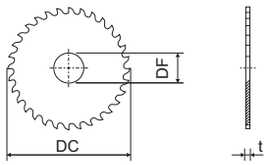
Tech. Code	DC mm	t mm	DF mm	ZEFP
A54551002	100	2	27	44
A54551002,5	100	2,5	27	44
A54551003	100	3	27	40
A54551003,5	100	3,5	27	40
A54551252	125	2	32	44
A54551252,5	125	2,5	32	44
A54551253	125	3	32	44
A54551253,5	125	3,5	32	40
A54551254	125	4	32	40

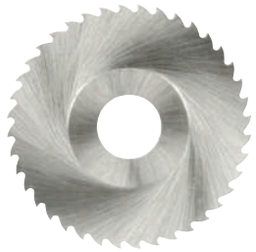
SLITTING SAW BLADES HSS 1838-B - COARSE TOOTHING

WRK

MATERIAL	DIN
HSS	1838B

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N8
●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●





Tech. Code	DC mm	APMXS mm	DF mm	ZEFP
A54650500,6	50	0,6	13	48
A54650500,8	50	0,8	13	40
A54650501	50	1	13	40
A54650501,2	50	1,2	13	40
A54650501,6	50	1,6	13	32
A54650502	50	2	13	32
A54650502,5	50	2,5	13	32
A54650630,5	63	0,5	16	64
A54650630,8	63	0,8	16	48
A54650631	63	1	16	48
A54650631,2	63	1,2	16	40
A54650631,5	63	1,5	16	40
A54650631,6	63	1,6	16	40
A54650632	63	2	16	40
A54650633	63	3	16	32
A54650634	63	4	16	32
A54650635	63	5	16	24
A54650800,5	80	0,5	22	64
A54650800,8	80	0,8	22	64
A54650801	80	1	22	48

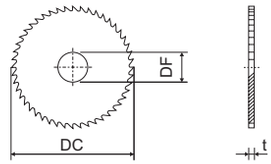
Tech. Code	DC mm	APMXS mm	DF mm	ZEFP
A54650801,2	80	1,2	22	48
A54650801,6	80	1,6	22	48
A54650802	80	2	22	40
A54650803	80	3	22	40
A54650804	80	4	22	32
A54650805	80	5	22	32
A54651000,8	100	0,8	22	64
A54651001	100	1	22	64
A54651001,5	100	1,5	22	64
A54651001,6	100	1,6	22	48
A54651002	100	2	22	48
A54651003	100	3	22	40
A54651004	100	4	22	40
A54651250,8	125	0,8	22	80
A54651251	125	1	22	80
A54651252	125	2	22	64
A54651252,5	125	2,5	22	48
A54651253	125	3	22	48
A54651254	125	4	22	48
A54651255	125	5	22	40

SLITTING SAW BLADES HSS DIN 1837-A FINE TOOTHING

WRK

MATERIAL	DIN
HSS	1837A

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	K1	K2
●	●	●	●	○	○	●	●	●	●	●	●





Tech. Code	DC mm	t mm	DF mm	ZEFP
A54600200,8	20	0,8	5	48
A54600201	20	1	5	40
A54600202	20	2	5	32
A54600202,5	20	2,5	5	32
A54600250,5	25	0,5	8	64
A54600251	25	1	8	48
A54600251,6	25	1,6	8	40
A54600252	25	2	8	40
A54600253	25	3	8	32
A54600255	25	5	8	32
A54600320,6	32	0,6	8	64
A54600320,8	32	0,8	8	64
A54600321	32	1	8	64
A54600321,2	32	1,2	8	48
A54600322	32	2	8	48
A54600400,3	40	0,3	10	10
A54600400,4	40	0,4	10	10
A54600400,5	40	0,5	10	80
A54600400,6	40	0,6	10	80
A54600400,7	40	0,7	10	80
A54600400,8	40	0,8	10	80
A54600401	40	1	10	64
A54600401,2	40	1,2	10	64
A54600401,5	40	1,5	10	64
A54600402	40	2	10	48
A54600402,5	40	2,5	10	48
A54600500,3	50	0,3	13	128
A54600500,4	50	0,4	13	100
A54600500,5	50	0,5	13	100
A54600500,6	50	0,6	13	100
A54600500,7	50	0,7	13	100
A54600500,8	50	0,8	13	80
A54600501	50	1	13	80
A54600501,6	50	1,6	13	64
A54600502	50	2	13	64
A54600502,5	50	2,5	13	64
A54600503	50	3	13	48
A54600630,3	63	0,3	16	128
A54600630,4	63	0,4	16	128
A54600630,5	63	0,5	16	128
A54600630,6	63	0,6	16	100
A54600630,8	63	0,8	16	100
A54600631	63	1	16	100
A54600631,2	63	1,2	16	80
A54600631,5	63	1,5	16	80
A54600631,6	63	1,6	16	80
A54600632	63	2	16	80
A54600632,5	63	2,5	16	64

Tech. Code	DC mm	t mm	DF mm	ZEFP
A54600633	63	3	16	64
A54600800,3	80	0,3	22	160
A54600800,4	80	0,4	22	160
A54600800,5	80	0,5	22	128
A54600800,6	80	0,6	22	128
A54600800,8	80	0,8	22	128
A54600801	80	1	22	100
A54600801,2	80	1,2	22	100
A54600801,5	80	1,5	22	100
A54600801,6	80	1,6	22	100
A54600802	80	2	22	80
A54600802,5	80	2,5	22	80
A54600803	80	3	22	80
A54600804	80	4	22	64
A54600805	80	5	22	64
A54600806	80	6	22	60
A54601000,5	100	0,5	22	160
A54601000,8	100	0,8	22	128
A54601001	100	1	22	128
A54601001,2	100	1,2	22	128
A54601001,5	100	1,5	22	100
A54601001,6	100	1,6	22	100
A54601002	100	2	22	100
A54601002,5	100	2,5	22	100
A54601003	100	3	22	80
A54601004	100	4	22	80
A54601005	100	5	22	80
A54601250,8	125	0,8	22	160
A54601251	125	1	22	160
A54601251,2	125	1,2	22	128
A54601251,5	125	1,5	22	128
A54601251,6	125	1,6	22	128
A54601252,5	125	2,5	22	100
A54601252	125	2	22	128
A54601253	125	3	22	100
A54601254	125	4	32	100
A54601601,2	160	1,2	32	160
A54601601,6	160	1,6	32	160
A54601602	160	2	32	128
A54601602,5	160	2,5	32	128
A54601603	160	3	32	128
A54601604	160	4	32	100
A54601605	160	5	32	100
A54602001	200	1	32	200
A54602001,2	200	1,2	32	200
A54602002	200	2	32	160
A54602002,5	200	2,5	32	160
A54602504	250	4	32	160

		Range code	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	CF	Material	DIN	Diameter range mm	Point angle	Shank	Coating	Coolant	Page
	KERFOLG	A6035	●	●	●	●	○			HM	212D	1,00 - 14,00	-	DIN 6535 HA	BRIGHT		128
	KERFOLG	A6036	●	●	●	●	○			HM	212D	1,00 - 13,00	-	DIN 6535 HA	WIND-X		128
	KERFOLG	A6037	●	●	●	●	○			HM	212D	1,00 - 13,00	-	DIN 6535 HA	BRIGHT		129
	KERFOLG	A6045	●		●					HM	Factory Standard	3,98 - 12,02	-	DIN 6535 HA	DURABLE	Internal coolant	129
	KERFOLG	A6027	●	●	●	●				HSSE	212D	1,00 - 13,20	-	DIN 6535 HA	TiAlN		130
	KERFOLG	A6032	●	●	●	●				HSSE	212D	1,00 - 20,00	-	DIN 6535 HA	TiAlN		130
	WRK	A6015	●	●	●	●				HSSE	212D	1,50 - 16,00	-	DIN 6535 HA	BRIGHT		131
	WRK	A6050	●	●	●	●				HSSE	208B	6 - 40	-	Morse	BRIGHT		131
	WRK	A6010	●	●	●	●				HSS	206B	2,00 - 20,00	-	DIN 6535 HA	BRIGHT		132
	WRK	A6065	●		●					HSS	Factory Standard	5 - 35	-	DIN 6535 HA	BRIGHT		132
	KERFOLG	A6070	●	●	●	●				HSSE	9	1,90 - 11,80	-	DIN 6535 HA	BRIGHT		132
	KERFOLG	A6075	●	●	●	●				HSSE	2179	1,90 - 11,80	-	DIN 6535 HA	BRIGHT		133
	WRK	A6230	●	○	○	●				HSSE	1866	6,5 - 20,7	-	DIN 6535 HA	BRIGHT		137
	WRK	A6216	●	○	○	●				HSSE	373	6,0 - 26,0	-	DIN 6535 HA	BRIGHT		137

	KERFOLG	A6110	●	●	●	●	○			HSS	335C	5,00 - 31,00	90°	DIN 6535 HA	BRIGHT		133
	WRK	A6120	●	●	●	●	○			HSS	335D	25 - 50	90°	Morse	BRIGHT		133
	KERFOLG	A6115	●	●	●	●	○			HSS	335C	5,00 - 30,00	90°	DIN 6535 HA	TiN		134
	KERFOLG	A6157	●	●	●	●	●			HSS	335C	4,30 - 31,00	90°	DIN 6535 HA	TiN		134
	GRANLUND	A6108	●	●	●	●				HSS	335C	10,4 - 30	90°	DIN 6535 HA	BRIGHT		134
	GRANLUND	A6111	●	●	●	●				HSS	335C	4,3 - 40,0	90°	DIN 6535 HA	BRIGHT		135
	GRANLUND	A6153	●	●	●	●				HSS	Factory Standard	12 - 30	90°	DIN 6535 HA	BRIGHT		135
	GRANLUND	A6150	●	●	●	●				HSS	334C	8 - 40	60°	DIN 6535 HA	BRIGHT		135
	GRANLUND	A6140	●	●	●	●	○			HSS	335C	6,0 - 40,0	90°	DIN 6535 HA	TiN		136
	GRANLUND	A6145	●	●	●	●	○			HSS	334C	10 - 30	60°	DIN 6535 HA	TiN		136
	KERFOLG	A6112	●	●	●	●	○			HM	Factory Standard	6,3 - 31,5	90°	DIN 6535 HA	BRIGHT		136
	GRANLUND	A6155	●	●	●	●	○			HSS	335C	12 - 40	90°	DIN 6535 HA	BRIGHT		136
	WRK	A6160	●	●	●	●				HSS	Factory Standard	12 - 28	90°	DIN 6535 HA	BRIGHT		137

MACHINE REAMERS

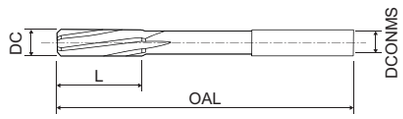
KERFOLG

MATERIAL	DIN	HELIX	SHANK	COATING
HM	212 D	λ=7°/8°	DIN 6535 HA	BRIGHT

Helical cutters 7th - 8th cut right

P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S
●	●	●	●	●	○	●	●	●	●	○	●	●	●	●	●	●	●	○	○





Tech. Code	DC h7 mm	DCONMS mm	OAL mm	L mm
A60351	1,00	1,0	40	5
A60351,1	1,10	1,1	40	7
A60351,2	1,20	1,2	40	7
A60351,3	1,30	1,2	40	7
A60351,4	1,40	1,3	40	8
A60351,5	1,50	1,5	40	8
A60351,6	1,60	1,5	43	9
A60351,7	1,70	1,6	46	10
A60351,8	1,80	1,7	46	10
A60351,9	1,90	1,8	46	10
A60352	2,00	2,0	49	11
A60352,1	2,10	2,0	49	11
A60352,2	2,20	2,0	53	12
A60352,3	2,30	2,0	53	12
A60352,4	2,40	2,3	54	14
A60352,5	2,50	2,5	57	14
A60352,6	2,60	2,5	57	14
A60352,7	2,70	2,5	61	15
A60352,8	2,80	2,5	61	15

Tech. Code	DC h7 mm	DCONMS mm	OAL mm	L mm
A60352,9	2,90	2,5	61	15
A60353	3,00	3,0	61	15
A60353,3	3,30	3,0	65	16
A60353,5	3,50	3,5	70	18
A60354	4,00	4,0	75	19
A60354,3	4,30	4,0	80	21
A60354,9	4,90	5,0	86	23
A60355	5,00	5,0	86	23
A60355,1	5,10	5,0	86	23
A60355,5	5,50	5,0	93	26
A60356	6,00	6,0	93	26
A60357	7,00	7,0	109	31
A60358	8,00	8,0	117	33
A60358,5	8,50	8,0	117	33
A60359	9,00	9,0	125	36
A603510	10,00	10,0	133	38
A603511	11,00	11,0	142	41
A603512	12,00	12,0	151	44
A603514,0	14,00	14,00	160	47

MACHINE REAMERS

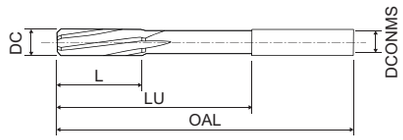
KERFOLG

MATERIAL	DIN	HELIX	SHANK	COATING
HM	212 D	λ=6°	DIN 6535 HA	WIND X

Helical cutters 6th cut right

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S	S
●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	○	○





Tech. Code	DC h7 mm	DCONMS mm	OAL mm	LU mm	L mm
A603601,00	1,00	1,00	40	-	8
A603601,50	1,50	1,50	40	-	8
A603602,00	2,00	2,00	49	-	11
A603602,50	2,50	2,50	57	-	14
A603603,00	3,00	3,00	65	-	16
A603603,50	3,50	3,50	70	45	18
A603604,00	4,00	4,00	75	47	19
A603604,50	4,50	4,50	80	51	21
A603605,00	5,00	5,00	86	56	23
A603605,50	5,50	5,00	93	58	26
A603606,00	6,00	6,00	93	58	26
A603606,50	6,50	6,00	101	63	28
A603607,00	7,00	7,00	109	71	31

Tech. Code	DC h7 mm	DCONMS mm	OAL mm	LU mm	L mm
A603607,50	7,50	7,00	109	71	31
A603608,00	8,00	8,00	117	77	33
A603608,50	8,50	8,00	117	77	33
A603609,00	9,00	9,00	125	80	36
A603609,50	9,50	9,00	125	80	36
A603610,00	10,00	10,00	133	85	38
A603610,50	10,50	10,00	133	85	38
A603611,00	11,00	10,00	142	92	41
A603611,50	11,50	10,00	142	92	41
A603612,00	12,00	12,00	151	99	44
A603612,50	12,50	12,00	151	99	44
A603613,00	13,00	12,00	151	99	44

CENTESIMAL MACHINE REAMERS

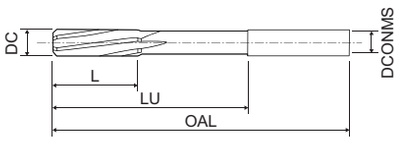
KERFOLG

MATERIAL	DIN	HELIX	SHANK	COATING
HM	212 D	λ=6°	DIN 6535 HA	BRIGHT

Helical cutters 6th cut right

NOTE - When ordering a reamer, the technical code to be requested:
example Ø 2.37 = A603702.37





P1	P2	P3	P4	P5	P6	P7	P8	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S
●	●	●	●	●	○	●	●	●	●	○	●	●	●	●	●	●	●	○	○

Tech. Code	DC mm	DCONMS mm	OAL mm	LU mm	L mm	Available range D mm to mm
A603701,00	1,00	-	40	-	8	1,00 - 1,50
A603701,51	1,51	-	43	-	9	1,51 - 1,90
A603701,91	1,91	2	49	26	11	1,91 - 2,12
A603702,13	2,13	2	53	-	12	2,13 - 2,36
A603702,37	2,37	2,3	57	-	14	2,37 - 2,48
A603702,49	2,49	2,5	57	-	14	2,49 - 2,65
A603702,66	2,66	2,5	61	-	15	2,66 - 2,96
A603702,97	2,97	3	65	40	16	2,97 - 3,35
A603703,36	3,36	3,5	70	45	18	3,36 - 3,75
A603703,76	3,76	4	75	47	19	3,76 - 4,25
A603704,26	4,26	4,5	80	51	21	4,26 - 4,75

Tech. Code	DC mm	DCONMS mm	OAL mm	LU mm	L mm	Available range D mm to mm
A603704,76	4,76	5	86	56	23	4,76 - 5,15
A603705,16	5,16	5	93	58	26	5,16 - 5,65
A603705,66	5,66	6	93	58	26	5,66 - 6,15
A603706,16	6,16	6	101	63	28	6,16 - 6,70
A603706,71	6,71	7	109	71	31	6,71 - 7,65
A603707,66	7,66	8	117	77	33	7,66 - 8,65
A603708,66	8,66	9	125	80	36	8,66 - 9,65
A603709,66	9,66	10	133	85	38	9,66 - 10,65
A603710,66	10,66	10	142	92	41	10,66 - 11,65
A603711,66	11,66	12	151	99	44	11,66 - 13,00

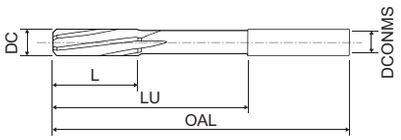
HP MACHINE REAMERS - VARIABLE FLUTES

KERFOLG

MATERIAL	DIN	HELIX	SHANK	COOLANT	COATING
HM	NDF	λ=7°/8°	DIN 6535 HA		DURABLE

Helical 7°- 8° left-hand cutting edges, variable pitch, right-hand cutting





P1	P2	P3	P4	P5	K1	K2
●	●	●	●	●	●	●

Tech. Code	DC mm	DCONMS mm	OAL mm	LU mm	L mm	ZEFP
A604503,98	3,98	6	75	39	12	4
A604503,99	3,99	6	75	39	12	4
A604504	4,00	6	75	39	12	4
A604504,01	4,01	6	75	39	12	4
A604504,02	4,02	6	75	39	12	4
A604504,5	4,50	6	75	39	12	4
A604504,98	4,98	6	75	39	12	4
A604504,99	4,99	6	75	39	12	4
A604505	5,00	6	75	39	12	4
A604505,01	5,01	6	75	39	12	4
A604505,02	5,02	6	75	39	12	4
A604505,5	5,50	6	75	39	12	4
A604505,98	5,98	6	75	39	12	4
A604505,99	5,99	6	75	39	12	4
A604506	6,00	6	75	39	12	4
A604506,01	6,01	6	75	39	12	4
A604506,02	6,02	6	75	39	12	4
A604506,5	6,50	8	100	64	16	6
A604507	7,00	8	100	64	16	6
A604507,5	7,50	8	100	64	16	6
A604507,98	7,98	8	100	64	16	6

Tech. Code	DC mm	DCONMS mm	OAL mm	LU mm	L mm	ZEFP
A604507,99	7,99	8	100	64	16	6
A604508	8,00	8	100	64	16	6
A604508,01	8,01	8	100	64	16	6
A604508,02	8,02	8	100	64	16	6
A604508,5	8,50	10	100	60	20	6
A604509	9,00	10	100	60	20	6
A604509,5	9,50	10	120	80	20	6
A604509,98	9,98	10	120	80	20	6
A604509,99	9,99	10	120	80	20	6
A604510	10,00	10	120	80	20	6
A604510,01	10,01	10	120	80	20	6
A604510,02	10,02	10	120	80	20	6
A604510,5	10,50	12	120	75	20	6
A604511	11,00	12	120	75	20	6
A604511,5	11,50	12	120	75	20	6
A604511,98	11,98	12	120	75	20	6
A604511,99	11,99	12	120	75	20	6
A604512	12,00	12	120	75	20	6
A604512,01	12,01	12	120	75	20	6
A604512,02	12,02	12	120	75	20	6

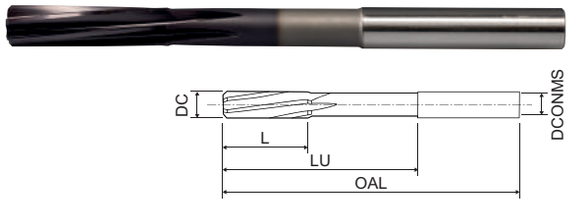
CENTESIMAL MACHINE REAMERS

KERFOLG

MATERIAL	DIN	HELIX	SHANK	COATING
HSSE	212 D	λ=6°	DIN 6535 HA	TiAlN

Helical cutters 6th cut right

NOTE - When ordering a reamer, the technical code to be requested:
example Ø 1.32 = A602701.32



P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7
●	●	●	●	●	●	●	○	●	●	●	●	●	●	●

Tech. Code	DC mm	DCONMS mm	OAL mm	LU mm	L mm	Available range DC mm to mm
A602701,00	1,00	-	40	-	8	1,00 - 1,50
A602701,51	1,51	-	43	-	9	1,51 - 1,93
A602701,94	1,94	2	49	26	11	1,94 - 2,12
A602702,13	2,13	2	53	-	12	2,13 - 2,36
A602702,37	2,37	2,3	57	-	14	2,37 - 2,48
A602702,49	2,49	2,5	57	-	14	2,49 - 2,65
A602702,66	2,66	2,5	61	-	15	2,66 - 2,96
A602702,97	2,97	3	65	40	16	2,97 - 3,35
A602703,36	3,36	3,5	70	45	18	3,36 - 3,75
A602703,76	3,76	4	75	47	19	3,76 - 4,25
A602704,26	4,26	4,5	80	51	21	4,26 - 4,75

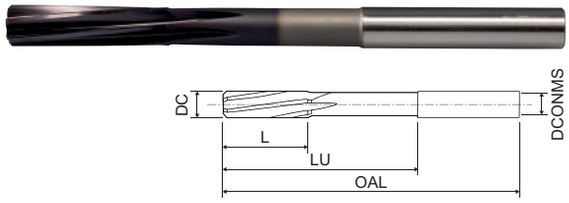
Tech. Code	DC mm	DCONMS mm	OAL mm	LU mm	L mm	Available range DC mm to mm
A602704,76	4,76	5	86	56	23	4,76 - 5,15
A602705,16	5,16	5	93	58	26	5,16 - 5,65
A602705,65	5,65	6	93	58	26	5,66 - 6,15
A602706,16	6,16	6	101	63	28	6,16 - 6,71
A602706,72	6,72	7	109	71	31	6,72 - 7,65
A602707,66	7,66	8	117	77	33	7,66 - 8,65
A602708,66	8,66	9	125	80	36	8,66 - 9,65
A602709,66	9,66	10	133	85	38	9,66 - 10,60
A602710,61	10,61	10	142	92	41	10,61 - 11,80
A602711,81	11,81	10	151	99	44	11,81 - 12,20
A602712,21	12,21	10	151	99	44	12,21 - 13,20

MACHINE REAMERS

KERFOLG

MATERIAL	DIN	HELIX	SHANK	COATING
HSSE	212 D	λ=6°	DIN 6535 HA	TiAlN

Helical cutters 6th cut right



P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7
●	●	●	●	●	●	●	○	●	●	●	●	●	●	●

Tech. Code	DC h7 mm	DCONMS mm	OAL mm	LU mm	L mm
A603201,00	1,00	1	40	-	8
A603201,50	1,50	1,5	40	-	8
A603202,00	2,00	2	49	-	11
A603202,50	2,50	2,5	57	-	14
A603203,00	3,00	3	65	-	16
A603203,50	3,50	3,5	70	45	18
A603204,00	4,00	4	75	47	19
A603204,50	4,50	4,5	80	51	21
A603205,00	5,00	5	86	56	23
A603205,50	5,50	5	93	58	26
A603206,00	6,00	6	93	58	26
A603206,50	6,50	6	101	63	28
A603207,00	7,00	7	109	71	31
A603207,50	7,50	7	109	71	31
A603208,00	8,00	8	117	77	33
A603208,50	8,50	8	117	77	33
A603209,00	9,00	9	125	80	36
A603209,50	9,50	9	125	80	36
A603210,00	10,00	10	133	85	38
A603210,50	10,50	10	133	85	38

Tech. Code	DC h7 mm	DCONMS mm	OAL mm	LU mm	L mm
A603211,00	11,00	10	142	92	41
A603211,50	11,50	10	142	92	41
A603212,00	12,00	10	151	99	44
A603212,50	12,50	10	151	99	44
A603213,00	13,00	10	151	99	44
A603213,50	13,50	12,5	160	105	47
A603214,00	14,00	12,5	160	105	47
A603214,50	14,50	12,5	162	107	50
A603215,00	15,00	12,5	162	107	50
A603215,50	15,50	12,5	170	115	52
A603216,00	16,00	12,5	170	115	52
A603216,50	16,50	14	175	119	54
A603217,00	17,00	14	175	119	54
A603217,50	17,50	14	182	122	56
A603218,00	18,00	14	182	122	56
A603218,50	18,50	16	189	127	58
A603219,00	19,00	16	189	127	58
A603219,50	19,50	16	195	130	60
A603220,00	20,00	16	195	130	60

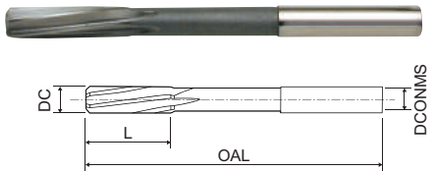
MACHINE REAMERS

WRK

MATERIAL	DIN	HELIX	SHANK	COATING
HSSE	212 D	λ=7°/8°	DIN 6535 HA	BRIGHT

Helical cutters 7th - 8th cut right

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7
●	●	●	●	○	●	○	○	●	●	●	●	●	●	●



Tech. Code	DC h7 mm	DCONMS mm	OAL mm	LU mm
A60151,5	1,50	1,5	40	8
A60152	2,00	2	49	11
A60152,5	2,50	2,5	57	14
A60152,6	2,60	2,6	57	15
A60152,7	2,70	2,7	61	15
A60153	3,00	3	61	15
A60153,1	3,10	3,1	65	16
A60153,2	3,20	3,2	65	16
A60153,4	3,40	3,4	70	18
A60153,5	3,50	3,5	70	18
A60154	4,00	4	75	19
A60154,2	4,20	4	75	19
A60154,3	4,30	4,5	80	21
A60154,5	4,50	4,5	80	21
A60154,8	4,80	5	80	23
A60154,9	4,90	5	80	23
A60155	5,00	5	86	23
A60155,1	5,10	5	86	23
A60155,2	5,20	5	86	23
A60155,4	5,40	5,6	93	26
A60155,5	5,50	5,6	93	26
A60156	6,00	5,6	93	26
A60156,1	6,10	6,3	101	28

Tech. Code	DC h7 mm	DCONMS mm	OAL mm	LU mm
A60156,2	6,20	6,3	101	28
A60156,5	6,50	6,3	101	28
A60156,6	6,60	6,3	101	28
A60157	7,00	7,1	109	31
A60157,5	7,50	7,1	109	31
A60157,8	7,80	8	117	33
A60158	8,00	8	117	33
A60158,5	8,50	8	117	33
A60158,8	8,80	9	125	36
A60159	9,00	9	125	36
A60159,5	9,50	9	125	36
A60159,8	9,80	10	133	38
A601510	10,00	10	133	38
A601510,5	10,50	10	133	38
A601511	11,00	10	142	41
A601512	12,00	10	151	44
A601512,5	12,50	10	151	44
A601513	13,00	10	151	44
A601514	14,00	12,5	160	47
A601514,5	14,50	12,5	162	50
A601515	15,00	12,5	162	50
A601516	16,00	12,5	170	52

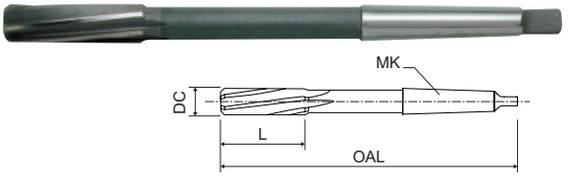
MACHINE REAMERS WITH MORSE TAPER SHANK

WRK

MATERIAL	DIN	HELIX	SHANK	COATING
HSSE	208 B	λ=7°/8°	MK	BRIGHT

Helical reamers 7°-8° Right cutting

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7
●	●	●	●	○	●	○	○	●	●	●	●	●	●	●



Tech. Code	DC h7 mm	OAL mm	L mm	MK
A60506	6	138	26	1
A60508	8	156	33	1
A605010	10	168	38	1
A605011	11	175	41	1
A605012	12	182	44	1
A605013	13	182	44	1
A605014	14	189	47	1
A605015	15	204	50	2
A605016	16	210	52	2
A605017	17	214	54	2
A605018	18	219	56	2
A605019	19	223	58	2

Tech. Code	DC h7 mm	OAL mm	L mm	MK
A605020	20	228	60	2
A605021	21	232	60	2
A605022	22	237	64	2
A605023	23	241	66	2
A605024	24	268	68	3
A605025	25	268	68	3
A605026	26	273	70	3
A605028	28	277	71	3
A605030	30	281	73	3
A605032	32	317	77	4
A605035	35	321	78	4
A605040	40	329	81	4

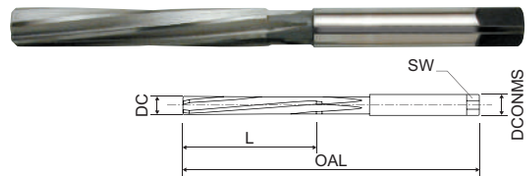
HAND REAMERS

WRK

MATERIAL	DIN	HELIX	SHANK	COATING
HSS	206 B	λ=7°/8°	DIN 6535 HA	BRIGHT

Helical cutters 7th - 8th cut right

P1	P2	P3	P4	P5	M1	M2	K1	K2	N2	N3	N6	N7
●	●	●	●	○	●	○	●	○	●	●	●	●



Tech. Code	DC h7 mm	DCONMS mm	OAL mm	LU mm	SW
A60102	2,00	2	50	25	1,6
A60102,5	2,50	2,5	58	29	2
A60103	3,00	3	62	31	2,4
A60103,5	3,50	3,5	71	35	2,8
A60104	4,00	4	76	38	3
A60104,5	4,50	4,5	81	41	3,5
A60105	5,00	5	87	44	3,8
A60106	6,00	6	93	47	4,9
A60107	7,00	7	107	54	5,5
A60108	8,00	8	115	58	6,2
A60109	9,00	9	124	62	7

Tech. Code	DC h7 mm	DCONMS mm	OAL mm	LU mm	SW
A601010	10,00	10	133	66	8
A601011	11,00	11	142	71	9
A601012	12,00	12	152	76	10
A601013	13,00	13	152	76	10
A601014	14,00	14	163	81	11,2
A601015	15,00	15	163	81	11,2
A601016	16,00	16	175	87	12,5
A601017	17,00	17	175	87	12,5
A601018	18,00	18	188	93	14
A601020	20,00	20	201	100	16

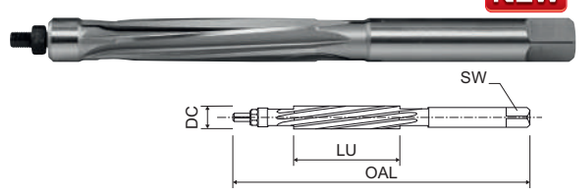
SMALL EXPANSION HAND REAMERS

WRK NEW

MATERIAL	DIN	SHANK	COATING
HSS	NDF	DIN 6535 HA	BRIGHT

Left-hand helical cutting edges, right-hand cutting Non-stock sizes are available in 2 weeks.

P1	P2	P3	P4	P5	K1	K2
●	●	●	●	○	●	○



Tech. Code	DC mm	OAL mm	LU mm	Expansion mm	SW
A606505	5	87	30	0,10	4
A606506	6	93	33	0,10	4,5
A606507	7	107	38	0,10	5,6
A606508	8	115	42	0,10	6,3
A606509	9	124	46	0,10	7,1
A606510	10	133	50	0,10	8
A606511	11	142	51	0,15	9
A606512	12	152	56	0,15	10
A606513	13	152	56	0,15	10
A606514	14	163	61	0,15	11,2
A606515	15	163	61	0,15	11,2
A606516	16	177	67	0,20	12,5
A606518	18	188	68	0,20	14
A606517	17	177	67	0,20	12,5
A606519	19	188	68	0,20	14
A606520	20	201	75	0,20	16

Tech. Code	DC mm	OAL mm	LU mm	Expansion mm	SW
A606521	21	201	75	0,20	16
A606522	22	215	82	0,20	18
A606523	23	215	82	0,20	18
A606524	24	231	85	0,20	18
A606525	25	231	85	0,20	20
A606526	26	231	85	0,25	20
A606527	27	247	94	0,25	22
A606528	28	247	94	0,25	22
A606529	29	247	94	0,25	22
A606530	30	247	94	0,25	24
A606531	31	265	99	0,30	24
A606532	32	265	99	0,30	24
A606533	33	265	99	0,30	26
A606534	34	284	108	0,30	26
A606535	35	284	108	0,30	26

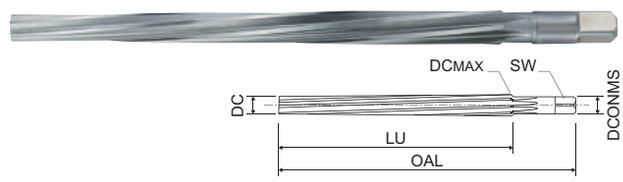
TAPER PIN HAND REAMERS

KERFOLG

MATERIAL	DIN	HELIX	SHANK	COATING
HSSE	9	λ=6°	DIN 6535 HA	BRIGHT

Helix cutters left 6°

P1	P2	P3	P4	P5	M1	M2	K1	K2	N2	N3	N6	N7
●	●	●	●	○	●	○	●	○	●	●	●	●



Tech. Code	ø nominal mm	DC mm	DCONMS mm	OAL mm	DCMAX mm	L mm	SW
A607002	2	1,90	3,15	68	2,86	48	2,4
A607003	3	2,90	4,00	80	4,06	58	3
A607004	4	3,90	5,00	93	5,26	68	3,8
A607005	5	4,90	6,30	100	6,36	73	4,9

Tech. Code	ø nominal mm	DC mm	DCONMS mm	OAL mm	DCMAX mm	L mm	SW
A607006	6	5,90	8,00	135	8,00	105	6,2
A607008	8	7,90	10,00	180	10,80	145	8
A607010	10	9,90	12,50	215	13,40	175	10
A607012	12	11,80	14,00	255	16,00	210	11

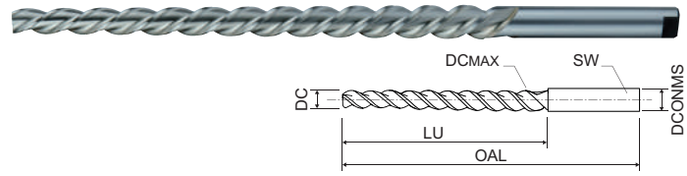
TAPER PIN MACHINE REAMERS

KERFOLG

MATERIAL	DIN	HELIX	SHANK	COATING
HSSE	2179	λ=42°	DIN 6535 HA	BRIGHT

Left-hand helix 42° cutting edges

P1	P2	P3	P4	P5	M1	M2	K1	K2	N2	N3	N6	N7
●	●	●	●	○	●	○	●	○	●	●	●	●



Tech. Code	ø nominal mm	DC mm	DCONMS mm	OAL mm	DCMAX mm	L mm
A607502	2	1,90	3,15	86	2,86	48
A607502,5	2,5	2,40	3,15	86	3,36	48
A607503	3	2,90	4,00	100	4,06	58
A607504	4	3,90	5,00	112	5,26	68
A607505	5	4,90	6,30	122	3,36	73

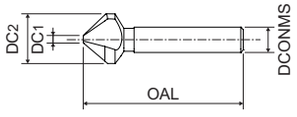
Tech. Code	ø nominal mm	DC mm	DCONMS mm	OAL mm	DCMAX mm	L mm
A607506	6	5,90	8,00	160	8,00	105
A607508	8	7,90	10,00	207	10,80	145
A607510	10	9,90	12,50	245	13,40	175
A607512	12	11,80	16,00	290	16,00	210

COUNTERSINKS 90° Z3

KERFOLG

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		335 C	90°	DIN 6535 HA	BRIGHT

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S2
●	●	●	●	○	●	○	○	●	●	●	●	●	●	●	○	○





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A61105	5,00	4	40	1,5	3
A61106	6,00	5	45	1,5	3
A61106,3	6,30	5	45	1,5	3
A61108	8,00	6	50	2	3
A61108,3	8,30	6	50	2	3
A611010	10,00	6	50	2,5	3
A611010,4	10,40	6	50	2,5	3
A611012,4	12,40	8	56	2,9	3

Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A611015	15,00	10	60	3,2	3
A611016,5	16,50	10	60	3,2	3
A611020,5	20,50	10	63	3,5	3
A611025	25,00	10	67	3,8	3
A611028	28,00	12	71	4,2	3
A611030	30,00	12	71	4,2	3
A611031	31,00	12	71	4,2	3

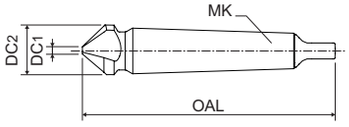
Cylindrical	Description
A6125SETA6110	Set of 5 countersinks A6110 90° Ø 8 - 12.4 - 16.5 - 20.5 - 25

COUNTERSINKS 90° Z3 WITH MORSE TAPER SHANK

WRK

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		335 D	90°	MK	BRIGHT

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S2
●	●	●	●	○	●	○	○	●	●	●	●	●	●	●	○	○





Tech. Code	DC2 mm	OAL mm	DC1 mm	MK	ZEFP
A612025	25	106	3,8	2	3
A612031	31	112	4,2	2	3

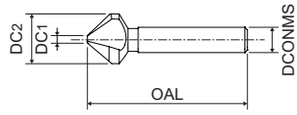
Tech. Code	DC2 mm	OAL mm	DC1 mm	MK	ZEFP
A612040	40	140	10	3	3
A612050	50	150	14	3	3

COUNTERSINKS 90° Z3

KERFOLG

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		335 C	90°	DIN 6535 HA	TiN

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S2
●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	○	○





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A61155	5,00	4	40	1,5	3
A61156	6,00	5	45	1,5	3
A61156,3	6,30	5	45	1,5	3
A61158	8,00	6	50	2	3
A611510	10,00	6	50	2,5	3
A611512,4	12,40	8	56	2,9	3

Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A611515	15,00	10	60	3,2	3
A611516,5	16,50	10	60	3,2	3
A611520,5	20,50	10	63	3,5	3
A611525	25,00	10	67	3,8	3
A611530	30,00	12	71	4,2	3

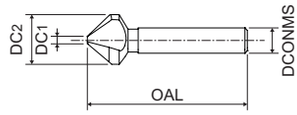
Cylindrical	
A6126SETA6115	Set of 5 countersinks A6115 90° TiN Ø 8 - 12.4 - 16.5 - 20.5 - 25

COUNTERSINKS VARIALBE PITCH A 90° Z3

KERFOLG

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		335 C	90°	DIN 6535 HA	TiN

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S2
●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	○	○





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A615704,30	4,30	4	40	1,3	3
A615706,00	6,00	5	45	1,5	3
A615706,30	6,30	5	45	1,5	3
A615708,00	8,00	6	50	2	3
A615708,30	8,30	6	50	2	3
A615710,00	10,00	6	50	2,5	3
A615710,40	10,40	6	50	2,5	3
A615711,50	11,50	8	56	2,8	3

Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A615712,40	12,40	8	56	2,8	3
A615715,00	15,00	10	60	3,2	3
A615716,50	16,50	10	60	3,2	3
A615719,00	19,00	10	63	3,5	3
A615720,50	20,50	10	63	3,5	3
A615723,00	23,00	10	67	3,8	3
A615725,00	25,00	10	67	3,8	3
A615731,00	31,00	12	71	4,2	3

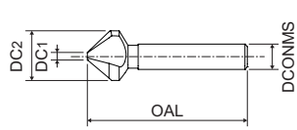
Cylindrical	Description
A6158SET	Assortment of 5 variable pitch countersinks Ø 6,3 - 10,4 - 16,5 - 20,5 - 25

COUNTERSINKS 90° Z3

GRANLUND

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		335 C	90°	DIN 6535 HA	BRIGHT

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4
●	●	●	●	○	●	○	○	●	●	●	●	●





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A610810,4	10,4	6	47	2	3
A610812,4	12,4	6	48	2	3
A610816,5	16,5	10	55	3	3

Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A610820,5	20,5	10	58	4	3
A610825	25	10	61	4	3
A610830	30	10	65	4	3

Cylindrical	Description
A6109SET	5 countersinks kit 200T Granlund Ø 10.4 - 16.5 - 20.5 - 25 - 30

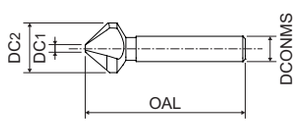
COUNTERSINKS 90° Z3

GRANLUND

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		335 C	90°	DIN 6535 HA	BRIGHT

(*) Cylindrical shank with 3 facets

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4
●	●	●	●	○	●	○	○	●	●	●	●	●





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A611104,3	4,3	6	44,0	1,5	3
A611105	5,0	6	44,0	1,5	3
A611106	6,0	6	44,0	1,5	3
A611106,3	6,3	6	44,0	1,5	3
A611106,5	6,5	6	44,5	1,5	3
A611107	7,0	6	45,0	1,5	3
A611107,3	7,3	6	45,0	1,5	3
A611108,0	8,0	6	45,5	1,5	3
A611108,3	8,3	6	45,5	1,5	3
A611108,6	8,6	6	45,5	2,0	3
A611109,4	9,4	6	46,0	2,0	3
A611110	10,0	6	46,0	2,0	3
A611110,4	10,4	6	46,5	2,0	3
A611111,5	11,5	6	47,5	2,0	3
A611112	12,0	6	47,5	2,0	3
A611112,4	12,4	6	48,0	2,0	3
A611113,4	13,4	6	48,5	2,0	3
A611115	15,0	10 (*)	54,0	3,0	3

Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A611116	16,0	10 (*)	55,0	3,0	3
A611116,4	16,4	10 (*)	55,0	3,0	3
A611116,5	16,5	10 (*)	55,0	3,0	3
A611118	18,0	10 (*)	56,5	3,0	3
A611119	19,0	10 (*)	57,0	3,0	3
A611120	20,0	10 (*)	57,0	4,0	3
A611120,5	20,5	10 (*)	57,5	4,0	3
A611122	22,0	10 (*)	58,5	4,0	3
A611123	23,0	10 (*)	59,0	4,0	3
A611125	25,0	10 (*)	60,5	4,0	3
A611126	26,0	10 (*)	61,0	4,0	3
A611128	28,0	10 (*)	62,5	4,0	3
A611130	30,0	10 (*)	64,0	4,0	3
A611131	31,0	10 (*)	64,5	4,0	3
A611134	34,0	16	74,0	8,0	3
A611135	35,0	16	75,0	8,0	3
A611137	37,0	16	76,0	8,0	3
A611140	40,0	16	77,0	8,0	3

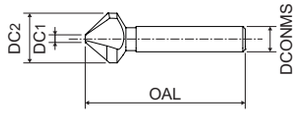
COUNTERSINKS 90° Z3 WITH LONG CYLINDRICAL SHANK

GRANLUND

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		NDF	90°	DIN 6535 HA	BRIGHT

(*) Cylindrical shank with 3 facets

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4
●	●	●	●	○	●	○	○	●	●	●	●	●





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A615312	12	10 (*)	112,0	4	3
A615316	16	10 (*)	116,0	4	3
A615320	20	10 (*)	118,0	4	3

Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A615325	25	10 (*)	121,5	4	3
A615330	30	10 (*)	125,0	4	3

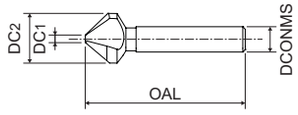
COUNTERSINKS 60° Z3

GRANLUND

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		334 C	60°	DIN 6535 HA	BRIGHT

(*) Cylindrical shank with 3 facets

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4
●	●	●	●	○	●	○	○	●	●	●	●	●





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A615008	8	6	47,5	1,5	3
A615010	10	6	49,0	2,0	3
A615012	12	6	51,5	2,0	3
A615016	16	10 (*)	59,5	3,0	3

Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A615020	20	10 (*)	63,0	4,0	3
A615025	25	10 (*)	68,0	4,0	3
A615030	30	10 (*)	73,5	4,0	3
A615040	40	16	88,0	8,0	3

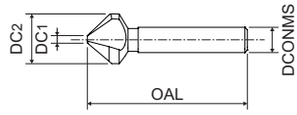
COUNTERSINKS 90° Z3

GRANLUND

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		335 C	90°	DIN 6535 HA	TiN

(*) Cylindrical shank with 3 facets

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S2
●	●	●	●	○	●	○	○	●	●	●	●	●	●	●	○	○





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A614006	6,0	6	44,0	1,5	3
A614006,3	6,3	6	44,0	1,5	3
A614008	8,0	6	45,5	1,5	3
A614008,3	8,3	6	45,5	1,5	3
A614010	10,0	6	46,0	2,0	3
A614010,4	10,4	6	46,5	2,0	3
A614012	12,0	6	47,5	2,0	3
A614012,4	12,4	6	48,0	2,0	3
A614015	15,0	10 (*)	54,0	3,0	3

Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A614016	16,0	10 (*)	55,0	3,0	3
A614016,5	16,5	10 (*)	55,0	3,0	3
A614020	20,0	10 (*)	57,0	4,0	3
A614020,5	20,5	10 (*)	57,5	4,0	3
A614025	25,0	10 (*)	60,5	4,0	3
A614030	30,0	10 (*)	64,0	4,0	3
A614035	35,0	16	75,0	8,0	3
A614040	40,0	16	77,0	8,0	3

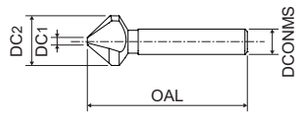
COUNTERSINKS 60° Z3

GRANLUND

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		334 C	60°	DIN 6535 HA	TiN

(*) Cylindrical shank with 3 facets

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	N6	N7	S1	S2
●	●	●	●	○	●	○	○	●	●	●	●	●	●	●	○	○





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A614510	10	6	49	2	3
A614512	12	6	51,5	2	3
A614516	16	10 (*)	59,5	3	3

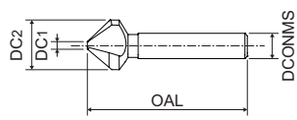
Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A614520	20	10 (*)	63	4	3
A614525	25	10 (*)	68	4	3
A614530	30	10 (*)	73,5	4	3

COUNTERSINKS 90° Z3

KERFOLG

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HM		NDF	90°	DIN 6535 HA	BRIGHT

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	S1	S2
●	●	●	●	●	●	●	○	●	●	●	●	●	○	○





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A61126,3906	6,3	6	51	1,5	3
A61128,3906	8,3	6	52	2	3
A611210,4906	10,4	6	53	2,5	3
A611212,4906	12,4	6	55	2,9	3
A611212,4908	12,4	8	55	2,9	3
A611216,5906	16,5	6	58	3,2	3
A611216,5908	16,5	8	58	3,2	3

Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A611216,59010	16,5	10	58	3,2	3
A611220,5906	20,5	6	61	3,5	3
A611220,5908	20,5	8	61	3,5	3
A611220,59010	20,5	10	61	3,5	3
A611225,59010	25,5	10	64	3,8	3
A611231,59010	31,5	10	68	4,2	3

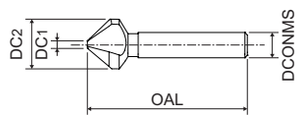
COUNTERSINKS 90° Z3

GRANLUND

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		335 C	90°	DIN 6535 HA	BRIGHT

(*) Cylindrical shank with 3 facets

P1	P2	P3	P4	P5	M1	M2	M3	K1	K2	N2	N3	N4	S1	S2
●	●	●	●	●	●	●	○	●	●	●	●	●	○	○





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A615512	12	6	49,0	4	3
A615516	16	10 (*)	57,2	4	3
A615520	20	10 (*)	60,0	4	3

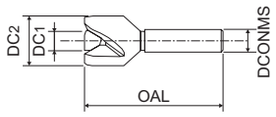
Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A615525	25	10 (*)	36,0	4	3
A615530	30	10 (*)	67,0	4	3
A615540	40	16	79,0	8	3

EXTERNAL COUNTERSINKS 90° Z3

WRK

MATERIAL	ZEFP	DIN	POINT ANGLE	SHANK	COATING
HSS		NDF	90°	DIN 6535 HA	BRIGHT

P1	P2	P3	M1	K1	K2	N2	N3	N6	N7
●	●	●	●	●	●	●	●	●	●





Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A61600412	12	8	55	4	3
A61600820	20	10	60	8	3

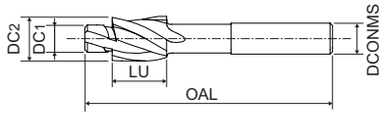
Tech. Code	DC2 mm	DCONMS mm	OAL mm	DC1 mm	ZEFP
A61601028	28	14	65	10	3

90° COUNTERBORES FOR HEAD SCREWS

WRK

MATERIAL	ZEFP	DIN	SHANK	COATING
HSSE		1866	DIN 6535 HA	BRIGHT

P1	P2	P3	P4	M1	K1	N2	N3	N4
●	●	●	●	○	○	●	●	○





Tech. Code	Screw mm	DC2 mm	DCONMS mm	OAL mm	DC1 mm	LU	ZEFP
A6230M3	M3	6,5	6	71	3,2	14	4
A6230M4	M4	8,6	8	71	4,3	14	4
A6230M5	M5	10,6	10	80	5,3	18	4

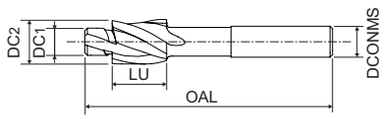
Tech. Code	Screw mm	DC2 mm	DCONMS mm	OAL mm	DC1 mm	LU	ZEFP
A6230M6	M6	12,6	10	80	6,4	18	4
A6230M8	M8	16,7	12	100	8,4	22	4
A6230M10	M10	20,7	12	100	10,5	22	4

180° COUNTERBORES Z4 FOR CYLINDRICAL HEAD SCREWS

WRK

MATERIAL	ZEFP	DIN	SHANK	COATING
HSSE		373	DIN 6535 HA	BRIGHT

P1	P2	P3	P4	M1	K1	N2	N3	N4
●	●	●	●	○	○	●	●	○

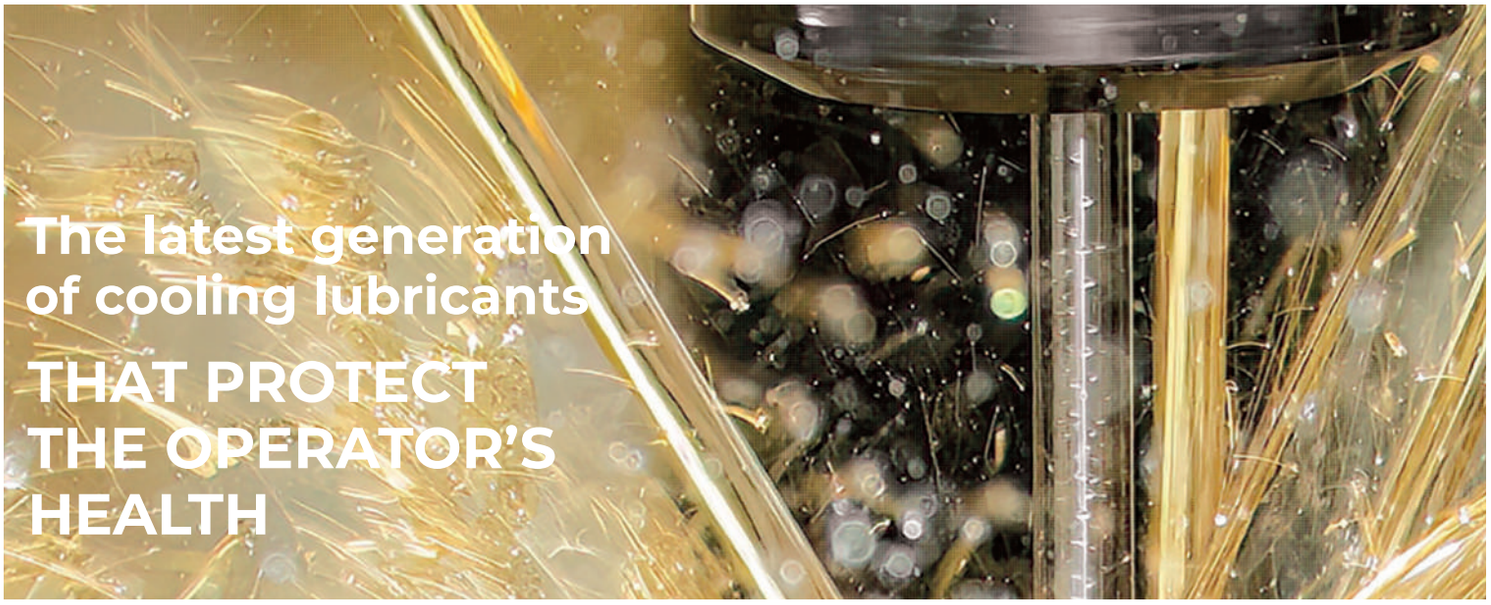




Tech. Code	Screw mm	DC2 mm	DCONMS mm	OAL mm	DC1 mm	LU	ZEFP
A6216M3	M3	6,0	5	71	3,2	14	4
A6216M4	M4	7,4	5	71	4,3	14	4
A6216M5	M5	9,4	8	80	5,3	18	4
A6216M6	M6	10,4	8	80	6,4	18	4

Tech. Code	Screw mm	DC2 mm	DCONMS mm	OAL mm	DC1 mm	LU	ZEFP
A6216M8	M8	13,5	12	100	8,4	22	4
A6216M10	M10	16,5	12	100	10,5	22	4
A6216M12	M12	20,0	12	100	13,0	22	4
A6216M16	M16	26,0	20	150	17,0	30	4

Cylindrical	Description
A6218Z4	Assortment of 6 180° counterbore M3 - M10

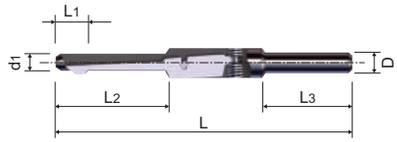


FRONT AND BACK DEBURRING TOOLS

ITEM: A6310

EZ BURR tool allows for front and back deburring in a single pass.

Material HSS
Standard DIN 335C
Countersinking angle 90°
Surface treatment Brilliant - TIN (coated)
Cutting Right hand
Assortment 90° counter sanding on all materials

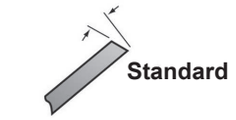


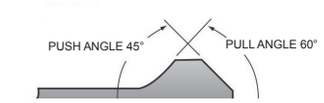
Tech. Code	d1 mm	d1 Offset mm	L1 mm	L2 mm	L3 mm	L mm	D mm	Application mm	Blade Cod.
A6310L1A2,5	2.5	- 0.10 ÷ - 0.12	11	31.7	25	85.6	6	2.47 ÷ 2.65	L1A
A6310L1A3	3.0	- 0.10 ÷ - 0.12	11	31.7	25	85.6	6	2.97 ÷ 3.15	L1A
A6310L1B3,3	3.3	- 0.10 ÷ - 0.12	11	31.7	25	114	6	3.27 ÷ 3.45	L1B
A6310L2A4	4.0	- 0.15 ÷ - 0.20	13	44	33	114	6	3.90 ÷ 4.40	L2A
A6310L2B5	5.0	- 0.15 ÷ - 0.20	13	44	33	127	6	4.90 ÷ 5.40	L2B
A6310L2B6	6.0	- 0.15 ÷ - 0.20	13	44	33	127	6	5.90 ÷ 6.40	L2B
A6310L3A8	8.0	- 0.15 ÷ - 0.20	17	51	-	127	9	7.90 ÷ 8.40	L3A
A6310L3A8,5	8.5	- 0.15 ÷ - 0.20	17	51	-	127	9	8.40 ÷ 8.90	L3A
A6310L3B10	10.0	- 0.15 ÷ - 0.20	17	-	-	127	10	9.90 ÷ 11.0	L3B
A6310L3B12	12.0	- 0.15 ÷ - 0.20	17	-	-	127	12	11.90 ÷ 13.00	L3B
A6310L3B14	14.0	- 0.17 ÷ - 0.25	17	114	-	165	12	13.90 ÷ 15.00	L3B
A6310L3B16	16.0	- 0.17 ÷ - 0.25	17	114	-	165	12	15.90 ÷ 17.00	L3B

STANDARD BLADES FOR DEBURRING TOOLS TYPE B

ITEM: A6320

STANDARD BLADES FOR DEBURRING TOOLS TYPE B



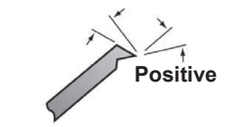


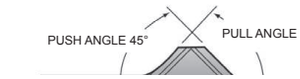
Tech. Code	Tool Dimension	Front cutting angle	Back cutting angle
A6320L1A	L1A	45°	60°
A6320L1B	L1B	45°	60°
A6320L2A	L2A	45°	60°
A6320L2B	L2B	45°	60°
A6320L3A	L3A	45°	60°
A6320L3B	L3B	45°	60°

POSITIVE BLADES FOR DEBURRING TOOLS TYPE B

ITEM: A6321

POSITIVE BLADES FOR DEBURRING TOOLS TYPE B





Tech. Code	Tool Dimension	Front cutting angle	Back cutting angle
A6321L1A	L1A	45°	60°
A6321L1B	L1B	45°	60°
A6321L2A	L2A	45°	60°
A6321L2B	L2B	45°	60°
A6321L3A	L3A	45°	60°
A6321L3B	L3B	45°	60°

Link partner

GUABO band saw blades



WHY CHOOSE GUABO?

GUABO is an Italian company strongly specialised in the mechanical workshop sector with over 50 years of experience and a strong international presence. Dedicated service with 24 to 72 hour delivery.

www.linkindustrialtools.com
info@linkindustrialtools.it

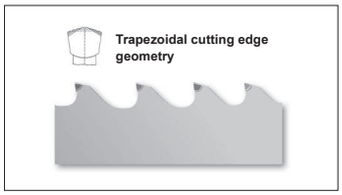
HOW TO SELECT A BAND SAW BLADE

Blades dimensions are selected according to the sawing machine to be used. This info are usually to be found in the user/maintenance manual provided along with the machine as well as on the ID plate applied on it.

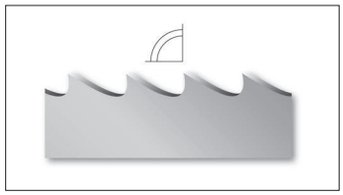
LINK with GUABO band saw blades offer three main types of cutting edges:
- Bimetallic
- Carbide
- Carbon steel

Always choose the cutting edge type according to the materials being cut.

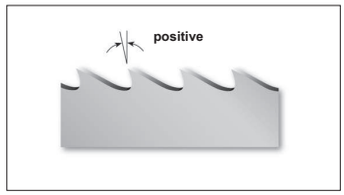
Our different tooth shapes have been combined optimizing the cutting edge's materials and the dimensions of the saw blade.



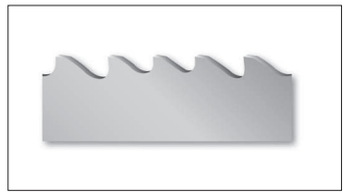
Rake angle: positive for:
- High performance and better finish
- Tooth with multiple geometry
- Finishing tooth and roughing tooth



Rake angle 0°, for:
- Short chip materials
- Pieces with small cross sections
- Structural section with thin walls
- Universal use
- Low alloy steels



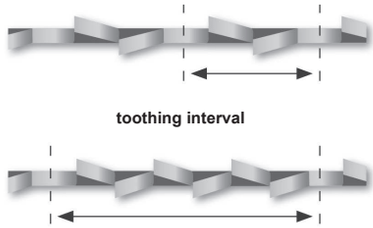
Rake angle positive, for:
- Ferrous metals and high alloy steels
- Full section
- Long chip materials



Rake angle: positive, for:
- Ferrous metals and high alloy steels
- Construction steels
- Tubular - Boxed
- Profiles - Beams

Our blades are made with the following types of tooth settings to meet all cutting needs.

The cutting channel is made by means of the tooth setting where the teeth protrude alternately left and right beyond the thickness of the blades body structure.



Standard tooth pitch (SD) can be used universally, the sequence of the tooth pitch is: left / right / straight.



Indicated for small teeth, the advantage is given by the fractioning of the force by the number of the teeth in the same position.



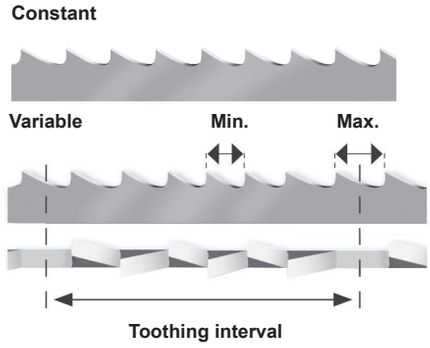
Indicated for Important cutting sections, variable cutting angles permit less resistance to penetration.

Tooth pitch refers to the number of teeth per inch (tpi).
1 inch equates to 25.4 mm.

A distinction is made between constant tooth pitches with a uniform tooth distance and variable tooth pitches with different tooth distances within one toothing interval.

Variable tooth pithces, for instance 2-3 tpi can be characterized by two measures:

2 tpi stands for the maximum tooth distance and 3 tpi stands for the minimum tooth distance in the toothing interval.



The size of the tooth and direct proportional function of the material to be cut.

The following charts suggest the appropriate tooth size.



Manual or semi-automated band saw machines.
Machine shops/carpentry shops.
Medium-alloyed steel, stainless steel cutting.



Machine shop precision cutting.
Medium to high alloyed steels' high-performance cutting.
Semi-automated/automated band saw machines.



State-of-the-art technology bandsaw blades.
higher performance production requirements.
Max output, top performances.

HOW TO SELECT A BAND SAW BLADE

SOLID MATERIAL

Variable tooth pitch	
Cross section	Teeth per inch
mm	inch
≥ 750	0,75/1,25
380 - 750	1/1,5
250 - 550	1,4/2
120 - 350	2/3
80 - 140	3/4
60 - 110	4/6
40 - 70	5/8 (5/7)
30 - 60	6/10
20 - 40	8/12 (8/11)
≤ 25	10/14

PROFILES

Heavy wall structurals (positive rake angle)								
Wall thickness	Diam. of structural (D in mm)							
(S) mm	80	100	120	150	200	300	500	750
10	-	-	-	4/6	4/6	4/6	3/4	2/3
15	4/6	4/6	4/6	4/6	4/6	3/4	2/3	2/3
20	4/6	4/6	4/6	4/6	3/4	3/4	2/3	2/3
30	4/6	4/6	4/6	3/4	3/4	2/3	2/3	2/3
50	-	-	3/4	3/4	2/3	2/3	2/3	1,4/2
80	-	-	-	-	2/3	2/3	1,4/2	1,4/2
100	-	-	-	-	-	2/3	1,4/2	1,4/2

Thin structurals (0° rake angle)							
Wall thickness	Diam. of structural (D in mm)						
(S) mm	20	40	60	80	100	120	150
2	14	14	14	14	14	14	10/14
3	14	14	14	14	10/14	10/14	8/12
4	14	14	10/14	10/14	8/12	8/12	6/10
5	14	10/14	10/14	8/12	8/12	6/10	6/10
6	14	10/14	8/12	8/12	6/10	6/10	5/8
8	14	8/12	6/10	6/10	5/8	5/8	5/8
10	-	6/10	6/10	5/8	5/8	5/8	-

● RECOMMENDED
○ SUITABLE
- NOT SUITABLE

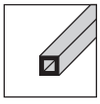
MANUAL ARCH	SEMI AUTOMATIC ARCH	AUTOMATIC ARCH	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	●	●	○	-

MATERIALS TO MACHINING						
CARBON STEELS	STAINLESS STEELS	CAST IRON	COPPER - ALUMINUM BRONZE	DUPLEX	NICKEL BASED ALLOYS	COMPOSITE
●	○	○	-	-	-	-

ICONS MATERIALS


Big round solid

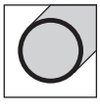

Small round solid

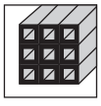

Small square pipe

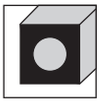

Small full square


Medium round solid

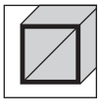

Small pipe


Big pipe


Beam of pipes


Boxed


Beams H - IPE


Square profiles

BLADES SELECTION BY TYPE OF MATERIAL AND MACHINE

GUABO

Blade	Page A.	MANUAL ARCH SHAPE							SEMI AUTOMATIC ARCH SHAPE							AUTOMATIC ARCH SHAPE							AUTOMATIC DOUBLE COLUMN							AUTOMATIC HM HIGH SPEED						
		P	M	K	N	S	H	O	P	M	K	N	S	H	O	P	M	K	N	S	H	O	P	M	K	N	S	H	O	P	M	K	N	S	H	O
M42 - LION	145	●	-	-	-	-	-	-	○	-	-	-	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M42 - BASIC PLUS UNIFLEX	145	●	○	○	○	-	-	-	●	○	○	○	-	-	-	○	○	○	○	-	-	-	○	○	○	○	-	-	-	-	-	-	-	-	-	-
M42 - BASIC UNIFLEX	146	●	-	-	○	-	-	-	●	-	-	○	-	-	-	○	-	-	○	-	-	-	○	-	-	○	-	-	-	-	-	-	-	-	-	-
M42 - BULLDOG	147	●	●	-	-	-	-	-	○	○	-	-	-	-	-	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M42 - PROFILE	147	●	-	-	-	-	-	-	●	-	-	-	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M42 - PROFILE SUPERIOR	148	○	○	-	-	-	-	-	●	○	-	-	-	-	-	●	○	-	-	-	-	-	●	○	-	-	-	-	-	-	-	-	-	-	-	-
M42 - BASIC PLUS PERFORMANCE	149	○	○	○	○	-	-	-	○	○	○	○	-	-	-	●	○	○	○	-	-	-	●	○	○	○	○	-	-	-	-	-	-	-	-	-
M42 - BASIC PERFORMANCE	148	○	-	-	○	-	-	-	●	-	-	○	-	-	-	●	-	-	○	-	-	-	●	-	-	○	-	-	-	-	-	-	-	-	-	-
M51 - BASIC PLUS UNIFLEX	150	○	●	-	-	○	○	-	-	●	-	-	○	○	-	-	●	-	-	-	○	-	-	○	-	-	-	○	-	-	-	-	-	-	-	-

● RECOMMENDED FOR... ○ USABLE FOR... - NOT USABLE FOR ...

BLADES SELECTION FOR MATERIAL SHAPE

GUABO

Blade	Page A.	SELECTION OF MATERIALS TO BE CUT										
												
M42 - LION	145	-	○	●	-	○	●	○	-	-	-	-
M42 - BASIC PLUS UNIFLEX	145	-	●	-	○	-	-	-	-	-	○	○
M42 - BASIC UNIFLEX	146	-	●	●	○	○	●	○	-	○	-	-
M42 - BULLDOG	147	-	○	○	-	○	○	○	○	-	-	-
M42 - PROFILE	147	-	-	-	○	●	-	●	●	-	○	○
M42 - PROFILE SUPERIOR	148	-	○	○	●	●	○	●	●	-	●	●
M42 - BASIC PLUS PERFORMANCE	149	●	●	-	○	-	-	-	-	-	○	○
M42 - BASIC PERFORMANCE	148	-	●	●	○	○	●	○	-	-	-	-
M51 - BASIC PLUS UNIFLEX	150	●	●	●	-	-	●	-	-	-	-	-

● RECOMMENDED FOR... ○ USABLE FOR... - NOT USABLE FOR ...

BLADES SELECTION BY TYPE OF MATERIAL GROUP

GUABO

			M42 - LION	M42 - BASIC PLUS UNIFLEX	M42 - BASIC UNIFLEX	M42 - BULLDOG	M42 - PROFILE	M42 - PROFILE SUPERIOR	M42 - BASIC PLUS PERFORMANCE	M42 - BASIC PERFORMANCE	M51 - BASIC PLUS UNIFLEX
	DIN	Material	BIMETAL								STD
1	St37, St42, C10, C15	Low alloy steel	●	●	●	○	●	●	●	●	-
2	St50, St60, C35, C45	Alloyed steel and hardened steel	○	●	○	○	-	○	●	○	○
3	16 MnCr5, 42 CrMo4,50CrV4	Spring steel and case hardened steel	-	○	-	-	-	-	○	-	○
4	40 CrMnMo7, 55 NiCrMoV6	Cold rolled steel	-	○	-	-	-	-	○	-	●
5	X40CrMoV51, 40CrMnNiMo864	Hot rolled steel	-	○	-	-	-	-	○	-	○
6	100Cr6, C125W	High alloyed steel	-	-	-	-	-	-	-	-	○
7	X210Cr12, X155CrVMo121	Hardened steel up to 50 HRC	-	-	-	-	-	-	-	-	○
8	S 6-5-2, S2-10-1-8	High speed steel and non alloyed	-	●	●	○	-	○	●	●	○
9	GG15, GG30, GGG5O	Cast iron	-	○	-	-	-	-	○	-	○
10	X17CrNi16-2, X30Cr13, X42Cr13	Stainless steel Aisi 303, 304, X20	-	○	-	○	-	○	○	-	●
11	X5CrNi18-10, X2CrNiMo17-12-2, X6CrNiM017-12-2	Stainless steel Aisi 316, 316L, X5, X6	-	-	-	-	-	-	-	-	●
12	X2Cr19NbMo, NiMo16Cr16Ti	Duplex, Heat resistant steel	-	-	-	-	-	-	-	-	●
13	NiCr19NbMo, NiMo16Cr16Ti	Nickel alloys	-	-	-	-	-	-	-	-	●
14	AlMg3, AlSi12, AlMg4, 5Mn	Aluminium for horizontal saw machines	-	○	○	-	-	-	○	○	-
15	-	Copper	-	○	○	-	-	-	○	○	-
16	Cu 99.9	Brass	-	○	○	-	-	-	○	○	-
17	CuZn34, CuZn40Pb2	Aluminum / Bronze	-	○	○	○	-	-	○	○	-
18	CuA10Ni, CUAl10Fe	Titanium alloys	-	-	-	-	-	-	-	-	●
19	Ti1, Ti-6Al-4V	Composite materials	-	○	-	-	-	-	-	-	-

● RECOMMENDED FOR... ○ USABLE FOR... - NOT USABLE FOR ...

PERCENTAGE OF EMULSION

CARBON STEEL	STAINLESS STEEL	CAST IRON	COPPER-ALUMINUM-BRONZE	DUPLEX	SPECIAL ALLOYS A NICKEL BASE	COMPOSITE
5 - 10%	10%	DRY	10%	10%	10%	MINIMAL LUBRICATION

TYPES OF LUBRIFICANTS

CARBON STEEL	STAINLESS STEEL	CAST IRON	COPPER-ALUMINUM-BRONZE	DUPLEX	SPECIAL ALLOYS A NICKEL BASE	COMPOSITE
FUTURA S CI	FUTURA S UNI AL	FUTURA S CI	MULTIFLUID S POWER CU	FUTURA S UNI AL	FUTURA S UNI AL	MULTIFLUID S UNI
LN072	LN073	LN072	LN002	LN073	LN073	LN012

During cutting operations, frictions are generated which determine high temperatures, with consequent heating of the material and wear of the surfaces concerned. In fact blade wear is influenced by temperature; in order to extend the life of the cutting edge, therefore it is necessary to have during processing, an efficient cooling (to lower the temperature) and a good lubrication in the contact area (to reduce friction). For this purpose we recommend the use of our emulsifiable liquids, whose chemical characteristics enhance the following actions:
1. cool and keep the temperature constant in the cutting area, removing the heat caused by the sliding of the tool, to avoid deformation of both the piece and the blade;
2. lubricate the contact area between the chip and the blade, thus reducing the cutting forces caused by friction between piece, chip and blade;
3. transport the chips away from the cutting area, to avoid chipping and breaking of the blades;

Above are the percentages and types of emulsifiable that we suggest according to the materials to be processed.

SAW BLADES - PARAMETERS FOR CUTTING FOR ROUND FULL

			10-99 mm		100-200 mm		201-300 mm		301-400 mm		401-500 mm	
N°	Materials group	DIN	V m/min	AV mm/min	V m/min	AV mm/min	V m/min	AV mm/min	V m/min	AV mm/min	V m/min	AV mm/min
1	Low alloy steel	S235JR FE C40 C45	100	120	85	100 - 60	75	60 - 45	65	45 - 30	50	0 - 20
2	Alloyed steel and tempered	39NiCrMo3 42NiCrMo4	70	120 - 80	65	80 - 50	60	50 - 30	55	30 - 20	45	20 - 10
3	Steel for springs and case hardening	55Si7 50CrV4 52SiCrNi5	60	110 - 70	55	70 - 40	50	40 - 20	45	20 - 12	35	12 - 8
17	Steel for cold working	-	40	60 - 25	35	25 - 12	32	18 - 10	25	10 - 8	22	8 - 5
4	Steel for working high temperatures	1.2343 1.2344 1.2714	42	70 - 40	38	40 - 25	35	25 - 15	32	15 - 10	30	10 - 5
5	Highly alloyed steel	At least one element >5%	40	70 - 35	36	35 - 20	32	20 - 12	30	12 - 8	28	8 - 5
6	Temperd steel up to 50 HRC	-	20	25 - 8	15	8 - 5	12	5 - 2	10	2 - 1,5	10	1,5 - 1
7	Unalloyed speed steels	11SMnPb37	45	100 - 40	40	40 - 25	38	35 - 15	35	15 - 10	32	10 - 7
8	Cast iron	G10 G15 G20	55	120 - 75	50	75 - 45	45	45 - 30	40	30 - 18	35	18 - 10
9	Stainless steel	Aisi 303 Aisi 304 X20	45	70 - 30	40	30 - 15	38	15 - 10	35	10 - 7	32	7 - 5
10	Stainless steel	Aisi 316 Aisi 316L X5 X6	40	60 - 25	35	25 - 12	32	12 - 8	30	8 - 6	25	6 - 4
11	Duplex, steel resistant to temperature	-	25	40 - 15	20	15 - 8	15	8 - 5	15	5 - 2	15	2
12	Nickel alloys	Monel Inconel / Hastelloy Waspalloy	20	25 - 8	15	8 - 5	12	5 - 2	12	2 - 1,5	12	1,5 - 1
13	Alluminium of horizontal sawing machine	-	140	200	140	200 - 120	120	120 - 100	120	100 - 60	120	60 - 50
14	Copper	-	120	200 - 100	110	100 - 70	100	70 - 50	80	50 - 30	60	30 - 20
15	Brass	-	120	200	120	200 - 100	100	100 - 80	90	80 - 50	90	50 - 30
16	Alluminium / bronze	Ampco Bral	35	60 - 15	30	15 - 10	27	10 - 5	25	5 - 3	20	3 - 2
17	Titanium alloys	-	40	60 - 25	35	25 - 12	32	12 - 8	30	8 - 6	25	6 - 4

V = Blade rotation speed (meters / minute) AV = Advancement / descent blade (millimeters / minute)

It is recommended to use top quality products.

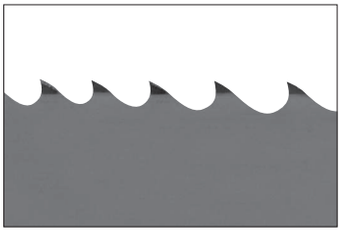
M42 BAND SAW BLADES - LION

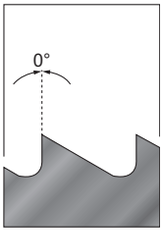
GUABO





NON-HEAVY-DUTY BLADES





Blade width	27 mm
Teeth per inch	4/6 to 8/12
Tooth shape	S
Tooth hardness	67 HRC
Features	Bimetal blade with carbon steel body and HSS M42 teeth
Tooth set	Standard
Material group	1 - 2 (Page A.142 - 143)
Application	Suitable for medium alloy steels on small and medium sections. Suitable for all materials up to a maximum of 40 HRC.



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	○	○	-	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	-	-	-	-	-	-

For further dimensions, toothing and welding see the price list.

ITEM: LION

Blade width 27 x 0.9 mm

Length mm	Tooth pitch 4/6	Tooth pitch 5/8	Tooth pitch 6/10
2450	A7005245046	A7005245058	A70052450610
2750	A7005275046	A7005275058	A70052750610
2825	A7005282546	A7005282558	A70052825610
2950	A7005295046	A7005295058	A70052950610
3010	A7005301046	A7005301058	A70053010610

Length mm	Tooth pitch 4/6	Tooth pitch 5/8	Tooth pitch 6/10
3150	A7005315046	A7005315058	A70053150610
3180	A7005318046	A7005318058	A70053180610
3320	A7005332046	A7005332058	A70053320610
3660	A7005366046	A7005366058	A70053660610

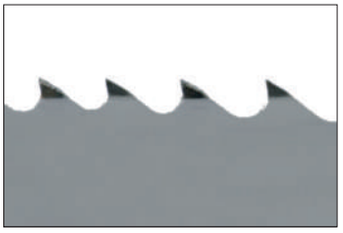
M42 BAND SAW BLADES - BASIC PLUS UNIFLEX

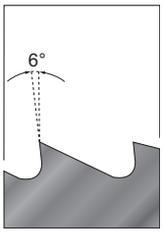
GUABO





GENERIC-PURPOSE BANDSAW BLADES





Belt height	27 mm
Teeth per inch	2/3 to 4/6
Tooth shape	K
Tooth hardness	68 HRC
Features	Two-metal blade with carbon steel body and HSS M42 teeth
Kerf type	SD
Material group	1 - 2 - 3 - 4 - 5 - 6 - 15 - 16 - 17 (Page A.142 - 143)
Application	Suitable for medium alloy steels on small and medium sections. Suitable for all materials with maximum resistance up to 40 HRC.



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	●	●	○	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	○	○	-	-	-	-

For further dimensions, toothing and welding see the price list.

ITEM: BASIC PLUS UNIFLEX

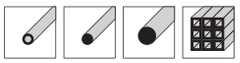
Blade width 27 x 0.9 mm

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
2450	A7015245034	A7015245046
2480		A7015248046
2590		A7015259046
2700		A7015270046
2750		A7015275046
2825		A7015282546
2845	A7015284534	A7015284546
2925	A7015292534	A7015292546
2945	A7015294534	
2950		A7015295046

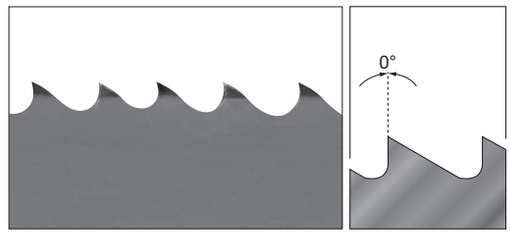
Length mm	Tooth pitch 3/4	Tooth pitch 4/6
3010	A7015301034	A7015301046
3100	A7015310034	A7015310046
3120	A7015312034	A7015312046
3150	A7015315034	A7015315046
3180	A7015318034	A7015318046
3225		A7015322546
3270	A7015327034	A7015327046
3320	A7015332034	A7015332046
3370		A7015337046
3660	A7015366034	A7015366046

M42 BAND SAW BLADES - BASIC UNIFLEX

GUABO









Band width
Teeth per inch da 5/8 a 10/14
Tooth shape Standard
Tooth hardness 68 HRC
Features Two-metal blade with carbon steel body and HSS M42 teeth, Bimetal blade with carbon steel body and HSS M42 teeth
Tooth set SD
Material group 1 - 2 - 8 - 14 - 15 - 16 - 17 (Page A.142 - 143)
Application Suitable for medium-alloy steels for small and medium sections. Suitable for all materials with a maximum strength of up to 40 HRC.

MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	●	○	○	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	○	○	-	-	-	-

For further dimensions, toothing and welding see the price list.

ITEM: BASIC UNIFLEX

Blade width 13 x 0.65 mm

Length mm	Tooth pitch 6/10	Tooth pitch 8/12	Tooth pitch 10/14
1140	A70121140610	A70121140812	
1330		A70121330812	
1335	A70121335610	A70121335812	A701213351014

Length mm	Tooth pitch 6/10	Tooth pitch 8/12	Tooth pitch 10/14
1440	A70121440610	A70121440812	
1470	A70121470610	A70121470812	

ITEM: BASIC UNIFLEX

Blade width 13 x 0.9 mm

Length mm	Tooth pitch 6/10	Tooth pitch 8/12
1735	A70131735610	A70131735812

ITEM: BASIC UNIFLEX

Blade width 20 x 0.9 mm

Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2000		A70142000610	
2060	A7014206058	A70142060610	

Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2080	A7014208058		
2085		A70142085610	A70142085812

ITEM: BASIC UNIFLEX

Blade height mm 27 x 0.9

Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2450	A7007245058	A70072450610	A70072450812
2480	A7007248058	A70072480610	
2500	A7007250058	A70072500610	
2590	A7007259058		
2600		A70072600610	
2700	A7007270058		
2750	A7007275058	A70072750610	
2760	A7007276058		
2765	A7007276558		
2825	A7007282558	A70072825610	A70072825812

Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2845	A7007284558		
2880	A7007288058		
2925	A7007292558		
2945	A7007294558	A70072945610	
2950	A7007295058	A70072950610	A70072950812
3010	A7007301058	A70073010610	
3120	A7007312058	A70073120610	
3150	A7007315058	A70073150610	
3320	A7007332058		
3660	A7007366058		

Related products

BIANCO SEGATRICI A NASTRO **MANUAL BAND SAW MACHINES**

Tech. Code	Band dimension mm	Tension V	Power Kw
N2327280M	2450 x 27 x 0,9	400	0,5 - 0,7



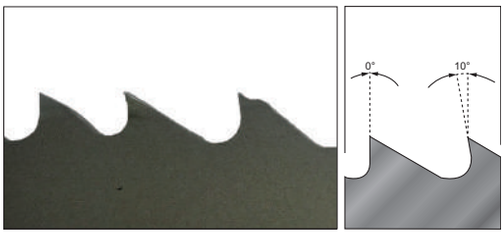
Products are available in CAP. N

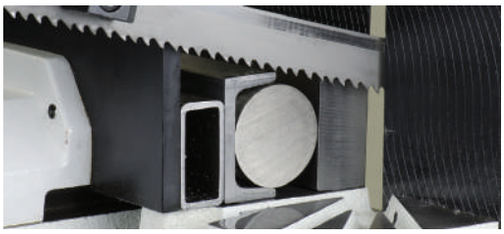
M42 BAND SAW BLADES - BULLDOG

GUABO









BLADES FOR GENERIC APPLICATION

Blade width	27 mm
Teeth per inch	4/6
Tooth shape	Combined P + K + S
Tooth hardness	67/68 HRC
Features	Bimetal blade M42
Tooth set	Standard (SD)
Material group	1 - 2 - 10 (Page A.142 - 143)
Application	The BULLDOG blade provides a highly satisfactory cutting performance on materials with various sections such as tubular, beamed, solid, round, square and box sections and on various materials such as iron, C40 stainless steels and aluminium. The BULLDOG blade has a triple tooth geometry combined with variable pitch and the following types of teeth: standard, single tooth (positive) and profiled toothed (chip breaker).

MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	○	-	-	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
○	○	○	○	-	-	-

For further dimensions, toothing and welding see the price list.

ITEM: BULLDOG

Blade height mm 27 x 0.9

Length mm	Tooth pitch 4/6
2450	A7019245046
2500	A7019250046
2590	A7019259046
2600	A7019260046
2700	A7019270046
2750	A7019275046
2825	A7019282546
2925	A7019292546
2950	A7019295046

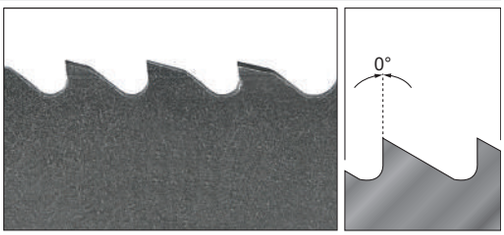
Length mm	Tooth pitch 4/6
3010	A7019301046
3120	A7019312046
3150	A7019315046
3180	A7019318046
3270	A7019327046
3320	A7019332046
3370	A7019337046
3660	A7019366046

M42 BAND SAW BLADES - PROFILE

GUABO









Blade width	27 x 0,9 mm
Teeth per inch	4/6 to 8/11
Tooth shape	P-Shaped Reinforced tooth
Tooth hardness	68 HRC
Features	M42 bimetal blade with special tooth geometry and toothing
Tooth set	SD
Material group	1 - 2 - 3 - 4 - 5 - 6 (Page A.142 - 143)
Application	Suitable for cutting pipes and profiles, single or bundle cuts. Not suitable for cutting solid materials.

MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	●	○	○	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	-	-	-	-	-	-

For further dimensions, toothing and welding see the price list.

ITEM: PROFILE

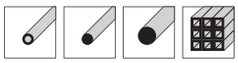
Blade width 27 x 0.9 mm

Length mm	Tooth pitch 4/6	Tooth pitch 5/7	Tooth pitch 8/11
2450	A7032245046	A7032245057	A70322450811
2500			A70322500811
2700		A7032270057	A70322700811
2750		A7032275057	A70322750811
2765		A7032276557	
2825	A7032282546	A7032282557	A70322825811
2835		A7032283557	
2845		A7032284557	
2950	A7032295046	A7032295057	

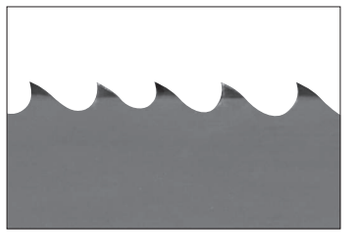
Length mm	Tooth pitch 4/6	Tooth pitch 5/7	Tooth pitch 8/11
3010	A7032301046	A7032301057	
3100	A7032310046	A7032310057	
3120	A7032312046	A7032312057	
3150		A7032315057	A70323150811
3180		A7032318057	
3270		A7032327057	
3320	A7032332046	A7032332057	
3660		A7032366057	

M42 BAND SAW BLADES - BASIC PERFORMANCE

GUABO







STANDARD-PRODUCTION BLADES

Band width	27 mm
Teeth per inch	5/8 to 8/12
Tooth shape	K
Tooth hardness	68-69 HRC
Features	Bimetal blade with carbon steel body and HSS M42 cobalt-enhanced teeth
Tooth set	SD
Material group	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 (Page A.142 - 143)
Application	Thanks to a good resistance to high temperatures, this band saw blade can be used for wide section cuts or to cut materials such as high-alloy steel, stainless steel, titanium, bronze and metals up to 44 HRC.



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	●	○	○	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	○	○	○	-	○	-

For further dimensions, toothing and welding see the price list.

ITEM: BASIC PERFORMANCE

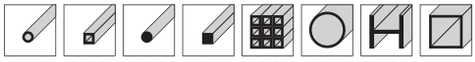
Blade width 27 x 0,9 mm

Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2450	A7024245058	A70242450610	
2500	A7024250058	A70242500610	
2590	A7024259058		
2600	A7024260058		
2700	A7024270058		
2750	A7024275058	A70242750610	A70242750812
2765	A7024276558		
2825	A7024282558	A70242825610	
2845	A7024284558	A70242845610	
2925	A7024292558		

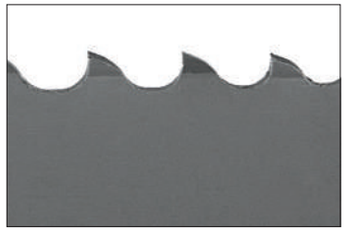
Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2945	A7024294558	A70242945610	
2950	A7024295058	A70242950610	A70242950812
3010	A7024301058	A70243010610	A70243010812
3120	A7024312058	A70243120610	
3150	A7024315058	A70243150610	A70243150812
3180	A7024318058		
3200	A7024320058		
3320	A7024332058	A70243320610	
3660	A7024366058		

M42 BAND SAW BLADES - PROFILE SUPERIOR

GUABO







BLADES FOR PROFILE AND SOLID CUTTING

Blade width	27 x 09 mm
Teeth per inch	3/4 to 8/11
Tooth shape	Reinforced tooth
Tooth hardness	68 HRC
Features	M42 bimetal blade with special tooth geometry, reinforced profile, slightly positive angle
Tooth set	A GROUPS
Material group	1 - 2 - 4 (Page A.142 - 143)
Application	Suitable for cutting medium to large size beams, profiles, pipes, single or bundle cuts, flats, box sections in general, iron, medium alloy steel, stainless steel and cutting medium size solid materials.



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
-	○	●	●	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	○	-	-	-	-	-

For further dimensions, toothing and welding see the price list.

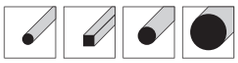
ITEM: PROFILE SUPERIOR

Length mm	Tooth pitch 4/6	Tooth pitch 5/7	Tooth pitch 6/10	Tooth pitch 8/11
2450	A7030245046	A7030245057	A70302450610	
2500		A7030250057		
2750		A7030275057	A70302750610	A70302750811
2845			A70302845610	
2590		A7030259057	A70302950610	A70302950811

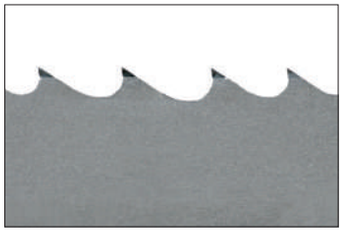
Length mm	Tooth pitch 4/6	Tooth pitch 5/7	Tooth pitch 6/10	Tooth pitch 4/6
3010		A7030301057		
3120		A7030312057		
3150	A7030315046	A7030315057	A70303150610	
3270		A7030327057	A70303270610	
3320	A7030332046			

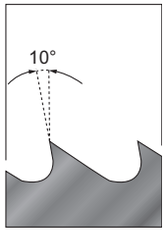
M42 BAND SAW BLADES - BASIC PLUS PERFORMANCE

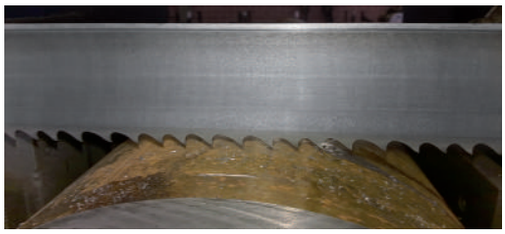
GUABO











STANDARD-PRODUCTION BLADES

Band width	27 to 34 mm
Teeth per inch	2/3 to 4/6
Tooth shape	K
Tooth hardness	68-69 HRC
Features	Bimetal blade with carbon steel body and HSS M42 cobalt-enhanced teeth
Tooth set	SD
Material group	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 (Page A.142 - 143)
Application	Thanks to a good resistance to high temperatures, this band saw blade can be used for wide section cuts or to cut materials such as high-alloy steel, stainless steel, titanium, bronze and metals up to 44 HRC.

MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	○	●	●	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	○	○	○	-	○	-

For further dimensions, toothing and welding see the price list.

ITEM: BASIC PLUS PERFORMANCE

Blade width 27 x 0,9 mm

Length mm	Tooth pitch 2/3	Tooth pitch 3/4	Tooth pitch 4/6
2450		A7021245034	A7021245046
2500			A7021250046
2590			A7021259046
2600			A7021260046
2650			A7021265046
2700			A7021270046
2750		A7021275034	A7021275046
2765			A7021276546
2825			A7021282546
2845		A7021284534	A7021284546
2950		A7021295034	A7021295046
3010	A7021301023	A7021301034	A7021301046

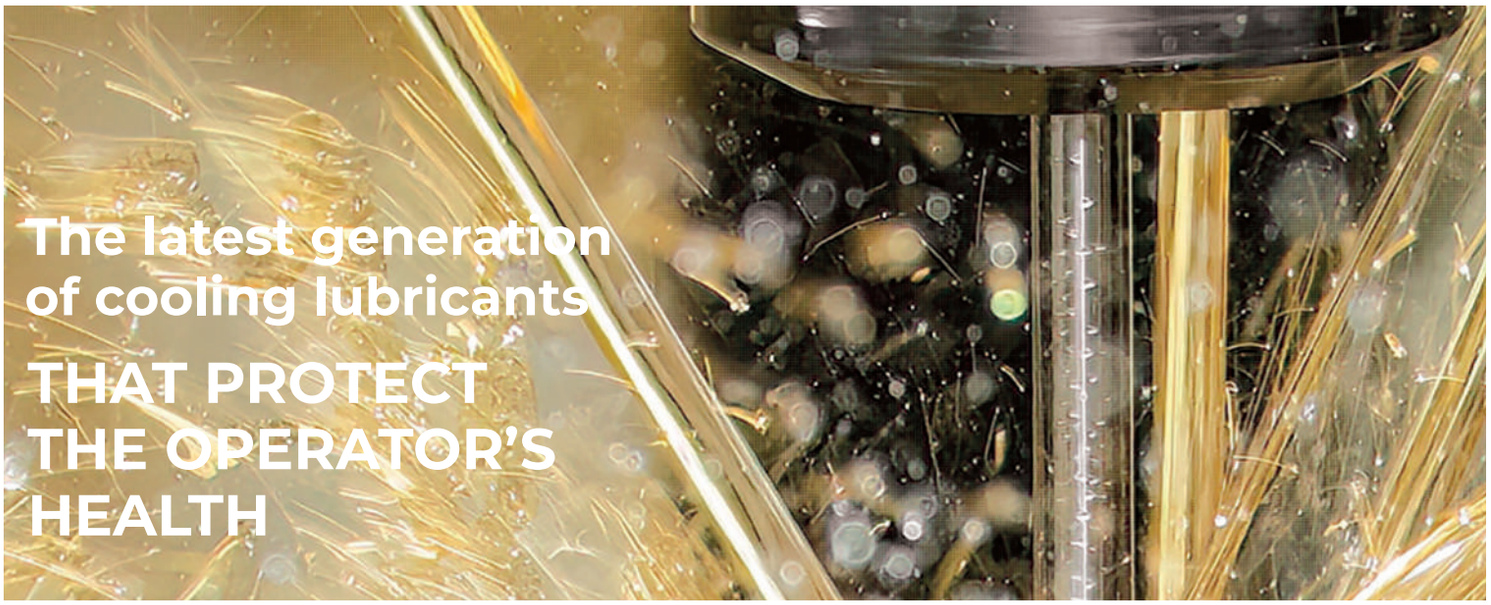
Length mm	Tooth pitch 2/3	Tooth pitch 3/4	Tooth pitch 4/6
3100		A7021310034	
3120		A7021312034	A7021312046
3150		A7021315034	A7021315046
3180		A7021318034	A7021318046
3200		A7021320034	
3225			A7021322546
3320		A7021332034	A7021332046
3370			A7021337046
3505			A7021350546
3660	A7021366023	A7021366034	A7021366046
3900			A7021390046
4600		A7021460034	

ITEM: BASIC PLUS PERFORMANCE

Blade width 34 x 1.1 mm

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
4100	A7022410034	
4115	A7022411534	
4120	A7022412034	A7022412046
4500	A7022450034	A7022450046

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
4640	A7022464034	
5095	A7022509534	
5400	A7022540034	

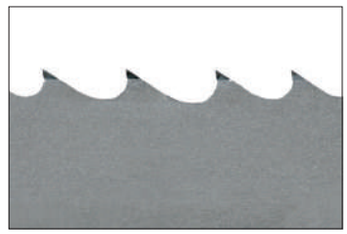


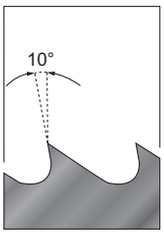
M51 SAW BLADES - BASIC PLUS UNIFLEX

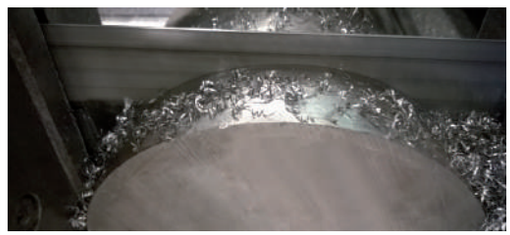
GUABO











LAME PER MATERIALI ALTAMENTE LEGATI

Blade width	from 27 to 34 mm
Teeth per inch	2/3 to 8/12
Tooth shape	K
Tooth hardness	70 HRC
Features	Blade with high cobalt content (~10%)
Tooth set	Standard
Material group	4 - 10 - 11 (Page A.142 - 143)
Application	Steels resistant up to about 1700 N/mm², stainless and acid resistant steels, nickel alloys, titanium, solid materials.

MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	●	●	○	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
○	●	○	-	○	○	-

For further dimensions, toothing and welding see the price list.

ITEM: BASIC PLUS UNIFLEX

Blade width 27 x 0.9 mm

Length mm	Tooth pitch 2/3	Tooth pitch 3/4	Tooth pitch 4/6
2450		A7050245034	
2750		A7050275034	A7050275046
2765			A7050276546
2825			A7050282546
2845		A7050284534	A7050284546
2950		A7050295034	A7050295046
3010	A7050301023	A7050301034	A7050301046
3120		A7050312034	A7050312046

Length mm	Tooth pitch 2/3	Tooth pitch 3/4	Tooth pitch 4/6
3150		A7050315034	A7050315046
3180		A7050318034	A7050318046
3200		A7050320034	
3320		A7050332034	A7050332046
3370			A7050337046
3505			A7050350546
3660	A7050366023	A7050366034	A7050366046

ITEM: BASIC PLUS UNIFLEX

Blade width 34 x 1.1 mm

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
4100	A7051410034	
4115	A7051411534	
4120	A7051412034	A7051412046
4500	A7051450034	A7051450046

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
4640	A7051464034	
5095	A7051509534	
5400	A7051540034	

POLISHING BRUSHES FOR BAND SAW MACHINES

ITEM: A7300

Polishing brushes for band saw machines, suitable for the following models:

MEP 260 - MEP 281 - MEP 282 - MEP 332

Tech. Code	Ø mm	Thickness mm	Shank mm
A730050	50	12	M6 x 25



ITEM: A7310

Blade cleaning brushes for band sawing machines, for use on models

WHITE 280M 60° - WHITE 330M 60° - WHITE 370M 60°

Tech. Code	Ø mm	Thickness mm	Hole mm
A731080	80	12	8



HSS DMO5 (M2) CIRCULAR SAW BLADES

ITEM: A7210

Constructed according to strict production criteria and cover a wide range of applications.

The circular discs are of compounds of HSS wolfram-molybdenum.

The protective coating gives GUABO discs a greater degree of hardness of the cusps, a reduction of coefficient friction with a consequent increase of the cutting performance of automatic machines and cutting applications of hard metal.



VAPORIZED

Tech. Code	Ø mm	Blade thickness mm	Ø hole mm	Z
A721020018130V	200	1.8	32	130
A721020018160V	200	1.8	32	160
A721020018200V	200	1.8	32	200
A72102252140V	225	2.0	32	140
A72102252180V	225	2.0	32	180
A72102252220V	225	2.0	32	220
A72102502100V	250	2.0	32	100
A72102502128V	250	2.0	32	128
A72102502160V	250	2.0	32	160

Tech. Code	Ø mm	Blade thickness mm	Ø hole mm	Z
A72102502200V	250	2.0	32	200
A721027525140V	275	2.5	32	140
A721027525220V	275	2.5	32	220
A721030025120V	300	2.5	32	120
A721030025160V	300	2.5	32	160
A721030025220V	300	2.5	32	220
A721031525160V	315	2.5	32	160
A721031525220V	315	2.5	32	220

SILENT-TYPE CIRCULAR BLADES WITH HARD METAL TEETH FOR CUTTING ALLUMINIUM

ITEM: A7500

Circular blades with hard metal coated teeth for cutting light alloys and aluminum profiles. Used for single or double mechanical cutting with mechanical clamping of the piece, with also particular multiple geometry of the teeth, alternated tooth (flat - trapezoidal cutting edge) negative - positive cutting angle, low noise level.



Tech. Code	Ø mm	Tooth thickness mm	Blade thickness mm	Hole Ø mm	Z	Rpm max
A7500250060	250	3.2	2.6	32	60	6500
A7500250080	250	3,2	2,6	32	80	6500
A7500300072	300	3.4	2.6	32	72	5400
A7500300096	300	3.4	2.6	32	96	5400
A7500350084	350	3.4	2.6	32	84	4600
A7500350108	350	3.4	2.6	32	108	4600
A7500400096	400	4.0	4.0	32	96	4000
A7500400120	400	4.0	4.0	32	120	4000
A7500450108	450	4.0	3.2	32	108	3600

TCT CIRCULAR SAW BLADES FOR FERROUS DRY-CUT METALS

ITEM: A7450

Circular blades with hard metal coated teeth for cutting insulated panels coated in iron or steel. They can also cut small profiles and iron pipes. Blades with alternate tooth (flat - triple) positive cutting angle, low noise level. For use on professional machines, portable and stationary.



Tech. Code	Ø mm	Tooth thickness mm	Blade thickness mm	Ø hole mm	Z	Rpm max
A745016030	160	2.2	1.6	20	28	3100
A745018034	180	2.2	1.6	30	34	2700
A745019048	190	2.2	1.8	30	48	2500
A745023044	230	2.2	1.8	30	44	2100
A745025054	250	2.2	1.8	30	54	1800
A745027060	270	2.2	1.8	30	60	1700
A745030080	300	2.2	1.8	30	80	1600
A745035080	350	2.4	2	30	80	850

ITEM: A7550

Reductions for circular blade



Tech. Code	External diameter mm	Internal diameter mm
A75503230	32	30

Related products

READY-TO-USE METALWORKING FLUID FOR BAND SAWS

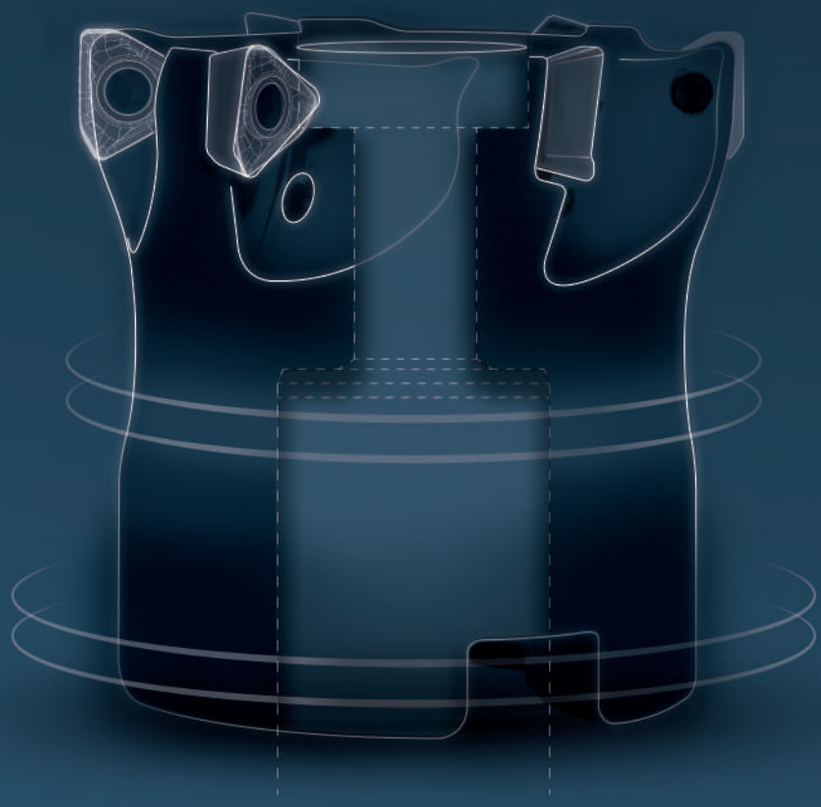
Tech. Code	Quantity L	Specific weight at 20°C kg/L	Appearance
H005025	25	1,0	Translucent



The products are available in chapter H

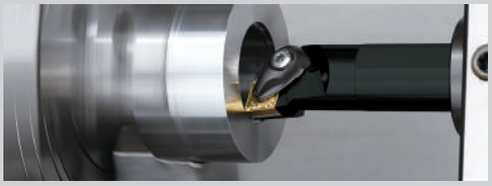
KERFOLG

" successfull "



INDEXABLE TOOLS

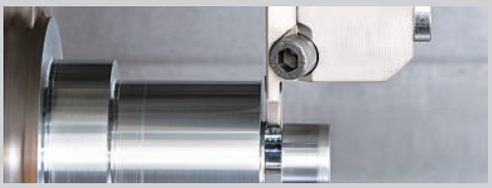
B



KERFOLG — **1 - 19** Turning toolholders



KERFOLG, tungaloy — **20 - 43** Turning positive and negative inserts



KERFOLG — **44 - 56** Threading, parting and knurling



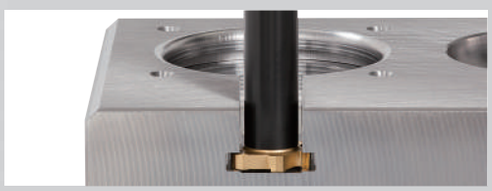
KERFOLG — **57 - 61** Face milling



KERFOLG, tungaloy — **62 - 75** Square shoulder milling



KERFOLG, tungaloy — **76 - 81** High feed milling



KERFOLG, tungaloy — **82 - 89** Multifuntional copying milling



KERFOLG — **90 - 96** Slitting, slotting, chamfering mills and threading



KERFOLG, tungaloy, GRANLUND — **97 - 116** Drilling, spotfacing and countebores



KERFOLG, SWISS MBM — **117 - 127** Boring, broaching

B

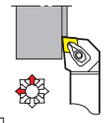
Inserts

EXTERNAL TURNING

C SHAPE

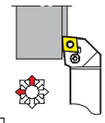


DCLNR/L — Turning and facing



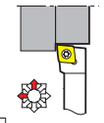
95° — Page 4

PCLNR/L — Turning and facing



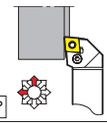
95° — Page 4

SCLCR/L — Turning and facing



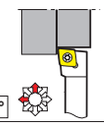
95° — Page 9

PCLNR/L — Turning and facing with lubricant



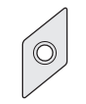
95° — Page 5

SCLCR/L — Turning and facing with lubricant



95° — Page 11

D SHAPE



DDJNR/L — Turning and facing



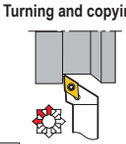
93° — Page 5

PDJNR/L — Turning and facing



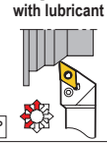
93° — Page 5

SDJCR/L — Turning and copying



93° — Page 12

PDJNR/L — Turning and facing with lubricant



93° — Page 6

SDJCR/L — Turning and copying with lubricant



93° — Page 12

W SHAPE



DWLNR/L — Turning and facing



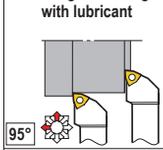
95° — Page 8

MWLNR/L — Turning and facing



95° — Page 8

PWLNR/L — Turning and facing with lubricant

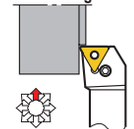


95° — Page 8

T SHAPE

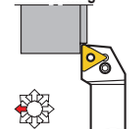


PTFNR/L — Facing



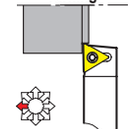
91° — Page 7

PTGNR/L — Turning



91° — Page 7

STGCR/L — Turning

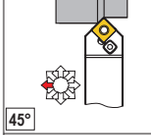


91° — Page 16

S SHAPE

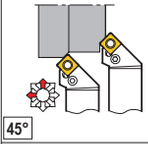


PSDNN — Turning



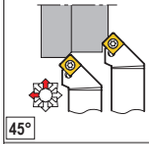
45° — Page 6

PSSNR/L — Turning and facing



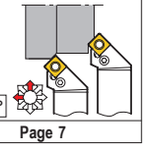
45° — Page 6

SSSCR/L — Turning and facing



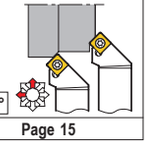
45° — Page 15

PSSNR/L — Turning and facing with lubricant



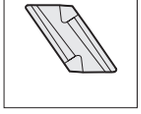
45° — Page 7

SSSCR/L — Turning and facing with lubricant

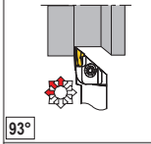


45° — Page 15

K SHAPE



CKJNR/L — Turning and copying

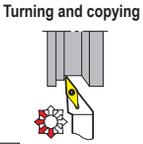


93° — Page 14

V SHAPE

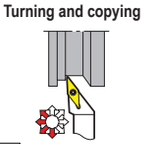


SVJBR/L — Turning and copying



93° — Page 17

MVJNR/L — Turning and copying



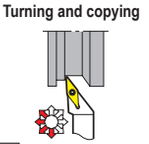
93° — Page 8

MVVNN — Turning and copying



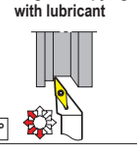
72,5° — Page 8

SVJCR/L — Turning and copying



93° — Page 18

SVJCR/L — Turning and copying with lubricant

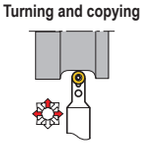


93° — Page 19

R SHAPE

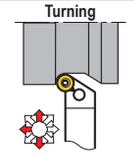


SRDCN — Turning and copying



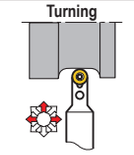
Page 14

PRGCR/L — Turning

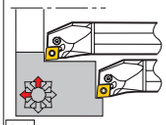
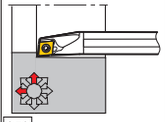
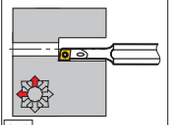
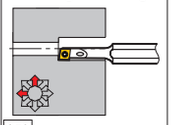
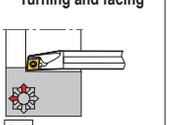
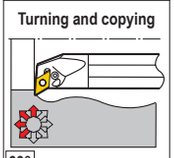
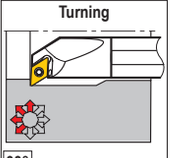
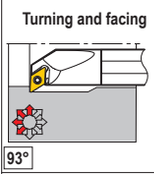
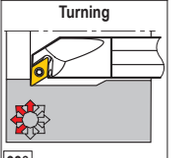
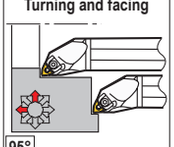
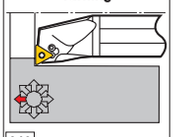
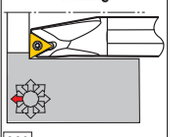
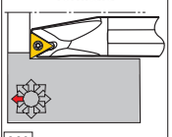
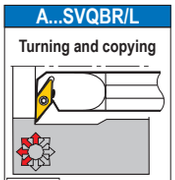
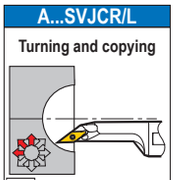
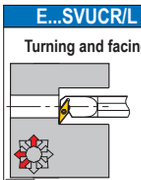
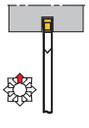
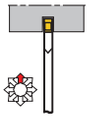
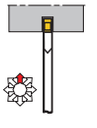
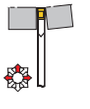
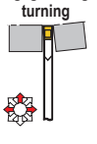


Page 15

PRDCN — Turning



Page 15

Inserts	INTERNAL TURNING				
C SHAPE 	A....PCLNR/L Turning and facing  95° Page 5	A...SCLCR/L Turning and facing  95° Page 10	AH...SCLCR/L Turning and facing  95° Page 11	E...SCLCR/L Turning and facing  95° Page 10	A...SCLCR/L Turning and facing  95° Page 11
D SHAPE 	A....PDUNR/L Turning and copying  93° Page 6	A...SDUCR/L Turning  93° Page 13	E...SDUCR/L Turning and facing  93° Page 13	A...SDUCR/L Turning  93° Page 14	
W SHAPE 	A....MWLNR/L Turning and facing  95° Page 9				
T SHAPE 	A....PTFNR/L Turning  91° Page 7	A...STFCR/L Turning  90° Page 16	E...STFCR/L Tornitura  90° Page 17		
S SHAPE 					
K SHAPE 					
V SHAPE 	A...SVQBR/L Turning and copying  107,30° Page 17	A...SVJCR/L Turning and copying  52° Page 19	E...SVUCR/L Turning and facing  93° Page 18		
CUT OFF 	BL/R/N... SGN Parting and grooving  Page 46	BN... SCN Parting and grooving  Page 44	BN...SGN Parting and grooving  Page 48	TGE...-DGN Parting, grooving and turning  Page 45	TGE..DGN25... Parting, grooving and turning  Page 47

ICONS LEGEND

- CC... Insert type CC...
- CN... Insert type CN...
- DC... Insert type DC...
- DGN... Insert type DGN...
- DN... Insert type DN...
- KN... Insert type KN...
- RC... Insert type RC...
- SC... Insert type SC...
- SCN... Insert type SCN...
- SG... Insert type SG...
- SGN... Insert type SGN...
- SN... Insert type SN...
- TC... Insert type TC...
- TN... Insert type TN...
- VB... Insert type VB...
- VC... Insert type VC...
- VN... Insert type VN...
- WN... Insert type WN...
- 16E-I... Insert type 16E-I...
- Holes of lubrification
- Enlargment
- Plung
- Slotting
- Slide slotting
- Slotting with radius
- External Thread
- Internal Thread
- Drilling
- Slide Milling
- Counterboring
- Profiling
- Ramp
- Chamfering
- Square shouldering
- Square shouldering
- Smoothing
- Countersinking
- Pocketing
- 7° 0,8 mm KAPR= 7° Ap max.= 0,8 mm
- 17° 1 mm KAPR= 17° Ap max.= 1 mm
- 17° 1,3 mm KAPR= 17° Ap max.= 1,3 mm
- 14° 2,5 mm KAPR= 14° Ap max.= 2,5 mm
- mm 3,5-16 Ap max.=3,5-16 mm
- 45° 4 mm KAPR= 45° Ap max.= 4 mm
- 90° 5 mm KAPR= 90° Ap max.= 5 mm
- 90° 5,2 mm KAPR= 90° Ap max.= 5,2 mm
- 90° 6 mm KAPR= 90° Ap max.= 6 mm
- 90° 16 mm KAPR= 90° Ap max.= 16 mm
- RAA Knurled type RAA
- RBL Knurled type RBL
- RBR Knurled type RBR
- RGE Knurled type RGE
- RGV Knurled type RGV

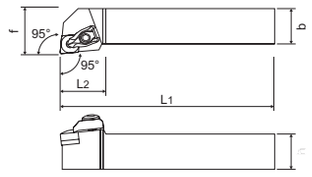
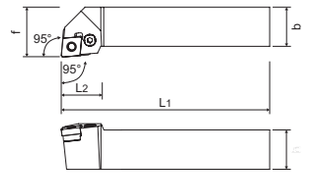
EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - C SHAPE

KERFOLG

CN...

ITEM: B0U10

Material Steel
Clamping system D clamp
Application Turning and facing works

DCLNR/L	PCLNR/L
	

								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Clamp	Wrench	Shim	Support screw	Spring pin
B0U10R2020K12	DCLNR 2020 K12	20	20	25	30	125	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/
B0U10R2525M12	DCLNR 2525 M12	25	25	32	33	150	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/
B0U10L2020K12	DCLNL 2020 K12	20	20	25	30	125	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/
B0U10L2525M12	DCLNL 2525 M12	25	25	32	33	150	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/

								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Screw	Wrench	Shim	Spring pin
B0U11R2020K12	PCLNR 2020 K12	20	20	25	27	125	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U11R2525M12	PCLNR 2525 M12	25	25	32	28	150	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U11L2020K12	PCLNL 2020 K12	20	20	25	27	125	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U11L2525M12	PCLNL 2525 M12	25	25	32	28	150	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U11R2525M16	PCLNR 2525 M16	25	25	32	33	150	CN..1606..	BRICA018	BRICA019	BRICA014	BRICA020	BRICA021
B0U11L2525M16	PCLNL 2525 M16	25	25	32	33	150	CN..1606..	BRICA018	BRICA019	BRICA014	BRICA020	BRICA021
B0U11R3232P19	PCLNR 3232 P19	32	32	40	38	170	CN..1906..	BRICA022	BRICA023	BRICA024	BRICA025	BRICA026
B0U11R4040S19	PCLNR 4040 S19	40	40	50	38	250	CN..1906..	BRICA022	BRICA023	BRICA024	BRICA025	BRICA026
B0U11L3232P19	PCLNL 3232 P19	32	32	40	38	170	CN..1906..	BRICA022	BRICA023	BRICA024	BRICA025	BRICA026
B0U11L4040S19	PCLNL 4040 S19	40	40	50	38	250	CN..1906..	BRICA022	BRICA023	BRICA024	BRICA025	BRICA026

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - C SHAPE

KERFOLG

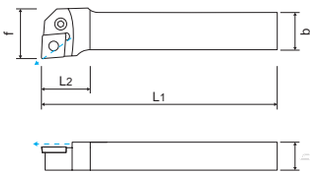
CN...

ITEM: B0U13

Material Steel
Clamping system P (lever)
Application External Turning and Facing

Connector 1/8" Gas included

PCLNR/L



								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Screw	Wrench	Support	Spring pin
B0U13L1616H12	PCLNL 1616 H12 IK G1/8	16	16	20	26.1	100	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
B0U13L2020K12	PCLNL 2020 K12 IK G1/8	20	20	25	27.4	125	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
B0U13L2525M12	PCLNL 2525 M12 IK G1/8	25	25	32	28	150	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
B0U13R1616H12	PCLNR 1616 H12 IK G1/8	16	16	20	26.1	100	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
B0U13R2020K12	PCLNR 2020 K12 IK G1/8	20	20	25	27.4	125	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
B0U13R2525M12	PCLNR 2525 M12 IK G1/8	25	25	32	28	150	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254

INTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - C SHAPE

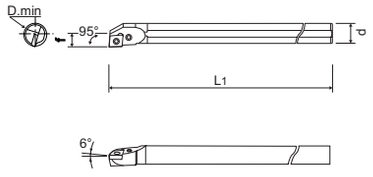
KERFOLG

CN...

ITEM: B0U15

Material Steel
Clamping system P (lever)
Application Internal turning

A....PCLNR/L



							SPARE PARTS INCLUDED				
Tech. Code	Description	D min mm	d mm	f mm	L1 mm	Inserts	Lever	Screw	Wrench	Shim	Spring pin
B0U15R2512	A25R PCLNR 12	32	25	17	200	CN..1204..	BRICA013	BRICA053	BRICA014	BRICA007	BRICA017
B0U15R3212	A32S PCLNR 12	40	32	22	250	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U15R4012	A40T PCLNR 12	50	40	27	300	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U15L2512	A25R PCLNL 12	32	25	17	200	CN..1204..	BRICA013	BRICA053	BRICA014	BRICA007	BRICA017
B0U15L3212	A32S PCLNL 12	40	32	22	250	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U15L4012	A40T PCLNL 12	50	40	27	300	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - D SHAPE

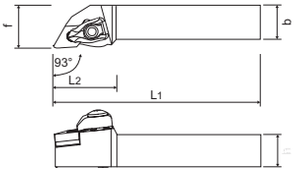
KERFOLG

DN...

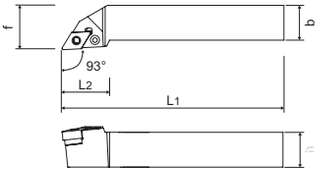
ITEM: B0U20

Material Steel
Clamping system D - P (clamp - lever)
Application Turning and copying

DDJNR/L



PDJNR/L



								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Clamp	Wrench	Shim	Shim screw	Spring pin
B0U20R2020K15	DDJNR 2020 K15	20	20	25	35	125	DN..1506..	BRICA005	BRICA006	BRICA028	BRICA008	/
B0U20R2525M15	DDJNR 2525 M15	25	25	32	36	150	DN..1506..	BRICA005	BRICA006	BRICA028	BRICA008	/
B0U20L2020K15	DDJNL 2020 K15	20	20	25	35	125	DN..1506..	BRICA005	BRICA006	BRICA028	BRICA008	/
B0U20L2525M15	DDJNL 2525 M15	25	25	32	36	150	DN..1506..	BRICA005	BRICA006	BRICA028	BRICA008	/

								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Screw	Wrench	Shim	Spring pin
B0U21R2020K15	PDJNR 2020 K15	20	20	25	35	125	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U21R2525M15	PDJNR 2525 M15	25	25	32	36	150	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U21L2020K15	PDJNL 2020 K15	20	20	25	35	125	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U21L2525M15	PDJNL 2525 M15	25	25	32	35	150	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - D SHAPE

KERFOLG

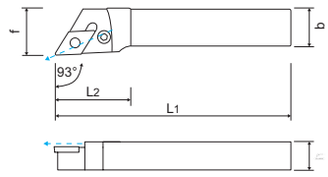
DN...

ITEM: B0U23

Material Steel
Clamping system P (lever)
Application Turnings, Facing and Chamfers

Connector 1/8" Gas included

PDJNR/L



								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Screw	Wrench	Support	Spring pin
B0U23L1616H11	PDJNL 1616 H11 IK G1/8	16	16	20	30	100	DN..1104..	BRICA250	BRICA253	BRICA256	BRICA245	BRICA255
B0U23L2020K15	PDJNL 2020 K15 IK G1/8	20	20	25	30	125	DN..1506..	BRICA251	BRICA252	BRICA256	BRICA246	BRICA254
B0U23L2525M15	PDJNL 2525 M15 IK G1/8	25	25	32	30	150	DN..1506..	BRICA251	BRICA252	BRICA256	BRICA246	BRICA254
B0U23R1616H11	PDJNR 1616 H11 IK G1/8	16	16	20	30	100	DN..1104..	BRICA250	BRICA253	BRICA256	BRICA245	BRICA255
B0U23R2020K15	PDJNR 2020 K15 IK G1/8	20	20	25	30	125	DN..1506..	BRICA251	BRICA252	BRICA256	BRICA246	BRICA254
B0U23R2525M15	PDJNR 2525 M15 IK G1/8	25	25	32	30	150	DN..1506..	BRICA251	BRICA252	BRICA256	BRICA246	BRICA254

INTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - D SHAPE

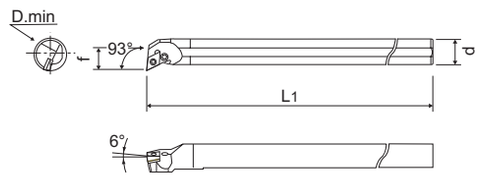
KERFOLG

DN...

ITEM: B0U25

Material Steel
Clamping system P (lever)
Application Turning and copying

A....PDUNR/L



							SPARE PARTS INCLUDED				
Tech. Code	Description	D min mm	d mm	f mm	L1 mm	Inserts	Lever	Screw	Wrench	Support	Spring pin
B0U25R2511	A25R PDUNR 11	32	25	17	200	DN..1104..	BRICA054	BRICA035	BRICA056	BRICA057	BRICA058
B0U25R3215	A32S PDUNR 15	40	32	22	250	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U25R4015	A40T PDUNR 15	50	40	27	300	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U25L2511	A25R PDUNL 11	32	25	17	200	DN..1104..	BRICA054	BRICA035	BRICA056	BRICA057	BRICA058
B0U25L3215	A32S PDUNL 15	40	32	22	250	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U25L4015	A40T PDUNL 15	50	40	27	300	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - S SHAPE

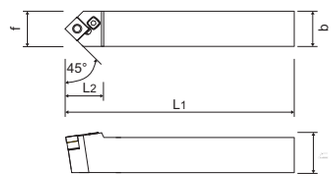
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SN...

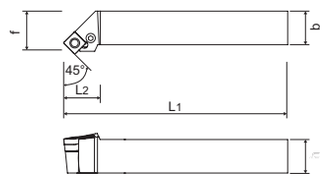
ITEM: B0U33

Material Steel
Clamping system P (lever)
Application Turnings, Facing and Chamfers

PSDNN



PSSNR/L



								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Screw	Wrench	Shim	Spring pin
B0U33N2020K12	PSDNN 2020 K12	20	20	10.3	28	125	SN..1204..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U33N2525M12	PSDNN 2525 M12	25	25	12.8	29	150	SN..1906..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U33N3232P19	PSDNN 3232 P19	32	32	16.5	40	170	SN..1906..	BRICA022	BRICA023	BRICA024	BRICA039	BRICA026

								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Screw	Wrench	Shim	Spring pin
B0U34R2020K12	PSSNR 2020 K12	20	20	25	29	125	SN..1204..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U34R2525M12	PSSNR 2525 M12	25	25	32	29	150	SN..1204..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U34L2020K12	PSSNL 2020 K12	20	20	25	29	125	SN..1204..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U34L2525M12	PSSNL 2525 M12	25	25	32	29	150	SN..1204..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U34R3232P19	PSSNR 3232 P19	32	32	40	41	170	SN..1906..	BRICA022	BRICA023	BRICA024	BRICA039	BRICA026
B0U34R4040S19	PSSNR 4040 S19	40	40	50	41	250	SN..1906..	BRICA022	BRICA023	BRICA024	BRICA039	BRICA026
B0U34L3232P19	PSSNL 3232 P19	32	32	40	41	170	SN..1906..	BRICA022	BRICA023	BRICA024	BRICA039	BRICA026
B0U34L4040S19	PSSNL 4040 S19	40	40	50	41	250	SN..1906..	BRICA022	BRICA023	BRICA024	BRICA039	BRICA026

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - S SHAPE

KERFOLG

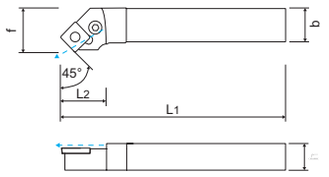
SN...

ITEM: B0U35

Material Steel
Clamping system P (lever)
Application Turnings, Facing and Chamfers

Connector 1/8" Gas included

PSSNR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Support	Spring pin
B0U35L2020K12	PSSNL 2020 K12 IK G1/8	20	20	25	29.4	125	SN..1204..	BRICA249	BRICA252	BRICA256	BRICA247	BRICA254
B0U35L2525M12	PSSNL 2525 M12 IK G1/8	25	25	32	29.3	150	SN..1204..	BRICA249	BRICA252	BRICA256	BRICA247	BRICA254
B0U35R2020K12	PSSNR 2020 K12 IK G1/8	20	20	25	29.4	125	SN..1204..	BRICA249	BRICA252	BRICA256	BRICA247	BRICA254

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - T SHAPE

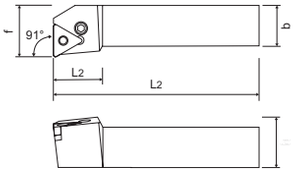
KERFOLG

TN...

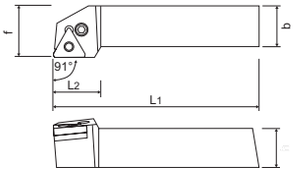
ITEM: B0U40

Material Steel
Clamping system P (lever)
Application Turning and facing

PTFNR/L



PTGNR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Shim	Spring pin
B0U40R2020K16	PTFNR 2020 K16	20	20	25	20	125	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U40R2525M16	PTFNR 2525 M16	25	25	32	22	150	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U40L2020K16	PTFNL 2020 K16	20	20	25	20	125	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U40L2525M16	PTFNL 2525 M16	25	25	32	22	150	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037

Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Shim	Spring pin
B0U41R2020K16	PTGNR 2020 K16	20	20	25	20	125	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U41R2525M16	PTGNR 2525 M16	25	25	32	20	150	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U41L2020K16	PTGNL 2020 K16	20	20	25	20	125	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U41L2525M16	PTGNL 2525 M16	25	25	32	20	150	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U41R2525M22	PTGNR 2525 M22	25	25	32	29	150	TN..2204..	BRICA013	BRICA027	BRICA014	BRICA033	BRICA017
B0U41R3225P22	PTGNR 3225 P22	25	32	40	29	170	TN..2204..	BRICA013	BRICA027	BRICA014	BRICA033	BRICA017
B0U41L2525M22	PTGNL 2525 M22	25	25	32	29	150	TN..2204..	BRICA013	BRICA027	BRICA014	BRICA033	BRICA017
B0U41L3225P22	PTGNL 3225 P22	25	32	40	29	170	TN..2204..	BRICA013	BRICA027	BRICA014	BRICA033	BRICA017

INTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - T SHAPE

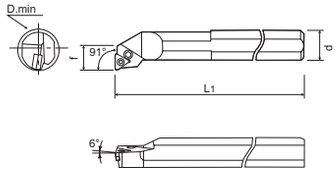
KERFOLG

TN...

ITEM: B0U45

Material Steel
Clamping system P (lever)
Application Internal turning

A....PTFNR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Shim	Spring pin
B0U45R2516	A25R PTFNR 16	32	25	17	200	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U45R3216	A32S PTFNR 16	40	32	22	250	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U45L2516	A25R PTFNL 16	32	25	17	200	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U45L3216	A32S PTFNL 16	40	32	22	250	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - W SHAPE

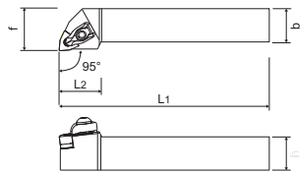
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WN...

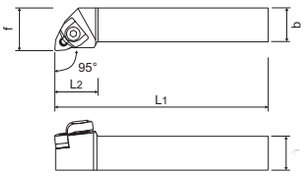
ITEM: B0U50

Material Steel
Clamping system D - M (Clamp - Clamp and Pin)

DWLNR/L



MWLNR/L



								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Clamp	Wrench	Shim	Support screw	Dowel
B0U50R2020K08	DWLNR 2020 K08	20	20	25	125	30	WN..0804..	BRICA005	BRICA006	BRICA062	BRICA008	/
B0U50R2525M08	DWLNR 2525 M08	25	25	32	150	33	WN..0804..	BRICA005	BRICA006	BRICA062	BRICA008	/
B0U50L2020K08	DWLNL 2020 K08	20	20	25	125	30	WN..0804..	BRICA005	BRICA006	BRICA062	BRICA008	/
B0U50L2525M08	DWLNL 2525 M08	25	25	32	150	33	WN..0804..	BRICA005	BRICA006	BRICA062	BRICA008	/

								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Clamp	Wrench	Shim	Pin	Dowel
B0U51R2020K08	MWLNR 2020 K08	20	20	25	28	125	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA081	BRICA091
B0U51R2525M08	MWLNR 2525 M08	25	25	32	31	150	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA081	BRICA091
B0U51L2020K08	MWLNL 2020 K08	20	20	25	28	125	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA081	BRICA091
B0U51L2525M08	MWLNL 2525 M08	25	25	32	31	150	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA081	BRICA091

EXTERNAL TURNING TOOLHOLDERS FOR NEGATIVE INSERTS - V SHAPE

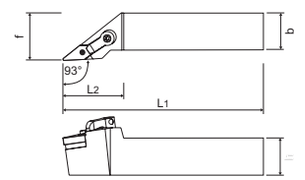
KERFOLG

VN...

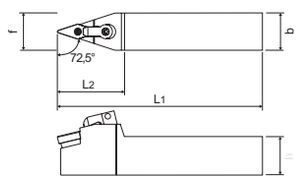
ITEM: B0U47

Material Steel
Clamping system M (Clamp and lever)
Application Turning and profiling

MVJNR/L



MVVNN



								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Lever screw	Wrench	Shim	Support screw
B0U47L2016	MVJNL 2020 K16	20	20	25	32	125	VN...1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096
B0U47R2016	MVJNR 2020 K16	20	20	25	32	125	VN...1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096
B0U47R2516	MVJNR 2525 K16	25	25	32	32	150	VN...1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096

								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Lever screw	Wrench	Shim	Support screw
B0U48N2016	MVVNN 2020 K16	20	20	10	45	125	VN..1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096
B0U48N2516	MVVNN 2525 M16	25	25	12,5	45	150	VN..1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - W SHAPE

KERFOLG

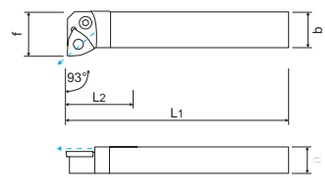
WN...

ITEM: B0U49

Material Steel
Clamping system P (lever)
Application Turnings, Facing and Chamfers

Connector 1/8" Gas included

PWLNR/L



								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Screw	Wrench	Support	Spring pin
B0U49L2020K08	PWLNL 2020 K08 IK G1/8	20	20	25	29.4	125	WN..0804..	BRICA249	BRICA252	BRICA256	BRICA248	BRICA254
B0U49L2525M08	PWLNL 2525 M08 IK G1/8	25	25	32	29.3	150	WN..0804..	BRICA249	BRICA252	BRICA256	BRICA248	BRICA254
B0U49R2020K08	PWLNR 2020 K08 IK G1/8	20	20	25	29.4	125	WN..0804..	BRICA249	BRICA252	BRICA256	BRICA248	BRICA254
B0U49R2525M08	PWLNR 2525 M08 IK G1/8	25	25	32	29.3	150	WN..0804..	BRICA249	BRICA252	BRICA256	BRICA248	BRICA254

INTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - W SHAPE

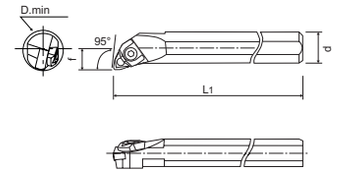
KERFOLG

WN...

ITEM: B0U55

Material Steel
Clamping system M (Clamp and Pin)
Application Internal turning

A....MWLNR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	Inserts	SPARE PARTS INCLUDED Clamp	Wrench	Shim	Pin	Pin screw
B0U55R2508	A25R MWLNR 08	32	25	17	200	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092
B0U55R3208	A32S MWLNR 08	40	32	22	250	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092
B0U55R4008	A40T MWLNR 08	50	40	27	300	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092
B0U55L2508	A25R MWLNL 08	32	25	17	200	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092
B0U55L3208	A32S MWLNL 08	40	32	22	250	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092
B0U55L4008	A40T MWLNL 08	50	40	27	300	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - C SHAPE

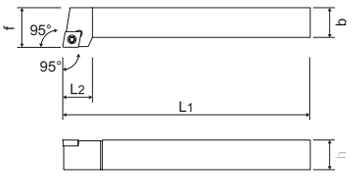
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CC...

ITEM: B1U10

Material Steel
Clamping system S (Screw)
Application Turning and facing

SCLCR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver	Shim	Shim screw
B1U10R0808D06	SCLCR 0808 D06	8	8	10	9	60	CC...0602	BRICA136	BRICA002	/	/
B1U10L0808D06	SCLCL 0808 D06	8	8	10	9	60	CC...0602	BRICA136	BRICA002	/	/
B1U10R1010E06	SCLCR 1010 E06	10	10	12	10	70	CC...0602	BRICA136	BRICA002	/	/
B1U10L1010E06	SCLCL 1010 E06	10	10	12	10	70	CC...0602	BRICA136	BRICA002	/	/
B1U10R1212F09	SCLCR 1212 F09	12	12	16	17	80	CC..09T3..	BRICA137	BRICA141	/	/
B1U10R1616H09	SCLCR 1616 H09	16	16	20	17	100	CC..09T3..	BRICA137	BRICA141	BRICA143	BRICA145
B1U10R2020K09	SCLCR 2020 K09	20	20	25	18	125	CC..09T3..	BRICA137	BRICA141	BRICA143	BRICA145
B1U10L1212F09	SCLCL 1212 F09	12	12	16	17	80	CC..09T3..	BRICA137	BRICA141	/	/
B1U10L1616H09	SCLCL 1616 H09	16	16	20	17	100	CC..09T3..	BRICA137	BRICA141	BRICA143	BRICA145
B1U10L2020K09	SCLCL 2020 K09	20	20	25	18	125	CC..09T3..	BRICA137	BRICA141	BRICA143	BRICA145
B1U10L2020K12	SCLCL 2020 K12	20	20	25	20	125	CC..1204..	BRICA138	BRICA141	BRICA144	BRICA146
B1U10R2525M12	SCLCR 2525 M12	25	25	32	20	150	CC..1204..	BRICA138	BRICA141	BRICA144	BRICA146
B1U10R2020K12	SCLCR 2020 K12	20	20	25	20	125	CC..1204..	BRICA138	BRICA141	BRICA144	BRICA146
B1U10L2525M12	SCLCL 2525 M12	25	25	32	20	150	CC..1204..	BRICA138	BRICA141	BRICA144	BRICA146

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - C SHAPE

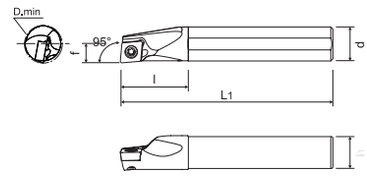
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CC...

ITEM: B1U15

Material Steel
Clamping system S (Screw)
Application Internal turning

A...SCLCR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED			
								Insert screw	Screwdriver	Shim	Shim screw
B1U15R0806	A08H SCLCR 06	10	8	6	100	17,8	CC..0602..	BRICA147	BRICA002	/	/
B1U15L0806	A08H SCLCL 06	10	8	6	100	17,8	CC..0602..	BRICA147	BRICA002	/	/
B1U15R1006	A10K SCLCR 06	12	10	7	125	17,7	CC..0602..	BRICA147	BRICA002	/	/
B1U15L1006	A10K SCLCL 06	12	10	7	125	17,7	CC..0602..	BRICA147	BRICA002	/	/
B1U15R1206	A12L SCLCR 06	16	12	9	140	24,2	CC..0602..	BRICA147	BRICA002	/	/
B1U15L1206	A12L SCLCL 06	16	12	9	140	24,2	CC..0602..	BRICA147	BRICA002	/	/
B1U15R1609	A16Q SCLCR 09	20	16	11	180	26,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15L1609	A16Q SCLCL 09	20	16	11	180	26,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15R2009	A20R SCLCR 09	25	20	13	200	36,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15L2009	A20R SCLCL 09	25	20	13	200	36,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15R2512	A25R SCLCR 12	32	25	17	200	40	CC..1204..	BRICA032	BRICA135	/	/
B1U15L2512	A25R SCLCL 12	32	25	17	200	40	CC..1204..	BRICA032	BRICA135	/	/
B1U15R3212	A32S SCLCR 12	40	32	22	250	30	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U15L3212	A32S SCLCL 12	40	32	22	250	30	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U15R4012	A40T SCLCR 12	49	40	27	300	31	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U15L4012	A40T SCLCL 12	49	40	27	300	31	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146

INTERNAL TURNING TOOLHOLDERS FOR POSITIVE INSERTS - C SHAPE

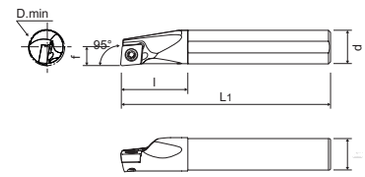
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CC...

ITEM: B1U13

Materiale Carbide
Clamping system S (Screw)
Application Internal turning

E...SCLCR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED	
								Insert screw	Screwdriver
B1U13R0603	E06J SCLCR 03	7	6	3,5	110	10	CC...0301...	BRICA236	BRICA151
B1U13L0603	E06J SCLCL 03	7	6	3,5	110	10	CC...0301...	BRICA236	BRICA151
B1U13R0806	E08K SCLCR 06	10	8	5	125	10	CC...0602...	BRICA147	BRICA002
B1U13L0806	E08K SCLCL 06	10	8	5	125	10	CC...0602...	BRICA147	BRICA002
B1U13R1006	E10K SCLCR 06	12	10	6	125	10	CC...0602...	BRICA147	BRICA002
B1U13L1006	E10K SCLCL 06	12	10	6	125	10	CC...0602...	BRICA147	BRICA002
B1U13R1206	E12M SCLCR 06	14	12	8	150	10	CC...0602...	BRICA147	BRICA002
B1U13L1206	E12M SCLCL 06	14	12	8	150	10	CC...0602...	BRICA147	BRICA002
B1U13R1609	E16R SCLCR 09	18	16	10	200	16	CC...09T3...	BRICA148	BRICA002
B1U13L1609	E16R SCLCL 09	18	16	10	200	16	CC...09T3...	BRICA148	BRICA002
B1U13R2009	E20S SCLCR 09	23	20	12	250	16	CC...09T3...	BRICA148	BRICA002
B1U13L2009	E20S SCLCL 09	23	20	12	250	16	CC...09T3...	BRICA148	BRICA002
B1U13R2512	E25S SCLCR 12	30	25	15	250	16	CC...1204...	BRICA032	BRICA135
B1U13L2512	E25S SCLCL 12	30	25	15	250	16	CC...1204...	BRICA032	BRICA135

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - C SHAPE

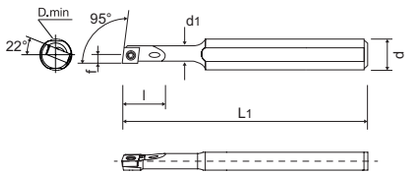
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CC...

ITEM: B1U11

Material Steel
Clamping system S (Screw)
Application Internal turning

A...SCLCR/L



Tech. Code	Description	D min. mm	d mm	d1 mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U11L060806	A 0608H SCLCL 06	8	8	6	4	100	21,5	CC..0602..	BRICA147	BRICA002
B1U11L081006	A 0810J SCLCL 06	11	10	8	6	110	27	CC..0602..	BRICA147	BRICA002
B1U11L101206	A 1012K SCLCL 06	13	12	10	7	125	32,5	CC..0602..	BRICA147	BRICA002
B1U11L121606	A 1216M SCLCL 06	16	16	12	9	150	42	CC..0602..	BRICA147	BRICA002
B1U11R060806	A 0608H SCLCR 06	8	8	6	4	100	21,5	CC..0602..	BRICA147	BRICA002
B1U11R081006	A 0810J SCLCR 06	11	10	8	6	110	27	CC..0602..	BRICA147	BRICA002
B1U11R101206	A 1012K SCLCR 06	13	12	10	7	125	32,5	CC..0602..	BRICA147	BRICA002
B1U11R121606	A 1216M SCLCR 06	16	16	12	9	150	42	CC..0602..	BRICA147	BRICA002

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - C SHAPE

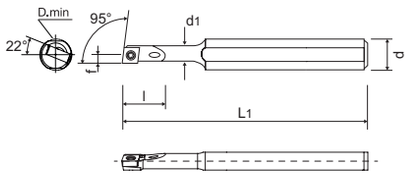
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CC...

ITEM: B1U14

Material High speed steel
Clamping system S (Screw)
Application Internal turning

AH...SCLCR/L



Tech. Code	Description	Dmin. mm	d mm	d1 mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U14R060806	AH 0608H SCLCR 06	8	8	6	4	100	25	CC..0602..	BRICA147	BRICA002
B1U14R081006	AH 0810J SCLCR 06	12	10	8	6	110	32	CC..0602..	BRICA147	BRICA002
B1U14R101206	AH 1012K SCLCR 06	14	12	10	7	125	38	CC..0602..	BRICA147	BRICA002
B1U14R121606	AH 1216M SCLCR 06	18	16	12	9	150	50	CC..0602..	BRICA147	BRICA002
B1U14L060806	AH 0608H SCLCL 06	8	8	6	4	100	25	CC..0602..	BRICA147	BRICA002
B1U14L081006	AH 0810J SCLCL 06	12	10	8	6	110	32	CC..0602..	BRICA147	BRICA002
B1U14L101206	AH 1012K SCLCL 06	14	12	10	7	125	38	CC..0602..	BRICA147	BRICA002
B1U14L121606	AH 1216M SCLCL 06	18	16	12	9	150	50	CC..0602..	BRICA147	BRICA002

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - C SHAPE

KERFOLG

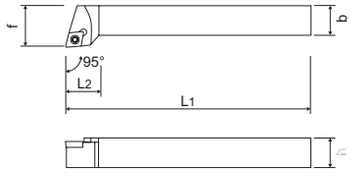
CC...

ITEM: B1U12

Material Steel
Clamping system S (Screw)
Application External Turning and Facing

Connector 1/8" Gas included

SCLCR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver	Support	Support screw
B1U12L1616H09	SCLCL 1616 H09 IK G1/8	16	16	20	17	100	CC..09T3..	BRICA137	BRICA004	BRICA143	BRICA145
B1U12L2020K09	SCLCL 2020 K09 IK G1/8	20	20	25	17	125	CC..09T3..	BRICA137	BRICA004	BRICA143	BRICA145
B1U12L2525M12	SCLCL 2525 M12 IK G1/8	25	25	32	20	150	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U12R1616H09	SCLCR 1616 H09 IK G1/8	16	16	20	17	100	CC..09T3..	BRICA137	BRICA004	BRICA143	BRICA145
B1U12R2020K09	SCLCR 2020 K09 IK G1/8	20	20	25	17	125	CC..09T3..	BRICA137	BRICA004	BRICA143	BRICA145
B1U12R2525M12	SCLCR 2525 M12 IK G1/8	25	25	32	20	150	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - D SHAPE

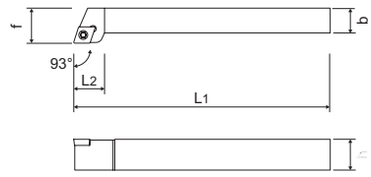
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DC...

ITEM: B1U20

Material Steel
Clamping system S (Screw)
Application Turning and copying

SDJCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U20R0808D07	SDJCR 0808 D07	8	8	10	12,8	60	DC..0702..	BRICA136	BRICA004	/	/
B1U20L0808D07	SDJCL 0808 D07	8	8	10	12,8	60	DC..0702..	BRICA136	BRICA004	/	/
B1U20R1010E07	SDJCR 1010 E07	10	10	12	12,8	70	DC..0702..	BRICA136	BRICA004	/	/
B1U20R1212F07	SDJCR 1212 F07	12	12	16	17	80	DC..0702..	BRICA136	BRICA004	/	/
B1U20L1010E07	SDJCL 1010 E07	10	10	12	12,8	70	DC..0702..	BRICA136	BRICA004	/	/
B1U20L1212F07	SDJCL 1212 F07	12	12	16	17	80	DC..0702..	BRICA136	BRICA004	/	/
B1U20R1616H11	SDJCR 1616 H11	16	16	20	20	100	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049
B1U20R2020K11	SDJCR 2020 K11	20	20	25	20,5	125	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049
B1U20R2525M11	SDJCR 2525 M11	25	25	32	21,5	150	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049
B1U20L1616H11	SDJCL 1616 H11	16	16	20	20	100	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049
B1U20L2020K11	SDJCL 2020 K11	20	20	25	20,5	125	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049
B1U20L2525M11	SDJCL 2525 M11	25	25	32	21,5	150	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - D SHAPE

KERFOLG

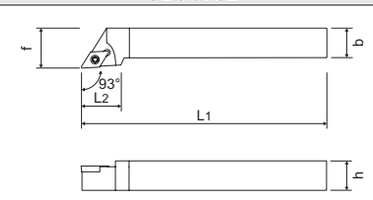
DC...

ITEM: B1U22

Material Steel
Clamping system S (Screw)
Application Turning and copying

Connector 1/8" Gas included

SDJCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Support	Support screw
B1U22L1616H11	SDJCL 1616 H11 IK G1/8	16	16	20	20	100	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U22L2020K11	SDJCL 2020 K11 IK G1/8	20	20	25	24	125	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U22L2525M11	SDJCL 2525 M11 IK G1/8	25	25	32	27	150	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U22R1616H11	SDJCR 1616 H11 IK G1/8	16	16	20	20	100	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U22R2020K11	SDJCR 2020 K11 IK G1/8	20	20	25	24	125	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U22R2525M11	SDJCR 2525 M11 IK G1/8	25	25	32	27	150	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - D SHAPE

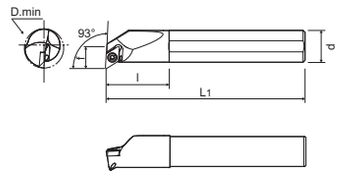
KERFOLG

DC...

ITEM: B1U25

Material Steel
Clamping system S (Screw)
Application Internal turning

A...SDUCR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver	Shim	Shim screw
B1U25R1007	A10K SDUCR 07	13,5	10	7	125	15	DC..0702..	BRICA147	BRICA002	/	/
B1U25R1207	A12L SDUCR 07	16	12	9	140	20	DC..0702..	BRICA147	BRICA002	/	/
B1U25R1607	A16Q SDUCR 07	20	16	11	180	27	DC..0702..	BRICA147	BRICA002	/	/
B1U25R2011	A20R SDUCR 11	25	20	13	200	33,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25R2511	A25R SDUCR 11	32	25	17	200	35,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25R3211	A32S SDUCR11	40	32	22	250	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U25R4011	A40T SDUCR 11	49	40	27	300	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U25L1007	A10K SDUCL 07	13,5	10	7	125	15	DC..0702..	BRICA147	BRICA002	/	/
B1U25L1207	A12L SDUCL 07	16	12	9	140	20	DC..0702..	BRICA147	BRICA002	/	/
B1U25L1607	A16Q SDUCL 07	20	16	11	180	27	DC..0702..	BRICA147	BRICA002	/	/
B1U25L2011	A20R SDUCL 11	25	20	13	200	33,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25L2511	A25R SDUCL 11	32	25	17	200	35,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25L3211	A32S SDUCL 11	40	32	22	250	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U25L4011	A40T SDUCL 11	49	40	27	300	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - D SHAPE

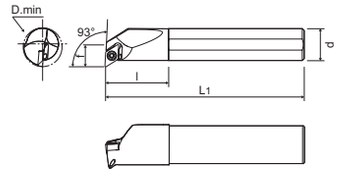
KERFOLG

DC...

ITEM: B1U23

Material Carbide
Clamping system S (Screw)
Application Internal turning

E...SDUCR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U23R0807	E08K SDUCR 07	12.5	8	7.5	125	10	DC..0702..	BRICA147	BRICA002
B1U23R1007	E10K SDUCR 07	13.5	10	7.5	125	10	DC..0702..	BRICA147	BRICA002
B1U23R1207	E12M SDUCR 07	15	12	9	150	12.5	DC..0702..	BRICA147	BRICA002
B1U23R1607	E16R SDUCR 07	19	16	11	200	16.5	DC..0702..	BRICA147	BRICA002
B1U23R2011	E20S SDUCR 11	23.5	20	14	250	20.5	DC...11T3..	BRICA148	BRICA004
B1U23R2511	E25S SDUCR 11	32	25	16	250	26	DC...11T3..	BRICA148	BRICA004
B1U23L0807	E08K SDUCL 07	12.5	8	7.5	125	10	DC..0702..	BRICA147	BRICA002
B1U23L1007	E10K SDUCL 07	13.5	10	7.5	125	10	DC..0702..	BRICA147	BRICA002
B1U23L1207	E12M SDUCL 07	15	12	9	150	12.5	DC..0702..	BRICA147	BRICA002
B1U23L1607	E16R SDUCL 07	19	16	11	200	16.5	DC..0702..	BRICA147	BRICA002
B1U23L2011	E20S SDUCL 11	23.5	20	14	250	20.5	DC...11T3..	BRICA148	BRICA004
B1U23L2511	E25S SDUCL 11	32	25	16	250	26	DC...11T3..	BRICA148	BRICA004

INTERNAL TURNING TOOLHOLDERS FOR POSITIVE INSERTS - D SHAPE

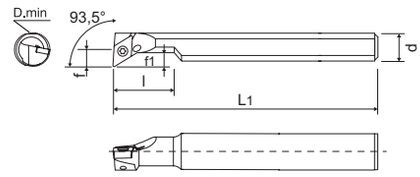
KERFOLG

DC...

ITEM: B1U21

Material steel
Clamping system S (Screw)
Application Internal turning

A...SDUCR/L



Tech. Code	Description	D min. mm	d mm	f1 mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U21R081007	A0810H SDUCR 07	12,5	10	4,4	6,5	100	22,5	DC...0702...	BRICA147	BRICA002
B1U21L081007	A0810H SDUCL 07	12,5	10	4,4	6,5	100	22,5	DC...0702...	BRICA147	BRICA002
B1U21R101207	A1012K SDUCR 07	15,5	12	5,9	9	125	27,5	DC...0702...	BRICA147	BRICA002
B1U21L101207	A1012K SDUCL 07	15,5	12	5,9	9	125	27,5	DC...0702...	BRICA147	BRICA002
B1U21L121607	A1216M SDUCL 07	18	16	4,9	11	150	40,5	DC...0702...	BRICA147	BRICA002
B1U21R121607	A1216M SDUCR 07	18	16	4,9	11	150	40,5	DC...0702...	BRICA147	BRICA002

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - K SHAPE

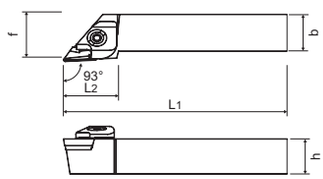
KERFOLG

KN...

ITEM: B1U55

Material Steel
Clamping system C (Clamp)
Application External Turning

CKJNR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Clamp	Shim	Spring pin	Shim/clamp screw
B1U55L2020K16	CKJNL 2020 K16	20	20	30	34	125	KN..X1604..	BRICA177	BRICA178	BRICA180	BRICA181
B1U55L2525M16	CKJNL 2525 M16	25	25	32	34	150	KN..X1604..	BRICA177	BRICA178	BRICA180	BRICA181
B1U55L3232P16	CKJNL 3232 P16	32	32	40	34	170	KN..X1604..	BRICA177	BRICA178	BRICA180	BRICA181
B1U55R2020K16	CKJNR 2020 M16	20	20	30	34	125	KN..X1604..	BRICA176	BRICA179	BRICA180	BRICA181
B1U55R2525M16	CKJNR 2525 M16	25	25	32	34	150	KN..X1604..	BRICA176	BRICA179	BRICA180	BRICA181
B1U55R3232P16	CKJNR 3232 P16	32	32	40	34	170	KN..X1604..	BRICA176	BRICA179	BRICA180	BRICA181

EXTERNAL TURNING TOOL HOLDERS FOR POSITIVE INSERTS - R SHAPE

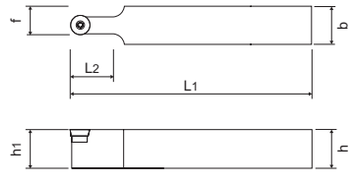
KERFOLG

RC...

ITEM: B1U58

Material Steel
Clamping system S (Screw)
Application Turning and copying

SRDCN



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver	Clamp
B1U58N2020K08	SRDCN 2020 K08	20	20	14,0	16,4	125	RC..0803MO	BRICA237	BRICA002	/
B1U58N2525M08	SRDCN 2525 M08	25	25	16,5	16,4	150	RC..0803MO	BRICA237	BRICA002	/
B1U58N2020K10	SRDCN 2020 K10	20	20	15,0	20,3	125	RC..1003MO	BRICA010	BRICA004	BRICA145
B1U58N2525M10	SRDCN 2525 M10	25	25	17,5	20,3	150	RC..1003MO	BRICA010	BRICA004	BRICA145
B1U58N2020K12	SRDCN 2020 K12	20	20	16,0	20,3	125	RC..1204MO	BRICA010	BRICA004	BRICA145
B1U58N2525M12	SRDCN 2525 M12	25	25	18,5	20,3	150	RC..1204MO	BRICA010	BRICA004	BRICA145

EXTERNAL TURNING TOOLHOLDERS FOR POSITIVE INSERTS - R SHAPE

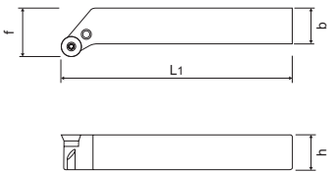
KERFOLG

RC...

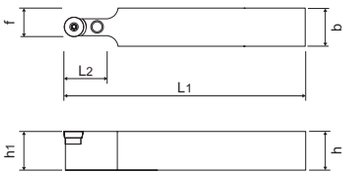
ITEM: B1U60 - B1U62

Material Steel
Clamping system P (lever)
Application External turning

PRGCR/L



PRDCN



							SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L1 mm	Inserts	Clamp	Shim	Spring pin	Clamp screw
B1U60R3225P16	PRGCR 3225 P16	25	32	32	170	RC...1606MO	BRICA040	BRICA044	BRICA046	BRICA048
B1U60L3225P16	PRGCL 3225 P16	25	32	32	170	RC...1606MO	BRICA040	BRICA044	BRICA046	BRICA048
B1U60R3232P20	PRGCR 3232 P20	32	32	40	170	RC...2006MO	BRICA042	BRICA045	BRICA021	BRICA050
B1U60L3232P20	PRGCL 3232 P20	32	32	40	170	RC...2006MO	BRICA042	BRICA045	BRICA021	BRICA050

								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L1 mm	L2 mm	Inserts	Clamp	Shim	Spring pin	Clamp screw
B1U62N3225P16	PRDCN 3225 P16	32	25	20,4	170	34	RC...1606MO...	BRICA040	BRICA044	BRICA046	BRICA049
B1U62N3232P20	PRDCN 3232 P20	32	32	25,9	170	40	RC...2006MO...	BRICA042	BRICA045	BRICA021	BRICA050

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - S SHAPE

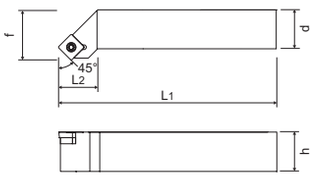
KERFOLG

SC...

ITEM: B1U38

Material Steel
Clamping system S (Screw)
Application Turning and chamfering

SSSCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U38L1616H12	SSSCL 1616 H12	16	16	20	26	100	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U38L2020K12	SSSCL 2020 K12	20	20	25	26,7	125	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U38L2525M12	SSSCL 2525 M12	25	25	32	25	150	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U38R1616H12	SSSCR 1616 H12	16	16	20	26	100	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U38R2020K12	SSSCR 2020 K12	20	20	25	26,7	125	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U38R2525M12	SSSCR 2525 M12	25	25	32	25	150	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - S SHAPE

KERFOLG

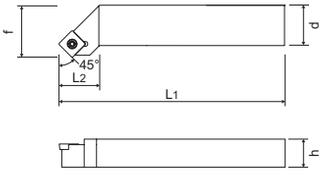
SC...

ITEM: B1U45

Material Steel
Clamping system Screw
Application External Turnings, Facing and Chamfers

Connector 1/8" G included

SSSCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Support	Support screw
B1U45L1616H09	SSSCL 1616 H09 IK G1/8	16	16	20	20	100	SC..09T3..	BRICA137	BRICA004	BRICA257	BRICA145
B1U45L2020K09	SSSCL 2020 K09 IK G1/8	20	20	25	20	125	SC..09T3..	BRICA137	BRICA004	BRICA257	BRICA145
B1U45L2525M12	SSSCL 2525 M12 IK G1/8	25	25	32	25	150	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U45R1616H09	SSSCR 1616 H09 IK G1/8	16	16	20	20	100	SC..09T3..	BRICA137	BRICA004	BRICA257	BRICA145
B1U45R2020K09	SSSCR 2020 K09 IK G1/8	20	20	25	20	125	SC..09T3..	BRICA137	BRICA004	BRICA257	BRICA145
B1U45R2525M12	SSSCR 2525 M12 IK G1/8	25	25	32	25	150	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - T SHAPE

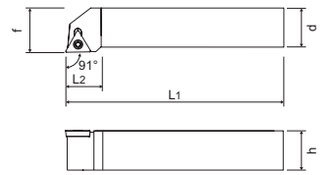
KERFOLG

TC...

ITEM: B1U31

Material Steel
Clamping system S (Screw)
Application Turning and facing

STGCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U31R1616H16	STGCR 1616 H16	16	16	20	22	100	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145
B1U31R2020K16	STGCR 2020 K16	20	20	25	22	125	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145
B1U31R2525M16	STGCR 2525 M16	25	25	32	23	150	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145
B1U31L1616H16	STGCL 1616 H16	16	16	20	22	100	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145
B1U31L2020K16	STGCL 2020 K16	20	20	25	22	125	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145
B1U31L2525M16	STGCL 2525 M16	25	25	32	23	150	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - T SHAPE

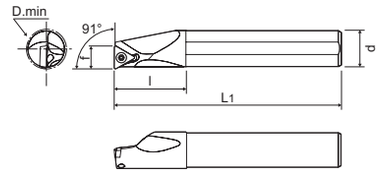
KERFOLG

TC...

ITEM: B1U35

Material Steel
Clamping system S (Screw)
Application Internal turning

A...STFCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U35R1011	A10K STFCR 11	13	10	7	125	22,8	TC..1102..	BRICA147	BRICA002	/	/
B1U35R1211	A12L STFCR 11	16	12	9	140	26,5	TC..1102..	BRICA147	BRICA002	/	/
B1U35R1611	A16Q STFCR 11	20	16	11	180	26,7	TC..1102..	BRICA147	BRICA002	/	/
B1U35R2016	A20R STFCR 16	25	20	13	200	36,6	TC..16T3..	BRICA148	BRICA004	/	/
B1U35R2516	A25R STFCR 16	32	25	17	200	41	TC..16T3..	BRICA148	BRICA004	/	/
B1U35R3216	A32S STFCR 16	40	32	22	250	34,6	TC..16T3..	BRICA137	BRICA004	BRICA153	BRICA145
B1U35R4016	A40T STFCR 16	49	40	27	300	37,5	TC..16T3..	BRICA137	BRICA004	BRICA153	BRICA145
B1U35L1011	A10K STFCL 11	13	10	7	125	22,8	TC..1102..	BRICA147	BRICA002	/	/
B1U35L1211	A12L STFCL 11	16	12	9	140	26,5	TC..1102..	BRICA147	BRICA002	/	/
B1U35L1611	A16Q STFCL 11	20	16	11	180	26,7	TC..1102..	BRICA147	BRICA002	/	/
B1U35L2016	A20R STFCL 16	25	20	13	200	36,6	TC..16T3..	BRICA148	BRICA004	/	/
B1U35L2516	A25R STFCL 16	32	25	17	200	41	TC..16T3..	BRICA148	BRICA004	/	/
B1U35L3216	A32S STFCL 16	40	32	22	250	34,6	TC..16T3..	BRICA137	BRICA004	BRICA153	BRICA145
B1U35L4016	A40T STFCL 16	49	40	27	300	37,5	TC..16T3..	BRICA137	BRICA004	BRICA153	BRICA145

INTERNAL TURNING TOOLHOLDERS FOR POSITIVE INSERTS - T SHAPE

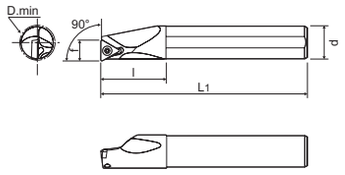
KERFOLG

TC...

ITEM: B1U33

Materiale Carbide
Clamping system S (Screw)
Application Internal turning

E...STFCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	D min. mm	d mm	f mm	L1 mm	l mm	Inserts	Insert screw	Screwdriver	Shim	Support screw
B1U33R1011	E10K STFCR 11	12	10	6	125	16	TC..1102..	BRICA147	BRICA002	/	/
B1U33L1011	E10K STFCL 11	12	10	6	125	16	TC..1102..	BRICA147	BRICA002	/	/
B1U33R1211	E12M STFCR 11	15	12	8	150	20	TC..1102..	BRICA147	BRICA002	/	/
B1U33L1211	E12M STFCL 11	15	12	8	150	20	TC..1102..	BRICA147	BRICA002	/	/
B1U33R1611	E16R STFCR 11	19	16	9,5	200	25	TC..1102..	BRICA147	BRICA002	/	/
B1U33L1611	E16R STFCL 11	19	16	9,5	200	25	TC..1102..	BRICA147	BRICA002	/	/
B1U33R2016	E20S STFCR 16	24	20	12	250	32	TC..16T3..	BRICA148	BRICA004	/	/
B1U33L2016	E20S STFCL 16	24	20	12	250	32	TC..16T3..	BRICA148	BRICA004	/	/
B1U33R2516	E25S STFCR 16	27	25	13,5	250	40	TC..16T3..	BRICA148	BRICA004	/	/
B1U33L2516	E25S STFCL 16	27	25	13,5	250	40	TC..16T3..	BRICA148	BRICA004	/	/

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - V SHAPE

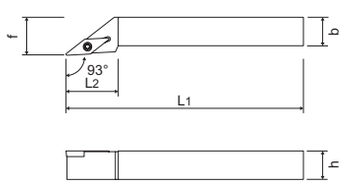
KERFOLG

VB...

ITEM: B1U50

Material Steel
Clamping system S (Screw)
Application Turning and copying

SVJBR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U50L2020K16	SVJBL 2020 K16	20	20	25	29,5	125	VB..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U50L2525M16	SVJBL 2525 K16	25	25	32	33	150	VB..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U50R2020K16	SVJBR 2020 K16	20	20	25	29,5	125	VB..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U50R2525M16	SVJBR 2525 M16	25	25	32	33	150	VB..1604..	BRICA137	BRICA004	BRICA154	BRICA145

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - V SHAPE

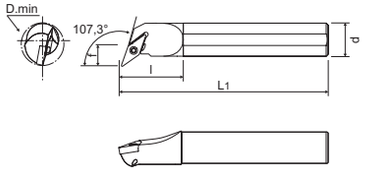
KERFOLG

VB...

ITEM: B1U53

Material Steel
Clamping system S (Screw)
Application Internal Turning and facing

A...SVQBR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U53R2516	A25R SVQBR 16	32	25	17	200	40	VB..1604..	BRICA148	BRICA004	/	/
B1U53L2516	A25R SVQBL 16	32	25	17	200	40	VB..1604..	BRICA148	BRICA004	/	/

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - V SHAPE

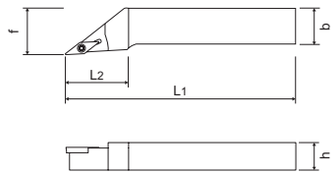
KERFOLG

VC...

ITEM: B1U41

Material Steel
Clamping system S (Screw)
Application External turning

SVJCR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver	Shim	Shim screw
B1U41R1212F11	SVJCR 1212 F11	12	12	16	21,5	80	VC..1103..	BRICA136	BRICA002	/	/
B1U41L1212F11	SVJCL 1212 F11	12	12	16	21,5	80	VC..1103..	BRICA136	BRICA002	/	/
B1U41R1616H11	SVJCR 1616 H11	16	16	20	21,5	100	VC..1103..	BRICA136	BRICA002	/	/
B1U41L1616H11	SVJCL 1616 H11	16	16	20	21,5	100	VC..1103..	BRICA136	BRICA002	/	/
B1U41R2020K11	SVJCR 2020 K11	20	20	25	24	125	VC..1103..	BRICA136	BRICA002	/	/
B1U41L2020K11	SVJCL 2020 K11	20	20	25	24	125	VC..1103..	BRICA136	BRICA002	/	/
B1U41R2525M11	SVJCR 2525 M11	25	25	32	26	150	VC..1103..	BRICA136	BRICA002	/	/
B1U41L2525M11	SVJCL 2525 M11	25	25	32	26	150	VC..1103..	BRICA136	BRICA002	/	/
B1U41R2020K16	SVJCR 2020 K16	20	20	25	29.5	125	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U41L2020K16	SVJCL 2020 K16	20	20	25	29.5	125	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U41R2525M16	SVJCR 2525 M16	25	25	32	32.5	150	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U41L2525M16	SVJCL 2525 M16	25	25	32	32.5	150	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145

INTERNAL TURNING TOOLHOLDERS FOR POSITIVE INSERTS - V SHAPE

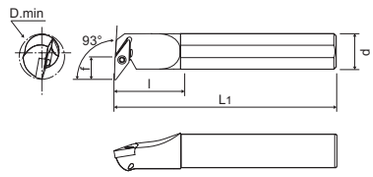
KERFOLG

VC...

ITEM: B1U44

Material Carbide
Clamping system S (Screw)
Application Internal turning and copying

E...SVUCR/L



Tech. Code	Description	D min. mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U44R1611	E16R SVUCR 11	21	16	11	200	16,5	VC..1103..	BRICA147	BRICA002
B1U44L1611	E16R SVUCL 11	21	16	11	200	16,5	VC..1103..	BRICA147	BRICA002
B1U44R2011	E20S SVUCR 11	25	20	13	250	20,5	VC..1103..	BRICA147	BRICA002
B1U44L2011	E20S SVUCL 11	25	20	13	250	20,5	VC..1103..	BRICA147	BRICA002
B1U44R2511	E25S SVUCR 11	31,5	25	17	250	25,5	VC..1103..	BRICA147	BRICA002
B1U44L2511	E25S SVUCL 11	31,5	25	17	250	25,5	VC..1103..	BRICA147	BRICA002

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - V SHAPE

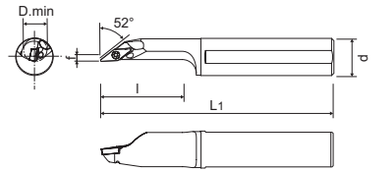
KERFOLG

VC...

ITEM: B1U46

Material Steel
Clamping system S (Screw)
Application Internal Turning and facing

A...SVJCR/L



Tech. Code	Description	D min. mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U46L1611	A16M SVJCL 11	22	16	2	150	31,4	VC..1103..	BRICA147	BRICA002
B1U46R1611	A16M SVJCR 11	22	16	2	150	31,4	VC..1103..	BRICA147	BRICA002
B1U46L2011	A20Q SVJCL 11	24	20	2	180	38	VC..1103..	BRICA147	BRICA002
B1U46R2011	A20Q SVJCR 11	24	20	2	180	38	VC..1103..	BRICA147	BRICA002
B1U46L2516	A25R SVJCL 16	28	25	4,6	200	44	VC..1604..	BRICA148	BRICA004
B1U46R2516	A25R SVJCR 16	28	25	4,6	200	44	VC..1604..	BRICA148	BRICA004

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - V SHAPE

KERFOLG

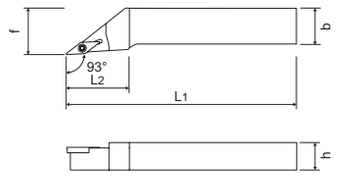
VC...

ITEM: B1U39

Material Steel
Clamping system S (Screw)
Application External turning

Bore 1/8" Gas included

SVJCR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver	Support	Support screw
B1U39L1616H11	SVJCL 1616 H11 IK G1/8	16	16	20	21.5	100	VC..1103..	BRICA136	BRICA002	/	/
B1U39L2020K11	SVJCL 2020 K11 IK G1/8	20	20	25	23	125	VC..1103..	BRICA136	BRICA002	/	/
B1U39L2020K16	SVJCL 2020 K16 IK G1/8	20	20	25	29.5	125	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U39L2525M16	SVJCL 2525 M16 IK G1/8	25	25	32	32.5	150	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U39R1616H11	SVJCR 1616 H11 IK G1/8	16	16	20	21.5	100	VC..1103..	BRICA136	BRICA002	/	/
B1U39R2020K11	SVJCR 2020 K11 IK G1/8	20	20	25	23	125	VC..1103..	BRICA136	BRICA002	/	/
B1U39R2020K16	SVJCR 2020 K16 IK G1/8	20	20	25	29.5	125	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U39R2525M16	SVJCR 2525 M16 IK G1/8	25	25	32	32.5	150	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145

Related products

IP67 DIGITAL MICROMETER FOR INDOOR USE WITH BLUETOOTH® AND PRESETS

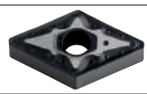
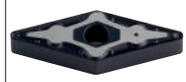
Tech. Code	Range mm	Accuracy mm
D1276050065	50 ÷ 65	0,005
D1276065080	65 ÷ 80	
D1276080100	80 ÷ 100	



Products are available in CAP D

TURNING NEGATIVE INSERTS INDEX

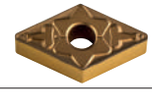
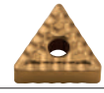
KERFOLG

		C SHAPE	D SHAPE	S SHAPE	T SHAPE	V SHAPE	W SHAPE	CARBON STEELS	STAINLESS STEELS	CAST IRON	NON FERROUS	SUPERALLOYS	HARDENED
													
	Side dimension	12 - 16 - 19 - 25	11 - 15	12 - 16 - 19 - 25	16 - 22	16	06 - 08						
	Page	B.20,22,26	B.28	B.30	B.32	B.33	B.34						
FIN.	FF	•	•					●	●	●			
FIN.	SF	•	•			•	•		●	●	●	●	
FIN.	CSF	•	•			•	•	●	●				
MEDIUM CUTTING	CM	•	•	•	•	•	•	●	●	●			
MEDIUM CUTTING	SA	•	•	•	•	•	•		●			●	
MEDIUM CUTTING	SM	•	•	•	•	•	•	●	●				
SGROSSATURA	CR	•	•	•	•		•	●	●				
SGROSSATURA	CMR	•		•	•		•	●	●	●			
SGROSSATURA	CM2	•	•					●	●				
SGROSSATURA	CCM	•		•				●	●				
SGROSSATURA	CCR	•		•				●	●				

● RECOMMENDED FOR... ○ USABLE FOR...

TURNING NEGATIVE INSERTS INDEX

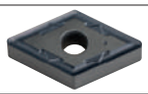
Tungaloy

		C SHAPE	D SHAPE	S SHAPE	T SHAPE	V SHAPE	W SHAPE	CARBON STEELS	STAINLESS STEELS	CAST IRON	NON FERROUS	SUPERALLOYS	HARDENED
													
	Side dimension	12 - 16	11 - 15	12	16		06 - 08						
	Page	B.20,23,27	B.29	B.31	B.32	B.33	B.35						
FIN.	TSF	•	•	•	•	•	•	●	●	●			
FIN.	SF	•	•	•	•	•	•		●				
FIN.	HRF	•	•		•	•	•					●	
MEDIUM CUTTING	37	•			•			●	●	●			
MEDIUM CUTTING	TM	•	•	•	•	•	•	●	●	●			
MEDIUM CUTTING	SM	•	•	•	•	•	•		●				
MEDIUM CUTTING	HRM	•	•	•	•	•	•					●	
ROUGH.	TH	•		•			•	●	●	●			
ROUGH.	SH	•	•				•		●				

● RECOMMENDED FOR... ○ USABLE FOR...

TURNING POSITIVE INSERTS INDEX

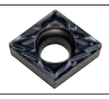
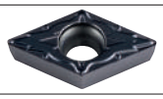
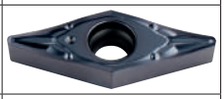
KERFOLG

		C SHAPE	D SHAPE	K SHAPE	R SHAPE	S SHAPE	T SHAPE	V SHAPE	CARBON STEELS	STAINLESS STEELS	CAST IRON	NON FERROUS	SUPERALLOYS	HARDENED
														
	Side dimension	6 - 9 - 12	7 - 11	16	8 - 10 - 12 - 16 - 20	9 - 12	11 - 16							
	Page	B.21,24,36	B.38	B.	B.40	B.40	B.40	B.42						
FIN.	FFP	•	•				•		●	●	●			
FIN.	CFP	•	•					•	●	●				
MEDIUM CUTTING	CMP	•	•	•	•	•	•	•	●	●				
MEDIUM CUTTING	SMP	•	•			•	•	•	●	●				
MEDIUM CUTTING	AFP	•	•			•	•	•	●		●	●	●	

● RECOMMENDED FOR... ○ USABLE FOR…

TURNING POSITIVE INSERTS INDEX

tungaloy

		C SHAPE	D SHAPE	S SHAPE	T SHAPE	V SHAPE	CARBON STEELS	STAINLESS STEELS	CAST IRON	NON FERROUS	SUPERALLOYS	HARDENED
												
	Side dimension	3 - 6 - 9 - 12	7 - 11	12	11 - 16	16						
	Page	B.21,25,37	B.39	B.21,25,40	B.41	B.42						
FIN.	W...	•	•				●	●	●	●	●	●
FIN.	PSF	•	•		•	•	●	●	●		●	●
MEDIUM CUTTING	PSS	•	•		•	•	●	●	●		●	●
MEDIUM CUTTING	JS	•	•				●	●	●		●	●
MEDIUM CUTTING	PM	•	•	•	•		●	●	●		●	●

● RECOMMENDED FOR... ○ USABLE FOR…



DEGREE AND RECOMMENDED CUTTING CONDITIONS - NEGATIVE INSERTS

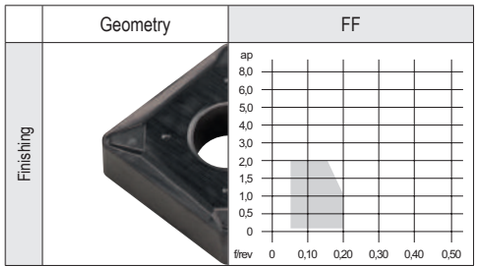
KERFOLG

			P			M			K		N	S	H
Grade		Coating	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	Duplex	<240 HB	<300 HB	Alu	HTA	<60 HRC
1010	P15-M10-K10	-	230-270	180-230	160-200	200-240	170-210			220-300			
4115	P15-K25-M10	CVD TiCN-Al203	220-400	200-320	180-320	220-320							
4125	P25-K30-M20	CVD TiCN-Al203	170-240	130-210	100-190	140-210	100-210						
4135	P35-M25-S25	CVD TiCN-Al203	170-190	120-200	90-150	140-200	110-190	80-150					
3120	K20-P10	CVD TiCN-Al203 ML	200-340	150-290	150-290				150-400	120-300			
2120	M20-K20	PVD TiAlTaN				150-250	120-200	90-160	120-160	120-160	100-400	20-50	
2125	M25-P35-S25	PVD TiAlTaN	130-250	80-200	60-180	120-230	100-200	60-160					
NL10	N15-K15	-							120-160	130-170	100-200	20-45	
5110	S15-M15	PVD TiAlN				150-230	140-190	60-100				60-120	
5115	S15-M15	PVD TiAlN-TiN				130-220	120-180	50-90				60-120	

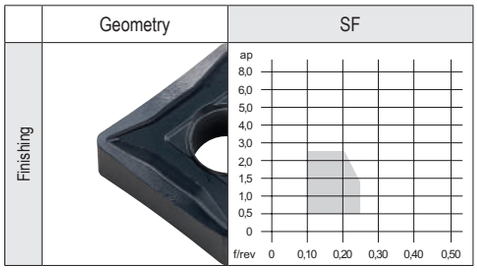
GEOMETRY AND RECOMMENDED CUTTING CONDITIONS - NEGATIVE INSERTS

KERFOLG

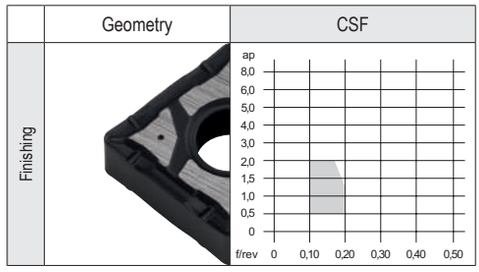
Geometry FF — Finishing



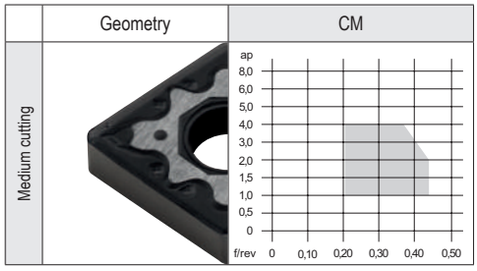
Geometry SF — Finishing



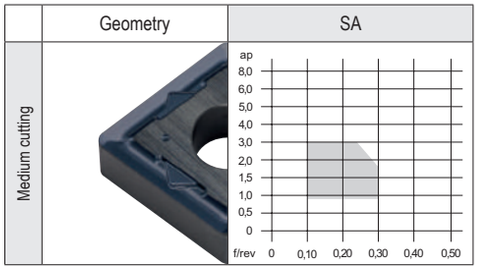
Geometry CSF — Finishing



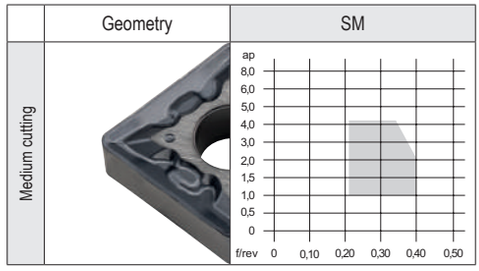
Geometry CM — Medium cutting



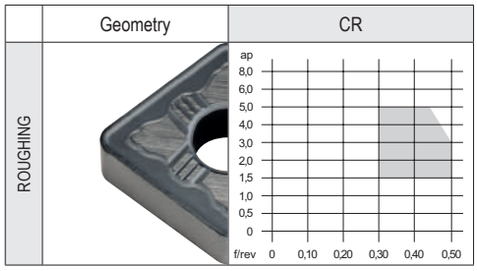
Geometry SA — Medium cutting



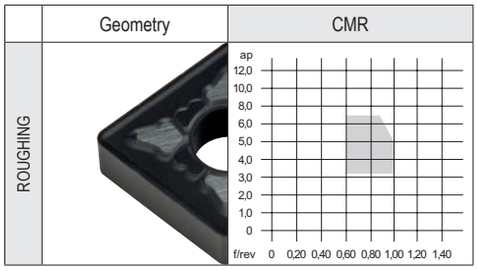
Geometry SM — Medium cutting



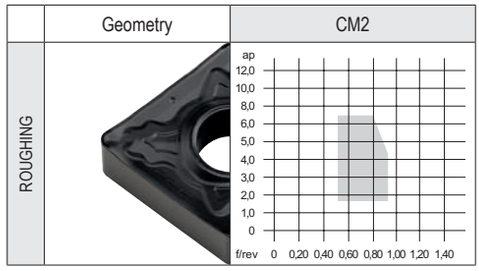
Geometry CR — ROUGHING



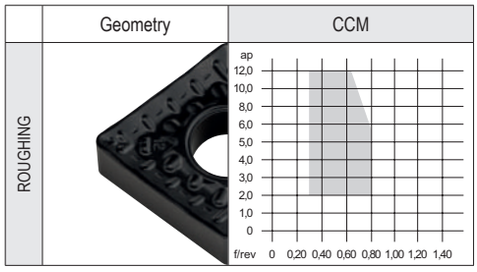
Geometry CMR — ROUGHING



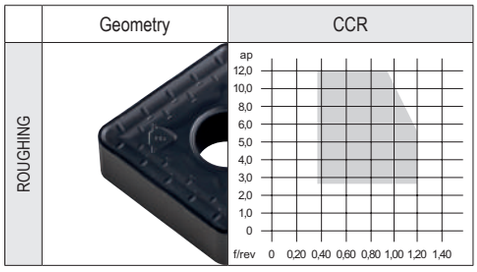
Geometry CM2 — ROUGHING



Geometry CCM — ROUGHING



Geometry CCR — ROUGHING

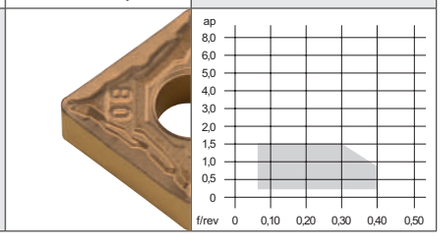


DEGREE AND RECOMMENDED CUTTING CONDITIONS - POSITIVE INSERTS

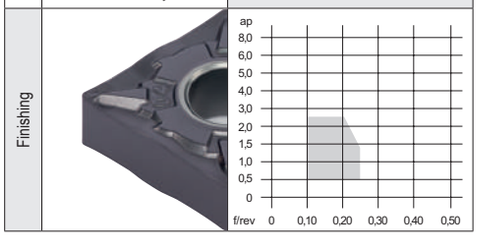
			P			M			K		N	S	H
Grade		Coating	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	Duplex	<240 HB	<300 HB	Alu	HTA	<60 HRC
T9215	P20-K30	CVD TiCN-Al2O3	150-400	150-400	120-250	120-200			140-400	140-370			
T9225	P20-P30	CVD TiCN-Al2O3	120-300	120-300	100-250	90-130	60-100		120-300	120-250			
T9235	P30-P40	CVD TiCN-Al2O3	50-200	50-200	50-150								
T6215	M10-M20	CVD TiCN based				140-200	100-200	70-160					
AH6225	M20-M30	PVD TiCN based				100-200	90-160	60-120					
AH6235	M30-M40	PVD (Ti,Al)N				90-190	70-160	60-110				30-70	
AH8005	M10-S10	PVD (Al,Ti)N										30-100	
AH8015	M20-S20	PVD (Al,Ti)N										20-80	

RECOMMENDED GEOMETRIES AND CUTTING CONDITIONS - NEGATIVE INSERTS

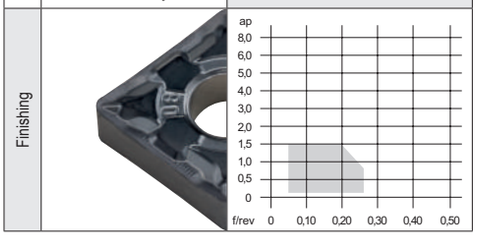
Finishing — Geometry: TSF



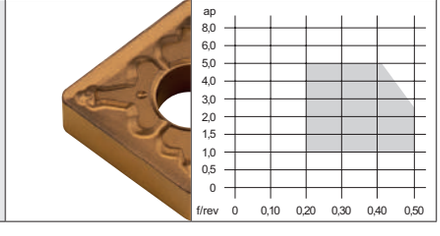
Finishing — Geometry: SF



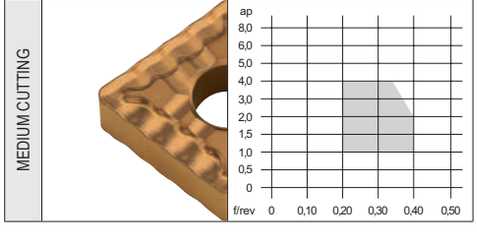
Finishing — Geometry: HRF



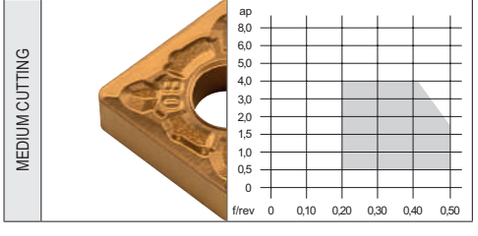
Medium cutting — Geometry: TM



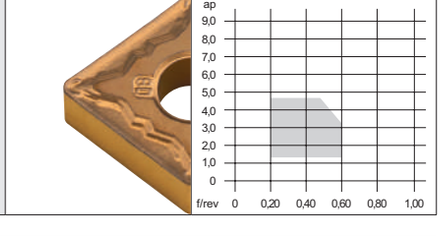
MEDIUM CUTTING — Geometry: 37



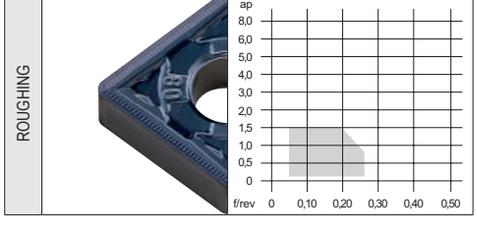
MEDIUM CUTTING — Geometry: SM



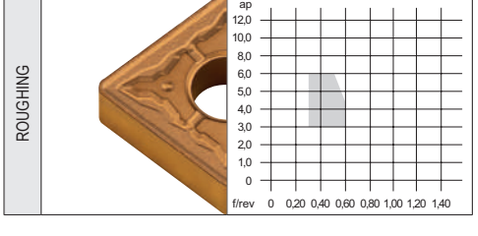
Medium cutting — Geometry: AM



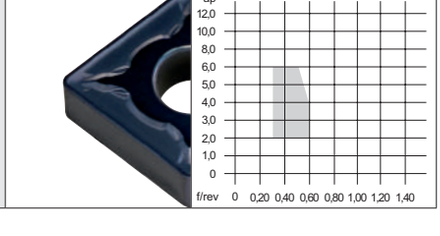
ROUGHING — Geometry: HRM



ROUGHING — Geometry: TH



ROUGHING — Geometry: SH



DEGREE AND CUTTING CONDITIONS - POSITIVE INSERTS

KERFOLG

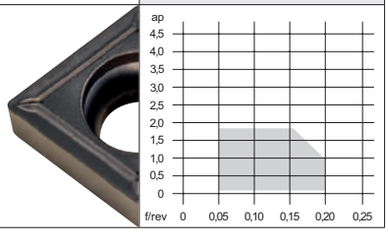
			P			M			K		N	S	H
Grade		Coating	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	Duplex	<240 HB	<300 HB	Alu	HTA	<60 HRC
1010	P 15 Cermet	-	230-270	180-230	160-200	200-240	170-210			220-300			
4115	P15-K25-M10	CVD TiCN-Al203	220-400	200-320	180-320	220-320							
4125	P25-K30-M20	CVD TiCN-Al203	170-240	130-210	100-190	140-210	100-210						
4135	P35-M25S25	CVD TiCN-Al203	170-190	120-200	90-150	140-200	110-190	80-150					
3120	K20-P10	CVD TiCN-Al203 ML	200-340	150-290	150-290				150-400	120-300			
2120	M20-K20	PVD TiAlTaN				150-250	120-200	90-160	120-160	120-160	100-400	20-50	
2125	M25-P35-S25	PVD TiAlTaN	130-250	80-200	60-180	120-230	100-200	60-160					
2135	M35-P35	PVD TiAlN-TiN				130-220	120-180	50-90				60-120	
NL10	N24-K15	-							120-160	130-170	100-200	20-45	
5110	S15-M15	PVD TiAlN				150-230	140-190	60-100				60-120	
5115	S15-M15	PVD TiAlN-TiN				130-220	120-180	50-90				60-120	

GEOMETRY AND RECOMMENDED CUTTING CONDITIONS - POSITIVE INSERTS

KERFOLG

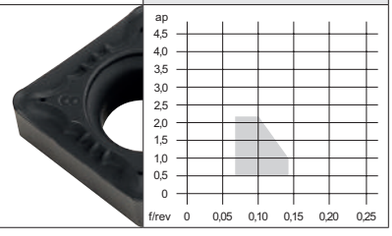
Geometry — FFP

Finishing



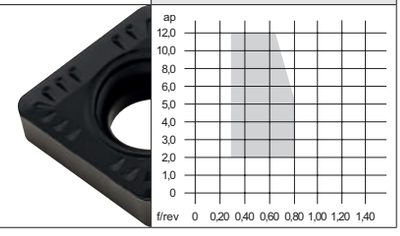
Geometry — CFP

Finishing



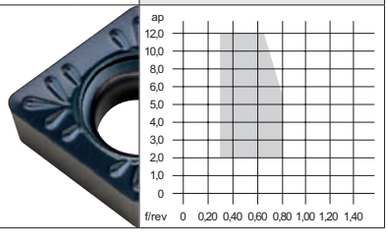
Geometry — CMP

Medium cutting



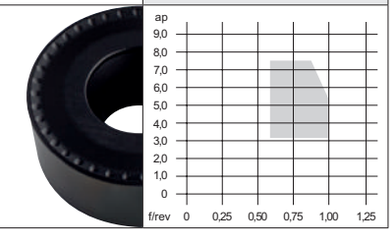
Geometry — SMP

Medium cutting



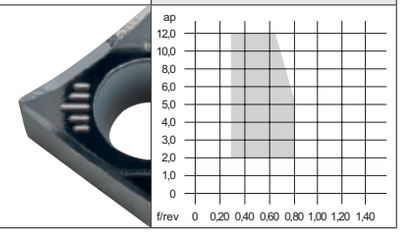
Geometry — CLP

Medium cutting



Geometry — AFP

Medium cutting

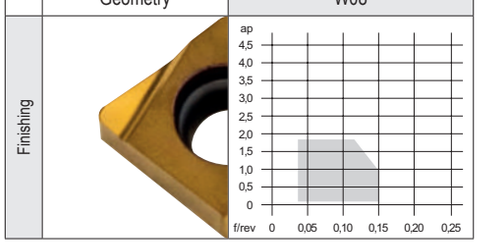


DEGREE AND CUTTING CONDITIONS - POSITIVE INSERTS

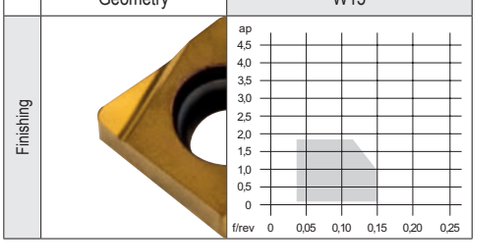
			P			M			K		N	S	H
Grade		Coating	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	Duplex	<240 HB	<300 HB	Alu	HTA	<60 HRC
NS9530	Cermet	Uncoated	150-250	80-180	150-300								
GT9530	Cermet	Ti(C,N,O)	150-300	140-250	80-200								
T9215	P20-K20	CVD TiCN-Al2O3	150-400	150-400	150-250	50-200			140-350	140-350			
T9225	P20-P30	CVD TiCN-Al2O3	120-300	120-300	100-250	90-130	60-100		120-300	120-250			
T9235	P30-P40	CVD TiCN-Al2O3	50-200	50-200	50-150								
T6215	M10-M20	CVD TiCN based				140-240	100-200	70-160					
AH6225	M20-M30	PVD TiCN based				100-200	90-160	60-120					
AH6235	M30-M40	PVD (Ti,Al)N				90-190	70-160	60-110				30-70	
AH725	P30-M30-S25	PVD (Ti,Al)N	120-240	70-200	70-170	50-150			30-140	30-120		20-80	20-50
SH730	P15-P30	PVD (Ti,Al)N	100-150	80-150	40-125	60-160	60-140	50-90	30-120	30-100	90-200	25-70	20-50
AH8005	M10-S10	PVD (Ti,Al)N										30-100	
AH8015	M20-S20	PVD (Ti,Al)N										20-80	

GEOMETRY AND RECOMMENDED CUTTING CONDITIONS - POSITIVE INSERTS

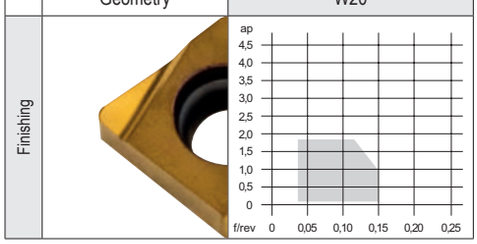
Finishing — Geometry W08



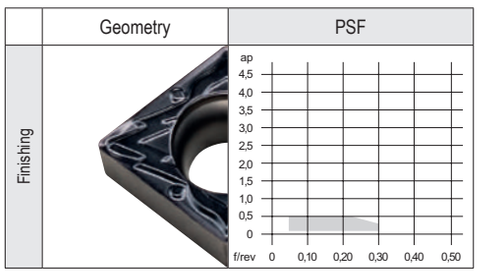
Finishing — Geometry W15



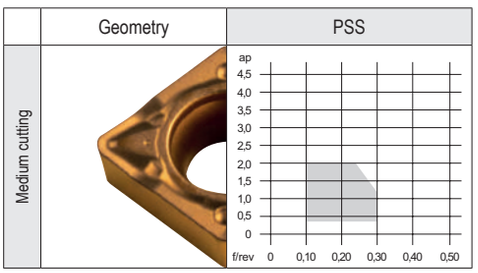
Finishing — Geometry W20



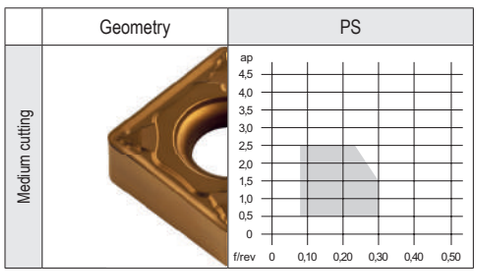
Finishing — Geometry PSF



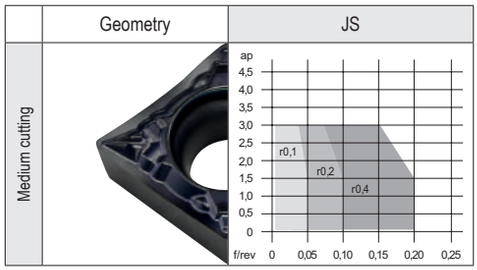
Medium cutting — Geometry PSS



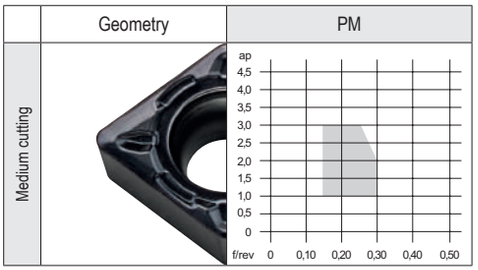
Medium cutting — Geometry PS



Medium cutting — Geometry JS



Medium cutting — Geometry PM



NEGATIVE TURNING INSERTS - FORM C

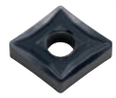
KERFOLG

CNMG FF — Finishing



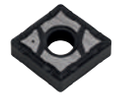
Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,20 - 1,00 - 2,00
B0C57CNFF10	CNMG 120404EN-FF	1010	●	●	○				Feed rate mm/rev	0,05 - 0,10 - 0,20
B0C57CNFF11	CNMG 120408EN-FF	1010	●	●	○					

CNGP SF — Finishing



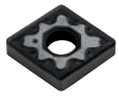
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,50 - 1,00 - 2,50
B0C50CNSF10	CNGP 120404-SF	2120		●	○	○	●		Feed rate mm/rev	0,10 - 0,15 - 0,25
B0C50CNSF11	CNGP 120408-SF	2120		●	○	○	●			

CNMG CSF — Finishing



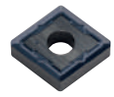
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,50 - 1,00 - 2,00
B0C58CNCSF11	CNMG 120404-CSF	4115	●	○					Feed rate mm/rev	0,10 - 0,15 - 0,20
B0C58CNCSF12	CNMG 120404-CSF	4125	●	○						

CNMG CM — Medium cutting



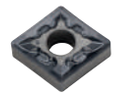
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,00 - 2,50 - 4,00
B0C51CNCM10	CNMG 120404-CM	4115	●	○					Feed rate mm/rev	0,22 - 0,35 - 0,44
B0C51CNCM11	CNMG 120404-CM	4125	●	○						
B0C51CNCM12	CNMG 120408-CM	4115	●	○						
B0C51CNCM13	CNMG 120408-CM	4125	●	○						
B0C51CNCM14	CNMG 120408-CM	4135	●	○						
B0C51CNCM20	CNMG 120408-CM	3120	○		●					
B0C51CNCM15	CNMG 120412-CM	4115	●	○						
B0C51CNCM16	CNMG 120412-CM	4125	●	○						
B0C51CNCM17	CNMG 120412-CM	4135	●	○						
B0C51CNCM21	CNMG 120412-CM	3120	○		●					

CNMG SA — Medium cutting



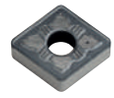
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,80 - 2,00 - 3,00
B0C59CNSA07	CNMG 120404-SA	5115		○			●		Feed rate mm/rev	0,10 - 0,20 - 0,30
B0C59CNSA08	CNMG 120408-SA	5115		○			●			

CNMG SM — Medium cutting



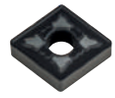
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,00 - 2,50 - 4,20
B0C52CNSM10	CNMG 120404-SM	2125	○	●					Feed rate mm/rev	0,22 - 0,30 - 0,40
B0C52CNSM11	CNMG 120408-SM	2125	○	●						

CNMG CR — ROUGHING



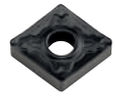
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,50 - 3,50 - 5,00
B0C53CNCR08	CNMG 120408-CR	4115	●	○					Feed rate mm/rev	0,30 - 0,40 - 0,50
B0C53CNCR09	CNMG 120412-CR	4125	●	○						

CNMG CMR — ROUGHING



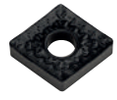
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	2,00 - 3,50 - 5,00
B0C54CNCMR20	CNMG 120408-CMR	3120	○		●				Feed rate mm/rev	0,30 - 0,40 - 0,50
B0C54CNCMR21	CNMG 120412-CMR	3120	○		●					
B0C54CNCMR10	CNMG 160612-CMR	4125	●	○						
B0C54CNCMR11	CNMG 160612-CMR	4135	●	○						
B0C54CNCMR12	CNMG 190616-CMR	4125	●	○						
B0C54CNCMR13	CNMG 190616-CMR	4135	●	○						

CNMM CM2 — ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,70 - 3,50 - 6,50
B0C40CNCM208	CNMM120412-CM2	4125	●	○					Feed rate mm/rev	0,45 - 0,70 - 0,95

CNMM CCM — ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	2,00 - 6,00 - 12,00
B0C55CNCCM10	CNMM 190612-CCM	4125	●	○					Feed rate mm/rev	0,30 - 0,50 - 0,80

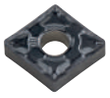
CNMG TSF Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0C11CNTSF016	CNMG 120404-TSF	T9215	●	○	○			
B0C11CNTSF018	CNMG 120404-TSF	T9225	●	○	○			
B0C11CNTSF015	CNMG 120408-TSF	T9215	●	○	○			
B0C11CNTSF017	CNMG 120408-TSF	T9225	●	○	○			

Depth	0,20 - 1,00 - 1,50
Feed rate mm/rev	0,08 - 0,15 - 0,40

CNMG HRF Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0C13CNHRF005	CNMG 120404-HRF	AH8005					●	
B0C13CNHRF006	CNMG 120404-HRF	AH8015					●	
B0C13CNHRF007	CNMG 120408-HRF	AH8005					●	
B0C13CNHRF008	CNMG 120408-HRF	AH8015					●	
B0C13CNHRF009	CNMG 120412-HRF	AH8005					●	
B0C13CNHRF010	CNMG 120412-HRF	AH8015					●	

Depth	0,40 - 1,00 - 1,50
Feed rate mm/rev	0,05 - 0,15 - 0,25

CNMG 37 Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0C14CN37007	CNMG 120404-37	T9215	●	○	○			
B0C14CN37008	CNMG 120408-37	T9215	●	○	○			

Depth	1,00 - 2,50 - 4,00
Feed rate mm/rev	0,20 - 0,30 - 0,40

CNMG AM Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0C18CNAM005	CNMG 120408-AM	T9215	●	○	○			
B0C18CNAM006	CNMG 120408-AM	T9225	●	○	○			

Depth	1,00 - 3,00 - 5,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

CNMG TM Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0C21CNTM01420	CNMG 120408-TM	T9215	●	○	○			
B0C21CNTM021	CNMG 120408-TM	T9225	●	○	○			
B0C21CNTM022	CNMG 120408-TM	T9235	●	○	○			
B0C21CNTM020	CNMG 120412-TM	T9215	●	○	○			
B0C21CNTM023	CNMG 120412-TM	T9225	●	○	○			
B0C21CNTM024	CNMG 120412-TM	T9235	●	○	○			

Depth	1,00 - 3,00 - 5,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

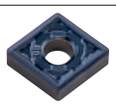
CNMG SM Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0C23CNSM018	CNMG 120408-SM	T6215		●				
B0C23CNSM019	CNMG 120408-SM	AH6225		●				
B0C23CNSM020	CNMG 120408-SM	AH6235		●				
B0C23CNSM022	CNMG 120412-SM	T6215		●				
B0C23CNSM023	CNMG 120412-SM	AH6225		●				
B0C23CNSM024	CNMG 120412-SM	AH6235		●				

Depth	0,50 - 2,00 - 4,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

CNMG HRM ROUGHING



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0C24CNHRM005	CNMG 120408-HRM	AH8005					●	
B0C24CNHRM006	CNMG 120408-HRM	AH8015					●	
B0C24CNHRM007	CNMG 120412-HRM	AH8005					●	
B0C24CNHRM008	CNMG 120412-HRM	AH8015					●	

Depth	0,50 - 2,00 - 4,00
Feed rate mm/rev	0,10 - 0,20 - 0,30

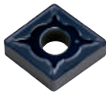
CNMG TH ROUGHING



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0C31CNTH034	CNMG 120408-TH	T9225	●	○	○			
B0C31CNTH035	CNMG 120408-TH	T9235	●	○	○			
B0C31CNTH036	CNMG 120412-TH	T9225	●	○	○			
B0C31CNTH037	CNMG 120412-TH	T9235	●	○	○			
B0C31CNTH038	CNMG 120416-TH	T9225	●	○	○			
B0C31CNTH039	CNMG 120416-TH	T9235	●	○	○			
B0C31CNTH040	CNMG 160612-TH	T9225	●	○	○			
B0C31CNTH041	CNMG 160612-TH	T9235	●	○	○			
B0C31CNTH042	CNMG 160616-TH	T9225	●	○	○			
B0C31CNTH043	CNMG 160616-TH	T9235	●	○	○			

Depth	3,00 - 4,00 - 6,00
Feed rate mm/rev	0,30 - 0,40 - 0,60

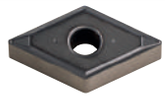
CNMG SH ROUGHING



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0C32CNSH011	CNMG 120408-SH	AH6225		●				
B0C32CNSH012	CNMG 120408-SH	AH6235		●				
B0C32CNSH014	CNMG 120412-SH	AH6225		●				
B0C32CNSH015	CNMG 120412-SH	AH6235		●				

Depth	2,00 - 4,00 - 6,00
Feed rate mm/rev	0,30 - 0,45 - 0,60

DNMG FF
Finishing

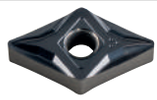


Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0D50DNFF10	DNMG 110404-FF	1010	●	●	○			
B0D50DNFF11	DNMG 150604-FF	1010	●	●	○			

CUTTING DATA

Depth	0,20 - 1,00 - 2,00
Feed rate mm/rev	0,05 - 0,10 - 0,20

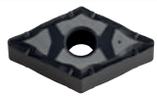
DNGP SF
Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0D51DNSF09	DNGP 150602-SF	2120		●	○	○	●	
B0D51DNSF10	DNGP 150604-SF	2120		●	○	○	●	
B0D51DNSF11	DNGP 150608-SF	2120		●	○	○	●	

Depth	0,50 - 1,00 - 2,50
Feed rate mm/rev	0,10 - 0,15 - 0,25

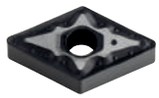
DNMG CSF
Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0D54DNCSF10	DNMG 110404-CSF	4115	●	○				
B0D54DNCSF11	DNMG 110404-CSF	4125	●	○				
B0D54DNCSF12	DNMG 150604-CSF	4115	●	○				
B0D54DNSCF13	DNMG 150608-CSF	4115	●	○				

Depth	0,50 - 1,00 - 2,00
Feed rate mm/rev	0,10 - 0,15 - 0,20

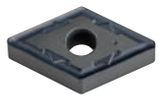
DNMG CM
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0D52DNCM06	DNMG 110404-CM	4125	●	○				
B0D52DNCM07	DNMG 110408-CM	4115	●	○				
B0D52DNCM08	DNMG 110408-CM	4125	●	○				
B0D52DNCM10	DNMG 150604-CM	4115	●	○				
B0D52DNCM11	DNMG 150604-CM	4125	●	○				
B0D52DNCM12	DNMG 150608-CM	4115	●	○				
B0D52DNCM13	DNMG 150608-CM	4125	●	○				
B0D52DNCM14	DNMG 150608-CM	4135	●	○				
B0D52DNCM20	DNMG 150608-CM	3120	○		●			
B0D52DNCM16	DNMG 150612-CM	4125	●	○				
B0D52DNCM17	DNMG 150612-CM	4135	●	○				
B0D52DNCM21	DNMG 150612-CM	3120	○		●			

Depth	1,00 - 2,50 - 4,00
Feed rate mm/rev	0,22 - 0,35 - 0,44

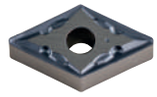
DNMG SA
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0D56DNSA05	DNMG 150608-SA	5110		○			●	
B0D56DNSA06	DNMG 150608-SA	5115		○			●	

Depth	0,80 - 2,00 - 3,00
Feed rate mm/rev	0,10 - 0,20 - 0,30

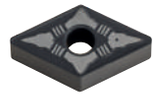
DNMG SM
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0D53DNSM05	DNMG 110404-SM	2125	○	●				
B0D53DNSM06	DNMG 110408-SM	2125	○	●				
B0D53DNSM10	DNMG 150604-SM	2125	○	●				
B0D53DNSM11	DNMG 150608-SM	2125	○	●				

Depth	1,00 - 2,50 - 4,20
Feed rate mm/rev	0,22 - 0,30 - 0,40

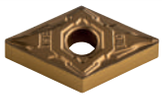
DNMG CR
ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0D57DNCR05	DNMG 150608-CR	4115	●	○				
B0D57DNCR06	DNMG 150608-CR	4125	●	○				
B0D57DNCR07	DNMG 150608-CR	4135	●	○				
B0D57DNCR08	DNMG 150612-CR	4115	●	○				
B0D57DNCR10	DNMG 150612-CR	4135	●	○				

Depth	1,50 - 3,50 - 5,00
Feed rate mm/rev	0,30 - 0,40 - 0,50

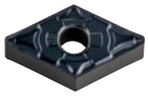
DNMG TSF
Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0D11DNTSF015	DNMG 150604-TSF	T9215	●	○	○			
B0D11DNTSF016	DNMG 150604-TSF	T9225	●	○	○			
B0D11DNTSF014	DNMG 150608-TSF	T9215	●	○	○			
B0D11DNTSF017	DNMG 150608-TSF	T9225	●	○	○			

Depth	0,20 - 1,00 - 1,50
Feed rate mm/rev	0,08 - 0,15 - 0,40

DNMG HRF
Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0D13DNHRF005	DNMG 150604-HRF	AH8005					●	
B0D13DNHRF006	DNMG 150604-HRF	AH8015					●	
B0D13DNHRF007	DNMG 150608-HRF	AH8005					●	
B0D13DNHRF008	DNMG 150608-HRF	AH8015					●	

Depth	0,40 - 1,00 - 1,50
Feed rate mm/rev	0,05 - 0,15 - 0,25

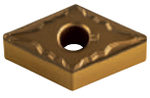
DNMG SF
Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0D12DNFS011	DNMG 150604-SF	T6215		●				
B0D12DNSF012	DNMG 150604-SF	AH6225		●				
B0D12DNSF014	DNMG 150608-SF	T6215		●				
B0D12DNSF015	DNMG 150608-SF	AH6225		●				

Depth	0,80 - 1,50 - 2,80
Feed rate mm/rev	0,09 - 0,25 - 0,45

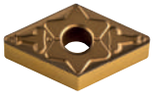
DNMG AM
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0D21DNAM005	DNMG 150608-AM	T9215	●	○	○			

Depth	1,00 - 3,00 - 5,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

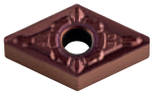
DNMG TM
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0D22DNTM017	DNMG 110404-TM	T9215	●	○	○			
B0D22DNTM019	DNMG 110404-TM	T9225	●	○	○			
B0D22DNTM018	DNMG 110408-TM	T9215	●	○	○			
B0D22DNTM020	DNMG 110408-TM	T9225	●	○	○			
B0D22DNTM016	DNMG 150604-TM	T9215	●	○	○			
B0D22DNTM024	DNMG 150604-TM	T9225	●	○	○			
B0D22DNTM023	DNMG 150608-TM	T9215	●	○	○			
B0D22DNTM025	DNMG 150608-TM	T9225	●	○	○			

Depth	1,00 - 3,00 - 5,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

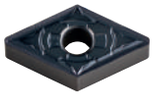
DNMG SM
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0D23DNSM028	DNMG 150604-SM	T6215		●				
B0D23DNSM029	DNMG 150604-SM	AH6225		●				
B0D23DNSM030	DNMG 150604-SM	AH6235		●				
B0D23DNSM031	DNMG 150608-SM	T6215		●				
B0D23DNSM032	DNMG 150608-SM	AH6225		●				
B0D23DNSM033	DNMG 150608-SM	AH6235		●				

Depth	0,50 - 2,00 - 4,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

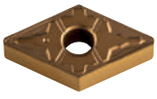
DNMG HRM
ROUGHING



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0D24DNHRM006	DNMG 150604-HRM	AH8005					●	
B0D24DNHRM005	DNMG 150604-HRM	AH8015					●	
B0D24DNHRM007	DNMG 150608-HRM	AH8005					●	
B0D24DNHRM008	DNMG 150608-HRM	AH8015					●	

Depth	0,40 - 2,00 - 4,00
Feed rate mm/rev	0,10 - 0,20 - 0,30

DNMG TH
ROUGHING



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0D25DNTH011	DNMG 150608-TH	T9215	●	○	○			
B0D25DNTH013	DNMG 150608-TH	T9225	●	○	○			
B0D25DNTH014	DNMG 150608-TH	T9235	●	○	○			
B0D25DNTH012	DNMG 150612-TH	T9215	●	○	○			
B0D25DNTH015	DNMG 150612-TH	T9225	●	○	○			
B0D25DNTH016	DNMG 150612-TH	T9235	●	○	○			

Depth	3,00 - 4,00 - 6,00
Feed rate mm/rev	0,30 - 0,40 - 0,60

TURNING NEGATIVE INSERTS - S SHAPE

KERFOLG

SNMG CM
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H		
B0S52SNCM10	SNMG 120408-CM	4115	●	○					Depth	1,00 - 2,50 - 4,00
B0S52SNCM11	SNMG 120408-CM	4125	●	○					Feed rate mm/rev	0,22 - 0,35 - 0,44
B0S52SNCM12	SNMG 120408-CM	4135	●	○						
B0S52SNCM13	SNMG 120412-CM	4125	●	○						
B0S52SNCM14	SNMG 120412-CM	4135	●	○						

SNMG SA
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H		
B0S51SNSA06	SNMG 120408-SA	5115		○			●		Depth	0,80 - 2,00 - 3,00
									Feed rate mm/rev	0,10 - 0,20 - 0,30

SNMG SM
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H		
B0S53SNSM10	SNMG 120408-SM	2125	○	●					Depth	1,00 - 2,50 - 4,20
									Feed rate mm/rev	0,22 - 0,30 - 0,40

SNMG CR
ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H		
B0S54SNCR10	SNMG 120408-CR	4125	●	○					Depth	1,50 - 3,50 - 5,00
									Feed rate mm/rev	0,30 - 0,40 - 0,50

SNMG CMR
ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H		
B0S55SNCMR21	SNMG 120408-CMR	3120	○		●				Depth	2,00 - 3,50 - 5,00
B0S55SNCMR11	SNMG 190612-CMR	4135	●	○					Feed rate mm/rev	0,30 - 0,40 - 0,50

SNMM CCM
ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H		
B0S56SNCCM10	SNMM 190612-CCM	4125	●	○					Depth	2,00 - 6,00 - 12,00
B0S56SNCCM11	SNMM 190616-CCM	4125	●	○					Feed rate mm/rev	0,30 - 0,50 - 0,80

SNMM CCR
ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H		
B0S57SNCCR10	SNMM 250924-CCR	4125	●	○					Depth	2,50 - 6,00 - 12,00
									Feed rate mm/rev	0,35 - 0,75 - 1,20



SNMG
TSF
Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0S20SNTSF010	SNMG 120404-TSF	T9215	●	○	○			
B0S20SNTSF011	SNMG 120404-TSF	T9225	●	○	○			
B0S20SNTSF009	SNMG 120408-TSF	T9215	●	○	○			
B0S20SNTSF012	SNMG 120408-TSF	T9225	●	○	○			

Depth	0,20 - 1,00 - 1,50
Feed rate mm/rev	0,08 - 0,15 - 0,40

SNMG
SF
Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0S23SNSF011	SNMG 120404-SF	T6215		●				
B0S23SNSF012	SNMG 120404-SF	AH6225		●				
B0S23SNSF014	SNMG 120408-SF	T6215		●				
B0S23SNSF015	SNMG 120408-SF	AH6225		●				

Depth	0,80 - 1,50 - 2,80
Feed rate mm/rev	0,09 - 0,25 - 0,45

SNMG
TM
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0S21SNTM023	SNMG 120404-TM	T9215	●	○	○			
B0S21SNTM016	SNMG 120404-TM	T9225	●	○	○			
B0S21SNTM021	SNMG 120408-TM	T9215	●	○	○			
B0S21SNTM017	SNMG 120408-TM	T9225	●	○	○			
B0S21SNTM025	SNMG 120408-TM	T9235	●	○	○			
B0S21SNTM022	SNMG 120412-TM	T9215	●	○	○			
B0S21SNTM026	SNMG 120412-TM	T9225	●	○	○			
B0S21SNTM027	SNMG 120412-TM	T9235	●	○	○			

Depth	1,00 - 3,00 - 5,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

SNMG
SM
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0S22SNSM017	SNMG 120408-SM	T6215		●				
B0S22SNSM018	SNMG 120408-SM	AH6225		●				
B0S22SNSM019	SNMG 120408-SM	AH6235		●				
B0S22SNSM020	SNMG 120412-SM	T6215		●				
B0S22SNSM021	SNMG 120412-SM	AH6225		●				
B0S22SNSM022	SNMG 120412-SM	AH6235		●				

Depth	1,00 - 3,00 - 4,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

SNMG
HRM
ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0S30SNHRM005	SNMG 120408-HRM	AH8005					●	
B0S30SNHRM006	SNMG 120408-HRM	AH8015					●	
B0S30SNHRM007	SNMG 120412-HRM	AH8005					●	
B0S30SNHRM008	SNMG 120412-HRM	AH8015					●	

Depth	0,50 - 2,00 - 4,00
Feed rate mm/rev	0,10 - 0,20 - 0,30

SNMG
TH
ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0S31SNTH016	SNMG 120408-TH	T9215	●	○	○			
B0S31SNTH018	SNMG 120408-TH	T9225	●	○	○			
B0S31SNTH020	SNMG 120408-TH	T9235	●	○	○			
B0S31SNTH017	SNMG 120412-TH	T9215	●	○	○			
B0S31SNTH019	SNMG 120412-TH	T9225	●	○	○			
B0S31SNTH021	SNMG 120412-TH	T9235	●	○	○			

Depth	3,00 - 4,00 - 6,00
Feed rate mm/rev	0,30 - 0,40 - 0,60



TURNING NEGATIVE INSERTS - T SHAPE

KERFOLG

TNMG CM — Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	1,00 - 2,50 - 4,00
B0T53TNCM10	TNMG 160404-CM	4115	●	○					Feed rate mm/rev	0,22 - 0,35 - 0,44
B0T53TNCM11	TNMG 160404-CM	4125	●	○						
B0T53TNCM12	TNMG 160408-CM	4115	●	○						
B0T53TNCM13	TNMG 160408-CM	4125	●	○						
B0T53TNCM14	TNMG 160408-CM	4135	●	○						
B0T53TNCM20	TNMG 160408-CM	3120	○		●					
B0T53TNCM17	TNMG 160412-CM	4115	●	○						
B0T53TNCM15	TNMG 160412-CM	4125	●	○						
B0T53TNCM21	TNMG 160412-CM	3120	○		●					
B0T53TNCM18	TNMG 220404-CM	4125	●	○						
B0T53TNCM16	TNMG 220408-CM	4125	●	○						
B0T53TNCM22	TNMG 220408-CM	3120	○		●					

TNMG SA — Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,80 - 2,00 - 3,00
B0T54TNSA05	TNMG 160408-SA	5110		○			●		Feed rate mm/rev	0,10 - 0,20 - 0,30
B0T54TNSA06	TNMG 160408-SA	5115		○			●			

TNMG SM — Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,00 - 2,50 - 4,20
B0T55TNSM10	TNMG 160404-SM	2125	○	●					Feed rate mm/rev	0,22 - 0,30 - 0,40
B0T55TNSM11	TNMG 160408-SM	2125	○	●						

TNMG CR — ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,50 - 3,50 - 5,00
B0T56TNCR10	TNMG 160408-CR	4125	●						Feed rate mm/rev	0,30 - 0,40 - 0,50
B0T56TNCR11	TNMG 160412-CR	4125	●							

TURNING NEGATIVE INSERTS -T SHAPE

Tungaloy

TNMG TSF — Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,20 - 1,00 - 1,50
B0T11TNTSF015	TNMG 160404-TSF	T9215	●	○	○				Feed rate mm/rev	0,08 - 0,15 - 0,40
B0T11TNTSF017	TNMG 160404-TSF	T9225	●	○	○					
B0T11TNTSF016	TNMG 160408-TSF	T9215	●	○	○					
B0T11TNTSF018	TNMG 160408-TSF	T9225	●	○	○					

TNMG SF — Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,80 - 1,50 - 2,80
B0T12TNSF011	TNMG 160404-SF	T6215		●					Feed rate mm/rev	0,09 - 0,25 - 0,45
B0T12TNSF012	TNMG 160404-SF	AH6225		●						
B0T12TNSF014	TNMG 160408-SF	T6215		●						
B0T12TNSF015	TNMG 160408-SF	AH6225		●						

TNMG HRF — Finishing



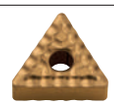
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,40 - 1,00 - 1,50
B0T13TNHRF05	TNMG 160404-HRF	AH8005					●		Feed rate mm/rev	0,05 - 0,15 - 0,25
B0T13TNHRF06	TNMG 160404-HRF	AH8015					●			
B0T13TNHRF07	TNMG 160408-HRF	AH8005					●			
B0T13TNHRF08	TNMG 160408-HRF	AH8015					●			

TNMG TM — Medium cutting



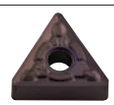
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,00 - 3,00 - 4,00
B0T21TNTM019	TNMG 160404-TM	T9215	●	○	○				Feed rate mm/rev	0,20 - 0,30 - 0,50
B0T21TNTM018	TNMG 160404-TM	T9225	●	○	○					
B0T21TNTM022	TNMG 160404-TM	T9235	●	○	○					
B0T21TNTM017	TNMG 160408-TM	T9215	●	○	○					
B0T21TNTM020	TNMG 160408-TM	T9225	●	○	○					
B0T21TNTM021	TNMG 160408-TM	T9235	●	○	○					

TNMG 37 — Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,00 - 2,50 - 4,00
B0T22TN3708	TNMG 160404-37	T9215	●	○	○				Feed rate mm/rev	0,20 - 0,30 - 0,40
B0T22TN3707	TNMG 160408-37	T9215	●	○	○					

TNMG SM — Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,50 - 2,00 - 4,00
B0T23TNSM018	TNMG 160404-SM	T6215		●					Feed rate mm/rev	0,20 - 0,30 - 0,50
B0T23TNSM019	TNMG 160404-SM	AH6225		●						
B0T23TNSM020	TNMG 160404-SM	AH6235		●						
B0T23TNSM022	TNMG 160408-SM	T6215		●						
B0T23TNSM023	TNMG 160408-SM	AH6225		●						
B0T23TNSM024	TNMG 160408-SM	AH6235		●						
B0T23TNSM026	TNMG 160412-SM	T6215		●						
B0T23TNSM027	TNMG 160412-SM	AH6225		●						
B0T23TNSM028	TNMG 160412-SM	AH6235		●						

TNMG HRM — Medium cutting

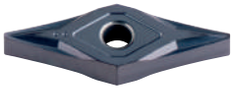


Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,50 - 2,00 - 4,00
B0T24TNHRM05	TNMG 160408-HRM	AH8005					●		Feed rate mm/rev	0,10 - 0,20 - 0,30
B0T24TNHRM06	TNMG 160408-HRM	AH8015					●			
B0T24TNHRM07	TNMG 160412-HRM	AH8005					●			
B0T24TNHRM08	TNMG 160412-HRM	AH8015					●			

TURNING NEGATIVE INSERTS - V SHAPE

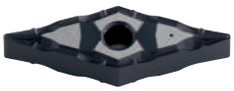
KERFOLG

VNGP SF Finishing



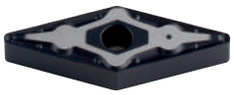
Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,50 - 1,00 - 2,50
B0V55VNSF05	VNGP 160402-SF	2120		●	○	○	●		Feed rate mm/rev	0,10 - 0,15 - 0,25
B0V55VNSF06	VNGP 160404-SF	2120		●	○	○	●			

VNMG CSF Finishing



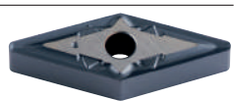
Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,50 - 1,00 - 2,00
B0V56VNCSF05	VNMG 160404-CSF	4115	●	○					Feed rate mm/rev	0,10 - 0,15 - 0,20

VNMG CM Medium cutting



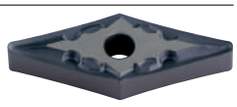
Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	1,00 - 2,50 - 4,00
B0V57VNCM10	VNMG 160404-CM	4115	●	○					Feed rate mm/rev	0,22 - 0,35 - 0,44
B0V57VNCM12	VNMG 160408-CM	4115	●	○						
B0V57VNCM13	VNMG 160408-CM	4125	●	○						

VNMG SA Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,80 - 2,00 - 3,00
B0V58VNSA06	VNMG 160408-SA	5115		○			●		Feed rate mm/rev	0,10 - 0,20 - 0,30

VNMG SM Medium cutting

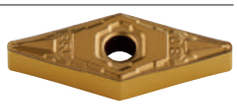


Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	1,00 - 2,50 - 4,20
B0V59VNSM05	VNMG 160408-SM	2125	○	●					Feed rate mm/rev	0,22 - 0,30 - 0,40

TURNING NEGATIVE INSERTS - V SHAPE

tungaloy

VNMG TSF Finishing



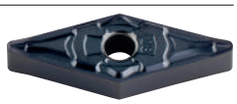
Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,20 - 1,00 - 1,50
B0V10VNTSF09	VNMG 160404-TSF	T9215	●	○	○				Feed rate mm/rev	0,08 - 0,15 - 0,40
B0V10VNTSF11	VNMG 160404-TSF	T9225	●	○	○					
B0V10VNTSF10	VNMG 160408-TSF	T9215	●	○	○					
B0V10VNTSF12	VNMG 160408-TSF	T9225	●	○	○					

VNMG SF Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,80 - 1,50 - 2,80
B0V11VNSF11	VNMG 160404-SF	T6215		●					Feed rate mm/rev	0,09 - 0,25 - 0,45
B0V11VNSF12	VNMG 160404-SF	AH6225		●						
B0V11VNSF14	VNMG 160408-SF	T6215		●						
B0V11VNSF15	VNMG 160408-SF	AH6225		●						

VNMG HRF Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,40 - 1,00 - 1,50
B0V12VNHRF05	VNMG 160404-HRF	AH8005					●		Feed rate mm/rev	0,05 - 0,15 - 0,25
B0V12VNHRF06	VNMG 160404-HRF	AH8015					●			
B0V12VNHRF07	VNMG 160408-HRF	AH8005					●			
B0V12VNHRF08	VNMG 160408-HRF	AH8015					●			

VNMG TM Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	1,00 - 3,00 - 5,00
B0V13VNTM09	VNMG 160404-TM	T9215	●	○	○				Feed rate mm/rev	0,20 - 0,30 - 0,50
B0V13VNTM12	VNMG 160404-TM	T9225	●	○	○					
B0V13VNTM10	VNMG 160408-TM	T9215	●	○	○					
B0V13VNTM13	VNMG 160408-TM	T9225	●	○	○					

VNMG SM Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,50 - 2,00 - 4,00
B0V14VNSM11	VNMG 160404-SM	T6215		●					Feed rate mm/rev	0,20 - 0,30 - 0,50
B0V14VNSM12	VNMG 160404-SM	AH6225		●						
B0V14VNSM13	VNMG 160404-SM	AH6235		●						
B0V14VNSM14	VNMG 160408-SM	T6215		●						
B0V14VNSM15	VNMG 160408-SM	AH6225		●						
B0V14VNSM16	VNMG 160408-SM	AH6235		●						

VNMG HRM Medium cutting



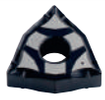
Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,50 - 2,00 - 4,00
B0V15VNHRM05	VNMG 160404-HRM	AH8005					●		Feed rate mm/rev	0,10 - 0,20 - 0,30
B0V15VNHRM06	VNMG 160404-HRM	AH8015					●			
B0V15VNHRM07	VNMG 160408-HRM	AH8005					●			
B0V15VNHRM08	VNMG 160408-HRM	AH8015					●			

WNGP SF
Finishing



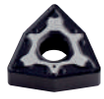
Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,50 - 1,00 - 2,50
B0W54WNSF10	WNGP 080404-SF	2120		●	○	○	●		Feed rate mm/rev	0,10 - 0,15 - 0,25
B0W54WNSF11	WNGP 080408-SF	2120		●	○	○	●			

WNMG CSF
Finishing



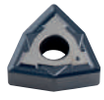
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,50 - 1,00 - 2,00
B0W55WNCSF11	WNWG 080404-CSF	4115	●	○					Feed rate mm/rev	0,10 - 0,15 - 0,20

WNMG CM
Medium cutting



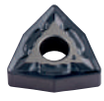
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,00 - 2,50 - 4,00
B0W56WNCM05	WNMG 060404-CM	4115	●	○					Feed rate mm/rev	0,22 - 0,35 - 0,44
B0W56WNCM06	WNMG 060404-CM	4125	●	○						
B0W56WNCM07	WNMG 060408-CM	4115	●	○						
B0W56WNCM08	WNMG 060408-CM	4125	●	○						
B0W56WNCM10	WNMG 080404-CM	4115	●	○						
B0W56WNCM11	WNMG 080404-CM	4125	●	○						
B0W56WNCM12	WNMG 080408-CM	4115	●	○						
B0W56WNCM13	WNMG 080408-CM	4125	●	○						
B0W56WNCM14	WNMG 080408-CM	4135	●	○						
B0W56WNCM20	WNMG 080408-CM	3120	○		●					
B0W56WNCM15	WNMG 080412-CM	4115	●	○						
B0W56WNCM17	WNMG 080412-CM	4135	●	○						
B0W56WNCM21	WNMG 080412-CM	3120	○		●					

WNMG SA
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,80 - 2,00 - 3,00
B0W57WNSA05	WNMG 080408-SA	5110		○			●		Feed rate mm/rev	0,10 - 0,20 - 0,30
B0W57WNSA06	WNMG 080408-SA	5115		○			●			

WNMG SM
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,00 - 2,50 - 4,20
B0W58WNSM05	WNMG 060404-SM	2125	○	●					Feed rate mm/rev	0,22 - 0,30 - 0,40
B0W58WNSM06	WNMG 060408-SM	2125	○	●						
B0W58WNSM10	WNMG 080404-SM	2125	○	●						
B0W58WNSM11	WNMG 080408-SM	2125	○	●						
B0W58WNSM12	WNMG 080412-SM	2125	○	●						

WNMG CR
ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,50 - 3,50 - 5,00
B0W59WNCR10	WNMG 080408-CR	4125	●	○					Feed rate mm/rev	0,30 - 0,40 - 0,50
B0W59WNCR11	WNMG 080412-CR	4125	●	○						

WNMG CMR
ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	2,00 - 3,50 - 5,00
B0W60WNCMR20	WNMG 080408-CMR	3120	○		●				Feed rate mm/rev	0,30 - 0,40 - 0,50
B0W60WNCMR21	WNMG 080412-CMR	3120	○		●					

WNMG TSF Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B0W11WNTSF016	WNMG 060404-TSF	T9215	●	○	○			
B0W11WNTSF018	WNMG 060404-TSF	T9225	●	○	○			
B0W11WNTSF015	WNMG 060408-TSF	T9215	●	○	○			
B0W11WNTSF019	WNMG 060408-TSF	T9225	●	○	○			
B0W11WNTSF014	WNMG 080404-TSF	T9215	●	○	○			
B0W11WNTSF020	WNMG 080404-TSF	T9225	●	○	○			
B0W11WNTSF017	WNMG 080408-TSF	T9215	●	○	○			
B0W11WNTSF021	WNMG 080408-TSF	T9225	●	○	○			

Depth	0,20 - 1,00 - 1,50
Feed rate mm/rev	0,08 - 0,15 - 0,40

WNMG SF Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0W12WNSF11	WNMG 080404-SF	T6215		●				
B0W12WNSF12	WNMG 080404-SF	AH6225		●				
B0W12WNSF14	WNMG 080408-SF	T6215		●				
B0W12WNSF15	WNMG 080408-SF	AH6225		●				

Depth	0,80 - 1,50 - 2,80
Feed rate mm/rev	0,09 - 0,25 - 0,45

WNMG HRF Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0W13WNHRF05	WNMG 080404-HRF	AH8005					●	
B0W13WNHRF06	WNMG 080404-HRF	AH8015					●	
B0W13WNHRF07	WNMG 080408-HRF	AH8005					●	
B0W13WNHRF08	WNMG 080408-HRF	AH8015					●	

Depth	0,40 - 1,00 - 1,50
Feed rate mm/rev	0,05 - 0,15 - 0,25

WNMG AM Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0W20WNAM005	WNMG 150608-AM	T9215	●	○	○			

Depth	1,00 - 3,00 - 5,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

WNMG TM Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0W21WNTM018	WNMG 060404-TM	T9215	●	○	○			
B0W21WNTM21	WNMG 060404-TM	T9225	●	○	○			
B0W21WNTM017	WNMG 060408-TM	T9215	●	○	○			
B0W21WNTM22	WNMG 060408-TM	T9225	●	○	○			
B0W21WNTM19	WNMG 080412-TM	T9215	●	○	○			
B0W21WNTM23	WNMG 080404-TM	T9225	●	○	○			
B0W21WNTM24	WNMG 080404-TM	T9235	●	○	○			
B0W21WNTM18	WNMG 080408-TM	T9215	●	○	○			
B0W21WNTM25	WNMG 080408-TM	T9225	●	○	○			
B0W21WNTM26	WNMG 080408-TM	T9235	●	○	○			
B0W21WNTM20	WNMG 080404-TM	T9215	●	○	○			
B0W21WNTM27	WNMG 080412-TM	T9225	●	○	○			
B0W21WNTM28	WNMG 080412-TM	T9235	●	○	○			

Depth	1,00 - 3,00 - 5,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

WNMG SM Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0W22WNSM20	WNMG 080404-SM	T6215		●				
B0W22WNSM21	WNMG 080404-SM	AH6225		●				
B0W22WNSM22	WNMG 080404-SM	AH6235		●				
B0W22WNSM23	WNMG 080408-SM	T6215		●				
B0W22WNSM24	WNMG 080408-SM	AH6225		●				
B0W22WNSM25	WNMG 080408-SM	AH6235		●				
B0W22WNSM26	WNMG 080412-SM	T6215		●				
B0W22WNSM27	WNMG 080412-SM	AH6225		●				
B0W22WNSM28	WNMG 080412-SM	AH6235		●			●	

Depth	0,50 - 2,00 - 4,00
Feed rate mm/rev	0,20 - 0,30 - 0,50

WNMG HRM Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0W24WNHRM05	WNMG 080404-HRM	AH8005					●	
B0W24WNHRM06	WNMG 080404-HRM	AH8015					●	
B0W24WNHRM07	WNMG 080408-HRM	AH8005					●	
B0W24WNHRM08	WNMG 080408-HRM	AH8015					●	

Depth	0,50 - 2,00 - 4,00
Feed rate mm/rev	0,10 - 0,20 - 0,30

WNMG TH ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0W31WNTH018	WNMG 080408-TH	T9215	●	○	○			
B0W31WNTH019	WNMG 080408-TH	T9225	●	○	○			
B0W31WNTH020	WNMG 080408-TH	T9235	●	○	○			
B0W31WNTH017	WNMG 080412-TH	T9215	●	○	○			
B0W31WNTH021	WNMG 080412-TH	T9225	●	○	○			
B0W31WNTH022	WNMG 080412-TH	T9235	●	○	○			

Depth	3,00 - 4,00 - 6,00
Feed rate mm/rev	0,30 - 0,40 - 0,60

WNMG SH ROUGHING



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B0W32WNSH11	WNMG 080408-SH	AH6225		●				
B0W32WNSH12	WNMG 080408-SH	AH6235		●				
B0W32WNSH14	WNMG 080412-SH	AH6225		●				
B0W32WNSH15	WNMG 080412-SH	AH6235		●				

Depth	2,00 - 4,00 - 6,00
Feed rate mm/rev	0,30 - 0,45 - 0,60

RECOMMENDED GEOMETRIES AND CUTTING CONDITIONS - POSITIVE INSERTS

KERFOLG

CCMT
FFP
Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1C54CCFFP05	CCMT 060402-FFP	1010	●	●	○			
B1C54CCFFP06	CCMT 09T308-FFP	1010	●	●	○			

Depth	0,20 - 0,50 - 1,80
Feed rate mm/rev	0,05 - 0,12 - 0,20

CCMT
CFP
Finishing



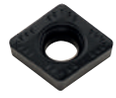
Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1C55CCCFP10	CCMT 060202-CFP	4125	●	○				
B1C55CCCFP14	CCMT 060204-CFP	4115	●	○				
B1C55CCCFP11	CCMT 060204-CFP	4125	●	○				
B1C55CCCFP15	CCMT 09T302-CFP	4125	●	○				
B1C55CCCFP16	CCMT 09T304-CFP	4115	●	○				
B1C55CCCFP12	CCMT 09T304-CFP	4125	●	○				
B1C55CCCFP17	CCMT 09T308-CFP	4115	●	○				
B1C55CCCFP13	CCMT 09T308-CFP	4125	●	○				

Depth	0,50 - 1,50 - 2,20
Feed rate mm/rev	0,07 - 0,10 - 0,14

TURNING POSITIVE INSERTS - C SHAPE

KERFOLG

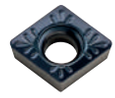
CCMT
CMP
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1C56CCCMP10	CCMT 060204-CMP	4115	●	○				
B1C56CCCMP11	CCMT 060204-CMP	4125	●	○				
B1C56CCCMP23	CCMT 060204-CMP	4135	●	○				
B1C56CCCMP20	CCMT 060208-CMP	4125	●	○				
B1C56CCCMP24	CCMT 060208-CMP	4135	●	○				
B1C56CCCMP12	CCMT 09T304-CMP	4115	●	○				
B1C56CCCMP13	CCMT 09T304-CMP	4125	●	○				
B1C56CCCMP14	CCMT 09T304-CMP	4135	●	○				
B1C56CCCMP19	CCMT 09T308-CMP	4115	●	○				
B1C56CCCMP21	CCMT 09T308-CMP	4125	●	○				
B1C56CCCMP15	CCMT 09T308-CMP	4135	●	○				
B1C56CCCMP16	CCMT 120404-CMP	4125	●	○				
B1C56CCCMP17	CCMT 120408-CMP	4125	●	○				

Depth	1,00 - 1,50 - 2,50
Feed rate mm/rev	0,12 - 0,16 - 0,21

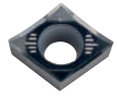
CCMT
SMP
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1C57CCSMP10	CCMT 060204-SMP	2125	○	●				
B1C57CCSMP12	CCMT 060208-SMP	2125	○	●				
B1C57CCSMP11	CCMT 09T304-SMP	2125	○	●				
B1C57CCSMP13	CCMT 09T304-SMP	2135	○	●				
B1C57CCSMP14	CCMT 09T308-SMP	2125	○	●				
B1C57CCSMP15	CCMT 09T308-SMP	2135	○	●				
B1C57CCSMP16	CCMT 120404-SMP	2125	○	●				
B1C57CCSMP17	CCMT 120408-SMP	2125	○	●				
B1C57CCSMP18	CCMT 120412-SMP	2125	○	●				

Depth	1,00 - 1,50 - 2,50
Feed rate mm/rev	0,12 - 0,16 - 0,21

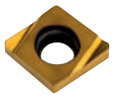
CCGT
AFP
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1C58CCAFP15	CCGT 06021FN-AFP	NL10			○	●	○	
B1C58CCAFP10	CCGT 060202FN-AFP	NL10			○	●	○	
B1C58CCAFP11	CCGT 060204FN-AFP	NL10			○	●	○	
B1C58CCAFP12	CCGT 09T302FN-AFP	NL10			○	●	○	
B1C58CCAFP13	CCGT 09T304FN-AFP	NL10			○	●	○	
B1C58CCAFP14	CCGT 09T308FN-AFP	NL10			○	●	○	
B1C58CCAFP16	CCGT 120404FN-AFP	NL10			○	●	○	
B1C58CCAFP17	CCGT 120408FN-AFP	NL10			○	●	○	

Depth	1,00 - 1,50 - 2,50
Feed rate mm/rev	0,12 - 0,16 - 0,21

CCGT
W**
Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1C11CCW010	CCGT 03X102L-W08	SH730	●	●	●	●	●	●
B1C11CCW011	CCGT 03X102R-W08	SH730	●	●	●	●	●	●
B1C11CCW1505	CCGT 060204L-W15	GT9530	●					
B1C11CCW2005	CCGT 09T304L-W20	GT9530	●					

Depth	0,10 - 0,30 - 0,50
Feed rate mm/rev	0,05 - 0,15 - 0,30

CCMT
PSF
Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1C12CCPSF010	CCMT 060202-PSF	AH725	●	●	●		●	●
B1C12CCPSF011	CCMT 060204-PSF	AH725	●	●	●		●	●
B1C12CCPSF025	CCMT 060204-PSF	T9215	●	○	○			
B1C12CCPSF020	CCMT 09T302-PSF	AH725	●	●	●		●	●
B1C12CCPSF021	CCMT 09T304-PSF	AH725	●	●	●		●	●
B1C12CCPSF024	CCMT 09T304-PSF	T9215	●	○	○			

Depth	0,10 - 0,30 - 0,50
Feed rate mm/rev	0,05 - 0,15 - 0,30

CCMT
PSS
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1C14CCPSS035	CCMT 060204-PSS	T9215	●	○	○			
B1C14CCPSS041	CCMT 060204-PSS	T6215		●				
B1C14CCPSS042	CCMT 060204-PSS	AH6225		●				
B1C14CCPSS007	CCMT 060204-PSS	AH725	●	●	●		●	●
B1C14CCPSS036	CCMT 060208-PSS	T9215	●	○	○			
B1C14CCPSS037	CCMT 060208-PSS	T9225	●	○	○			
B1C14CCPSS043	CCMT 060208-PSS	AH6225		●				
B1C14CCPSS012	CCMT 060208-PSS	AH725	●	●	●		●	●
B1C14CCPSS033	CCMT 09T304-PSS	T9215	●	○	○			
B1C14CCPSS038	CCMT 09T304-PSS	T9225	●	○	○			
B1C14CCPSS044	CCMT 09T304-PSS	T6215		●				
B1C14CCPSS045	CCMT 09T304-PSS	AH6225		●				
B1C14CCPSS027	CCMT 09T304-PSS	AH725	●	●	●		●	●
B1C14CCPSS034	CCMT 09T308-PSS	T9215	●	○	○			
B1C14CCPSS046	CCMT 09T308-PSS	T6215		●				
B1C14CCPSS047	CCMT 09T308-PSS	AH6225		●				
B1C14CCPSS032	CCMT 09T308-PSS	AH725	●	●	●		●	●

Depth	0,50 - 1,50 - 2,50
Feed rate mm/rev	0,08 - 0,15 - 0,30

CCGT
JS
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1C15CCJS005	CCGT 060201N-JS	AH725	●	●	●		●	●
B1C15CCJS006	CCGT 060202N-JS	AH725	●	●	●		●	●
B1C15CCJS007	CCGT 060204N-JS	AH725	●	●	●		●	●
B1C15CCJS008	CCGT 09T302N-JS	AH725	●	●	●		●	●
B1C15CCJS009	CCGT 09T304N-JS	AH725	●	●	●		●	●

Depth	1,00 - 1,50 - 3,00
Feed rate mm/rev	0,02 - 0,08 - 0,20

CCMT
PM
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1C21CCPM019	CCMT 060204-PM	T9215	●	○	○			
B1C21CCPM002	CCMT 060204-PM	AH725	●	●	●		●	●
B1C21CCPM023	CCMT 060204-PM	T6215		●				
B1C21CCPM024	CCMT 060204-PM	AH6225		●				
B1C21CCPM020	CCMT 060208-PM	T9215	●	○	○			
B1C21CCPM006	CCMT 060208-PM	AH725	●	●	●		●	●
B1C21CCPM025	CCMT 060208-PM	T6215		●				
B1C21CCPM026	CCMT 060208-PM	AH6225		●				
B1C21CCPM010	CCMT 09T304-PM	AH725	●	●	●		●	●
B1C21CCPM027	CCMT 09T304-PM	T6215		●				
B1C21CCPM028	CCMT 09T304-PM	AH6225		●				
B1C21CCPM013	CCMT 09T308-PM	AH725	●	●	●		●	●
B1C21CCPM029	CCMT 09T308-PM	T6215		●				
B1C21CCPM030	CCMT 09T308-PM	AH6225		●				
B1C21CCPM016	CCMT 120408-PM	AH725	●	●	●		●	●
B1C21CCPM031	CCMT 120408-PM	T6215		●				
B1C21CCPM032	CCMT 120408-PM	AH6225		●				

Depth	1,00 - 2,00 - 3,00
Feed rate mm/rev	0,15 - 0,20 - 0,30

DCMT FFP Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1D55DCFFP05	DCMT 070204-FFP	1010	●	●	○			
B1D55DCFFP06	DCMT 11T304-FFP	1010	●	●	○			

Depth	0,20 - 0,50 - 1,80
Feed rate mm/rev	0,05 - 0,12 - 0,20

DCMT CFP Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1D56DCCFP10	DCMT 070202-CFP	4125	●	○				
B1D56DCCFP14	DCMT 070204-CFP	4115	●	○				
B1D56DCCFP11	DCMT 070204-CFP	4125	●	○				
B1D56DCCFP12	DCMT 11T304-CFP	4125	●	○				
B1D56DCCFP13	DCMT 11T308-CFP	4125	●	○				

Depth	0,50 - 1,50 - 2,20
Feed rate mm/rev	0,07 - 0,10 - 0,14

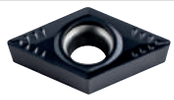
DCMT CMP Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1D57DCCMP10	DCMT 070204-CMP	4125	●	○				
B1D57DCCMP11	DCMT 070204-CMP	4135	●	○				
B1D57DCCMP18	DCMT 070208-CMP	4125	●	○				
B1D57DCCMP12	DCMT 11T304-CMP	4115	●	○				
B1D57DCCMP13	DCMT 11T304-CMP	4125	●	○				
B1D57DCCMP14	DCMT 11T304-CMP	4135	●	○				
B1D57DCCMP15	DCMT 11T308-CMP	4115	●	○				
B1D57DCCMP16	DCMT 11T308-CMP	4125	●	○				
B1D57DCCMP17	DCMT 11T308-CMP	4135	●	○				

Depth	1,00 - 1,50 - 2,50
Feed rate mm/rev	0,12 - 0,16 - 0,21

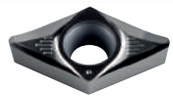
DCMT SMP Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1D58DCSMP10	DCMT 070204-SMP	2125	○	●				
B1D58DCSMP13	DCMT 070208-SMP	2125	○	●				
B1D58DCSMP11	DCMT 11T304-SMP	2125	○	●				
B1D58DCSMP14	DCMT 11T304-SMP	2135		●			●	
B1D58DCSMP12	DCMT 11T308-SMP	2125	○	●				
B1D58DCSMP15	DCMT 11T308-SMP	2135		●			●	

Depth	1,00 - 1,50 - 2,50
Feed rate mm/rev	0,12 - 0,16 - 0,21

DCGT AFP Medium cutting

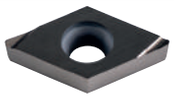


Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1D59DCAFP15	DCGT 070201FN-AFP	NL10			○	●	○	
B1D59DCAFP10	DCGT 070202FN-AFP	NL10			○	●	○	
B1D59DCAFP11	DCGT 070204FN-AFP	NL10			○	●	○	
B1D59DCAFP12	DCGT 11T302FN-AFP	NL10			○	●	○	
B1D59DCAFP13	DCGT 11T304FN-AFP	NL10			○	●	○	
B1D59DCAFP14	DCGT 11T308FN-AFP	NL10			○	●	○	

Depth	1,00 - 1,50 - 2,50
Feed rate mm/rev	0,10 - 0,13 - 0,25



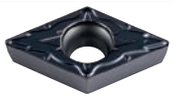
DCGT
W15
Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1D10DCW1505	DCGT 11T302L-W15	NS9530	●					
B1D10DCW1506	DCGT 11T302R-W15	NS9530	●					
B1D10DCW1507	DCGT 11T304L-W15	NS9530	●					
B1D10DCW1508	DCGT 11T304R-W15	NS9530	●					

Depth	0,10 - 0,30 - 0,50
Feed rate mm/rev	0,05 - 0,15 - 0,30

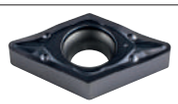
DCMT
PSF
Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1D11DCPSF010	DCMT 070202-PSF	AH725	●	●	●		●	●
B1D11DCPSF005	DCMT 070204-PSF	AH725	●	●	●		●	●
B1D11DCPSF015	DCMT 070204-PSF	T9215	●	○	○			
B1D11DCPSF020	DCMT 11T302-PSF	AH725	●	●	●		●	●
B1D11DCPSF021	DCMT 11T304-PSF	AH725	●	●	●		●	●
B1D11DCPSF014	DCMT 11T304-PSF	T9215	●	○	○			
B1D11DCPSF022	DCMT 11T308-PSF	AH725	●	●	●		●	●
B1D11DCPSF013	DCMT 11T308-PSF	T9215	●	○	○			

Depth	0,10 - 0,30 - 0,50
Feed rate mm/rev	0,05 - 0,15 - 0,30

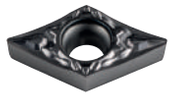
DCMT
PSS
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1D12DCPSS032	DCMT 070204-PSS	T9215	●	○	○			
B1D12DCPSS035	DCMT 070204-PSS	T9225	●	○	○			
B1D12DCPSS037	DCMT 070204-PSS	T6215		●				
B1D12DCPSS038	DCMT 070204-PSS	AH6225		●				
B1D12DCPSS007	DCMT 070204-PSS	AH725	●	●	●		●	●
B1D12DCPSS034	DCMT 070208-PSS	T9215	●	○	○			
B1D12DCPSS039	DCMT 070208-PSS	T6215		●				
B1D12DCPSS031	DCMT 11T304-PSS	T9215	●	○	○			
B1D12DCPSS040	DCMT 11T304-PSS	T6215		●				
B1D12DCPSS020	DCMT 11T304-PSS	AH725	●	●	●		●	●
B1D12DCPSS026	DCMT 11T308-PSS	AH725	●	●	●		●	●
B1D12DCPSS033	DCMT 11T308-PSS	T9215	●	○	○			
B1D12DCPSS036	DCMT 11T308-PSS	T9225	●	○	○			
B1D12DCPSS041	DCMT 11T308-PSS	T6215		●				
B1D12DCPSS042	DCMT 11T308-PSS	AH6225		●				

Depth	0,50 - 1,50 - 2,50
Feed rate mm/rev	0,08 - 0,15 - 0,30

DCGT
JS
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1D13DCJS005	DCGT 070201N-JS	AH725	●	●	●		●	●
B1D13DCJS006	DCGT 070202N-JS	AH725	●	●	●		●	●
B1D13DCJS007	DCGT 11T301N-JS	AH725	●	●	●		●	●
B1D13DCJS008	DCGT 11T302N-JS	AH725	●	●	●		●	●
B1D13DCJS009	DCGT 11T304N-JS	AH725	●	●	●		●	●

Depth	1,00 - 1,50 - 3,00
Feed rate mm/rev	0,02 - 0,08 - 0,20

DCMT
PM
Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H
B1D21DCPM021	DCMT 070204-PM	T9215	●	○	○			
B1D21DCPM006	DCMT 070204-PM	AH725	●	●	●		●	●
B1D21DCPM025	DCMT 070204-PM	T6215		●				
B1D21DCPM026	DCMT 070204-PM	AH6225		●				
B1D21DCPM016	DCMT 070208-PM	AH725	●	●	●		●	●
B1D21DCPM027	DCMT 070208-PM	T6215		●				
B1D21DCPM020	DCMT 11T304-PM	T9215	●	○	○			
B1D21DCPM010	DCMT 11T304-PM	AH725	●	●	●		●	●
B1D21DCPM028	DCMT 11T304-PM	T6215		●				
B1D21DCPM029	DCMT 11T304-PM	AH6225		●				
B1D21DCPM019	DCMT 11T308-PM	T9215	●	○	○			
B1D21DCPM013	DCMT 11T308-PM	AH725	●	○	○		●	●
B1D21DCPM031	DCMT 11T308-PM	T6215		●				
B1D21DCPM032	DCMT 11T308-PM	AH6225		●				

Depth	1,00 - 2,00 - 3,00
Feed rate mm/rev	0,15 - 0,20 - 0,30

KNUX
CMP
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	2,00 - 3,00 - 5,00
B1K61KNCMP10	KNUX 160405L-CMP	4125	●	○					Feed rate mm/rev	0,12 - 0,16 - 0,21
B1K61KNCMP11	KNUX 160405R-CMP	4125	●	○						
B1K61KNCMP12	KNUX 160410R-CMP	4125	●	○						
B1K61KNCMP13	KNUX 160410L-CMP	4125	●	○						

RCMT
CMP
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	2,00 - 3,00 - 5,00
B1R62RCCMP05	RCMT 0803MO-CMP	4135	●	○					Feed rate mm/rev	0,12 - 0,16 - 0,21
B1R62RCCMP06	RCMT 1003MO-CMP	4135	●	○						
B1R62RCCMP07	RCMT 1204MO-CMP	4135	●	○						

RCMT
CLP
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	3,20 - 5,50 - 7,20
B1R65RCCLP05	RCMT 1606MOSN-CLP	4125	●	○					Feed rate mm/rev	0,55 - 0,75 - 1,00
B1R65RCCLP06	RCMT 1606MOSN-CLP	4135	●	○						
B1R65RCCLP07	RCMT 2006MOSN-CLP	4125	●	○						
B1R65RCCLP08	RCMT 2006MOSN-CLP	4135	●	○						

TURNING INSERTS

SCMT
CMP
Medium cutting



Tech. Code	Designation	Grade	CUTTING DATA P	M	K	N	S	H	Depth	1,00 - 1,50 - 2,50
B1S55SCCMP10	SCMT 09T304-CMP	4125	●	○					Feed mm/rev	0,12 - 0,16 - 0,21
B1S55SCCMP18	SCMT 09T308-CMP	4125	●	○						
B1S55SCCMP11	SCMT 09T308-CMP	4135	●	○						
B1S55SCCMP12	SCMT 120404-CMP	4125	●	○						
B1S55SCCMP13	SCMT 120408-CMP	4125	●	○						
B1S55SCCMP14	SCMT 120408-CMP	4135	●	○						
B1S55SCCMP16	SCMT 120412-CMP	4125	●	○						
B1S55SCCMP17	SCMT 120412-CMP	4135	●	○						

SCMT
SMP
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	1,00 - 1,50 - 2,50
B1S56SCSMP05	SCMT 09T304-SMP	2125	○	●					Feed rate mm/rev	0,12 - 0,16 - 0,21
B1S56SCSMP06	SCMT 09T308-SMP	2125	○	●						
B1S56SCSMP07	SCMT 120404-SMP	2125	○	●						
B1S56SCSMP08	SCMT 120408-SMP	2125	○	●						

SCGT
AFP
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	1,00 - 1,50 - 2,50
B1S57SCAFP05	SCGT 09T304FN-AFP	NL10			○	●	○		Feed rate mm/rev	0,10 - 0,18 - 0,25
B1S57SCAFP06	SCGT 09T308FN-AFP	NL10			○	●	○			

TURNING POSITIVE INSERTS - S SHAPE

SCMT
PS
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,50 - 1,50 - 2,50
B1S11SCPS016	SCMT 120404-PS	T9215	●	○	○				Feed rate mm/rev	0,08 - 0,18 - 0,30
B1S11SCPS017	SCMT 120404-PS	T9225	●	○	○					
B1S11SCPS020	SCMT 120404-PS	T6215		●						
B1S11SCPS021	SCMT 120404-PS	AH6225		●						
B1S11SCPS009	SCMT 120404-PS	AH725	●	●	●		●	●		
B1S11SCPS015	SCMT 120408-PS	T9215	●	○	○					
B1S11SCPS018	SCMT 120408-PS	T9225	●	○	○					
B1S11SCPS022	SCMT 120408-PS	T6215		●						
B1S11SCPS023	SCMT 120408-PS	AH6225		●						
B1S11SCPS014	SCMT 120408-PS	AH725	●	●	●		●	●		

SCMT
PM
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	1,00 - 2,00 - 3,00
B1S12SCPM007	SCMT 120408-PM	AH725	●	●	●		●	●	Feed rate mm/rev	0,15 - 0,20 - 0,30
B1S12SCPM009	SCMT 120412-PM	AH725	●	●	●		●	●		
B1S12SCPM010	SCMT 120408-PM	T9215	●	○	○					
B1S12SCPM015	SCMT 120408-PM	T6215		●						
B1S12SCPM016	SCMT 120408-PM	AH6225		●						

TURNING POSITIVE INSERTS - T SHAPE

TCGT
FFP
Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H	Depth	0,20 - 0,50 - 1,80
B1T55TCFFP05	TCGT 110202-FFP	1010	●	●	○				Feed rate mm/rev	0,05 - 0,12 - 0,20
B1T55TCFFP06	TCGT 110204-FFP	1010	●	●	○					

GEOMETRY AND CUTTING CONDITIONS

KERFOLG

TCMT CMP
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1T56TCCMP10	TCMT 110204-CMP	4125	●	○				
B1T56TCCMP11	TCMT 110204-CMP	4135	●	○				
B1T56TCCMP12	TCMT 16T304-CMP	4125	●	○				
B1T56TCCMP13	TCMT 16T304-CMP	4135	●	○				

Depth	1,00 - 1,50 - 2,50
Feed rate mm/rev	0,12 - 0,16 - 0,21

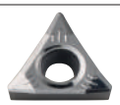
TCMT SMP
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1T57TCSMP10	TCMT 110204-SMP	2125	○	●				
B1T57TCSMP11	TCMT 16T304-SMP	2125	○	●				
B1T57TCSMP12	TCMT 16T308-SMP	2125	○	●				
B1T57TCSMP13	TCMT 110204-SMP	2135		●			●	
B1T57TCSMP14	TCMT 1102008-SMP	2125	○	●				
B1T57TCSMP15	TCMT 1102008-SMP	2135		●			●	
B1T57TCSMP16	TCMT 16T312-SMP	2125	○	●				

Depth	1,00 - 1,50 - 2,50
Feed rate mm/rev	0,12 - 0,16 - 0,21

TCGT AFP
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1T58TCAFP05	TCGT 110204FN-AFP	NL10			○	●	○	
B1T58TCAFP06	TCGT 16T304FN-AFP	NL10			○	●	○	
B1T58TCAFP07	TCGT 16T308FN-AFP	NL10			○	●	○	

Depth	1,00 - 1,50 - 2,50
Feed rate mm/rev	0,10 - 0,18 - 0,25

TURNING POSITIVE INSERTS - T SHAPE

Tungaloy

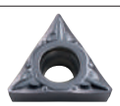
TCMT PSF
Finishing



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1T11TCPSF010	TCMT 110202-PSF	AH725	●	●	●		●	●
B1T11TCPSF011	TCMT 110204-PSF	AH725	●	●	●		●	●
B1T11TCPSF016	TCMT 110204-PSF	T9215	●	○	○			
B1T11TCPSF017	TCMT 16T304-PSF	T9215	●	○	○			
B1T11TCPSF020	TCMT 16T304-PSF	AH725	●	●	●		●	●
B1T11TCPSF021	TCMT 16T304-PSF	T9225	●	○	○			

Depth	0,10 - 0,30 - 0,50
Feed rate mm/rev	0,05 - 0,15 - 0,30

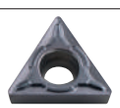
TCMT PSS
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1T12TCPSS010	TCMT 110204-PSS	AH725	●	●	●		●	●
B1T12TCPSS020	TCMT 16T304-PSS	AH725	●	●	●		●	●
B1T12TCPSS027	TCMT 16T308-PSS	AH725	●	●	●		●	●
B1T12TCPSS028	TCMT 16T304-PSS	T9215	●	○	○			
B1T12TCPSS029	TCMT 110204-PSS	T9215	●	○	○			
B1T12TCPSS030	TCMT 16T308-PSS	T9215	●	○	○			

Depth	0,50 - 1,50 - 2,50
Feed rate mm/rev	0,08 - 0,15 - 0,30

TCMT PM
Medium cutting



Tech. Code	Denomination	Grade	CUTTING DATA P	M	K	N	S	H
B1T21TCPM005	TCMT 110202-PM	AH725	●	●	●		●	●
B1T21TCPM010	TCMT 110204-PM	AH725	●	●	●		●	●
B1T21TCPM019	TCMT 16T312-PM	AH725	●	●	●		●	●
B1T21TCPM020	TCMT 16T304-PM	AH725	●	●	●		●	●
B1T21TCPM022	TCMT 16T308-PM	T9215	●	○	○			
B1T21TCPM023	TCMT 16T308-PM	AH725	●	●	●		●	●
B1T21TCPM024	TCMT 110204-PM	T9215	●	○	○			
B1T21TCPM025	TCMT 16T304-PM	T9215	●	○	○			
B1T21TCPM026	TCMT 16T308-PM	T9225	●	○	○			
B1T21TCPM028	TCMT 16T304-PM	T9225	●	○	○			
B1T21TCPM029	TCMT 16T312-PM	T9225	●	○	○			
B1T21TCPM030	TCMT 110204-PM	T6215		●				
B1T21TCPM031	TCMT 110204-PM	AH6225		●				
B1T21TCPM032	TCMT 16T304-PM	T6215		●				
B1T21TCPM033	TCMT 16T308-PM	T6215		●				
B1T21TCPM034	TCMT 16T308-PM	AH6225		●				
B1T21TCPM035	TCMT 16T312-PM	AH6225		●				

Depth	1,00 - 2,00 - 3,00
Feed rate mm/rev	0,15 - 0,20 - 0,30

KERFOLG

VBMT CMP Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,50 - 1,50 - 2,50
B1V59VBCMP12	VBMT 160404-CMP	4115	●	●					Feed rate mm/rev	0,12 - 0,16 - 0,21
B1V59VBCMP10	VBMT 160404-CMP	4125	●	●						
B1V59VBCMP11	VBMT 160408-CMP	4125	●	●						

TURNING POSITIVE INSERTS - V SHAPE

Tungaloy

VBMT PSF Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,10 - 0,30 - 0,50
B1V11VBPSF005	VBMT 160402-PSF	AH725	●	●	●		●	●	Feed rate mm/rev	0,05 - 0,15 - 0,30
B1V11VBPSF006	VBMT 160404-PSF	AH725	●	●	●		●	●		
B1V11VBPSF009	VBMT 160404-PSF	T9215	●	○	○					

VBMT PSS Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,50 - 1,50 - 2,50
B1V12VBPSS005	VBMT 160404-PSS	AH725	●	○	○		●	●	Feed rate mm/rev	0,08 - 0,15 - 0,30
B1V12VBPSS016	VBMT 160404-PSS	T9215	●	○	○					
B1V12VBPSS017	VBMT 160404-PSS	T6215		●						
B1V12VBPSS018	VBMT 160404-PSS	AH6225		●						
B1V12VBPSS010	VBMT 160408-PSS	AH725	●	●	●		●	●		
B1V12VBPSS015	VBMT 160408-PSS	T9215	●	○	○					
B1V12VBPSS019	VBMT 160408-PSS	T6215		●						
B1V12VBPSS020	VBMT 160408-PSS	AH6225		●						

TURNING POSITIVE INSERTS - V SHAPE

KERFOLG

VCMT CFP Finishing



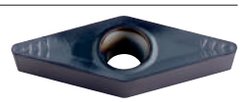
Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,50 - 1,50 - 2,20
B1V55VCCFP10	VCMT 160404-CFP	4125	●	○					Feed rate mm/rev	0,07 - 0,10 - 0,14
B1V55VCCFP11	VCMT 160408-CFP	4125	●	○						

VCMT CMP Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,00 - 1,50 - 2,50
B1V60VCCMP17	VCMT 110304-CMP	4125	●	○					Feed rate mm/rev	0,12 - 0,16 - 0,21
B1V60VCCMP14	VCMT 110304-CMP	4135	●	○						
B1V60VCCMP15	VCMT 110308-CMP	4125	●	○						
B1V60VCCMP16	VCMT 110308-CMP	4135	●	○						
B1V60VCCMP10	VCMT 160404-CMP	4125	●	○						
B1V60VCCMP11	VCMT 160404-CMP	4135	●	○						
B1V60VCCMP12	VCMT 160408-CMP	4125	●	○						
B1V60VCCMP13	VCMT 160408-CMP	4135	●	○						

VCMT SMP Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,00 - 1,50 - 2,50
B1V61VCSMP12	VCMT 110204-SMP	2125	○	●					Feed rate mm/rev	0,12 - 0,16 - 0,21
B1V61VCSMP13	VCMT 110204-SMP	2135		●			●			
B1V61VCSMP14	VCMT 110208-SMP	2125	○	●						
B1V61VCSMP15	VCMT 110208-SMP	2135		●			●			
B1V61VCSMP10	VCMT 160404-SMP	2125	○	●						
B1V61VCSMP11	VCMT 160408-SMP	2125	○	●						

VCGT AFP Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	1,00 - 1,50 - 2,50
B1V62VCAFP12	VCGT 110302FN-AFP	NL10			○	●	○		Feed rate mm/rev	0,10 - 0,18 - 0,25
B1V62VCAFP13	VCGT 110304FN-AFP	NL10			○	●	○			
B1V62VCAFP10	VCGT 160404FN-AFP	NL10			○	●	○			
B1V62VCAFP11	VCGT 160408FN-AFP	NL10			○	●	○			
B1V62VCAFP14	VCGT 110312FN-AFP	NL10			○	●	○			

TURNING POSITIVE INSERTS - V SHAPE

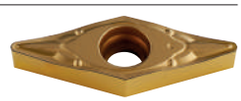
Tungaloy

VCMT PSF Finishing



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,10 - 0,30 - 0,50
B1V20VCPSF005	VCMT 160404-PSF	AH725	●	●	●		●	●	Feed rate mm/rev	0,12 - 0,16 - 0,21
B1V20VCPSF012	VCMT 160404-PSF	T9215	●	○	○					
B1V20VCPSF008	VCMT 160408-PSF	AH725	●	●	●		●	●		
B1V20VCPSF011	VCMT 160408-PSF	T9215	●	○	○					

VCMT PSS Medium cutting



Tech. Code	Denomination	Grade	P	M	K	N	S	H	Depth	0,50 - 1,50 - 2,50
B1V21VCPSS005	VCMT 160404-PSS	AH725	●	●	●		●	●	Feed rate mm/rev	0,08 - 0,15 - 0,30
B1V21VCPSS013	VCMT 160404-PSS	T9215	●	○	○					
B1V21VCPSS017	VCMT 160404-PSS	T9225	●	○	○					
B1V21VCPSS020	VCMT 160404-PSS	T6215		●						
B1V21VCPSS021	VCMT 160404-PSS	AH6225		●						
B1V21VCPSS009	VCMT 160408-PSS	AH725	●	●	●		●	●		
B1V21VCPSS014	VCMT 160408-PSS	T9215	●	○	○					
B1V21VCPSS018	VCMT 160408-PSS	T9225	●	○	○					
B1V21VCPSS022	VCMT 160408-PSS	T6215		●						

Link partner

Member IMC Group Tungaloy



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TOOLHOLDERS FOR GROOVING AND CUTTING

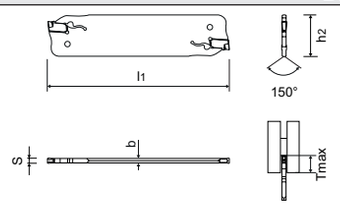
KERFOLG

SCN...

ITEM: B2U25

Type SCN...
Dimension 3 - 4 mm
Clamping system Flexible
Application Grooving and parting

BN... SCN

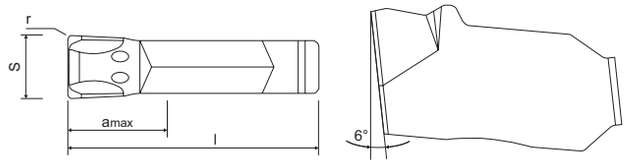




Tech. Code	Description	h2 mm	b mm	s mm	l1 mm	Tmax mm	SPARE PARTS Inserts	SPARE PARTS Wrench
B2U2526N03	BN3-26 SCN	26	2,4	3	110	35	SCN 3...	BRICA215
B2U2526N04	BN4-26 SCN	26	3,2	4	110	40	SCN 4...	BRICA215
B2U2532N03	BN3-32 SCN	32	2,4	3	150	50	SCN 3...	BRICA215
B2U2532N04	BN4-32 SCN	32	3,2	4	150	50	SCN 4...	BRICA215

INSERTS FOR GROOVING AND PARTING - SINGLE SIDE

KERFOLG



		Description	Degree	Tech. Code	s mm	a max mm	l mm	r mm	Tool Holders
PARTING	G1	SCN 3.00-0.20-G1	G135	B2T2503G101	3	-	11,3	0,2	BN3...SCN
		SCN 3.00-0.20-G1	G145	B2T2503G102	3	-	11,3	0,2	BN3...SCN
		SCN 4.00-0.30-G1	G135	B2T2504G101	4	-	13,3	0,3	BN4...SCN
		SCN 4.00-0.30-G1	G145	B2T2504G102	4	-	13,3	0,3	BN4...SCN
	G2	SCN 3.00-0.30-G2	G135	B2T2603G201	3	2,0	11,3	0,3	BN3...SCN
		SCN 3.00-0.30-G2	G145	B2T2603G202	3	2,0	11,3	0,3	BN3...SCN
		SCN 4.00-0.40-G2	G135	B2T2604G201	4	2,5	13,3	0,4	BN4...SCN
		SCN 4.00-0.40-G2	G145	B2T2604G202	4	2,5	13,3	0,4	BN4...SCN
	S1	SCN 3.00-0.30-S1	G010	B2T2703S101	3	2,5	11,3	0,3	BN3...SCN
		SCN 4.00-0.40-S1	G010	B2T2704S101	4	3,0	13,3	0,4	BN4...SCN

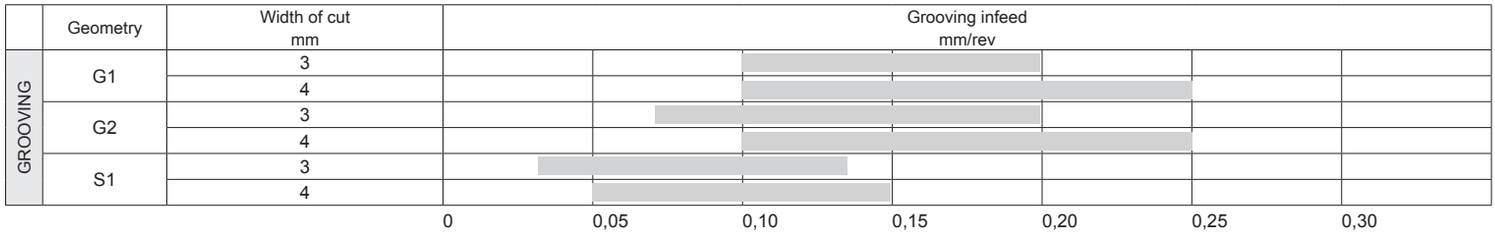
RECOMMENDED CUTTING CONDITIONS

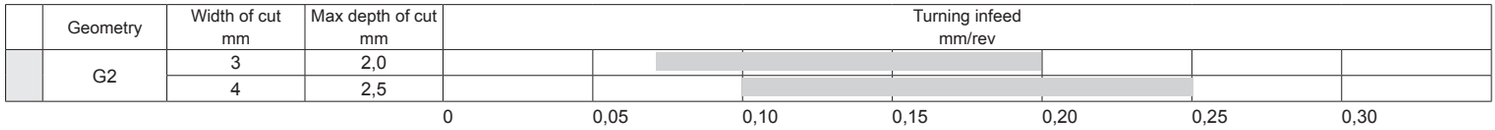
KERFOLG

Degree	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
G135	110 - 190	110 - 180	70 - 160			90 - 180	80 - 150			
G145	80 - 150	70 - 120	60 - 110	70 - 120	50 - 100				25 - 50	
G010								200 - 2000		

Geometry for grooving and parting.	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
G1 - First choice in parting steels and cast irons.	○	●	●	○		●	●			
G2 - Soft cut. First choice in case of varying materials.	●	●	○	●	●	○	○		●	
S1 - Very sharp geometry. For aluminum alloys.								●		

● RECOMMENDED FOR... ○ USABLE FOR…





TOOLHOLDERS FOR PARTING, GROOVING AND TURNING

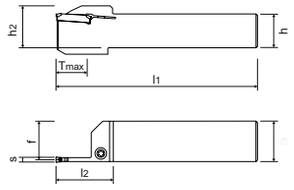
KERFOLG

DGN...

ITEM: B2U30

Type DGN22..
Dimension 2 - 3 mm
Clamping system Screw
Application Grooving, parting and turning

TGE...-DGN

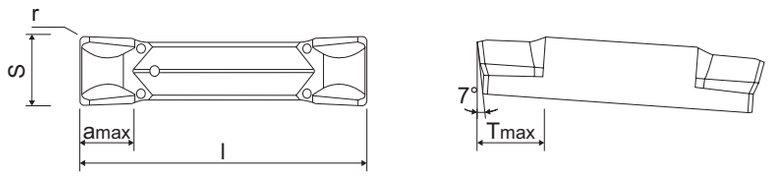




Tech. Code	Description	h mm	b mm	s mm	Tmax mm	h2 mm	l1 mm	l2 mm	l3 mm	f mm	a mm	SPARE PARTS Inserts	Insert screw	Wrench
B2U3016L1202	TGE16L-DGN2202-12	16	16	2	12	25	125	35	24	15,3	4	DGN22...2	BRICA 217	BRICA 219
B2U3016R1202	TGE16R-DGN2202-12	16	16	2	12	25	125	35	24	15,3	4	DGN22...2	BRICA 217	BRICA 219
B2U3020L1202	TGE20L-DGN2202-12	20	20	2	12	25	125	35	-	19,3	-	DGN22...2	BRICA 217	BRICA 219
B2U3020R1202	TGE20R-DGN2202-12	20	20	2	12	25	125	35	-	19,3	-	DGN22...2	BRICA 217	BRICA 219
B2U3020L2103	TGE20L-DGN2203-21	20	20	3	21	25	125	35	-	18,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3020R2103	TGE20R-DGN2203-21	20	20	3	21	25	125	35	-	18,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3020L1203	TGE20L-DGN2203-12	20	20	3	12	25	125	35	-	18,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3020R1203	TGE20R-DGN2203-12	20	20	3	12	25	125	35	-	18,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3025L1203	TGE25L-DGN2203-12	25	25	3	12	30	125	35	-	23,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3025R1203	TGE25R-DGN2203-12	25	25	3	12	30	125	35	-	23,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3025L2103	TGE25L-DGN2203-21	25	25	3	21	30	125	35	-	23,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3025R2103	TGE25R-DGN2203-21	25	25	3	21	30	125	35	-	23,8	-	DGN22...3	BRICA 217	BRICA 219

INSERTS FOR PARTING, GROOVING AND TURNING - DOUBLE SIDE

KERFOLG



			Description	Degree	Tech. Code	s mm	a max mm	l mm	r mm	T max mm	Tool Holders
GROOVING	G1		DGN22 2.00-0.20-G1	G240	**B2T3002G102**	2	2,5	22	0,2	20	TGE...22
			DGN22 2.00-0.20-G1	G145	**B2T3002G103**	2	2,5	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G1	G135	**B2T3003G101**	3	2,5	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G1	G240	**B2T3003G102**	3	2,5	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G1	G145	**B2T3003G103**	3	2,5	22	0,2	20	TGE...22
	G01		DGN22 2.00-0.20-G01	G135	**B2T3102G0101**	2	-	22	0,2	20	TGE...22
			DGN22 2.00-0.20-G01	G240	**B2T3102G0102**	2	-	22	0,2	20	TGE...22
			DGN22 2.00-0.20-G01	G145	**B2T3102G0103**	2	-	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G01	G240	**B2T3103G0102**	3	-	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G01	G145	**B2T3103G0103**	3	-	22	0,2	20	TGE...22
	S01		DGN22 2.00-0.20-S01	G145	**B2T3202S0101**	2	-	22	0,2	20	TGE...22
			DGN22 2.00-0.20-S01	G245	**B2T3202S0102**	2	-	22	0,3	20	TGE...22
			DGN22 3.00-0.20-S01	G145	**B2T3203S0101**	3	-	22	0,3	20	TGE...22
			DGN22 3.00-0.20-S01	G240	**B2T3203S0102**	3	-	22	0,3	20	TGE...22
TURNING	MD1		DGN22 2.00-0.20-MD1	G240	**B2T3302MD101**	2	-	22	0,2	20	TGE...22
			DGN22 3.00-0.30-MD1	G240	**B2T3303MD102**	3	-	22	0,3	20	TGE...22
							-				
	MP1		DGN22 2.00-1.00-MP1	G240	**B2T3402MP101**	2	-	22	1,0	20	TGE...22
			DGN22 3.00-1.50-MP1	G240	**B2T3403MP102**	3	-	22	1,5	20	TGE...22

TOOLHOLDERS FOR PARTING, GROOVING AND CUTTING SINGLE SIDE

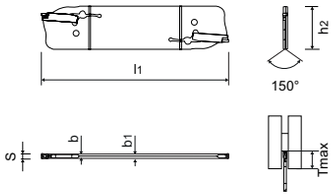
KERFOLG

SGN...

ITEM: B2U35

Type SGN22...
Dimension 2 mm
Clamping system Flexible
Application Grooving and parting

BL/R/N... SGN

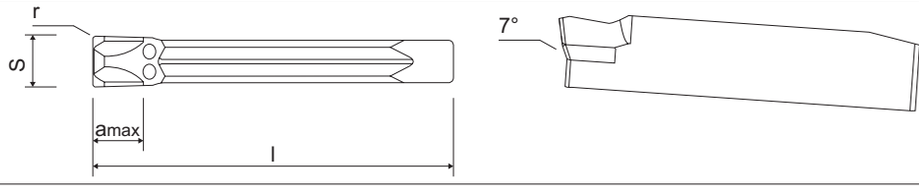




								SPARE PARTS	
Tech. Code	Description	h2 mm	b mm	b1 mm	s mm	l1 mm	Tmax mm	Inserts	Wrench
B2U3526R02	BR2-26 SGN	26	1,4	2,4	2	110	50	SGN22...2	BRICA 215
B2U3532L02	BL2-32 SGN	32	1,4	2,4	2	150	60	SGN22...2	BRICA 215
B2U3532R02	BR2-32 SGN	32	1,4	2,4	2	150	60	SGN22...2	BRICA 215
B2U3526N03	BN3-26 SGN	26	2,4	-	3	110	70	SGN22...3	BRICA 215
B2U3532N03	BN3-32 SGN	32	2,4	-	3	150	100	SGN22...3	BRICA 215

INSERTS FOR GROOVING AND PARTING - SINGLE SIDE

KERFOLG



			Description	Degree	Tech. Code	s mm	a max mm	l mm	r mm	Tool Holders
GROOVING	G1		SGN22 2.00-0.20-G1	G240	**B2T3502G102**	2	2,5	21,35	0,2	BL2... BR2...
			SGN22 2.00-0.20-G1	G145	**B2T3502G103**	2	2,5	21,35	0,2	BL2... BR2...
			SGN22 3.00-0.30-G1	G240	**B2T3503G102**	3	2,5	21,35	0,2	BN3...

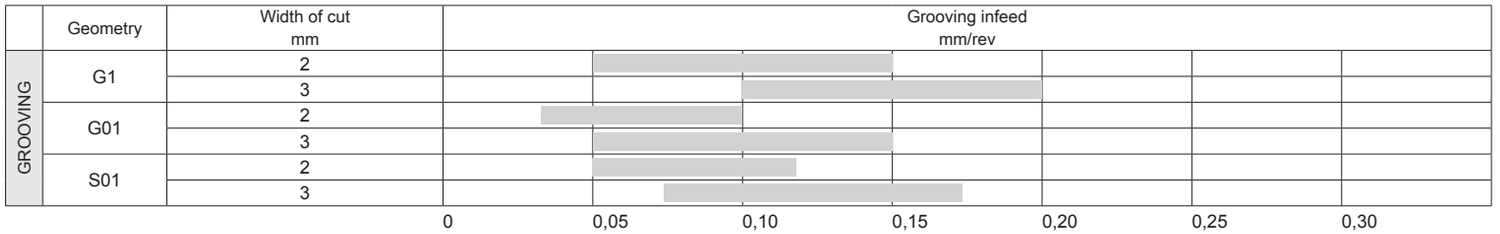
RECOMMENDED CUTTING CONDITIONS

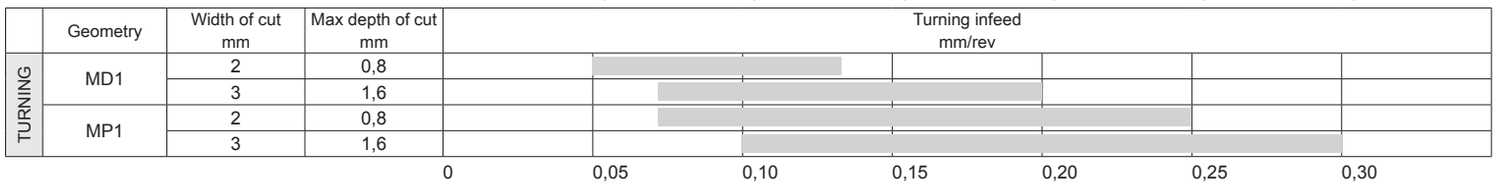
KERFOLG

	P			M		K		N	S	H
Degree	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
G135	110 - 190	110 - 180	70 - 160			90 - 180	80 - 150			
G145	80 - 150	70 - 120	60 - 100	70 - 120	50 - 100				25 - 50	
G240	80 - 180	60 - 150	50 - 120	50 - 160	50 - 100	100 - 200	100 - 180			

Geometry for grooving, parting and turning	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
G1 - Tough cut. First choice on steels and cast irons.	○	●	●	○		●	●			
G01 - Soft cut. First choice in case of varying materials.	●	●	○	●	○	○	○		○	
S01 - Soft cut expecially for stainless and Titanium alloy.	○	○	●	●	●				●	
MD1 - Grooving and turning on steels and stailness.	●	●	●	●	●	●	○		○	
MP1 - Radius grooves and copy turning.	○	●	●	●	○	●	●		○	

● RECOMMENDED FOR... ○ USABLE FOR…





TOOLHOLDERS FOR PARTING,GROOVING AND TURNING

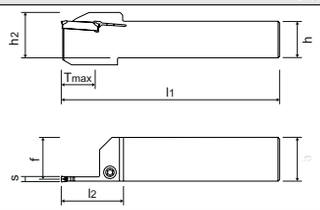
KERFOLG

DGN...

ITEM: B2U32

Type DGN25...
Dimension 4 - 5 - 6 mm
Clamping system Screw
Application Grooving, cut off and turning

TGE..DGN25..

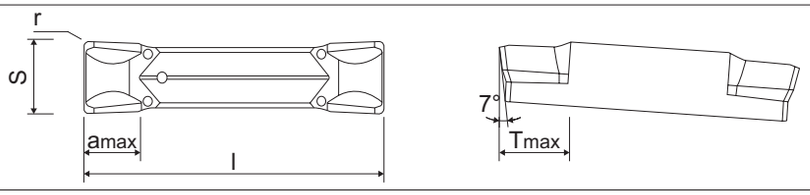




Tech. Code	Description	h mm	b mm	s mm	Tmax mm	h2 mm	l1 mm	l2 mm	f mm	SPARE PARTS Inserts	Insert screw	Wrench
B2U3220R2104	TGE20R-DGN2504-21	20	20	4	21	30	125	35	18,5	DGN25...4	BRICA 217	BRICA 219
B2U3225L2104	TGE25L-DGN2504-21	25	25	4	21	30	125	35	23,5	DGN25...4	BRICA 217	BRICA 219
B2U3225R2104	TGE25R-DGN2504-21	25	25	4	21	30	125	35	23,5	DGN25...4	BRICA 217	BRICA 219

INSERTS FOR DEEP GROOVING AND PARTING - DOUBLE SIDE

KERFOLG



			Description	Degree	Tech. Code	s mm	a max mm	l mm	r mm	T max mm	Tool Holders
GROOVING	G1		DGN25 4.00-0.30-G1	G135	**B2T4004G101**	4	3	25	0,3	23	TGE...
			DGN25 4.00-0.30-G1	G240	**B2T4004G102**	4	3	25	0,3	23	TGE...
	G01		DGN25 4.00-0.30-G01	G135	**B2T4104G0101**	4	-	25	0,3	23	TGE...
			DGN25 4.00-0.30-G01	G240	**B2T4104G0102**	4	-	25	0,3	23	TGE...
			DGN25 4.00-0.30-G01	G145	**B2T4104G0103**	4	-	25	0,3	23	TGE...
	S01		DGN25 4.00-0.40-S01	G145	**B2T4204S0101**	4	-	25	0,4	23	TGE...
			DGN25 4.00-0.40-S01	G240	**B2T4204S0102**	4	-	25	0,4	23	TGE...
TURNING	MD1		DGN25 4.00-0.40-MD1	G240	**B2T4304MD101**	4	3	25	0,4	23	TGE...
	MP1		DGN25 4.00-2.00-MP1	G240	**B2T4404MP101**	4	2,5	25	2,0	23	TGE...

Related products

WODEX FLAGDRIVERS FOR TORX® SCREWS

Tech. Code	○
E355006	T6
E355007	T7
E355008	T8
E355009	T9



Product available in Chap. E

DEEP GROOVING AND PARTING BLADES - SINGLE SIDE

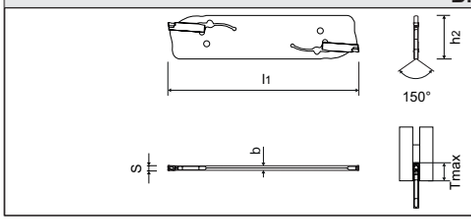
KERFOLG

SGN...

ITEM: B2U45

Type SGN25...
Dimension 4 mm
Clamping system Flexible
Application Grooving and parting off

BN...SGN

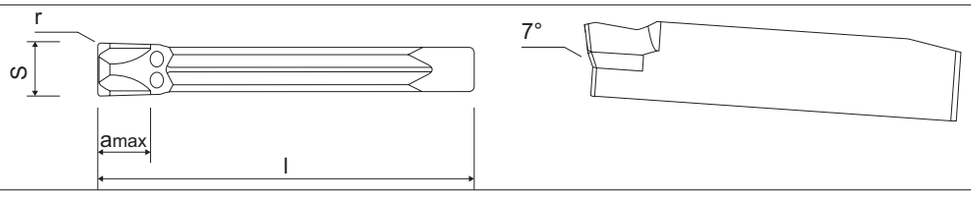




Tech. Code	Description	h2 mm	b mm	s mm	l1 mm	T max mm	SPARE PARTS Inserts	SPARE PARTS Wrench
B2U4532N04	BN4-32-SGN	32	2.4	4	150	50	SGN25...4	BRICA215

INSERTS FOR GROOVING AND PARTING - SINGLE SIDE

KERFOLG



		Description	Degree	Tech. Code	s mm	a max mm	l mm	r mm	Tool Holders
G1		SGN25 4.00-0.30-G1	G135	B2T4504G101	4	3	24,3	0,3	BN4...
		SGN25 4.00-0.30-G1	G240	B2T4504G102	4	3	24,3	0,3	BN4...
		SGN25 4.00-0.30-G1	G145	B2T4504G103	4	3	24,3	0,3	BN4...

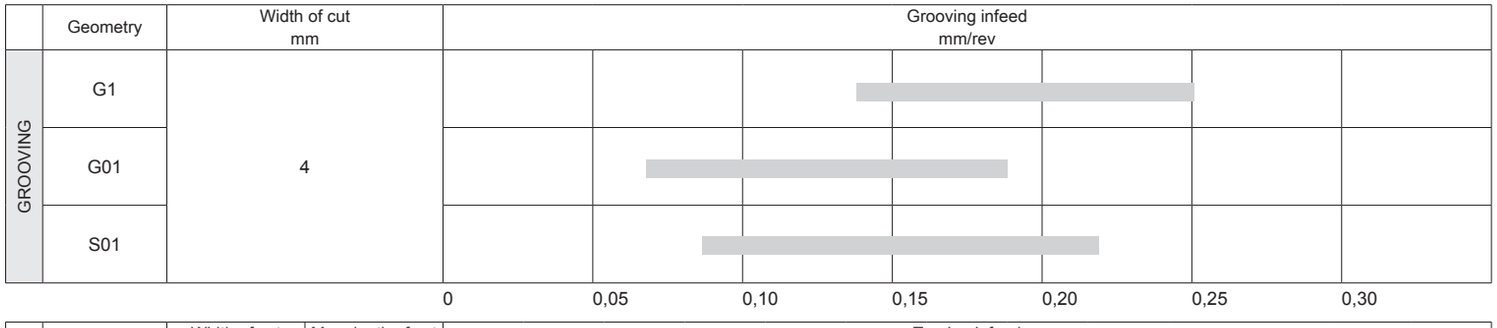
RECOMMENDED CUTTING CONDITIONS

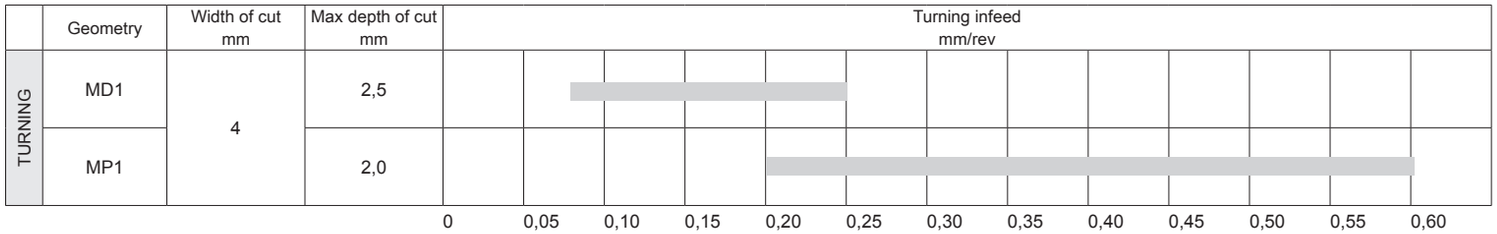
KERFOLG

Degree	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
G135	110 - 190	110 - 180	70 - 160			90 - 180	80 - 150			
G145	80 - 150	70 - 120	60 - 100	70 - 120	50 - 100				25 - 50	
G240	80 - 180	60 - 150	50 - 120	50 - 160	50 - 100	100 - 200	100 - 180			

Geometry for grooving, parting off and turning	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
G1 - Tough cut. First choise on steels and cast irons.	○	●	●	○		●	●			
G01 - Soft cut. First choice in case of varying materials.	●	●	○	●	○	○	○		○	
S01 - Soft cut expecially for stainless and Titanium alloy.	○	○		●	●				●	
MD1 - Grooving and turning on steels and stailness.	●	●	●	●	●	●	○		○	
MP1 - Radius grooves and copy turning.	○	●	●	●	○	●	●		○	

● RECOMMENDED FOR... ○ USABLE FOR…





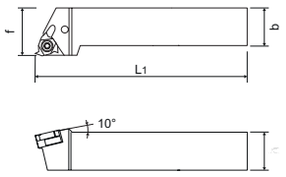
TOOLHOLDERS FOR EXTERNAL THREADING

16E-I...

ITEM: B2U10

Material Steel
Clamping system S (Screw)
Application External threading

SER



							SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L1 mm	Inserts	Insert screw	AE Shim	AI Shim	Shim screw
B2U101616H16	SER 1616 H16	16	16	20	100	16ER/L...	BRICA067	BRICA069	-	BRICA068
B2U102020K16	SER 2020 K16	20	20	25	125	16ER/L...	BRICA067	BRICA069	-	BRICA068
B2U102525M16	SER 2525 M16	25	25	32	150	16ER/L...	BRICA067	BRICA069	-	BRICA068
B2U103232P16	SER 3232 P16	32	32	40	170	16ER/L...	BRICA067	BRICA069	-	BRICA068

EXTERNAL THREADING INSERTS KITS

Kit for external threading composed of 10 inserts and a tool holder.

Tech. Code	Description	Pieces
B2U10SET	1 pce SER2525M16 1pce 16ER 0.75 - 1 - 1.25 - 1.50 - 1.75 - 2 - 2.50 - 3 - AG55 - AG60	11

- Standard shim for lead angle 1.5°



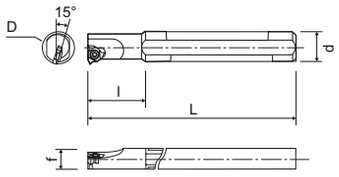
TOOLHOLDERS FOR INTERNAL THREADING

16E-I...

ITEM: B2U20

Material Steel
Clamping system S (Screw)
Application Internal threading

SIR



								SPARE PARTS INCLUDED			
Tech. Code	Description	D mm	f mm	d mm	l mm	L mm	Inserts	Insert screw	AE Shim	AI Shim	Shim screw
B2U2013M16	SIR 0013 M16	16	10.2	16	32	150	16ER/L...	BRICA067	-	BRICA070	BRICA068
B2U2016P16	SIR 0016 P16	19	11.7	20	40	170	16ER/L...	BRICA067	-	BRICA070	BRICA068
B2U2020P16	SIR 0020 P16	24	13.7	20	-	170	16ER/L...	BRICA067	-	BRICA070	BRICA068
B2U2025R16	SIR 0025 R16	29	16.2	25	-	200	16ER/L...	BRICA067	-	BRICA070	BRICA068
B2U2025R22	SIR 0025 R22	29	18.1	25	-	200	22ER/L...	BRICA071	-	BRICA074	BRICA072

INTERNAL THREADING INSERTS KITS

Kit for internal threading composed of 10 inserts and a tool holder.

Tech. Code	Description	Pieces
B2U20SET	1 pce SIR0020P16 2 pcs 16IR 1.5 - 2 - 3 - 11W - AG60	11

- Standard shim for lead angle 1.5°



INSERTS FOR EXTERNAL THREADING

			Description	Grade	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
ISO 60°			16ER 0,5 ISO	BH	B2IE1ISO160,5	180	130	80	130	80	200	110	250	40	30
			16ER 0,75 ISO		B2IE1ISO160,7	180	130	80	130	80	200	110	250	40	30
			16ER 1.0 ISO		B2IE1ISO161	180	130	80	130	80	200	110	250	40	30
			16ER 1,25 ISO		B2IE1ISO161,2	180	130	80	130	80	200	110	250	40	30
			16ER 1,5 ISO		B2IE1ISO161,5	180	130	80	130	80	200	110	250	40	30
			16ER 1,75 ISO		B2IE1ISO161,7	180	130	80	130	80	200	110	250	40	30
			16ER 2.0 ISO		B2IE1ISO162	180	130	80	130	80	200	110	250	40	30
			16ER 2,5 ISO		B2IE1ISO162,5	180	130	80	130	80	200	110	250	40	30
			16ER 3.0 ISO		B2IE1ISO163	180	130	80	130	80	200	110	250	40	30
			16ER AG60		B2IE116AG60	180	130	80	130	80	200	110	250	40	30
W 55°			16ER 14W		B2IE216W14	180	130	80	130	80	200	110	250	40	30
			16ER 11W		B2IE216W11	180	130	80	130	80	200	110	250	40	30
			16ER AG55		B2IE216AG55	180	130	80	130	80	200	110	250	40	30

INSERTS FOR INTERNAL THREADING

			Description	Grade	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
ISO 60°			16IR 1.0 ISO	BH	B2II1ISO161	180	130	80	130	80	200	110	250	40	30
			16IR 1,5 ISO		B2II1ISO161,5	180	130	80	130	80	200	110	250	40	30
			16IR 2.0 ISO		B2II1ISO162	180	130	80	130	80	200	110	250	40	30
			16IR 2,5 ISO		B2II1ISO162,5	180	130	80	130	80	200	110	250	40	30
			16IR 3.0 ISO		B2II1ISO163	180	130	80	130	80	200	110	250	40	30
			16IR AG60		B2II216AG60	180	130	80	130	80	200	110	250	40	30
W 55°			16IR 14W		B2II216W14	180	130	80	130	80	200	110	250	40	30
			16IR 11W		B2II216W11	180	130	80	130	80	200	110	250	40	30
			16IR AG55		B2II116AG55	180	130	80	130	80	200	110	250	40	30

THREADING INSERTS KIT

Tech. Code	Description	Grade	Pieces
B2IES16ES	10 inserts 16ER P 1-3 kit	FC	10
B2IES16IN	10 inserts 16IR P 1-3 kit	BH	10





EXTERNAL GROOVING TOOLHOLDERS TRIANGOLAR INSERTS

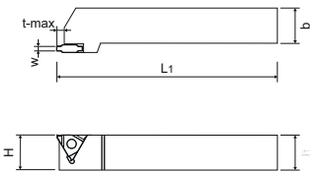
KERFOLG

SG...

ITEM: B2U50

Material Steel
Clamping system S (Screw)
Application External Cir-clip grooves
External slots

CGER/L



Tech. Code	Description	b mm	h mm	H mm	L1 mm	W mm	t-max mm	Inserts	SPARE PARTS INCLUDED Screw	Wrench
B2U50L2020	CESL 2020K 16	20	20	20	125	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U50L2525	CESL 2525M 16	25	25	25	150	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U50R2020	CESR 2020K 16	20	20	20	125	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U50R2525	CESR 2525M 16	25	25	25	150	1,25 - 3,35	3	SG16...	BRICA199	BRICA186

INTERNAL GROOVING TOOLHOLDERS TRIANGOLAR INSERTS

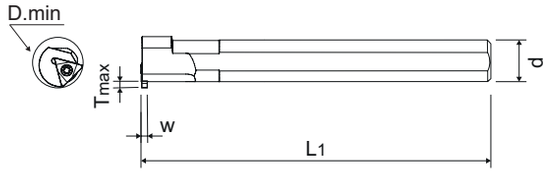
KERFOLG

SG...

ITEM: B2U51

Material Steel
Tipo di bloccaggio S (Screw)
Application Internal Cir-clip grooves
Internal slots

R/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	W mm	T-max mm	Inserts	SPARE PARTS INCLUDED Screw	Wrench
B2U51L16M16	CISL 0016M 16	20	16	10,8	150	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U51L20Q16	CISL 0020Q 16	25	20	13,0	180	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U51R16M16	CISR 0016M 16	23	16	10,8	150	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U51R20Q16	CISR 0020Q 16	25	20	11,0	180	1,25 - 3,35	3	SG16...	BRICA199	BRICA186

GROOVING INSERTS - SG16

KERFOLG

		Grade 4L35	Description	W mm	Tech. Code	Seeger thickness mm	Dep. max mm	Feed mm/rev	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MM		SG16 110 - MM	1,25	B2S16110	1,00	1,2	0,05 0,08 0,16	140	110	90	90	70	150	120		50	
			SG16 130 - MM	1,45	B2S16130	1,20	1,5		140	110	90	90	70	150	120		50	
			SG16 160 - MM	1,80	B2S16160	1,50	1,8		140	110	90	90	70	150	120		50	
			SG16 185 - MM	2,00	B2S16185	1,75	3		140	110	90	90	70	150	120		50	
			SG16 215 - MM	2,30	B2S16215	2,00			140	110	90	90	70	150	120		50	
			SG16 265 - MM	2,80	B2S16265	2,50			140	110	90	90	70	150	120		50	
			SG16 315 - MM	3,35	B2S16315	3,00			140	110	90	90	70	150	120		50	

GROOVING INSERTS SG16 SET

KERFOLG

ITEM: B2S16K

Tech. Code	Description	Grade	Pieces
B2S16KIT	Set of 10 inserts SG16 2pz 1,25 - 1,45 - 1,80 1pz 1,85 - 2,15 - 2,65 - 3,15	4L35	10

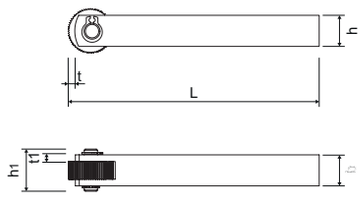


SINGLE FORM KNURLING HOLDERS FOR CONVENTIONAL LATHES

KERFOLG

ITEM: B2G01

Materiale Steel
Knurling profile RAA - RBL - RBR - RGE - RGV
Rotation DX + SX
Coupling 8 - 200 mm
Application Execution of form knurl





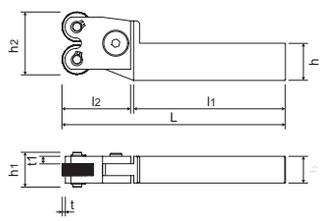
Tech. Code	L mm	b mm	h mm	h1 mm	T mm	t1 mm	KNURLING HOLDERS	mm
B2G01R01	113	14	14	19	3	3	AA - BL - BR - GV - GE	20 x 8 x 6

DOUBLE FORM KNURLING HOLDERS FOR CONVENTIONAL LATHES

KERFOLG

ITEM: B2G02

Materiale Steel
Knurling profile RAA - RGE30° - RGE45°
Rotation DX + SX
Coupling 8 - 200 mm
Application Execution of form knurl





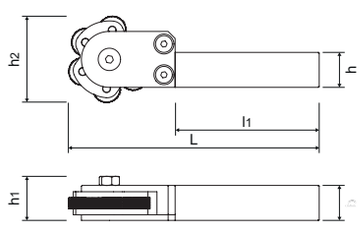
Tech. Code	L mm	b mm	h mm	h1 mm	h2 mm	l1 mm	l2 mm	T mm	t1 mm	Knurling wheels B2G...	mm
B2G02R02	150	18	25	24	46	102	46	2	5	AA - BL - BR	20 x 8 x 6

MULTIPLE FORM KNURLING HOLDERS FOR CONVENTIONAL LATHES

KERFOLG

ITEM: B2G03

Materiale Steel
Knurling profile RAA - RGE30° - RGE45°
Rotation DX + SX
Coupling 8 - 200 mm
Application Execution of form knurl





Tech. Code	L mm	b mm	h mm	h1 mm	h2 mm	l1 mm	KNURLING HOLDERS	mm
B2G03R06	181	25	25	30	62	103	AA - BL - BR	20 x 8 x 6

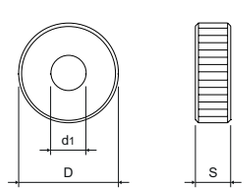
FORM KNURLING WHEELS - AA TYPE

KERFOLG

RAA

ITEM: B2G10

Material HSS + co
Knurling profile RAA





Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G10AA05	20	8	6	0°	0,5
B2G10AA06	20	8	6	0°	0,6
B2G10AA08	20	8	6	0°	0,8
B2G10AA10	20	8	6	0°	1,0

Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G10AA12	20	8	6	0°	1,2
B2G10AA15	20	8	6	0°	1,5
B2G10AA18	20	8	6	0°	1,8
B2G10AA20	20	8	6	0	2

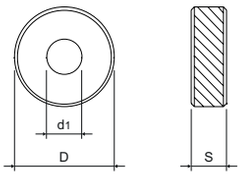
FORM KNURLING WHEELS - BR TYPE

KERFOLG

RBR

ITEM: B2G15 - B2G20

Material HSS + co
Knurling profile RBL





Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G15BR05	20	8	6	DX 30°	0,5
B2G15BR06	20	8	6	DX 30°	0,6
B2G15BR08	20	8	6	DX 30°	0,8
B2G15BR10	20	8	6	DX 30°	1,0
B2G15BR12	20	8	6	DX 30°	1,2
B2G15BR15	20	8	6	DX 30°	1,5
B2G15BR18	20	8	6	DX 30°	1,8
B2G15BR20	20	8	6	DX 30°	2,0

Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G20BR05	20	8	6	DX 45°	0,5
B2G20BR06	20	8	6	DX 45°	0,6
B2G20BR08	20	8	6	DX 45°	0,8
B2G20BR10	20	8	6	DX 45°	1,0
B2G20BR12	20	8	6	DX 45°	1,2
B2G20BR15	20	8	6	DX 45°	1,5
B2G20BR18	20	8	6	DX 45°	1,8
B2G20BR20	20	8	6	DX 45°	2,0

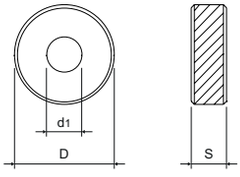
FORM KNURLING WHEELS - BL TYPE

KERFOLG

RBL

ITEM: B2G25 - B2G30

Material HSS + co
Knurling profile RBR





Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G25BL05	20	8	6	SX 30°	0,5
B2G25BL06	20	8	6	SX 30°	0,6
B2G25BL08	20	8	6	SX 30°	0,8
B2G25BL10	20	8	6	SX 30°	1,0
B2G25BL12	20	8	6	SX 30°	1,2
B2G25BL15	20	8	6	SX 30°	1,5
B2G25BL18	20	8	6	SX 30°	1,8
B2G25BL20	20	8	6	SX 30°	2,0

Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G30BL05	20	8	6	SX 45°	0,5
B2G30BL06	20	8	6	SX 45°	0,6
B2G30BL08	20	8	6	SX 45°	0,8
B2G30BL10	20	8	6	SX 45°	1,0
B2G30BL12	20	8	6	SX 45°	1,2
B2G30BL15	20	8	6	SX 45°	1,5
B2G30BL18	20	8	6	SX 45°	1,8
B2G30BL20	20	8	6	SX 45°	2,0

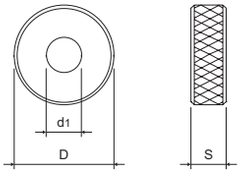
FORM KNURLING WHEELS - GV TYPE

KERFOLG

RGV

ITEM: B2G35 - B2G40

Material HSS + co
Knurling profile RGE





Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G35GV05	20	8	6	SX 30°	0,5
B2G35GV06	20	8	6	SX 30°	0,6
B2G35GV08	20	8	6	SX 30°	0,8
B2G35GV10	20	8	6	SX 30°	1,0
B2G35GV12	20	8	6	SX 30°	1,2
B2G35GV15	20	8	6	SX 30°	1,5
B2G35GV18	20	8	6	SX 30°	1,8
B2G35GV20	20	8	6	SX 30°	2,0

Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G40GV05	20	8	6	SX 45°	0,5
B2G40GV06	20	8	6	SX 45°	0,6
B2G40GV08	20	8	6	SX 45°	0,8
B2G40GV10	20	8	6	SX 45°	1,0
B2G40GV12	20	8	6	SX 45°	1,2
B2G40GV15	20	8	6	SX 45°	1,5
B2G40GV18	20	8	6	SX 45°	1,8
B2G40GV20	20	8	6	SX 45°	2,0

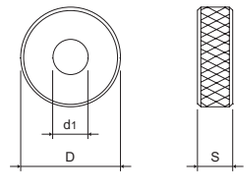
FORM KNURLING WHEELS - GE TYPE

KERFOLG

RGE

ITEM: B2G45 - B2G50

Material HSS + co
Knurling profile RGV





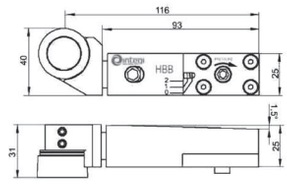
Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G45GE05	20	8	6	DX 30°	0,5
B2G45GE06	20	8	6	DX 30°	0,6
B2G45GE08	20	8	6	DX 30°	0,8
B2G45GE10	20	8	6	DX 30°	1,0
B2G45GE12	20	8	6	DX 30°	1,2
B2G45GE15	20	8	6	DX 30°	1,5
B2G45GE18	20	8	6	DX 30°	1,8
B2G45GE20	20	8	6	DX 30°	2,0

Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G50GE05	20	8	6	DX 45°	0,5
B2G50GE06	20	8	6	DX 45°	0,6
B2G50GE08	20	8	6	DX 45°	0,8
B2G50GE10	20	8	6	DX 45°	1,0
B2G50GE12	20	8	6	DX 45°	1,2
B2G50GE15	20	8	6	DX 45°	1,5
B2G50GE18	20	8	6	DX 45°	1,8
B2G50GE20	20	8	6	DX 45°	2,0

BURNISHING TOOLS

ITEM: B2R01

Tool designed for burnishing on lathes, also on various profiles. The roll is supported between both axial and radial bearings. The pressure of the head can be adjusted in order to obtain different levels of burnishing on the workpiece. Possibility of burnishing up to one face. Usable on pieces of different types of materials upto an hardness of 45 HRC. Provided with a B type burnishing roll made of HSS and tempered to 62 HRC, with a polished surface to Ra<0.4





Tech. Code	Sup. art.	Version	Roller	Weight kg
B2R013025L	HBB 30.25 L	L	30 x 13 x 20/17	0,8

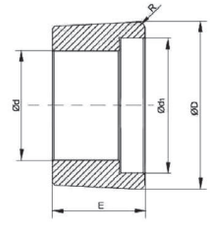
Tech. Code	Sup. art.	Version	Roller	Weight kg
B2R013025R	HBB 30.25 R	R	30 x 13 x 20/17	0,8

ROLLERS PROFILE B

ITEM: B2RB2

HSS rollers hardened to 62 HRC.
Polished surface Ra (0.15-0.40).

Tech. Code	Mod.	Profile	Ø D mm	E mm	Ø d mm	Ø d1 mm	R
B2RB2R10B3013	RB 30x13x20/17	B	30	13	17	20	0,1





EXTERNAL TURNING ISO 2 BRAZED TOOLS

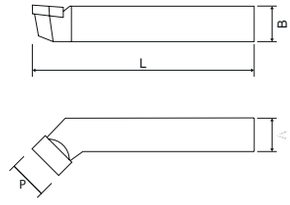
KERFOLG

ITEM: B2U90

45° Approach angle

DIN 4972
UNI 4103

Upon request, also available for left running
Minimum order quantity 5 pcs.





Tech. Code	A mm	B mm	L mm	P Carbide tip	Degree
B2U900808P	8	8	80	C6	P
B2U901010P	10	10	90	C8	P
B2U901212P	12	12	100	C10	P
B2U901616P	16	16	110	C12	P
B2U902020P	20	20	125	C16	P
B2U902525P	25	25	140	C20	P

Tech. Code	A mm	B mm	L mm	P Carbide tip	Degree
B2U903232P	32	32	170	C25	P
B2U900808K	8	8	80	C6	K
B2U901616K	16	16	110	C12	K
B2U902020K	20	20	125	C16	K
B2U902525K	25	25	140	C20	K

EXTERNAL TURNING ISO 6 BRAZED TOOLS

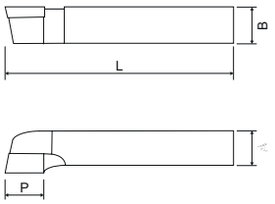
KERFOLG

ITEM: B2U91

90° Approach angle

DIN 4980
UNI 4104

Also available in left-hand execution on request.
Minimum order quantity 5 pieces.





Tech. Code	A mm	B mm	L mm	P Carbide tip	Degree
B2U910808P	8	8	80	C6	P
B2U911010P	10	10	90	C8	P
B2U911212P	12	12	100	C10	P
B2U911616P	16	16	110	C12	P
B2U912020P	20	20	125	C16	P
B2U912525P	25	25	140	C20	P
B2U913232P	32	32	170	C25	P

Tech. Code	A mm	B mm	L mm	P Carbide tip	Degree
B2U910808K	8	8	80	C6	K
B2U911010K	10	10	90	C8	K
B2U911212K	12	12	100	C10	K
B2U911616K	16	16	110	C12	K
B2U912020K	20	20	125	C16	K
B2U912525K	25	25	140	C20	K

EXTERNAL GROOVING ISO 7 BRAZED TOOLS

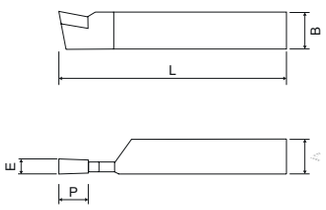
KERFOLG

ITEM: B2U92

0° Approach angle

DIN 4981
UNI 4100

Upon request, also available for left running
Minimum order quantity 5 pcs.





Tech. Code	B mm	A mm	L mm	E mm	P Carbide tip	Degree
B2U921006P	10	6	90	3	D3	P
B2U921208P	12	8	100	3	D3	P
B2U921610P	16	10	110	4	D4	P
B2U922012P	20	12	125	5	D5	P
B2U922516P	25	16	140	6	D6	P

Tech. Code	B mm	A mm	L mm	E mm	P Carbide tip	Degree
B2U923220P	32	20	170	8	D8	P
B2U921006K	10	6	90	3	D3	K
B2U921208K	12	8	100	3	D3	K
B2U921610K	16	10	110	4	D4	K
B2U922012K	20	12	125	5	D5	K

INTERNAL GROOVING ISO 354R BRAZED TOOLS

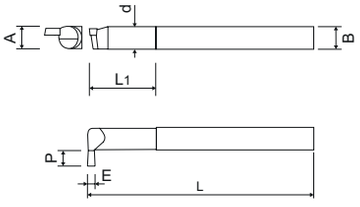
KERFOLG

ITEM: B2U95

0° Approach angle

DIN 4971
UNI 4102R

Upon request, also available for left running
Minimum order quantity 5 pcs.





Tech. Code	A mm	B mm	d mm	L mm	L1 mm	E mm	P Carbide tip	Degree
B2U951010P	10	10	10	140	52	3	D3	P
B2U951212P	12	12	12	160	56	4	D4	P
B2U951616P	16	16	16	180	63	5	D5	P

Tech. Code	A mm	B mm	d mm	L mm	L1 mm	E mm	P Carbide tip	Degree
B2U952020P	20	20	20	210	80	6	D6	P
B2U952525P	25	25	25	250	100	8	D8	P

INTERNAL TURNING ISO 9 BRAZED TOOLS

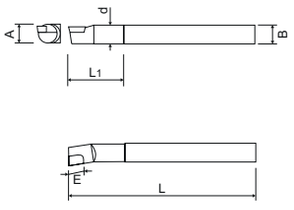
KERFOLG

ITEM: B2U96

75° Approach angle

DIN 4974
UNI 4111

Upon request, also available for left running
Minimum order quantity 5 pcs.





Tech. Code	A mm	B mm	d mm	L mm	L1 mm	P Carbide tip	Degree
B2U960808P	8	8	8	125	40	A5	P
B2U961010P	10	10	10	150	50	A6	P
B2U961212P	12	12	12	180	63	A8	P
B2U961616P	16	16	16	210	80	A10	P
B2U962020P	20	20	20	250	100	A12	P
B2U962525P	25	25	25	300	125	A16	P
B2U963232P	32	32	32	355	160	A20	P

Tech. Code	A mm	B mm	d mm	L mm	L1 mm	P Carbide tip	Degree
B2U960808K	8	8	8	125	40	A5	K
B2U961010K	10	10	10	150	50	A6	K
B2U961212K	12	12	12	180	63	A8	K
B2U961616K	16	16	16	210	80	A10	K
B2U962020K	20	20	20	250	100	A12	K
B2U962525K	25	25	25	300	125	A16	K
B2U963232K	32	32	32	355	160	A20	K

HM ROUND GROUND TOOL BITS

KERFOLG

ITEM: B2U40

Ground round tool bits HM.
Tolerance h6.



Tech. Code	Dimension mm
B2U4002100	2 x 100
B2U4003100	3 x 100
B2U4004100	4 x 100
B2U4005100	5 x 100

Tech. Code	Dimension mm
B2U4006100	6 x 100
B2U4008100	8 x 100
B2U4010100	10 x 100
B2U4012100	12 x 100

HSS-CO 12% ROUND GROUND TOOL BITS

KERFOLG

ITEM: B2U70

DIN 4964 12% HSS-Co round-shaped ground drill bits.
Tolerance h8.



Tech. Code	Dimension mm
B2U7003100	3 x 100
B2U7004200	4 x 200
B2U7005200	5 x 200
B2U7006200	6 x 200

Tech. Code	Dimension mm
B2U7008200	8 x 200
B2U7010200	10 x 200
B2U7012200	12 x 200

HSS-CO 12% SQUARE GROUND TOOL BITS

KERFOLG

ITEM: B2U75

DIN 4964 12% HSS-Co square ground drill bits.
Tolerance h14.



Tech. Code	Dimension mm
B2U7504200	4 x 4 x 200
B2U7505200	5 x 5 x 200
B2U7506200	6 x 6 x 200
B2U7508200	8 x 8 x 200
B2U7510200	10 x 10 x 200

Tech. Code	Dimension mm
B2U7512200	12 x 12 x 200
B2U7514200	14 x 14 x 200
B2U7516200	16 x 16 x 200
B2U7520200	20 x 20 x 200

HSS-CO 12% RECTANGULAR GROUND TOOL BITS

KERFOLG

ITEM: B2U80

DIN 4964 12% HSS-Co rectangular ground drill bits.
Tolerance h14.



Tech. Code	Dimension mm
B2U801003200	10 x 3 x 200
B2U801004200	10 x 4 x 200
B2U801005200	10 x 5 x 200
B2U801006200	10 x 6 x 200
B2U801008200	10 x 8 x 200
B2U801503200	15 x 3 x 200
B2U801504200	15 x 4 x 200
B2U801505200	15 x 5 x 200
B2U801506200	15 x 6 x 200

Tech. Code	Dimension mm
B2U801508200	15 x 8 x 200
B2U801510200	15 x 10 x 200
B2U802003200	20 x 3 x 200
B2U802004200	20 x 4 x 200
B2U802005200	20 x 5 x 200
B2U802006200	20 x 6 x 200
B2U802008200	20 x 8 x 200
B2U802010200	20 x 10 x 200

FACE MILLING

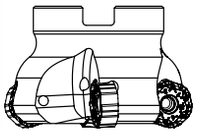
HNKU0806...



SEHX1204...



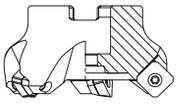
KERFOLG FACE



Two-side hexagonal inserts end mills

Pag. 61

KERFOLG FACE



General surfacing of any material

Page 60

SQUARE SHOULDERING

TOKX07... ML
TOKX07... MM



APKT06 ... MR



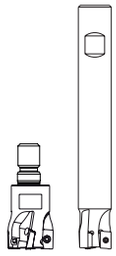
AVGT06...M5



XVCT16...A5



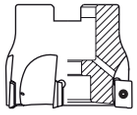
KERFOLG WALL



Single-side square shouldering end mills

Pag. 68

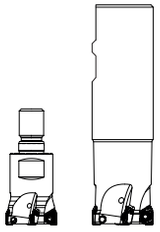
KERFOLG WALL



Single-side square shouldering end mills

Pag. 69

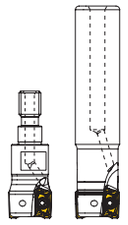
KERFOLG TRIPLE



Single-side square shouldering end mills

Pag. 70

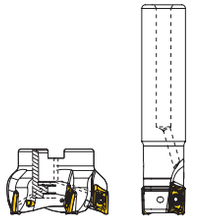
TUNGALOY TUNGFORCEREC



Single-side square shouldering end mills

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TUNGALOY TUNGALUMILL



Single-side square shouldering end mills

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SHOULDER AND HELICAL MILLING CUTTERS

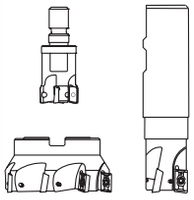
APKT1003...



APKT1604...



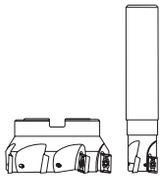
KERFOLG WALL



General, small-depth square shouldering

Page 62

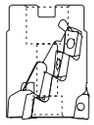
KERFOLG WALL



General, greater-depth square shouldering

Page 65

KERFOLG HELIX



16 mm insert greater-depth contouring

Page 66

B

HIGH FEED MILLING

RDPX 0702 - 1003 12T3



XPLT07



LNMU0303...



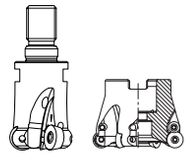
LNMX04 ...



SWMT15 ...



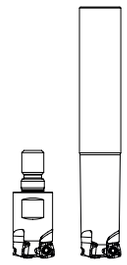
KERFOLG COPY



Multifunctional end mills round inserts

Pag. 82

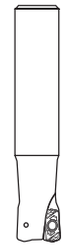
KERFOLG MINIFEED



Single-side inserts multifunctional high feed end mills

Page 81

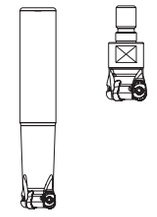
TUNGALOY DOFEED MINI



Multi-task type for ultra high-feed milling

Page 76

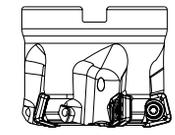
TUNGALOY DOTWISTBALL



Multifunctional high feed toroidal end mills

Pag. 78

TUNGALOY MILLQUADFEED



Multifunctional high feed end mills

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MULTIFUNCTION

VDE...



VCP...



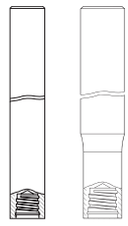
VST...



VTB...



TUNGALOY TUNGMEISTER



Multifunctional milling tool

Pag. 88

FINISHING

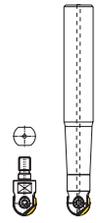
ZFBM...M5



ZFRM...M5



TUNGALOY BALL FINISH NOSE



Finishing end mills

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CHAMFER MILLING

TCMT1102...
TCMT16T3...
TCMX16T3...



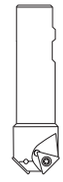
SCMT1204...



APKT1003...
APKT1604...



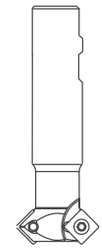
KERFOLG CROSS



Chamfer end mills triangular inserts

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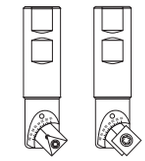
KERFOLG CROSS



Chamfer end mills square inserts

Page 96

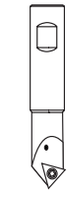
KERFOLG CROSS



Adjustable chamfer end mills

Page 96

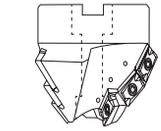
KERFOLG CROSS



Chamfer end mill triangular inserts

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KERFOLG HELIX



Large-size chamfering end mills

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SLOTTING TOOLS

SNHX11...
SNHX12...



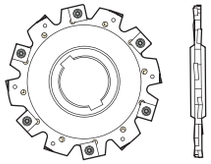
GCOM0...



B7B10...
B7B12...
B7B14...



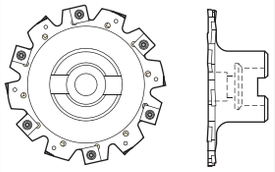
KERFOLG GROOVE



Shaft-coupled disk end mills for grooving and cutting

Page 90

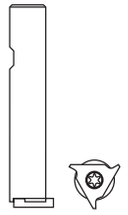
KERFOLG GROOVE



Shell-coupled side cutter mill for cutting and grooving works

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KERFOLG DELTA



Shank type milling cutters for low-thickness grooving

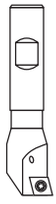
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SPOT FACING MILLING

CCMT0602...
CCMT09T3...



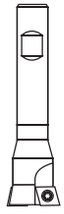
KERFOLG SPLAY



Single or dual cutting-edge insert counter borers

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KERFOLG SPLAY



Dual cutting-edge insert counter borers

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KERFOLG SPLAY



Insert back facing tools

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DRILLING

WCMT...MF



WCMT...MF



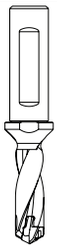
DPM ...
DMC ...



XPMT...



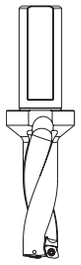
TUNGALOY DRILL MEISTER



Interchangable insert heads

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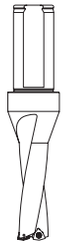
TUNGALOY TUNGDRILL TWISTED



Indexable drills

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KERFOLG HOLE



Multi-purpose insert drills

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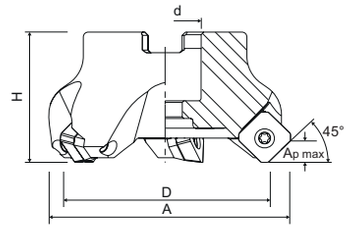
FACE MILLS FOR PLANING WITH POSITIVE SQUARE INSERTS

KERFOLG

ITEM: B3F06

General, multifunctional face mills

Type of attachment Sleeve
Applicable inserts SEHX 1204
Application Face milling



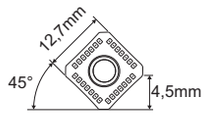


Tech. Code	Z	D mm	d mm	A mm	H mm	Ap max mm	Air hole	Insert
B3F0640Z3	3	40	16	53	40	6	With	SEHX 1204
B3F0650Z4	4	50	22	63	48	6	With	SEHX 1204
B3F0663Z5	5	63	22	76	48	6	With	SEHX 1204
B3F0680Z6	6	80	27	93	50	6	With	SEHX 1204
B3F06100Z8	8	100	32	113	50	6	With	SEHX 1204
B3F06125Z9	9	125	40	138	63	6	With	SEHX 1204

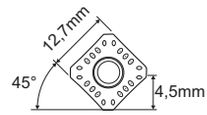
Tech. Code	Version	Description	Denomination
BRICA130	All diameters	Insert fixing screw	BRICA130
BRICA004	All diameters	Key	BRICA004

GEOMETRY AND CUTTING CONDITIONS

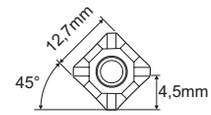
KERFOLG



SEHX 1204...MM



SEHX 1204...ML



SEHX 1204...AL

● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUT	MM		SEHX 1204 AFSN MM	PT30	B3B2112SNMM01	●	●	○	○		○				
	ML		SEHX 1204 AFSN ML	MT30	B3B2212SNML05	●	○	○	●	●				○	
	AL		SEHX 1204 AFFN AL	K10	B3B2312SNAL10								●		

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Recommended Grades	Geometry	Cutting speed Vc (m/min.)	Feed tz/mm
Low carbon content steel (C15, etc.)	~ 200	PT30	MM	180 - 250	0.08 - 0.25
High carbon content steel (C45, C55, etc.)	200 ~ 300	PT30	MM	150 - 200	0.08 - 0.25
Alloy steel 42CRMo4, 17Cr3, etc.	200 ~ 300	PT30	MM	150 - 230	0.08 - 0.25
Tool steel (X155CrVMo 12 1, etc.)	~ 300	PT30	MM	130 - 180	0.06 - 0.20
Stainless steel (X5CrNi 18-9, etc.)	-	MT30	ML	100 - 150	0.06 - 0.20
Grey cast iron (GG25, GG30, etc.)	150 ~ 250	PT30	MM	120 - 180	0.08 - 0.25
Spheroidal cast iron (GGG40, etc.)	150 ~ 250	PT30	MM	100 - 150	0.06 - 0.20
Non ferrous alloys (SI < 13%)	-	K10	AL	200 - 500	0.04 - 0.35
Non ferrous alloys (SI > 13%)	-	K10	AL	200 - 350	0.04 - 0.28

DOUBLE SIDE HEXAGONAL INSERTS SHELL MILLS

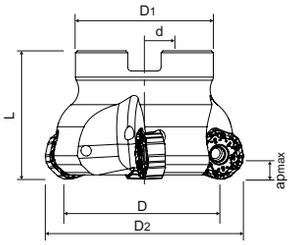
KERFOLG



ITEM: B3F08

High productivity face milling of steel and stainless steel

Coupling type Bore
Insert type HNKU 08…
Application Face milling on steel and stainless steel
Cutting angle 45°



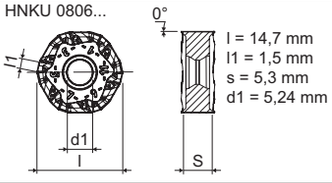


Tech. Code	Z	D mm	D2 mm	d mm	L mm	D1 mm	Ap max mm	Air hole	Insert
B3F084008Z4	4	40	52	16	40	38	4,0	With	HNKU0806AZER...
B3F085008Z4	4	50	62	22	40	43	4,0	With	HNKU0806AZER...
B3F086308Z5	5	63	75	22	40	48	4,0	With	HNKU0806AZER...
B3F088008Z6	6	80	92	27	50	58	4,0	With	HNKU0806AZER...
B3F0810008Z7	7	100	112	32	50	78	4,0	With	HNKU0806AZER...
B3F0810008Z8	8	100	112	32	50	78	4,0	With	HNKU0806AZER...
B3F0812508Z9	9	125	137	40	63	88	4,0	With	HNKU0806AZER...

Tech. Code	Version	Description	Denomination
BRICA196	HNKU0806AZER...	Clamping insert screw	BRICA196

GEOMENTRY AND CUTTING CONDITIONS

KERFOLG



● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUT	MM		HNKU0806AZER-MM	ST35	B3P1008HNMM20	●			○	●				●	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Speed (m/min.)	Geometry MM
Low carbon content steel (C15E, etc.)	~ 200	PH35	180 - 260	0.08 - 0.50
High carbon content steels (C45E, C55E etc.)	200 ~ 300	PH35	120 - 200	0.08 - 0.45
Alloyed steel (42CRMo4, 17Cr3 etc.)	200 ~ 300	PH35	60 - 160	0.08 - 0.40
Stainless steels (X5CrNi 18-9, etc.)	-	MT35	75 - 180	0.08 - 0.40
Heat resistant alloys (Inconel 718, Ti-6Al-4V etc.)	-	ST35	25 - 75	0.08 - 0.25

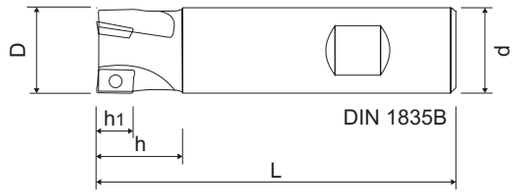
90° STRAIGHT SHOULDERING MILLING CUTTERS WITH WELDON ATTACHMENT

KERFOLG

ITEM: B4F30

Multifunctional end mills for square shouldering

Coupling type Weldon
Applicable inserts APKT 1003
Application Square shoulder milling





Tech. Code	Z	D mm	d mm	L mm	h mm	h1 mm	Air hole	Insert	Insert screw
B4F3010Z1	1	10	16	80	24	10	With	APKT 1003	BRICA001
B4F3011Z1	1	11	16	80	24	10	With	APKT 1003	BRICA001
B4F3012Z1	1	12	16	80	24	10	With	APKT 1003	BRICA001
B4F3013Z1	1	13	16	80	24	10	With	APKT 1003	BRICA001
B4F3014Z1	1	14	16	80	24	10	With	APKT 1003	BRICA001
B4F3015Z2	2	15	16	85	25	10	With	APKT 1003	BRICA001
B4F3016Z2	2	16	16	85	25	10	With	APKT 1003	BRICA001
B4F3017Z2	2	17	16	85	25	10	With	APKT 1003	BRICA001
B4F3018Z2	2	18	20	85	25	10	With	APKT 1003	BRICA001
B4F3020Z3	3	20	20	90	25	10	With	APKT 1003	BRICA001
B4F3025Z4	4	25	25	95	25	10	With	APKT 1003	BRICA001
B4F3028Z4	4	28	25	95	25	10	With	APKT 1003	BRICA001
B4F3032Z5	5	32	25	95	26	10	With	APKT 1003	BRICA001

Tech. Code	Z	D mm	d mm	L mm	h mm	h1 mm	Air hole	Insert	Insert screw
B4F3116Z2	2	16	16	150	100	10	With	APKT1003	BRICA001
B4F3120Z3	3	20	20	150	100	10	With	APKT1003	BRICA001
B4F3125Z4	4	25	20	150	100	10	With	APKT1003	BRICA001
B4F3132Z5	5	32	25	150	95	10	With	APKT1003	BRICA001

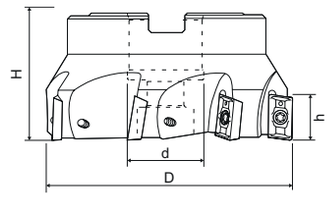
90° SHOULDERING SHELL MILLS - ABORE COUPLING

KERFOLG

ITEM: B4F34

Multifunctional end mills for square shouldering

Coupling type Bore
Applicable inserts APKT 1003
Application Square shoulder milling





Tech. Code	Z	D mm	d mm	H nn	h mm	Air hole	Insert	Insert screw
B4F3440Z6	6	40	16	40	10	With	APKT 1003	BRICA001
B4F3450Z7	7	50	22	40	10	With	APKT 1003	BRICA001
B4F3463Z8	8	63	22	40	10	With	APKT 1003	BRICA001
B4F3480Z11	11	80	27	50	10	With	APKT 1003	BRICA001
B4F34100Z12	12	100	32	50	10	With	APKT 1003	BRICA001

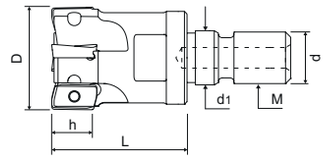
90° SHOULDERING MILLS - SCREW-ON SHANK

KERFOLG

ITEM: B4F33

Multifunctional end mills for square shouldering

Coupling type Metric thread
Applicable inserts APKT 1003
Application Square shoulder milling





Tech. Code	Z	D mm	d1 mm	d mm	M	L mm	h mm	Air hole	Insert	Insert screw
B4F3316Z2	2	16	8.5	13	M8	25	10	With	APKT 1003	BRICA001
B4F3320Z3	3	20	10.5	18	M10	30	10	With	APKT 1003	BRICA001
B4F3325Z4	4	25	12.5	21	M12	35	10	With	APKT 1003	BRICA001
B4F3332Z5	5	32	17	29	M16	43	10	With	APKT 1003	BRICA001

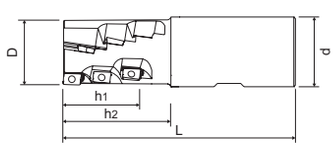
90° HELIX SHOULDERING END MILLS

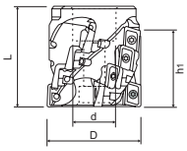
KERFOLG

ITEM: B4F35

General multifunctional shouldering mills

Coupling type Weldon Shank - Bore
Insert type APKT 1003...
Application Square shoulder milling









Tech. Code	Z	D mm	d mm	L mm	h1 mm	h2 mm	K	Air hole	Insert	Insert screw
B4F3525K2Z8	8	25	25	105	37	49	2	With	APKT1003	BRICA001
B4F3532K2Z12	10	32	32	115	46	55	2	With	APKT1003	BRICA001
B4F3532K3Z15	15	32	32	115	46	55	3	With	APKT1003	BRICA001
B4F3540K2Z14	18	40	32	130	55	70	3	With	APKT1003	BRICA001

Tech. Code	Z	D mm	d mm	L mm	h1 mm	h2 mm	K	Air hole	Insert	Insert screw
B4F3640K3Z12	12	40	16	50	37	-	3	With	APKT1003	BRICA001
B4F3650K3Z15	15	50	22	60	46	-	3	With	APKT1003	BRICA001
B4F3663K4Z20	20	63	27	60	46	-	4	With	APKT1003	BRICA001

Tech. Code	Version	Description	Denomination
BRICA001	All diameters	Clamping insert screw	BRICA001
BRICA002	All diameters	Key	BRICA002

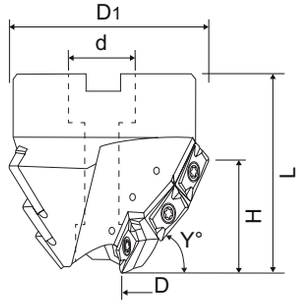
HELICAL MILLS FOR HEAVY-DUTY CHAMFERING

KERFOLG

ITEM: B4F20

Heavy-duty chamfering end mills

Coupling type Bore
Applicable inserts APKT 1003
Application Chamfering



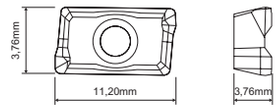


Tech. Code	Z	D mm	D1 mm	d mm	Y°	H mm	L mm	K	Air hole	Insert
B4F2015	9	17	70	22	15	7	50	3	With	APKT1003
B4F2030	9	17	65	22	30	13	50	3	With	APKT1003
B4F2045	9	17	56	22	45	19	50	3	With	APKT1003
B4F2060	9	17	45	16	60	24	50	3	With	APKT1003
B4F2075	9	19	33	16	75	27	60	3	With	APKT1003

GEOMETRY AND CUTTING CONDITIONS

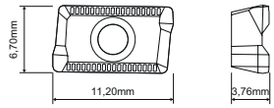
KERFOLG WRK

MF



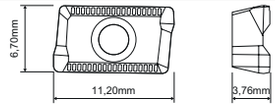
MF TYPE

MR



MR TYPE

ALP



MR TYPE

● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
FINISH	MF		APKT 1003PDER - MF	MT35	**B4E1110MFMT35**	●	○		●	●	○				
MEDIUM CUT	MR		APKT 1003PDR - MR	PT25	**B4E2110MRPT25**	○	○	●			●	●			○
			APKT 1003PDTR - MR	PT30	**B4E2110MRPT30**	●	●	●			●	○			○
			APKT 1003PDR - MR	PT35	**B4E2110MRPT35**	●	●	○	○	○	○	○		○	
	ALP		APKT 1003PDFR - ALP	K10	**B4E2210ALPK10**								●		
			APKT 1003PDFR - ALP												
	MR		APKT 1003PDFR - MR	PT35	**B4E2410MRPT35**	●	●	○	○	○	○	○		○	

Tech. Code	Version	Description	Denomination
BRICA001	All diameters	Clamping insert screw	BRICA001
BRICA002	All diameters	Key	BRICA002
BRICA084	All diameters	B4F20 bur's fastening screw Ø d16	BRICA084
BRICA116	All diameters	B4F20 bur's fastening screw Ø d22	BRICA116

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Speed (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P30	150 - 200	0.08 - 0.20
	~ 180	P35	90 - 150	0.08 - 0.25
High carbon content steel (C45E, C55E, etc.)	~ 300	P30	150 - 200	0.08 - 0.20
	~ 300	P35	90-150	0.08 - 0.25
Tool steel (X155CrVMo 12 1, etc.)	~ 300	P30	150 - 200	0.08 - 0.20
	~ 300	P35	90-150	0.08 - 0.25
Stainless steel (X5CrNi 18-9, etc.)	-	M35	80-180	0.06 - 0.10
Cast iron (GG25, GG30, etc.) Spheroidal cast iron (GGG40, etc.)	150 ~ 250	P25	130 - 230	0.08 - 0.15
Non ferrous alloys (SI < 13%)	-	K10	200-1000	0.06 - 0.18
Hardened steel < 55 HRC	-	P25	30 - 50	0.05 - 0.08

90° SHOULDERING MILLS WELDON SHANK

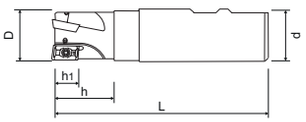
KERFOLG



ITEM: B4F37

Multifunction end mills for square shouldering

Coupling type Weldon shank
Applicable inserts APKT 1604
Application Square shoulder milling





Tech. Code	Z	D mm	d mm	L mm	h mm	h1 mm	Air hole	Insert	Insert screw
B4F3725Z2	2	25	25	100	44	17	With	APKT 1604	BRICA003
B4F3732Z3	3	32	32	110	50	17	With	APKT 1604	BRICA003
B4F3740Z4	4	40	32	115	45	17	With	APKT 1604	BRICA003

Tech. Code	Z	D mm	d mm	L mm	h mm	h1 mm	Air hole	Insert	Insert screw
B4F3822Z2	2	22	20	200	145	17	With	APKT 1604	BRICA003
B4F3825Z2	2	25	25	200	140	17	With	APKT 1604	BRICA003
B4F3832Z3	3	32	32	200	140	17	With	APKT 1604	BRICA003
B4F3840Z4	4	40	32	200	60	17	With	APKT 1604	BRICA003

90° SHOULDERING SHELL MILLS - ARBOR COUPLING

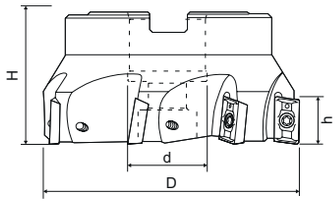
KERFOLG



ITEM: B4F40

Multifunctional end mills for square shouldering

Coupling type Bore
Applicable inserts APKT 1604
Application Square shoulder milling





Tech. Code	Z	D mm	d mm	H mm	h mm	Air hole	Insert	Insert screw
B4F4040Z4	4	40	16	40	17	With	APKT 1604	BRICA003
B4F4050Z5	5	50	22	40	17	With	APKT 1604	BRICA003
B4F4063Z6	6	63	22	40	17	With	APKT 1604	BRICA003
B4F4080Z7	7	80	27	50	17	With	APKT 1604	BRICA003
B4F40100Z8	8	100	32	50	17	With	APKT 1604	BRICA003
B4F40125Z9	9	125	40	63	17	With	APKT 1604	BRICA003
B4F40160Z10	10	160	40	63	17	With	APKT 1604	BRICA003
B4F40200Z13	13	200	60	63	17	With	APKT 1604	BRICA003
B4F40250Z16	16	250	60	63	17	With	APKT 1604	BRICA003

Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10



The products are available in chapter K

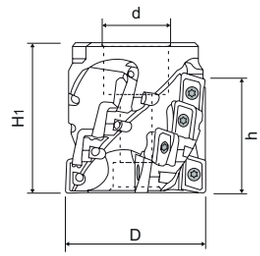
90° SHOULDERING FLUTED MILLS

KERFOLG

ITEM: B4F41

General, multi-task end mills for square shouldering

Coupling type Bore type
Applicable inserts APKT 1604
Application Square shoulder milling



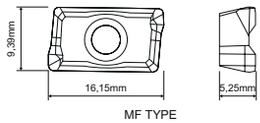


Tech. Code	Z	D mm	d mm	H mm	K	h1 mm	h2	Air hole	Insert	Insert screw
B4F4150Z3	6	50	27	50	3	30	-	With	APKT 1604	BRICA003
B4F4163Z4	12	63	27	60	4	44	-	With	APKT 1604	BRICA003
B4F4180Z5	15	80	32	60	5	44	-	With	APKT 1604	BRICA003

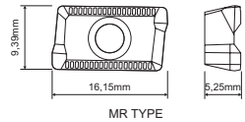
Tech. Code	Version	Description	Denomination
BRICA003	All diameters	Clamping insert screw	BRICA003
BRICA004	All diameters	Key	BRICA004

GEOMETRY AND CUTTING CONDITIONS

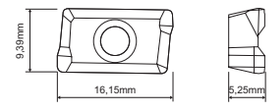
KERFOLG WRK



MF TYPE



MR TYPE



APL TYPE

● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
FINISH	MF		APKT 1604PDR - MF	MT35	B4F1116MFMT35		○		●	●	○				
				PT35	B4F1116MFPT35		●	○	○	○	○	○		○	
MEDIUM CUT	MR		APKT 1604PDR - MR	PT25	B4F2116MRPT25	○	○	●			●	●			○
				PT30	B4F2116MRPT30	●	●	●			●	○			○
				PT35	B4F2116MRPT35	●	●	○	○	○	○	○		○	
	ALP		APKT 1604PDFR - ALP	K10	B4F2216ALPK10								●		
	MR		APKT 1604PDFR - MR	PT35	B4F2416MRPT35	●	●	○	○	○	○	○		○	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Speed(m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P30	150 - 200	0.10 - 0.25
	~ 180	P35	90 - 150	0.12 - 0.30
High carbon content steel (C45E, C55E, etc.)	~ 300	P30	150 - 200	0.10 - 0.25
	~ 300	P35	90-150	0.12 - 0.30
Tool steel (X155CrVMo 12 1, etc.)	~ 300	P30	150 - 200	0.10 - 0.25
	~ 300	P35	90-150	0.12 - 0.30
Stainless steel (X5CrNi 18-9, etc.)	-	M35	80-180	0.08 - 0.15
Cast iron (GG25, GG30, etc.) Spheroidal cast iron (GGG40, etc.)	150 ~ 250	P25	130 - 230	0.10 - 0.20
Non ferrous alloys (SI < 13%)	-	K10	200-1000	0.10 - 0.25
Hardened steel < 55 HRC	-	P25	30 - 50	0.06 - 0.10

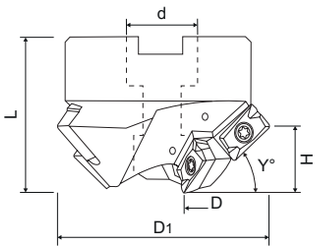
HELICAL MILLS FOR HEAVY-DUTY CHAMFERING

KERFOLG

ITEM: B4F43

Multifunctional general purpose milling cutters for heavy chamfers

Coupling type Bore
Applicable inserts APKT1604...
Application Chamfering



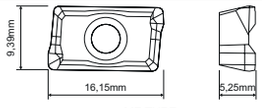


Tech. Code	Z	D mm	D1 mm	d mm	Y°	H mm	L mm	K	Air hole	Insert
B4F4315	6	35	94	27	15	8	50	3	With	APKT 1604...
B4F4330	6	35	88	27	30	15	50	3	With	APKT 1604...
B4F4345	6	35	77,8	27	45	21,5	50	3	With	APKT 1604...
B4F4360	6	35	65	27	60	26,5	50	3	With	APKT 1604...
B4F4375	6	35	50,7	22	75	29,5	60	3	With	APKT 1604...

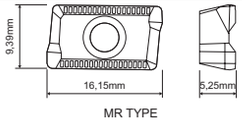
Tech. Code	Version	Description	Denomination
BRICA003	All diameters	Clamping insert screw	BRICA003
BRICA004	All diameters	Key	BRICA004
BRICA116	All diameters	B4F20 bur's fastening screw Ø d22	BRICA116
BRICA238	All diameters	B4F43 bur's fastening screw Ø d27	BRICA238

GEOMETRY AND CUTTING CONDITIONS

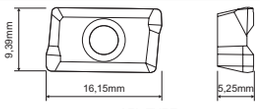
KERFOLG WRK



MF TYPE



MR TYPE



APL TYPE

● RECOMMENDED FOR... ○ USABLE FOR...

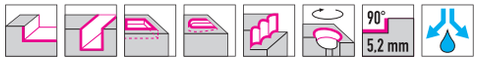
			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
FINISH	MF		APKT 1604PDR - MF	MT35	B4F1116MFMT35		○		●	●	○				
				PT35	B4F1116MFPT35		●	○	○	○	○	○		○	
MEDIUM CUT	MR		APKT 1604PDR - MR	PT25	B4F2116MRPT25	○	○	●			●	●			○
				PT30	B4F2116MRPT30	●	●	●			●	○			○
				PT35	B4F2116MRPT35	●	●	○	○	○	○	○		○	
	ALP		APKT 1604PDFR - ALP	K10	B4F2216ALPK10								●		
	MR		APKT 1604PDFR - MR	PT35	B4F2416MRPT35	●	●	○	○	○	○	○		○	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Speed(m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P30	150 - 200	0.10 - 0.25
	~ 180	P35	90 - 150	0.12 - 0.30
High carbon content steel (C45E, C55E, etc.)	~ 300	P30	150 - 200	0.10 - 0.25
	~ 300	P35	90-150	0.12 - 0.30
Tool steel (X155CrVMo 12 1, etc.)	~ 300	P30	150 - 200	0.10 - 0.25
	~ 300	P35	90-150	0.12 - 0.30
Stainless steel (X5CrNi 18-9, etc.)	-	M35	80-180	0.08 - 0.15
Cast iron (GG25, GG30, etc.) Spheroidal cast iron (GGG40, etc.)	150 ~ 250	P25	130 - 230	0.10 - 0.20
Non ferrous alloys (SI < 13%)	-	K10	200-1000	0.10 - 0.25
Hardened steel < 55 HRC	-	P25	30 - 50	0.06 - 0.10

SINGLE-SIDE SQUARE SHOULDERING END MILLS

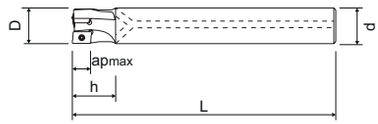
KERFOLG

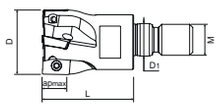


ITEM: B4F25

General, multifunctional shouldering mills.

Coupling type Cylindrical shank - Screw-On
Insert type APKT060204...
Application Square shouldering









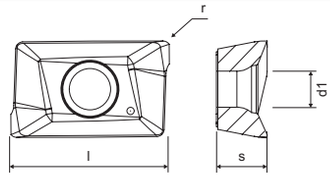
Tech. Code	Z	D mm	L mm	d mm	h mm	Ap max mm	Air hole	Insert
B4F251006Z2	2	10	80	10	28	5,2	With	APKT060204PDTR...
B4F251206Z3	3	12	80	12	30	5,2	With	APKT060204PDTR...
B4F251406Z3	3	14	85	12	32	5,2	With	APKT060204PDTR...
B4F251606Z4	4	16	85	16	35	5,2	With	APKT060204PDTR...
B4F251806Z4	4	18	90	16	30	5,2	With	APKT060204PDTR...
B4F252006Z5	5	20	90	20	40	5,2	With	APKT060204PDTR...
B4F252506Z7	7	25	106	25	50	5,2	With	APKT060204PDTR...
B4F253206Z8	8	32	124	25	64	5,2	With	APKT060204PDTR...

Tech. Code	Z	D mm	L mm	D1 mm	Ap max mm	M mm	Air hole	Insert
B4F271006Z2	2	10	16	6,5	5,2	6	With	APKT060204PDTR...
B4F271206Z3	3	12	16	6,5	5,2	6	With	APKT060204PDTR...
B4F271606Z4	4	16	21	8,5	5,2	8	With	APKT060204PDTR...
B4F272006Z5	5	20	26	10,5	5,2	10	With	APKT060204PDTR...
B4F272506Z7	7	25	30	12,5	5,2	12	With	APKT060204PDTR...

Tech. Code	Version	Description	Denomination
BRICA200	APKT060204PDTR...	Clamping insert screw	BRICA200
BRICA151	For insert Ø 7.9mm and Ø 10.6mm	Torx screwdriver	BRICA151

GEOMETRY AND CUTTING CONDITIONS

KERFOLG



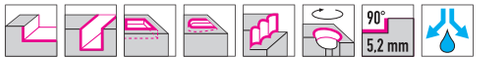
APKT 060204...
l = 6,0mm
d1 = 2,06 mm
s = 2,16 mm
r = 0,4mm

● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	MR		APKT 060204PDR MR	PT35	B4E1206APMR10	●	●	○	○	○	○	○		○	

SINGLE-SIDE SQUARE SHOULDERING SHELL MILLS

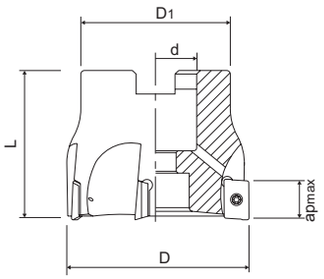
KERFOLG



ITEM: B4F29

General multifunctional shouldering mills

Coupling type Bore
Insert type APKT060204
Application Square shouldering on carbon steel and stainless steel

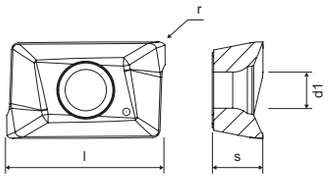




Tech. Code	Z	D mm	d mm	L mm	D1 mm	Ap max mm	Air hole	Insert
B4F293206Z8	8	32	16	40	31,5	5,2	With	APKT060204PDTR...
B4F294006Z10	10	40	16	40	38,0	5,2	With	APKT060204PDTR...
B4F295006Z11	11	50	22	40	48,0	5,2	With	APKT060204PDTR...

GEOMETRY AND CUTTING CONDITIONS

KERFOLG



APKT 060204...

l = 6,0mm
d1 = 2,06 mm
s = 2,16 mm
r = 0,4mm

● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	MR		APKT 060204PDR MR	PT35	B4E1206APMR10	●	●	○	○	○	○	○		○	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Geometry	Cutting speed Vc (mt/min)	Feed f/z mm
Carbon steels (C45-C55 etc.)	~ 300HB	PT35	MR	160 - 230	0.05 - 0.12
Alloyed steel (42CRMo4, 17Cr3 etc.)	~ 300HB	PT35	MR	90 - 180	0.05 - 0.12
Hardened and tempered steels (NAK80, PX5 etc.)	30 ~ 40HRC	PT35	MR	80 - 160	0.05 - 0.12
Stainless steels (X5CrNi 18-9, etc.)	~ 200HB	PT35	MR	75 - 130	0.05 - 0.09

SINGLE SIDE SQUARE SHOULDERING END MILLS

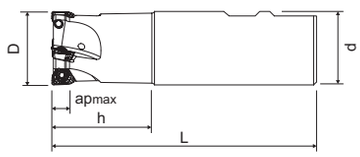
KERFOLG

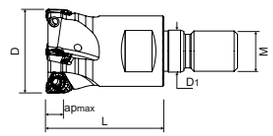
ITEM: B4F50

General multifunctional shouldering mills

Coupling type Weldon shank and screw-on
Insert type TOKX0703...
Application Square shouldering on steel, stainless steel, cast Iron and super alloys

Cutting Angle 90°









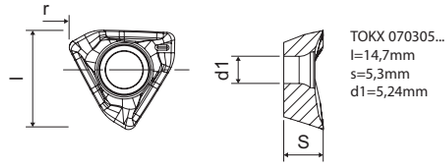
Tech. Code	Z	D mm	L mm	d mm	h mm	Ap max mm	Air hole	Insert
B4F502007Z3	3	20	77	20	25	5	With	TOKX070305PDER
B4F502507Z4	4	25	90	25	35	5	With	TOKX070305PDER
B4F503207Z5	5	32	102	32	40	5	With	TOKX070305PDER

Tech. Code	Z	D mm	L mm	D1 mm	Ap max mm	M	Air hole	Insert
B4F512007Z3	3	20	30	10.5	5	10	With	TOKX070305PDER
B4F512507Z4	4	25	35	12.5	5	12	With	TOKX070305PDER
B4F513207Z5	5	32	40	17.0	5	16	With	TOKX070305PDER

Tech. Code	Version	Description	Denomination
BRICA198	TOKX070305PDER	Clamping insert screw	24645

GEOMETRY AND CUTTING CONDITIONS

KERFOLG



TOKX 070305...
l=14,7mm
s=5,3mm
d1=5,24mm

● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	ML		TOKX070305PDER-ML	MT35	B4T0707TOML10	●	○	○	●	●				○	
	MM		TOKX070305PDER-MM	PH35	B4T0807TOMM10	●	●	●	○	○	○	○			○

SINGLE SIDE SQUARE SHOULDERING SHELL MILLS

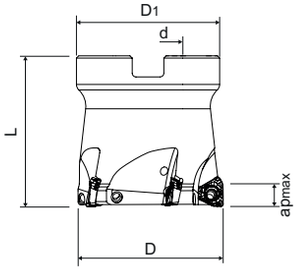
KERFOLG

ITEM: B4F52

General multifunctional shouldering mills

Coupling type Bore
Insert type TOKX0703...
Application Square shouldering on steel, stainless steel and super alloys.

Cutting angle 90°

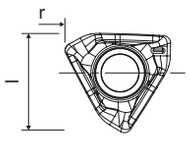




Tech. Code	Z	D mm	D1 mm	d mm	L mm	Ap max mm	Air hole	Insert
B4F524007Z5	5	40	38	16	40	5	With	TOKX070305PDER
B4F525007Z6	6	50	43	22	40	5	With	TOKX070305PDER

GEOMETRY AND CUTTING CONDITIONS

KERFOLG



TOKX 070305...
l=14,7mm
s=5,3mm
d1=5,24mm

● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	ML		TOKX070305PDER-ML	MT35	B4T0707TOML10	●	○	○	●	●				○	
	MM		TOKX070305PDER-MM	PH35	B4T0807TOMM10	●	●	●	○	○	○	○			○

RECOMMENDED CUTTING DATA

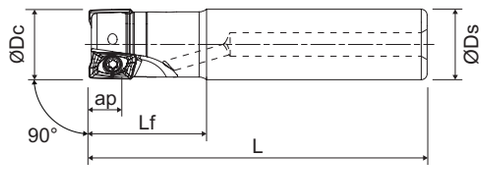
Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Speed (m/min.)	Feed fz/mm
Low carbon content steel (C15E, etc.)	~ 200	PH35	180 - 260	0.08 - 0.15
High carbon content steels (C45E, C55E etc.)	200 ~ 300	PH35	120 - 200	0.08 - 0.13
Alloyed steel (42CRMo4, 17Cr3 etc.)	200 ~ 300	PH35	60 - 160	0.08 - 0.12
Stainless steels (X5CrNi 18-9, etc.)	-	MT35	75 - 180	0.08 - 0.12
Cast irons (GG25, GG30 etc.)	150 ~ 250	PH35	180 - 260	0.08 - 0.15
Spheroidal cast irons (GGG40 etc)	150 ~ 250	PH35	120 - 200	0.08 - 0.13
Heat resistant alloys (Inconel 718, Ti-6Al-4V etc.)	-	MT35	25 - 75	0.08 - 0.10

SINGLE SIDE SQUARE SHOULDERING END MILLS

ITEM: TUNGFORCE-REC

Square shoulddering mills for small diameters

Coupling type Cylindrical shank
Insert type AVGT06...
Application Square shouldering for small diameters
Rake angle A.R. +6° ~ +7,6°, R.R. = -37,1° ~ -32,4°

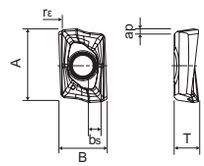




Tech. Code	Z	Dc mm	Ds mm	L mm	Lf mm	Max a.p. mm	Weight kg	Air hole
B4F5508Z1	1	8	10	80	20	6	0,04	With
B4F5510Z2	2	10	10	80	20	6	0,04	With
B4F5510Z2L	2	10	10	100	35	6	0,06	With
B4F5512Z2	2	12	12	80	20	6	0,06	With
B4F5512Z2L	2	12	12	120	35	6	0,09	With
B4F5512Z3	3	12	12	80	20	6	0,06	With
B4F5516Z3	3	16	16	90	20	6	0,12	With
B4F5516Z3L	3	16	16	140	35	6	0,20	With
B4F5516Z4	4	16	16	90	20	6	0,12	With

Tech. Code	Version	Description	Denomination
BRICA188	All diameters	Insert fixing screw	CSPB-2H

GEOMETRY AND CUTTING CONDITIONS - TUNGFORCEREC



MJ TYPE
A = 8mm rε = 0,2mm bs = 1,5mm
B = 5mm rε = 0,4mm bs = 1,3mm
T = 2,7mm rε = 0,8mm bs = 0,9mm

● RECOMMENDED FOR... ○ USABLE FOR…

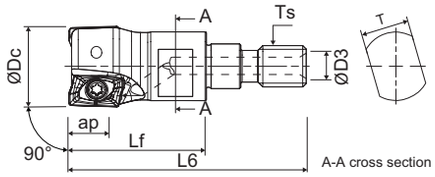
			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MJ		AVGT 060302PBER-MJ	AH120	B4T12AVMJ01					●	●	●		●	●
				AH3135	B4T12AVMJ02	●	●	●	●	○					
			AVGT 060304PBER-MJ	AH120	B4T12AVMJ03					●	●	●		●	●
				AH3135	B4T12AVMJ04	●	●	●	●	○					
			AVGT 060308PBER-MJ	AH120	B4T12AVMJ05					●	●	●		●	●
				AH3135	B4T12AVMJ06	●	●	●	●	○					

SINGLE SIDE SQUARE SHOULDERING END MILLS

ITEM: TUNGFORCE-REC

End mills for square shouldering in small diameters.

Coupling type Screw-On shank
Insert type AVGT06...
Application Square shouldering for small diameters
Rake angle A.R. = +6° ~ +7,6°, R.R = -37,1 ~ -32,4°

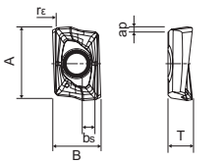




Tech. Code	Z	Dc mm	D3 mm	Lf mm	Ts mm	L6 mm	Max a.p. mm	Weight kg	Air hole
B4F5610Z2	2	10	9,5	20	M6	34,5	6	0,01	With
B4F5612Z3	3	12	10	20	M6	34,5	6	0,01	With
B4F5616Z4	4	16	13	25	M8	42	6	0,03	With

Tech. Code	Version	Description	Denomination
BRICA188	All diameters	Insert fixing screw	CSPB-2H

GEOMETRY AND CUTTING CONDITIONS - TUNGFORCEREC



MJ TYPE
A = 8mm rε = 0,2mm bs = 1,5mm
B = 5mm rε = 0,4mm bs = 1,3mm
T = 2,7mm rε = 0,8mm bs = 0,9mm

● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MJ		AVGT 060302PBER-MJ	AH120	B4T12AVMJ01					●	●	●		●	●
				AH3135	B4T12AVMJ02	●	●	●	●	○					
			AVGT 060304PBER-MJ	AH120	B4T12AVMJ03					●	●	●		●	●
				AH3135	B4T12AVMJ04	●	●	●	●	○					
			AVGT 060308PBER-MJ	AH120	B4T12AVMJ05					●	●	●		●	●
				AH3135	B4T12AVMJ06	●	●	●	●	○					

RECOMMENDED CUTTING DATA

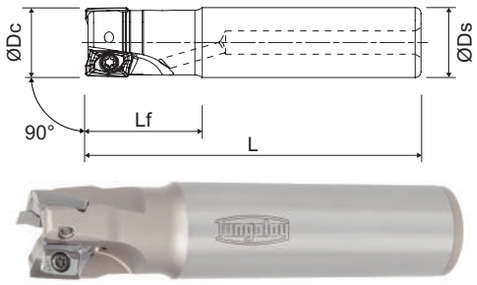
Material	Hardness Brinnell HB	Priority	Recommended grades	Geometry	Cutting speed Vc (mt/min)	Feed f/z mm
Carbon steels (C45-C55 etc.)	~ 300HB	First choice	AH3135	MJ	230 - 430	0,07 - 0,12
Alloyed steel (42CRMo4, 17Cr3 etc.)	~ 300HB	First choice	AH3135	MJ	150 - 350	0,07 - 0,12
Hardened and tempered steels (NAK80, PX5 etc.)	30 - 40HRC	First choice	AH120	MJ	100 - 230	0,07 - 0,12
Stainless steels (X5CrNi 18-9, etc.)	-	First choice	AH3135	MJ	150 - 220	0,06 - 0,1
Cast irons (GG25, GG30 etc.)	150 - 250HB	First choice	AH120	MJ	200 - 330	0,07 - 0,12
Spheroidal cast irons (GGG40 etc)	150 - 250HB	First choice	AH120	MJ	150 - 240	0,07 - 0,12
Titanium alloys (Ti-6AL-4V, etc.)	-	First choice	AH120	MJ	70 - 90	0,06 - 0,1
Super Alloy (inconel718, ecc.)	-	First choice	AH120	MJ	45 - 65	0,06 - 0,09
Hardened steel (SKD11 etc.)	40 - 50HRC	First choice	AH120	MJ	45 - 70	0,05 - 0,08
Hardened steel(SKD11 etc.)	50 - 60HRC	First choice	AH120	MJ	40 - 60	0,04 - 0,06

SINGLE SIDE SQUARE SHOULDERING END MILLS



ITEM: TUNGALUMILL

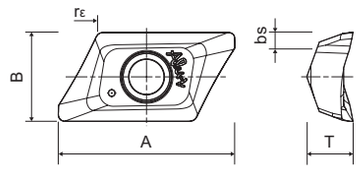
Coupling type Cyclindrical shank
Insert type XVCT1605...
Application Square shouldering on aluminum
Rake angle A.R. = +6° ~ +10°, R.R. = +12° ~ -9°



Tech. Code	Z	Dc mm	Ds mm	L mm	Lf mm	Air hole
B4F5725Z2L	2	25	25	170	70	With
B4F5732Z2	2	32	32	150	50	With
B4F5732Z3L	2	32	32	200	80	With
B4F5732Z3	3	32	32	150	50	With

Tech. Code	Version	Description	Denomination
BRICA211	EPXV16R025M...	Clamping insert screw	TS40085I/HG
BRICA212	EPXV16R032M... - TPXV16R032M...	Insert fixing screw	TS40093I/HG

GEOMETRY AND CUTTING CONDITIONS - TUNG-ALUMILL



AM TYPE
rε = 0,4mm A=22,2mm B=11,2mm T=5,5mm bs=1,5mm
rε = 0,8mm A=22,2mm B=11,2mm T=5,5mm bs=1,1mm
rε = 1,2mm A=21,8mm B=11,2mm T=5,5mm bs=1,1mm
rε = 2,0mm A=20,8mm B=11,2mm T=5,4mm bs=1,1mm
rε = 3,0mm A=19,6mm B=11,2mm T=5,2mm bs=1,0mm
rε = 4,0mm A=18,5mm B=11,2mm T=5,2mm bs=1,5mm

● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Quality	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	AM		XVCT160504PFER-AM	TH10	B4X05XVAM01								●		
			XVCT160508PFER-AM		B4X05XVAM02								●		
			XVCT160512PFER-AM		B4X05XVAM03								●		
			XVCT160520PFER-AM		B4X05XVAM05								●		
			XVCT160530PFER-AM		B4X05XVAM06								●		
			XVCT160540PFER-AM		B4X05XVAM08								●		

RECOMMENDED CUTTING DATA

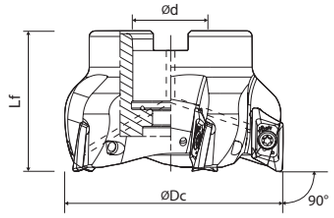
Material	Hardness Brinnell HB	Recommended grades	Cutting speed Speed (m/min.)	Feed fz/mm
Non ferrous alloys with Si ≤ 13%	75	TH10	200 ~ 1000	0.15 ~ 0.3
	90	TH10	200 ~ 1500	0.1 ~ 0.25
Non ferrous alloys with Si ≥ 13%	130	TH10	200 ~ 1000	0.07 ~ 0.15

SQUARE SHOULDERING SHELL MILLS

ITEM: TUNGALUMILL

Square shouldering on aluminum

Coupling type	Bore
Insert type	XVCT1605...
Application	Square shouldering on aluminum
Rake angle	A.R. = +10° ~ +11°, R.R = -9° ~ 5,5°

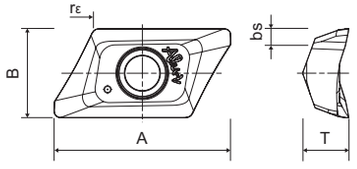




Tech. Code	Z	Dc mm	d mm	Lf mm	Air hole
B4F5840Z3	3	40	16	50	With
B4F5880Z5	5	80	27	50	With

Tech. Code	Version	Description	Denomination
BRICA212	EPXV16R032M... - TPXV16R032M...	Insert fixing screw	TS40093I/HG

GEOMETRY AND CUTTING CONDITIONS - TUNG-ALUMILL



AM TYPE

rε = 0,4mm	A=22,2mm	B=11,2mm	T=5,5mm	bs=1,5mm
rε = 0,8mm	A=22,2mm	B=11,2mm	T=5,5mm	bs=1,1mm
rε = 1,2mm	A=21,8mm	B=11,2mm	T=5,5mm	bs=1,1mm
rε = 2,0mm	A=20,8mm	B=11,2mm	T=5,4mm	bs=1,1mm
rε = 3,0mm	A=19,6mm	B=11,2mm	T=5,2mm	bs=1,0mm
rε = 4,0mm	A=18,5mm	B=11,2mm	T=5,2mm	bs=1,5mm

● RECOMMENDED FOR... ○ USABLE FOR…

						P			M		K		N	S	H
			Description	Quality	Tech. Code	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	AM		XVCT160504PFER-AM	TH10	B4X05XVAM01								●		
			XVCT160508PFER-AM		B4X05XVAM02								●		
			XVCT160512PFER-AM		B4X05XVAM03								●		
			XVCT160520PFER-AM		B4X05XVAM05								●		
			XVCT160530PFER-AM		B4X05XVAM06								●		
			XVCT160540PFER-AM		B4X05XVAM08								●		

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Recommended grades	Cutting speed Speed (m/min.)	Feed fz/mm
Non ferrous alloys with Si ≤ 13%	75	TH10	200 ~ 1000	0.15 ~ 0.3
	90	TH10	200 ~ 1500	0.1 ~ 0.25
Non ferrous alloys with Si ≥ 13%	130	TH10	200 ~ 1000	0.07 ~ 0.15

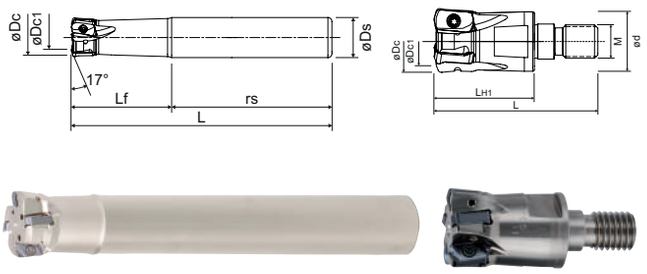
TWO-SIDE INSERTS HIGH FEED END MILLS



ITEM: DOFEED

High feed multi-task end mill for various materials

Coupling type Cylindrical and screw-on type
Insert type LNMU03..
Application Multi-task
Rake angle A.R. +6° R.R = +5°~ +11°



Tech. Code	Z	Dc mm	Ds mm	Dc1 mm	L mm	Lf mm	rs mm	KAPR	Air hole
B5F0116Z2	2	16	16	9.5	100	30	70	15°	With
B5F0118Z2	2	18	16	11.5	100	30	70	17°	With
B5F0120Z4	4	20	20	13.5	130	50	80	17°	With
B5F0122Z4	4	22	20	15.5	130	50	80	17°	With
B5F0125Z5	5	25	25	18.5	140	60	80	17°	With
B5F0128Z5	5	28	25	21.5	140	60	80	17°	With
B5F0130Z5	5	30	32	23.5	150	70	80	17°	With
B5F0132Z6	6	32	32	25.5	150	70	80	17°	With

Tech. Code	Z	Dc mm	Ds mm	Dc1 mm	L mm	Lf mm	rs mm	KAPR	Air hole
B5F0216Z2	2	16	16	9.5	150	50	100	17°	With
B5F0220Z3	3	20	20	13.5	160	80	80	17°	With
B5F0222Z3	3	22	20	15.5	160	30	130	17°	With
B5F0225Z4	4	25	25	18.5	180	100	80	17°	With
B5F0228Z4	4	28	25	21.5	180	35	145	17°	With

Tech. Code	Z	Dc mm	Dc1 mm	d mm	LH mm	LH1 mm	M mm	KAPR	Air hole
B5F0320Z4	4	20	13.5	18	48	30	10	17°	With
B5F0325Z5	5	25	18.5	18	48	30	12	17°	With
B5F0332Z6	6	32	25.5	25	55	30	16	17°	With

Tech. Code	Version	Description	Denomination
BRICA109	All diameters	Clamping insert screw	CSPB-2.5

RECOMMENDED CUTTING DATA

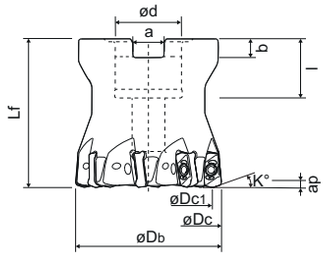
Material	Hardness Brinnel HB	Priority	Recommended grades	Geometry	Cutting speed Vc (m/min.)	Feed ø 16 ▯ 22 f/z mm	Feed ø 25 ▯ 32 f/z mm
Carbon steel (C45-C55, etc.)	~ 300 HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
	~ 300 HB	Low cutting forces	AH725	ML	100 - 200 - 300	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
	~ 300 HB	Impact-resistant	AH3225	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Alloy steel (42CRMo4, 17Cr3, etc.)	~ 300 HB	First choice	AH3225	MJ	100 - 150 - 200	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
	~ 300 HB	Low cutting forces	AH3225	ML	100 - 150 - 200	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
	~ 300 HB	Impact-resistant	AH3225	MJ	100 - 150 - 200	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Hardened and tempered steel (NAK80, PX5, etc.)	30 ~ 40 HRC	-	AH3225	MJ	100 - 150 - 200	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
Stainless steel (X5CrNi 18-9, etc.)	~ 200 HB	First choice	AH130	MS	80 - 120 - 150	0.3 - 0.4 - 0.5	0.3 - 0.5 - 0.7
	~ 200 HB	Impact-resistant	AH3225	MJ	100 - 120 - 150	0.3 - 0.5 - 0.8	0.3 - 0.6 - 0.8
Cast iron (GG25, GG30, etc.)	150 ~ 250HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Spheroidal cast iron (GGG40, etc.)	150 ~ 250HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Titanium alloys (Ti-6AL-4V, etc.)	~ 40 HRC	First choice	AH130	ML	30 - 40 - 60	0.3 - 0.4 - 0.5	0.3 - 0.5 - 0.7
Hardened steel (SKD61, etc.)	40 ~ 50 HRC	First choice	AH8015	MJ	80 - 100 - 130	0.1 - 0.15 - 0.2	0.1 - 0.2 - 0.3
Hardened steel (SKD11, etc.)	50 ~ 60 HRC	First choice	AH8015	MJ	50 - 60 - 70	0.03 - 0.04 - 0.05	0.03 - 0.05 - 0.07

DOUBLE-SIDE INSERTS HIGH FEED END MILLS

ITEM: DOFEED

General, multifunctional high feed mills

Coupling type Bore
Insert type LNMU03...
Application Multi-task
Rake angle A.R. +6° R.R. +5°~ +11°

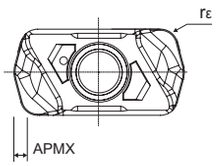




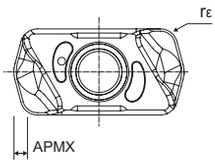
Tech. Code	Z	Dc mm	Dc1 mm	Db mm	d mm	l mm	Lf mm	b mm	a mm	KAPR	Air hole
B5F0440Z5	5	40	33,6	35	16	18	40	5.6	8.4	17°	With
B5F0440Z6	6	40	33,6	35	16	18	40	5,6	8,4	17°	With
B5F0450Z5	5	50	43,6	47	22	20	50	6.3	10.4	17°	With
B5F0450Z8	8	50	43,6	47	22	20	50	6,3	10,4	17°	With

Tech. Code	Version	Description	Denomination
BRICA109	All diameters	Clamping insert screw	CSPB-2.5

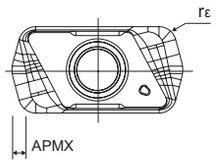
GEOMETRY AND CUTTING CONDITIONS



ML TYPE
Low cutting forces
$r\varepsilon$ =1,2 mm
APMX = 1 mm



MJ TYPE
General use
$r\varepsilon$ =1,2 mm
APMX = 1 mm



MS TYPE
Stainless steel
$r\varepsilon$ =1,2 mm
APMX = 1 mm

● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Quality	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MED. CUT.	ML		LNMU 0303ZER-ML	AH725	B5A2103MUML01	●	●	●		○	●	●		●	●
				AH130	B5A2103MUML02	●	●	●	●					●	
				AH8015	B5A2103MUML04	○	○	○			○				●
				AH3225	B5A2103MUML05	●	●	●	●	●	○				●
ROUGH.	MJ		LNMU 0303ZER-MJ	AH725	B5A3103MUMJ01	●	●	●			●	●			○
				AH130	B5A3103MUMJ02	●	●	●	●					●	
				AH8015	B5A3103MUMJ04	○	○	○			○				●
				AH3225	B5A3103MUMJ05	●	●	●	●	●	○				●
INOX	MS		LNMU 0303ZER-MS	AH130	B5A4103MUMS02				●	●				●	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Priority	Recommended grades	Geometry	Cutting speed Vc (m/min.)	Feed ø 16 ▯ 22 f/z mm	Feed ø 25 ▯ 32 f/z mm
Carbon steel (C45-C55, etc.)	~ 300 HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
	~ 300 HB	Low cutting forces	AH725	ML	100 - 200 - 300	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
	~ 300 HB	Impact-resistant	AH3225	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Alloy steel (42CRMo4, 17Cr3, etc.)	~ 300 HB	First choice	AH3225	MJ	100 - 150 - 200	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
	~ 300 HB	Low cutting forces	AH3225	ML	100 - 150 - 200	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
	~ 300 HB	Impact-resistant	AH3225	MJ	100 - 150 - 200	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Hardened and tempered steel (NAK80, PX5, etc.)	30 ~ 40 HRC	-	AH3225	MJ	100 - 150 - 200	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
Stainless steel (X5CrNi 18-9, etc.)	~ 200 HB	First choice	AH130	MS	80 - 120 - 150	0.3 - 0.4 - 0.5	0.3 - 0.5 - 0.7
	~ 200 HB	Impact-resistant	AH3225	MJ	100 - 120 - 150	0.3 - 0.5 - 0.8	0.3 - 0.6 - 0.8
Cast iron (GG25, GG30, etc.)	150 ~ 250HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Spheroidal cast iron (GGG40, etc.)	150 ~ 250HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Titanium alloys (Ti-6AL-4V, etc.)	~ 40 HRC	First choice	AH130	ML	30 - 40 - 60	0.3 - 0.4 - 0.5	0.3 - 0.5 - 0.7
Hardened steel (SKD61, etc.)	40 ~ 50 HRC	First choice	AH8015	MJ	80 - 100 - 130	0.1 - 0.15 - 0.2	0.1 - 0.2 - 0.3
Hardened steel (SKD11, etc.)	50 ~ 60 HRC	First choice	AH8015	MJ	50 - 60 - 70	0.03 - 0.04 - 0.05	0.03 - 0.05 - 0.07

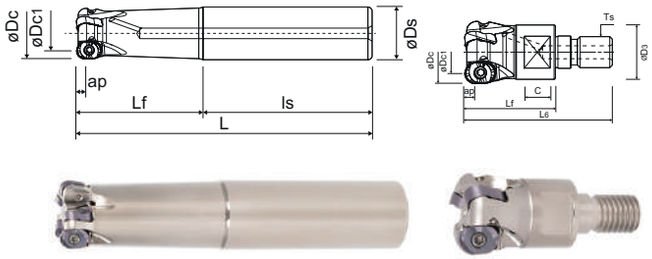
DOUBLE-SIDE INSERTS TOROIDAL END MILLS FOR ADVANCE FEED



ITEM: DOTWISTBALL

Multifuctional high feed end mills for various materials

Coupling type Cylindrical shank screw on
Insert type LNMX04..
Application Multi task
Rake angle A.R. +3° R.R = -12°~ +14°

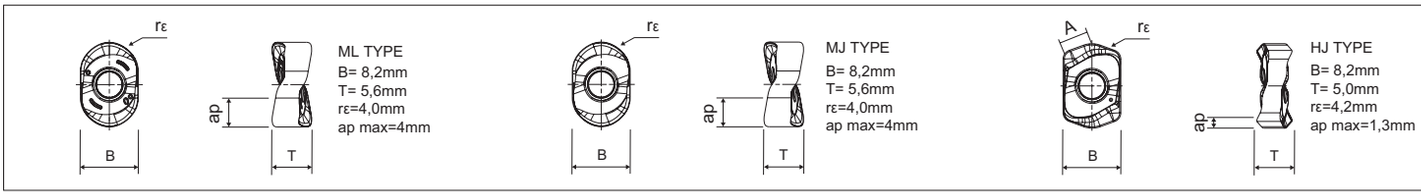


Tech. Code	Z	Dc mm	Ds mm	Dc1 mm	ls mm	Lf mm	L mm	Weight kg	Air hole
B5F0720Z2	2	20	20	12	80	50	130	0.28	With
B5F0725Z3	3	25	25	17	80	60	140	0.46	With
B5F0732Z4	4	32	32	24	80	70	150	0.83	With
B5F0732Z5	5	32	32	24	80	70	150	0.83	With

Tech. Code	Z	Dc mm	Dc1 mm	L6 mm	Lf mm	C mm	T mm	D3 mm	Ts	Weight kg	Air hole
B5F0820Z2	2	20	12	49	30	10	15	18	M10	0.07	With
B5F0825Z3	3	25	17	57	35	10	17	21	M12	0.16	With
B5F0832Z4	4	32	24	63	40	12	22	29	M16	0.20	With

Tech. Code	Version	Description	Denomination
BRICA203	All diameters	Insert screw	CSPD-3

GEOMETRY AND CUTTING CONDITIONS



● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MED. CUT.	ML		LNMX 0405R4-ML	AH120	B5A35MXML01		○	○			●	●		●	●
				AH3135	B5A35MXML02	●	●	●	●	●				○	●
ROUGH.	MJ		LNMX 0405R4-MJ	AH120	B5A36MXMJ01		○	○			●	●		●	●
				AH3135	B5A36MXMJ02	●	●	●	●	●				○	●
HIGH FEED	HJ		LNMX 0405ZER-HJ	AH120	B5A37MXHJ01		○	○			●	●		●	●
				AH3135	B5A37MXHJ02									○	●

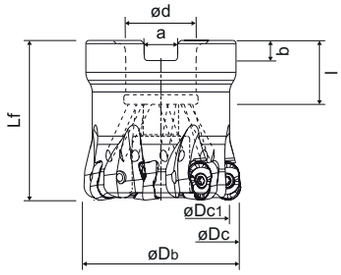
DOUBLE SIDE INSERTS TOROIDAL SHELL MILLS FOR ADVANCE FEED



ITEM: DOTWISTBALL

Multifuntional high speed end mills for various materials

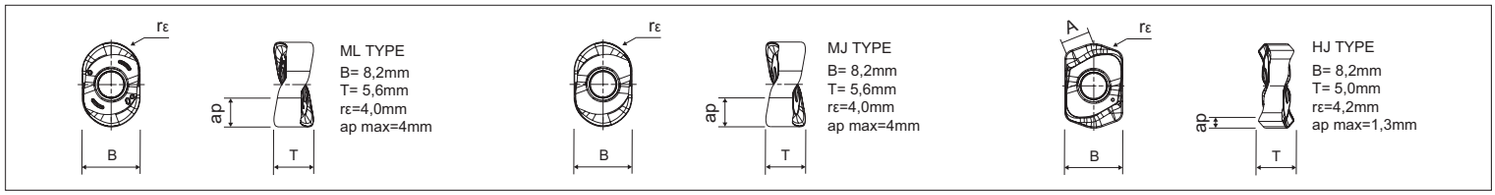
Coupling type Bore
Insert type LNMX04..
Application Multitask
Rake angle A.R. +3° R.R = -13°





Tech. Code	Z	Dc mm	Dc1 mm	Db mm	Lf mm	d mm	l mm	b mm	Ap max mm	Weight kg	Air hole
B5F0940Z6	6	40	32	35	40	16,00	18,00	5,60	4	0.35	With
B5F0950Z7	7	50	42	47	50	22,00	20,00	6,30	4	0.35	With

GEOMETRY AND CUTTING CONDITIONS



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MED. CUT.	ML		LNMX 0405R4-ML	AH120	B5A35MXML01		○	○			●	●		●	●
				AH3135	B5A35MXML02	●	●	●	●	●				○	●
ROUGH.	MJ		LNMX 0405R4-MJ	AH120	B5A36MXMJ01		○	○			●	●		●	●
				AH3135	B5A36MXMJ02	●	●	●	●	●				○	●
HIGH FEED	HJ		LNMX 0405ZER-HJ	AH120	B5A37MXHJ01		○	○			●	●		●	●
				AH3135	B5A37MXHJ02									○	●

RECOMMENDED CUTTING DATA

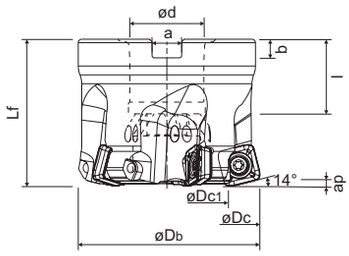
Material	Hardness Brinnell HB	Priority	Recommended geometries	Recommended grades	Cutting speed Vc (m/min.)	Feed MJ - ML f/z mm	Feed HJ f/z mm
Carbon steel (C45-C55, etc.)	~ 300 HB	Low cutting forces	ML	AH3135	150 - 250	0.20 - 0.60	0.50 - 1.30
	~ 300 HB	Impact resistant	MJ	AH3135	150 - 250	0.20 - 0.60	0.50 - 1.30
Alloy steel (42CRMo4, 17Cr3, etc.)	~ 300 HB	Low cutting forces	ML	AH3135	150 - 250	0.20 - 0.60	0.50 - 1.30
	~ 300 HB	Impact resistant	MJ	AH3135	150 - 250	0.20 - 0.60	0.50 - 1.30
Hardened and tempered steel (NAK80, PX5, etc.)	30 ~ 40 HRC	Low cutting forces	ML	AH3135	100 - 200	0.15 - 0.40	0.30 - 0.70
	30 ~ 40 HRC	Impact resistant	MJ	AH3135	100 - 200	0.15 - 0.40	0.30 - 0.70
Stainless steel (X5CrNi 18-9, etc.)	~ 200 HB	First choice	ML	AH3135	100 - 200	0.20 - 0.60	0.30 - 0.70
	~ 200 HB	Impact resistant	MJ	AH3135	100 - 200	0.20 - 0.60	0.30 - 0.70
Cast iron (GG25, GG30, etc.)	150 ~ 250HB	First choice	MJ	AH120	150 - 250	0.20 - 0.60	0.50 - 1.30
Spheroidal cast iron (GGG40, etc.)	150 ~ 250HB	First choice	MJ	AH120	150 - 250	0.20 - 0.60	0.50 - 1.30
Titanium alloys (Ti-6AL-4V, etc.)	~ 40HRC	First choice	ML	AH3135	20 - 50	0.15 - 0.40	0.30 - 0.70
Hardened steel (SKD61, etc.)	40 ~ 50 HRC	First choice	MJ	AH3135	50 - 150	0.10 - 0.30	0.10 - 0.50
Hardened steel (SKD11, etc.)	40 ~ 50 HRC	First choice	MJ	AH120	50 - 70	0.05 - 0.15	0.05 - 0.20

SINGLE-SIDE INSERTS SQUARE SHOULDERING END MILLS

ITEM: MILLQUADFEED

High feed multi-task end mill for various materials

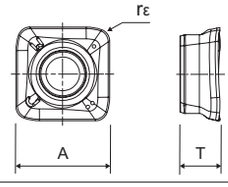
Coupling type	Bore
Insert type	SWMT1506...
Application	Multi-task
Rake angle	A.R. +5° R.R = 0°



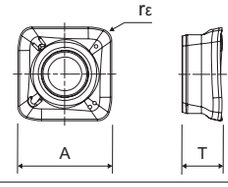


Tech. Code	Z	Dc mm	Dc1 mm	Db mm	Lf mm	d mm	l mm	a mm	b mm	Max Op. mm	Weight kg	Air hole
B5F1263Z4	4	63	37,1	59	50	22	20	10.4	6.3	2.5	0.66	With
B5F1280Z5	5	80	54,1	76	63	27	22	12.4	7	2.5	1.41	With
B5F12100Z6	6	100	74,1	96	63	32	25	14.4	8	2.5	2.26	With
B5F12125Z7	7	125	99,1	100	63	40	32	16.4	9	2.5	2.83	With
B5F12160Z8	8	160	134,1	100	63	40	32	16.4	9	2.5	4.23	With

GEOMETRY AND CUTTING CONDITIONS



MT TYPE
A = 15,925 mm
T = 6,8 mm
rε = 2,0 mm
ap max = 2,5 mm



MM TYPE
A = 16,01 mm
T = 6,8 mm
rε = 2,0 mm
ap max = 2,5 mm

● RECOMMENDED FOR... ○ USABLE FOR...

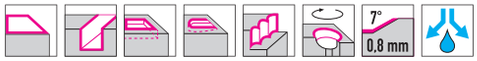
			Description	Grade	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
ROUG.	MT		SWMT 1506ZER-MT	AH120	B5A40MTMT01		○	○			●	●		●	●
	MM		SWMT 1506ZER-MM	AH3135	B5A45MMMM01	●	●	●	●	●				●	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Priority	Recommended geometries	Recommended grades	Cutting speed Vc (m/min.)	Progress f/z mm
Carbon steel (C45-C55, etc.)	~ 300 HB	First choice	MM	AH3135	100 - 300	0.5 - 2.0
	~ 300 HB	Second choice	MM	AH120	100 - 300	0.5 - 2.0
Alloy steel (42CRMo4, 17Cr3, etc.)	~ 300 HB	First choice	MM	AH3135	100 - 200	0.5 - 2.0
	~ 300 HB	Second choice	MM	AH120	100 - 200	0.5 - 2.0
Hardened and tempered steel (NAK80, PX5, etc.)	30 ~ 40HRC	First choice	MM	AH3135	100 - 200	0.5 - 1.5
	30 ~ 40HRC	Second choice	MM	AH120	100 - 200	0.5 - 1.5
Stainless steel (X5CrNi 18-9, etc.)	~ 200HB	First choice	MM	AH3135	100 - 150	0.3 - 1.0
	~ 200HB	First choice	MM	AH120	100 - 300	0.5 - 2.0
Cast iron (GG25, GG30, etc.)	150 ~ 250HB	First choice	MT	AH120	80 - 200	0.5 - 2.0
Spheroidal cast iron (GGG40, etc.)	150 ~ 250HB	First choice	MT	AH3135	30 - 60	0.3 - 0.7
Titanium alloys (Ti-6AL-4V, etc.)	~ 40HRC	First choice	MT	AH120	20 - 50	0.1 - 0.3
Hardened steel (SKD61, etc.)	40 ~ 50HRC	First choice	MT	AA120	80 - 130	0.1 - 0.3
Hardened steel (SKD11, etc.)	50 ~ 60HRC	First choice	MT	AH120	50 - 70	0.03 - 0.07

SINGLE-SIDE INSERTS SQUARE SHOULDERING END MILLS

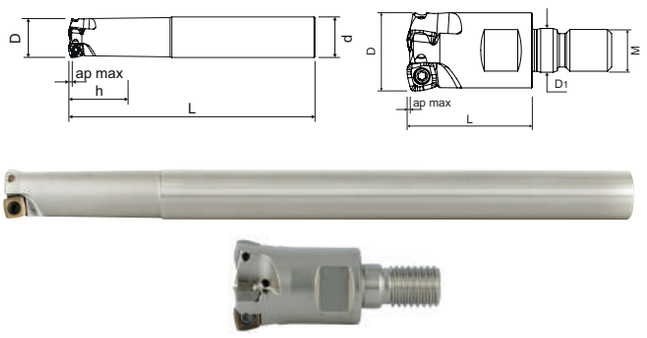
KERFOLG



ITEM: B5F10

High feed multi-task end mill for various materials

Coupling type Cylindrical shank - Screw-On
Insert type XPLT070305...
Application Roughing flat surfaces and 3D



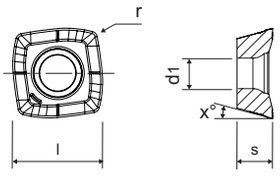
Tech. Code	Z	D mm	L mm	d ø mm	h mm	Max Op. mm	Air hole	Insert
B5F101607Z2	2	16	200	16	50	0,8	With	XPLT 070305 SR
B5F102007Z3	3	20	200	20	50	0,8	With	XPLT 070305 SR
B5F102507Z4	4	25	200	25	50	0,8	With	XPLT 070305 SR

Tech. Code	Z	D mm	L mm	D1 mm	Max Op. mm	M	Air hole	Insert
B5F111607Z2	2	16	43	8,5	0,8	8	With	XPLT 070305 SR
B5F112007Z3	3	20	49	10,5	0,8	10	With	XPLT 070305 SR
B5F112507Z4	4	25	57	12,5	0,8	12	With	XPLT 070305 SR

Tech. Code	Version	Description	Denomination
BRICA197	XPLT 070305 SR...	Clamping insert screw	BRICA197

GEOMETRY AND CUTTING CONDITIONS

KERFOLG



XPLT 070305...
l= 7,0mm
r= 0,5mm
x= 11°
s= 2,75mm
d1= 2,80mm

● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MED. CUT.	MM		XPLT 070305 SR MM	ST35	B5T1007XPMM10	●			○	●				●	
				ST40	B5T1007XPMM11				●	●				●	
ROUGH.	MR		XPLT 070305 SR MR	PH35	B5T1107XPMR10	●	●	●	○		○				
				MT35	B5T1107XPMR11	●		○	●	●				○	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Geometry	Cutting speed Vc (mt/min)	Feed fz/mm
Carbon steels (C45-C55 etc.)	~ 300HB	PH35	MR	180 - 260	0,1 - 1,5
Alloyed steel (42CRMo4, 17Cr3 etc.)	~ 300HB	PH35	MR	120 - 200	0,1 - 1,5
Hardened and tempered steels (NAK80, PX5 etc.)	30 ~ 40HRC	PH35	MR	60 - 160	0,1 - 1,5
Stainless steels (X5CrNi 18-9, etc.)	~ 200HB	MT35	MR	75 - 180	0,1 - 1,5
Titanium alloys (Ti-6Al-4V, etc.)	~ 40HRC	ST40	MM	25 - 75	0,1 - 0,5
Heat resistant alloys (Inconel 718, etc.)	-	ST35	MM	25 - 75	0,1 - 1,5

MULTIFUNCTIONAL END MILLS ROUND INSERTS

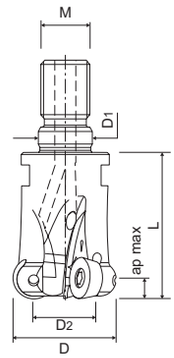
KERFOLG



ITEM: B6F15

Toroidal end mills with round inserts for face milling and pocketing.

Coupling type Screw-On
Insert type RD...0702MO - RD...1003MO
Application For profiling and pocketing.



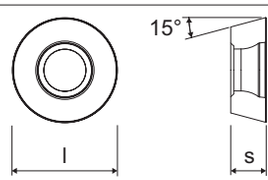


Tech. Code	Z	D mm	D2 mm	L mm	D1 mm	Ap max mm	M	Air hole	Insert
B6F151607Z3	3	16	9	23	8.5	3.5	8	With	RDPX0702MO
B6F152007Z4	4	20	13	30	10.5	3.5	10	With	RDPX0702MO
B6F152507Z5	5	25	18	35	12.5	3.5	12	With	RDPX0702MO
B6F152010Z2	2	20	10	30	10.5	5	10	With	RDPX1003MO
B6F152510Z3	3	25	15	35	12.5	5	12	With	RDPX1003MO
B6F153010Z4	4	30	20	43	17	5	16	With	RDPX1003MO
B6F153510Z5	5	35	25	45	17	5	16	With	RDPX1003MO

Tech. Code	Version	Description	Denomination
BRICA192	RDPX 0702MOSN...	Clamping insert screw	BRICA192
BRICA193	RDPX 1003MOSN... - RDPX 12T3MOSN...	Clamping insert screw	BRICA193
BRICA195	RDPX 12T3MOSN...	Clamping screw	BRICA195
BRICA004	All diameters	Key	BRICA004

GEOMETRY AND CUTTING CONDITIONS

KERFOLG



MR TYPE

RDPX 0702... l=7mm s=2,38mm
RDPX 1003... l=10mm s=3,18mm
RDPX 12T3... l=12mm s=3,97mm

● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
SGROSSATURA	MR		RDPX 0702MOSN MR	PH20	B6A2207RDMR01	○	●	●			●	○			●
			RDPX 1003MOSN MR		B6A2210RDMR02	○	●	●			●	○			●
			RDPX 12T3MOSN MR		B6A2212RDMR03	○	●	●			●	○			●
			RDPX 0702MOSN MR	PT20	B6A2207RDMR04		●	●	○		○				
			RDPX 1003MOSN MR		B6A2210RDMR05		●	●	○		○				
			RDPX 12T3MOSN MR		B6A2212RDMR06		●	●	○		○				

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Priority	Recommended grades	Geometry	Cutting speed Vc (m/min.)	Insert r = 3.5 mm P.D.T. - fz	Insert r = 5 mm P.D.T. - fz	Insert r = 6mm P.D.T. - fz
Alloyed steel (42CRMo4, 17Cr3 etc.)	~ 300HB	Roughing	PT20	MR	215 - 250	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
Hardened and tempered steels (NAK80, PX5 etc.)	30 ~ 40HRC	Roughing	PT20	MR	185 - 215	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
Hardened steels	40 ~ 50HRC	Roughing	PH20	MR	140 - 175	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
	50 ~ 56HRC	Roughing	PH20	MR	115 - 140	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80

MULTIFUNCTIONAL END MILLS FOR ROUND INSERTS

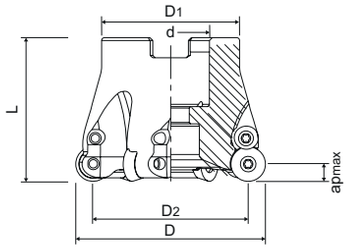
KERFOLG



ITEM: B6F20

Toroidal end mills with round inserts for face milling and pocketing.

Coupling type Bore
Insert type RD...1003MO - RD...12T3MO
Application Profiling and pocketing.



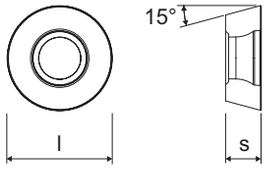


Tech. Code	Z	D mm	D2 mm	d mm	L mm	D1 mm	Ap max mm	Air hole	Insert
B6F204010Z5	5	40	30	16	40	37	5	With	RDPX1003MO
B6F205010Z6	6	50	40	22	40	44	5	With	RDPX1003MO
B6F205210Z6	6	52	42	22	50	44	5	With	RDPX1003MO
B6F204012Z4	4	40	28	16	40	37	6	With	RDPX12T3MO
B6F205012Z5	5	50	38	22	40	44	6	With	RDPX12T3MO
B6F205212Z5	5	52	40	22	50	44	6	With	RDPX12T3MO
B6F206312Z6	6	63	51	22	40	44	6	With	RDPX12T3MO
B6F206612Z6	6	66	54	27	50	60	6	With	RDPX12T3MO

Tech. Code	Version	Description	Denomination
BRICA192	RDPX 0702MOSN...	Clamping insert screw	BRICA192
BRICA193	RDPX 1003MOSN... - RDPX 12T3MOSN...	Clamping insert screw	BRICA193
BRICA195	RDPX 12T3MOSN...	Clamping screw	BRICA195
BRICA004	All diameters	Key	BRICA004

GEOMETRY AND CUTTING CONDITIONS

KERFOLG



MR TYPE

RDPX 0702... l=7mm s=2,38mm
RDPX 1003... l=10mm s=3,18mm
RDPX 12T3... l=12mm s=3,97mm

● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
SGROSSATURA	MR		RDPX 0702MOSN MR	PH20	B6A2207RDMR01	○	●	●			●	○			●
			RDPX 1003MOSN MR		B6A2210RDMR02	○	●	●			●	○			●
			RDPX 12T3MOSN MR		B6A2212RDMR03	○	●	●			●	○			●
			RDPX 0702MOSN MR	PT20	B6A2207RDMR04		●	●	○		○				
			RDPX 1003MOSN MR		B6A2210RDMR05		●	●	○		○				
			RDPX 12T3MOSN MR		B6A2212RDMR06		●	●	○		○				

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Priority	Recommended grades	Geometry	Cutting speed Vc (m/min.)	Insert r = 3.5 mm P.D.T. - fz	Insert r = 5 mm P.D.T. - fz	Insert r = 6mm P.D.T. - fz
Alloyed steel (42CRMo4, 17Cr3 etc.)	~ 300HB	Roughing	PT20	MR	215 - 250	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
Hardened and tempered steels (NAK80, PX5 etc.)	30 ~ 40HRC	Roughing	PT20	MR	185 - 215	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
Hardened steels	40 ~ 50HRC	Roughing	PH20	MR	140 - 175	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
	50 ~ 56HRC	Roughing	PH20	MR	115 - 140	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80

FINISHING INDEXABLE END MILLS



ITEM: BALLFINISHNOSE

End mills for toroidal inserts for finishings

Coupling type Cylindrical shank
Insert type ZFBM... - ZFRM...
Application Finishing of 3D profile

Fig. 1

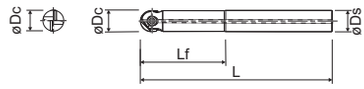
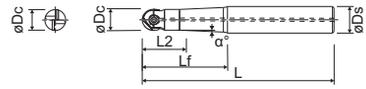


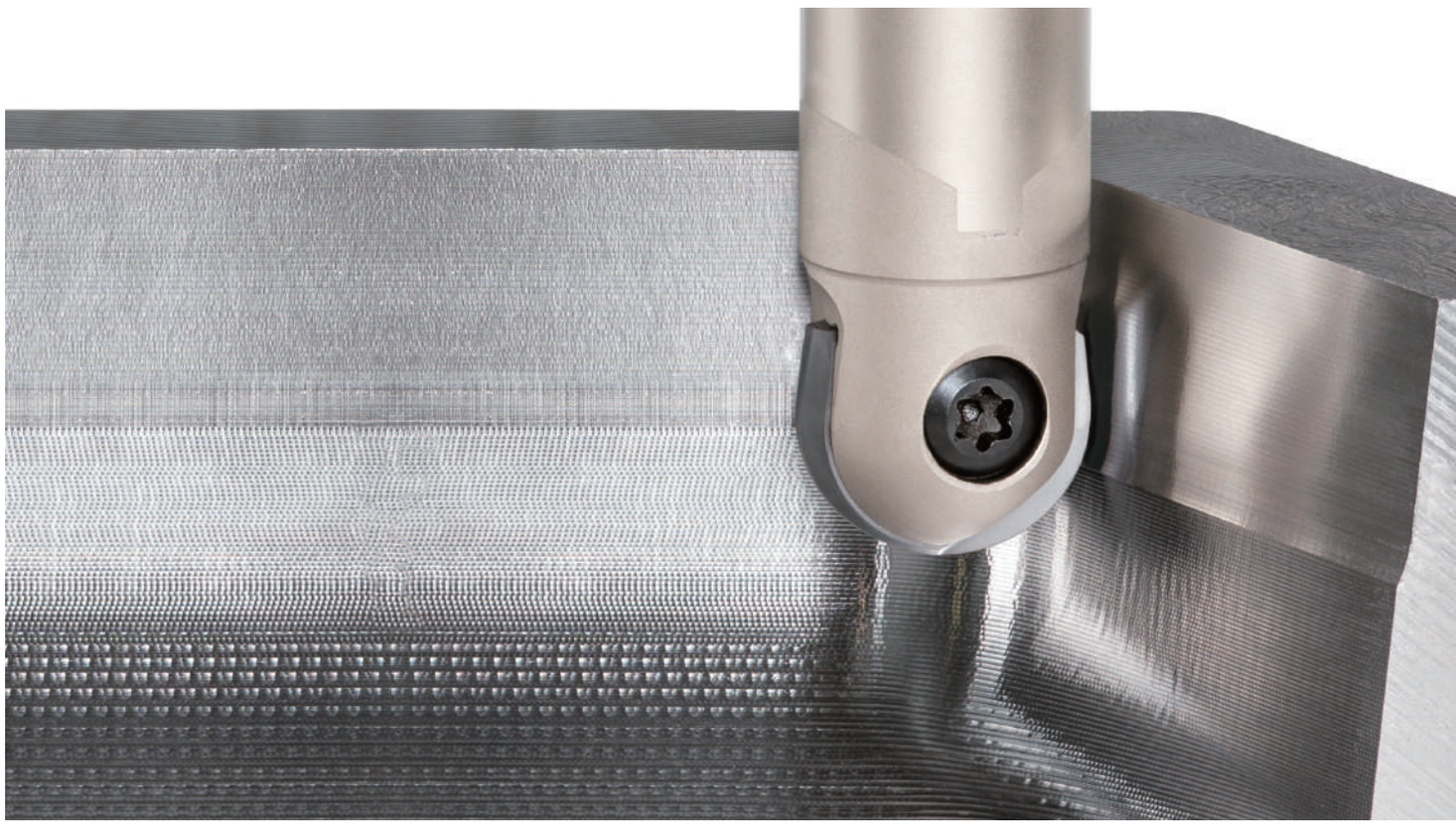
Fig. 2



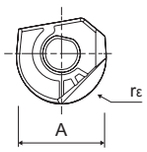


Tech. Code	Dc mm	Ds mm	L mm	Lf mm	L2 mm	α°	Fig.	Air hole
B6F300808100C	8	8	100	30	-	-	1	Without
B6F300808140C	8	8	140	65	-	-	1	Without
B6F300812100S	8	12	100	20	10	9,5	2	With
B6F301010140C	10	10	140	75	-	-	1	Without
B6F301010220C	10	10	220	140	-	-	1	Without
B6F301012100S	10	12	100	25	15	5	2	With
B6F301212160C	12	12	160	90	-	-	1	Without
B6F301212220C	12	12	220	150	-	-	1	Without
B6F301212110S	12	12	110	30	-	-	1	With
B6F301616160C	16	16	160	80	-	-	1	Without
B6F301616220C	16	16	220	150	-	-	1	Without
B6F301620130S	16	20	130	50	15,5	1,5	2	With
B6F302020220C	20	20	220	120	-	-	1	Without
B6F302020300C	20	20	300	220	-	-	1	Without
B6F302025180S	20	25	180	80	24	2,5	2	With
B6F302532200S	25	32	200	100	32	1,5	2	With

Tech. Code	Version	Description	Denomination
BRICA221	EBFM10...	Clamping insert screw	TS 30F100A
BRICA222	EBFM12...	Clamping insert screw	TS 40F120A
BRICA224	EBFM20...	Clamping insert screw	TS 60F200A
BRICA225	EBFM25...	Clamping insert screw	TS 70F250A

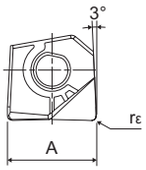


GEOMETRY AND CUTTING CONDITIONS - BALL FINISH NOSE





ZFBM080R00-MJ - A = 8,0mm T = 2,4mm rε = 4,0mm
ZFBM100R00-MJ - A = 10,0mm T = 2,9mm rε = 5,0mm
ZFBM120R00-MJ - A = 12,0mm T = 3,4mm rε = 6,0mm
ZFBM160R00-MJ - A = 16,0mm T = 4,4mm rε = 8,0mm
ZFBM200R00-MJ - A = 20,0mm T = 5,4mm rε = 10,0mm
ZFBM250R00-MJ - A = 25,0mm T = 6,4mm rε = 12,5mm





ZFRM120R05-MJ - A = 12,0mm T = 3,4mm rε = 0,5mm
ZFRM120R10-MJ - A = 12,0mm T = 3,4mm rε = 1,0mm
ZFRM160R05-MJ - A = 16,0mm T = 4,4mm rε = 0,5mm
ZFRM160R10-MJ - A = 16,0mm T = 4,4mm rε = 1,0mm
ZFRM200R10-MJ - A = 20,0mm T = 5,4mm rε = 1,0mm
ZFRM200R15-MJ - A = 20,0mm T = 5,4mm rε = 1,5mm

● RECOMMENDED FOR... ○ USABLE FOR…

						P			M		K		N	S	H
			Description	Grade	Tech. Code	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	MJ		ZFBM080R00-MJ	AH710	B6C05MJ0805	○	●	●			●	●			●
				AH725	B6C05MJ0806	●	●	●		○	○				○
			ZFBM100R00-MJ	AH710	B6C05MJ1007	○	●	●			●	●			●
				AH725	B6C05MJ1008	●	●	●		○	○				○
			ZFBM120R00-MJ	AH710	B6C05MJ1209	○	●	●			●	●			●
				AH725	B6C05MJ1210	●	●	●		○	○				○
			ZFBM160R00-MJ	AH710	B6C05MJ1611	○	●	●			●	●			●
				AH725	B6C05MJ1612	●	●	●		○	○				○
			ZFBM200R00-MJ	AH710	B6C05MJ2013	○	●	●			●	●			●
				AH725	B6C05MJ2014	●	●	●		○	○				○
			ZFBM250R00-MJ	AH710	B6C05MJ2515	○	●	●			●	●			●
				AH725	B6C05MJ2516	●	●	●		○	○				○
			ZFRM120R05-MJ	AH710	B6C10MJ1205	○	●	●			●	●			●
				AH725	B6C10MJ1206	●	●	●	○		○				○
			ZFRM120R10-MJ	AH710	B6C10MJ1207	○	●	●			●	●			●
				AH725	B6C10MJ1208	●	●	●	○		○				○
			ZFRM160R05-MJ	AH710	B6C10MJ1609	○	●	●			●	●			●
				AH725	B6C10MJ1610	●	●	●	○		○				○
			ZFRM160R10-MJ	AH710	B6C10MJ1611	○	●	●			●	●			●
				AH725	B6C10MJ1612	●	●	●	○		○				○
			ZFRM160R15-MJ	AH710	B6C10MJ1613	○	●	●			●	●			●
				AH725	B6C10MJ1614	●	●	●	○		○				○
			ZFRM200R10-MJ	AH710	B6C10MJ2015	○	●	●			●	●			●
				AH725	B6C10MJ2016	●	●	●	○		○				○
			ZFRM200R15-MJ	AH710	B6C10MJ2017	○	●	●			●	●			●
				AH725	B6C10MJ2018	●	●	●	○		○				○

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	First choice	Cutting speed VC (m/min)	SIDE CAVES Cutting speed	SIDE CAVES Feed
Low carbon content steels (C15 etc.)	~ 200	AH725	180 ~ 260	110 ~ 140	0,05 - 0,15
Carbon steels (C45-C55 etc.)	200 ~ 300	AH725	150 ~ 230	100 ~ 120	0,05 - 0,15
Alloyed steel (42CRMo4, 17Cr3 etc.)	150 ~ 300	AH725	180 ~ 300	100 120	0,05 - 0,15
Stainless steels (ex. X5CrNi 18-9, etc.)	-	AH725	100 ~ 250	60 ~ 120	0,03 - 0,12
Cast irons (GG25, GG30 etc.)	150 ~ 200	AH710	90 ~ 350	90~ 160	0,03 - 0,12
Spheroidal cast irons (GGG40 etc)	150 ~ 200	AH710	90 ~ 350	90 ~ 160	0,03 - 0,12
Aluminium alloys (Si<13%)	-	AH725	200 ~ 400	700 ~ 900	0,05 - 0,15

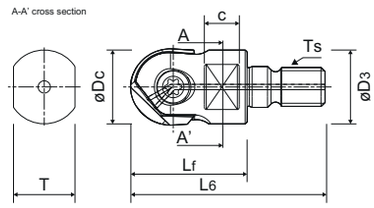
FINISHING INDEXABLE END MILLS



ITEM: BALLFINISHNOSE

Finishing end mills

Coupling type Threaded shank
Insert type ZFBM - ZBRM...
Application Moulds finishing



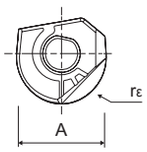


Tech. Code	Dc mm	D3 mm	L6 mm	Lf mm	C mm	Ts mm	Air hole
B6F3110M06	10	9,7	34,5	20	5	M6	With
B6F3112M06	12	11,5	37,5	23	5	M6	With
B6F3116M08	16	13	47	30	8	M8	With
B6F3120M10	20	19	49	30	10	M10	With
B6F3125M12	25	24	57	35	10	M12	With

Tech. Code	Version	Description	Denomination
BRICA220	EBFM08...	Clamping insert screw	TS 25F080A
BRICA221	EBFM10...	Clamping insert screw	TS 30F100A
BRICA222	EBFM12...	Clamping insert screw	TS 40F120A
BRICA224	EBFM20...	Clamping insert screw	TS 60F200A
BRICA225	EBFM25...	Clamping insert screw	TS 70F250A

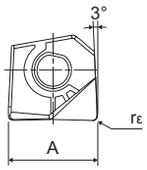
ALPA metrology
Accuracy
Repeatability
Reliability

GEOMETRY AND CUTTING CONDITIONS - BALL FINISH NOSE





ZFBM080R00-MJ - A = 8,0mm T = 2,4mm rε = 4,0mm
ZFBM100R00-MJ - A = 10,0mm T = 2,9mm rε = 5,0mm
ZFBM120R00-MJ - A = 12,0mm T = 3,4mm rε = 6,0mm
ZFBM160R00-MJ - A = 16,0mm T = 4,4mm rε = 8,0mm
ZFBM200R00-MJ - A = 20,0mm T = 5,4mm rε = 10,0mm
ZFBM250R00-MJ - A = 25,0mm T = 6,4mm rε = 12,5mm





ZFRM120R05-MJ - A = 12,0mm T = 3,4mm rε = 0,5mm
ZFRM120R10-MJ - A = 12,0mm T = 3,4mm rε = 1,0mm
ZFRM160R05-MJ - A = 16,0mm T = 4,4mm rε = 0,5mm
ZFRM160R10-MJ - A = 16,0mm T = 4,4mm rε = 1,0mm
ZFRM200R10-MJ - A = 20,0mm T = 5,4mm rε = 1,0mm
ZFRM200R15-MJ - A = 20,0mm T = 5,4mm rε = 1,5mm

● RECOMMENDED FOR... ○ USABLE FOR…

						P			M		K		N	S	H
			Description	Grade	Tech. Code	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	MJ		ZFBM080R00-MJ	AH710	B6C05MJ0805	○	●	●			●	●			●
				AH725	B6C05MJ0806	●	●	●		○	○				○
			ZFBM100R00-MJ	AH710	B6C05MJ1007	○	●	●			●	●			●
				AH725	B6C05MJ1008	●	●	●		○	○				○
			ZFBM120R00-MJ	AH710	B6C05MJ1209	○	●	●			●	●			●
				AH725	B6C05MJ1210	●	●	●		○	○				○
			ZFBM160R00-MJ	AH710	B6C05MJ1611	○	●	●			●	●			●
				AH725	B6C05MJ1612	●	●	●		○	○				○
			ZFBM200R00-MJ	AH710	B6C05MJ2013	○	●	●			●	●			●
				AH725	B6C05MJ2014	●	●	●		○	○				○
			ZFBM250R00-MJ	AH710	B6C05MJ2515	○	●	●			●	●			●
				AH725	B6C05MJ2516	●	●	●		○	○				○
			ZFRM120R05-MJ	AH710	B6C10MJ1205	○	●	●			●	●			●
				AH725	B6C10MJ1206	●	●	●	○		○				○
			ZFRM120R10-MJ	AH710	B6C10MJ1207	○	●	●			●	●			●
				AH725	B6C10MJ1208	●	●	●	○		○				○
			ZFRM160R05-MJ	AH710	B6C10MJ1609	○	●	●			●	●			●
				AH725	B6C10MJ1610	●	●	●	○		○				○
			ZFRM160R10-MJ	AH710	B6C10MJ1611	○	●	●			●	●			●
				AH725	B6C10MJ1612	●	●	●	○		○				○
			ZFRM160R15-MJ	AH710	B6C10MJ1613	○	●	●			●	●			●
				AH725	B6C10MJ1614	●	●	●	○		○				○
			ZFRM200R10-MJ	AH710	B6C10MJ2015	○	●	●			●	●			●
				AH725	B6C10MJ2016	●	●	●	○		○				○
			ZFRM200R15-MJ	AH710	B6C10MJ2017	○	●	●			●	●			●
				AH725	B6C10MJ2018	●	●	●	○		○				○

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	First choice	Cutting speed VC (m/min)	SIDE CAVES Cutting speed	SIDE CAVES Feed
Low carbon content steels (C15 etc.)	~ 200	AH725	180 ~ 260	110 ~ 140	0,05 - 0,15
Carbon steels (C45-C55 etc.)	200 ~ 300	AH725	150 ~ 230	100 ~ 120	0,05 - 0,15
Alloyed steel (42CRMo4, 17Cr3 etc.)	150 ~ 300	AH725	180 ~ 300	100 120	0,05 - 0,15
Stainless steels (ex. X5CrNi 18-9, etc.)	-	AH725	100 ~ 250	60 ~ 120	0,03 - 0,12
Cast irons (GG25, GG30 etc.)	150 ~ 200	AH710	90 ~ 350	90~ 160	0,03 - 0,12
Spheroidal cast irons (GGG40 etc)	150 ~ 200	AH710	90 ~ 350	90 ~ 160	0,03 - 0,12
Aluminium alloys (Si<13%)	-	AH725	200 ~ 400	700 ~ 900	0,05 - 0,15

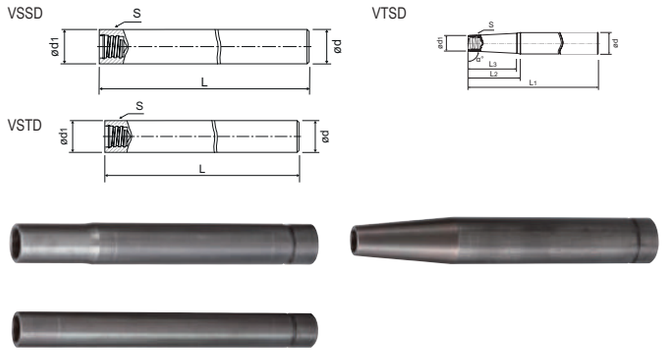
MULTIFUNCTIONAL MILLING TOOL WITH INTERCHANGEABLE HEADS - SCREW ON COUPLING



ITEM: TUNGMEISTER

Multifunctional milling for different material

Coupling type Cylindrical screw on
Insert type Interchangeable heads
Application Multifunctional



Tech. Code	Ød mm	Ød1 mm	L1 mm	L2 mm	L3 mm	S mm	Shank material
B6F4008060S	8	7,6	60	15	15	S05	STEEL
B6F4010075S	10	9,6	75	20	20	S06	STEEL
B6F4012090S	12	11,5	90	16	16	S08	STEEL
B6F4016100S	16	15,2	100	20	20	S10	STEEL
B6F4020120S	20	18,3	120	25	25	S12	STEEL

Tech. Code	Ød mm	α° mm	Ød1 mm	L1 mm	L2 mm	L3 mm	S mm	Shank material
B6F4112100S	12	89°	7,6	100	35	29	S05	STEEL
B6F4116160S	16	89°	9,6	160	55	46,5	S06	STEEL
B6F4120170S	20	89°	11,5	170	80	69,5	S08	STEEL
B6F4120190S	20	89°	15,2	190	80	73	S10	STEEL
B6F4125210S	25	89°	18,3	210	100	94,5	S12	STEEL

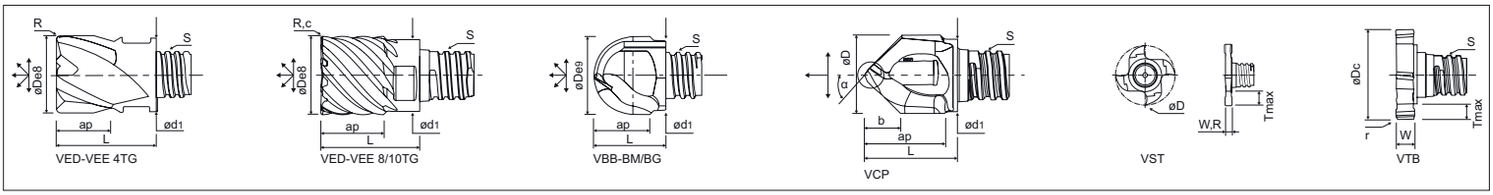
Tech. Code	Ød mm	Ød1 mm	L mm	S mm	Shank material
B6F4208070S	8	8	70	S05	STEEL
B6F4210080S	10	10	80	S06	STEEL
B6F4212090S	12	12	90	S08	STEEL
B6F4216100S	16	16	100	S10	STEEL

Tech. Code	Version	Description	Denomination
BRICA230	S05	Wrench	KEYV-S05
BRICA231	S06	Wrench	KEYV-S06
BRICA232	S08	Wrench	KEYV-S08
BRICA233	S10	Wrench	KEYV-S10
BRICA234	S12	Wrench	KEYV-S12
BRICA235	S08	Wrench	KEYV-217

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Recommended grades	Cutting speed VC (m/min)	SIDE SLOTS Cutting speed	SIDE SLOTS Feed
Low carbon content steels (C15 etc.)	~ 200	AH725 - GH730	180 ~ 260	110 ~ 140	0,05 - 0,15
Carbon steels (C45-C55 etc.)	200 ~ 300	AH725 - GH730	150 ~ 230	100 ~ 120	0,05 - 0,15
Alloyed steel (42CRMo4, 17Cr3 etc.)	150 ~ 300	AH725 - GH730	180 ~ 300	100 120	0,05 - 0,15
Stainless steels (ex. X5CrNi 18-9, etc.)	-	AH725 - GH730	100 ~ 250	60 ~ 120	0,03 - 0,12
Cast irons (GG25, GG30 etc.)	150 ~ 200	AH725 - GH730	90 ~ 350	90 ~ 160	0,03 - 0,12
Spheroidal cast irons (GGG40 etc)	150 ~ 200	AH725 - GH730	90 ~ 350	90 ~ 160	0,03 - 0,12
Aluminium alloys (Si<13%)	-	AH725 - GH730	200 ~ 400	700 ~ 900	0,05 - 0,15
High hardened steels	55HRC	AH725 - GH730	40 ~ 80	-	-

RECOMMENDED HEADS AND CONDITIONS - TUNGMEISTER



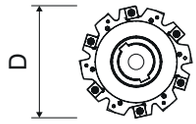
● RECOMMENDED FOR... ○ USABLE FOR…

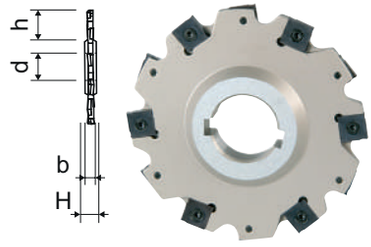
		Description	Grade	Tech. Code	D mm	ap/W mm	L/T max mm	Helix α°	R	P <1200 N/mm²	M <600 N/mm²	K <240 HB	N Alu	S HTA	H <60 HRC
SLOTTING		VED080L05.0R05-04S05	AH725	B6V0508R0504	8	5	10	30	0,5	●	○	○		○	○
		VED100L07.0R05-04S06		B6V0510R0504	10	7	13			●	○	○		○	○
		VED120L09.0R05-04S08		B6V0512R0504	12	9	16,5			●	○	○		○	○
		VED120L09.0R10-04S08		B6V0512R1004					1	●	○	○		○	○
		VED160L12.0R10-04S10		B6V0512R2004	16	12	20,5			●	○	○		○	○
		VED160L12.0R20-04S10		B6V0516R1004					2	●	○	○		○	○
		VED200L6.0R10-04S12		B6V0520R1004	20	15	25,5		1	●	○	○		○	○
		VED200L15.0R20-04S12		B6V0520R2004					2	●	○	○		○	○
SUPERFINISH		VED160L12.0R05-08S10		B6V0816R0508	16	12	20,5		0,5	●	○	○		○	○
		VED160L12.R10-08S10		B6V0816R1008					1	●	○	○		○	○
		VED160L12.0R16-08S10		B6V0816R1608					1,6	●	○	○		○	○
		VED160L12.0R20-08S10		B6V0816R2008					2	●	○	○		○	○
		VED200L15.0R10-10S12		B6V0820R1010	20	15	25,5		1	●	○	○		○	○
		VED200L15.0R20-10S12		B6V0820R2010					2	●	○	○		○	○
COPYING		VBB080L08.0-BG-02S05	AH750	B6V1008BG02	8	8	10	0	4	●	○	○		○	○
		VBB080L08.0-BM-02S05	AH725	B6V1008BM02	10	10	12,4		5	●	○	○		○	○
		VBB100L10.0-BG-02S06	AH750	B6V1010BG02	12	11,5	15,3		6	●	○	○		○	○
		VBB100L10.0-BM-02S06	AH725	B6V1010BM02	16	15,2	19,1		8	●	○	○		○	○
		VBB120L12.0-BG-02S08	AH750	B6V1012BG02	8	8	10		4	●	○	○		○	○
		VBB120L12.0-BM-02S08	AH725	B6V1012BM02	10	10	12,4		5	●	○	○		○	○
		VBB160L16.0-BG-02S10	AH750	B6V1016BG02	12	12	15,3		6	●	○	○		○	○
		VBB160L16.0-BM-02S10	AH725	B6V1016BM02	16	16	19,1		8	●	○	○		○	○
CENTERING AND CHAMFERING		VCP080L07.7A45-02S05	AH725	B6V1508A4502	8	7,5	9,75	45	-	●	○	○		○	○
		VCP100L09.5A30-02S06		B6V1510A3002	10	8,5	11,75	30		●	○	○		○	○
		VCP100L09.0A45-02S06		B6V1510A4502		9,5		45		●	○	○		○	○
		VCP100L09.5A60-02S06		B6V1510A6002			12,7	60		●	○	○		○	○
		VCP120L12.0A30-02S08		B6V1512A3002	12	11	15,4	30		●	○	○		○	○
		VCP120L12.0A45-02S08		B6V1512A4502		11,5		45		●	○	○		○	○
		VCP120L12.0A60-02S08		B6V1512A6002			15,2	60		●	○	○		○	○
		VCP160L15.0A30-02S10		B6V1516A3002	16	16	20,2	30		●	○	○		○	○
		VCP160L15.0A45-02S10		B6V1516A4502		15	18,8	45		●	○	○		○	○
		VCP160L15.5A60-02S10		B6V1516A6002		16	19,9	60		●	○	○		○	○
SIDE SLOTTING AND SEEGER DIN 471-472		VST217W1.00R005-4S08	GH730	B6V21W1,0004	21,7	1	2	0	0,05	●	●	●		●	○
		VST217W1.20R005-4S08		B6V21W1,2004		1, 2	4,5			●	●	●		●	○
		VST217W1.40R005-4S08		B6V21W1,4004		1,4				●	●	●		●	○
		VST217W1.57R000-4S08		B6V21W1,5704		1,57			0	●	●	●		●	○
		VST217W1.70R010-4S08		B6V21W1,7004		1,7			0,1	●	●	●		●	○
		VST217W1.95R020-4S08		B6V21W1,9504		1,95			0,2	●	●	●		●	○
		VST217W2.00R020-4S08		B6V21W2,0004		2				●	●	●		●	○
		VST217W2.25R020-4S08		B6V21W2,2504		2,25				●	●	●		●	○
		VST217W2.39R020-4S08		B6V21W2,3904		2,29				●	●	●		●	○
		VST217W2.50R020-4S08		B6V21W2,5004		2,5				●	●	●		●	○
		VST217W2.75R020-4S08		B6V21W2,7504		2,75				●	●	●		●	○
		VST217W3.00R020-4S08		B6V21W3,0004		3				●	●	●		●	○
SIDE SLOTTING		VTB135W4.00R04-06S05		B6V26135W404	13,5	4	2,65		0,4	●	●	●		●	○
		VTB160W4.00R04-06S06		B6V26160W404	16		2,9			●	●	●		●	○
		VTB165W4.00R04-06S06		B6V26165W404	16,5		3,15			●	●	●		●	○
		VTB195W4.00R04-06S08		B6V26195W404	19,5		3,45			●	●	●		●	○
		VTB195W5.00R04-06S08		B6V26195W504		5				●	●	●		●	○
		VTB195W6.00R04-06S08		B6V26195W604		6				●	●	●		●	○
		VTB225W5.00R04-06S08		B6V26225W505	22,5	5	4,95			●	●	●		●	○
		VTB225W6.00R04-06S08		B6V26225W604		6				●	●	●		●	○
		VTB250W5.00R04-06S10		B6V26250W504	25	5	4,3			●	●	●		●	○
		VTB250W6.00R04-06S08		B6V26250W604		6	5,9			●	●	●		●	○

ITEM: B7F10

Disk end mills for grooving and cutting works

Coupling type with hole
Insert type SNHX11... - SNHX12...
Application Slotting and cutting on all materials





Tech. Code	Z	D mm	b mm	h mm	H mm	d mm	Factor K	Air hole	Insert
B7F10634	8	63	4	14	8	22	4	Without	SNHX 1102T
B7F10635	8	63	5	14	8	22	4	Without	SNHX 1103T
B7F10636	6	63	6	14	8	22	3	Without	SNHX 1203T
B7F10804	10	80	4	22	8	22	5	Without	SNHX 1102T
B7F10805	10	80	5	22	8	22	5	Without	SNHX 1103T
B7F10806	8	80	6	22	8	22	4	Without	SNHX 1203T
B7F101004	12	100	4	25	12	27	6	Without	SNHX 1102T
B7F101005	12	100	5	25	12	27	6	Without	SNHX 1103T
B7F101006	10	100	6	25	12	27	5	Without	SNHX 1203T
B7F1010010	10	100	10	25	12	27	5	Without	SNHX 1205T
B7F101254	12	125	4	31	12	40	6	Without	SNHX 1102T
B7F101255	12	125	5	31	12	40	6	Without	SNHX 1103T
B7F101256	12	125	6	31	12	40	6	Without	SNHX 1203T
B7F101604	18	160	4	44	12	40	9	Without	SNHX 1102T
B7F101605	18	160	5	44	12	40	9	Without	SNHX 1103T
B7F101606	16	160	6	44	12	40	8	Without	SNHX 1203T
B7F1016010	16	160	10	44	12	40	8	Without	SNHX 1205T
B7F102004	18	200	4	62	12	50	9	Without	SNHX 1102T
B7F102005	18	200	5	62	12	50	9	Without	SNHX 1103T
B7F102006	18	200	6	62	12	50	9	Without	SNHX 1203T
B7F1020010	18	200	10	62	12	50	9	Without	SNHX 1205T

Tech. Code	Description	Insert
BRICA087	Clamping insert screw	SNHX1102T
BRICA088	Clamping insert screw	SNHX1103T
BRICA089	Clamping insert screw	SNHX1203T
BRICA090	Clamping insert screw	SNHX1205T

Tech. Code	Description	Insert
BRICA016	Key	SNHX1102T
BRICA016	Key	SNHX1103T
BRICA004	Key	SNHX1203T
BRICA004	Key	SNHX1205T



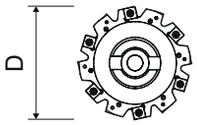
GROOVING AND SLOTTING CUTTERS

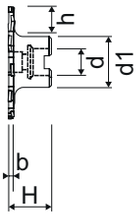
KERFOLG

ITEM: B7F11

Disk end mills for grooving and cutting works

Coupling type Bore
Insert type SNHX11... - SNHX12...
Application Slotting and cutting on all materials





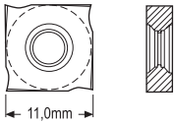


Tech. Code	Z	D mm	b mm	h mm	H mm	d mm	d1 mm	Air hole	Insert
B7F11634	8	63	4	10.5	50	22	40	Without	SNHX 1102T
B7F11635	8	63	5	10.5	50	22	40	Without	SNHX 1103T
B7F11636	6	63	6	10.5	50	22	40	Without	SNHX 1203T
B7F11804	10	80	4	20	50	22	40	Without	SNHX 1102T
B7F11805	10	80	5	20	50	22	40	Without	SNHX 1103T
B7F11806	8	80	6	20	50	22	40	Without	SNHX 1203T
B7F111004	12	100	4	24.2	50	27	48	Without	SNHX 1102T
B7F111005	12	100	5	24.2	50	27	48	Without	SNHX 1103T
B7F111006	10	100	6	24.2	50	27	48	Without	SNHX 1203T
B7F1110010	10	100	10	24.2	50	27	48	Without	SNHX 1205T
B7F111256	12	125	6	23,7	50	40	70	Without	SNHX 1203T
B7F1112510	12	125	10	23,7	50	40	70	Without	SNHX 1205T
B7F111606	16	160	6	41,2	50	40	70	Without	SNHX 1203T
B7F1116010	16	160	10	41,2	50	40	70	Without	SNHX 1205T

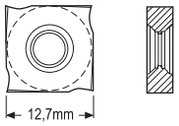
GEOMETRY AND CUTTING CONDITIONS

KERFOLG

SNHX 1102T MM
SNHX 1103T MM
SNHX 1102 AL
SNHX 1103 AL



SNHX 1203T MM
SNHX 1205T MM
SNHX 1203 AL
SNHX 1205 AL



● RECOMMENDED FOR... ○ USABLE FOR…

			Description	Quality	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MM		SNHX 1102T MM	PT30	B7A2111SNMM01	●	●	○	○		○			○	
			SNHX 1103T MM		B7A2111SNMM02	●	●	○	○		○			○	
			SNHX 1203T MM		B7A2112SNMM10	●	●	○	○		○			○	
			SNHX 1205T MM		B7A2112SNMM13	●	●	○	○		○			○	
	AL		SNHX 1102 AL	HT15	B7A4111SNAL01								●		
			SNHX 1103 AL		B7A4111SNAL02								●		
			SNHX 1203 AL		B7A4112SNAL10								●		
			SNHX 1205 AL		B7A4112SNAL13								●		

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Degrees Recommended	Cutting speed Speed (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	PT30	140 - 220	0.08 - 0.16
High carbon content steel (C45E, C55E, etc.)	~ 300	PT30	110 - 160	0.06 - 0.15
Tool steel (X155CrVMo 12 1, etc.)	~ 300	PT30	90 - 130	0.05 - 0.10
Stainless steel (X5CrNi 18-9, etc.)	-	PT30	80 - 120	0.05 - 0.10
Grey cast iron (GG25, GG30, etc.) Spheroidal cast iron (GGG40, etc.)	150 ~ 250	PT30	100 - 180	0.08 - 0.16
Heat-resistant alloys (Inconel 718, Ti-6Al-4V, etc.)	-	PT30	40 - 60	0.05 - 0.10

Cutting conditions relating to ae = 10% x D. Apply adjustment factor if ae different from 10%.

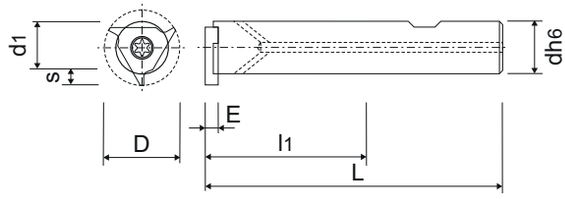
MILLING TOOL FOR INTERNAL AND EXTERNAL GROOVING

KERFOLG

ITEM: B7F15

Circular milling tools

Tipo di attacco Cylindrical and weldon shanks
Tipo inserto 14...
Applicazione Side slots, Seeger and O-ring seats





Tech. Code	Denomination	Material	Z	D min mm	D mm	l1 mm	d h6 mm	d1 mm	S max mm	E mm	L mm	Air hole	Dim D Inserts mm
B7F1507901	123491	Steel	3	8	7.9	19.20	10	7.2	0.35	2.00	59.20	Without	7.9
B7F1510601	123477	Steel	3	11	10.6	19.54	10	7.4	1.60	2.34	59.54	Without	10.6
B7F1510602	123478	Steel	3	11	10.6	19.54	12	7.4	1.60	2.34	67.00	Without	10.6
B7F1510603	123480	HM	3	11	10.6	36.54	10	7.4	1.60	2.34	76.54	With	10.6
B7F1510604	123479	Steel	3	11	10.6	19.54	12	7.4	1.60	2.34	67.00	Without	10.6
B7F1510605	123489	HM	3	11	10.6	-	8	8.0	1.25	2.34	80.00	With	10.6

Tech. Code	Denomination	Material	Z	D min mm	D mm	l1 mm	d h6 mm	d1 mm	S max mm	E mm	L mm	Air hole	Dim D Inserts mm
B7F1617501	123445	Steel	3	20	17.5	32.20	12	12	2.60	3.50	77.55	With	17.5
B7F1617502	123446	Steel	3	20	17.5	32.20	16	12	2.60	3.50	82.10	With	17.5
B7F1617503	123448	HM	3	20	17.5	67.20	12	12	2.60	3.50	112.20	With	17.5
B7F1617504	123447	Steel	3	20	17.5	32.20	16	12	2.60	3.50	82.10	With	17.5
B7F1617506	123471	HM	3	20	17.5	-	12	12	2.60	3.50	100.00	With	17.5

Tech. Code	Denomination	Material	Z	D min mm	D mm	l1 mm	d h6 mm	d1 mm	S max mm	E mm	L mm	Air hole	Dim D Inserts mm
B7F1723001	123412	Steel	3	25	23	42.50	16	16	3.45	4	91.00	With	23
B7F1723002	123414	Steel	3	25	23	71.50	16	16	3.45	4	120.00	With	23
B7F1723004	123416	HM	3	25	23	92.50	16	17	3.00	4	141.00	With	23
B7F1723005	123415	Steel	3	25	23	45.00	20	17	3.00	4	97.00	With	23
B7F1723006	123440	HM	3	25	23	-	16	16	3.45	4	115.00	With	23

Tech. Code	Version	Description	Denomination
BRICA151	For insert Ø 7.9mm and Ø 10.6mm	Torx screwdriver	BRICA151
BRICA111	For insert Ø 7.9mm and Ø 10.6mm	Clamping insert screw	BRICA 111
BRICA004	All diameters	Key	BRICA004
BRICA113	For insert Ø 17.5mm	Clamping insert screw	BRICA113
BRICA135	For Ø 16.0mm	Wrench	BRICA135
BRICA115	For insert Ø 23.0mm	Clamping insert screw	BRICA115

Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10

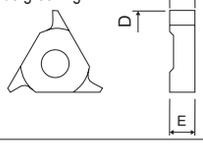


The products are available in chapter K

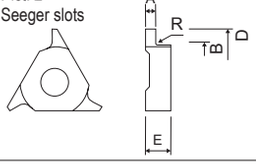
GEOMETRY AND CUTTING CONDITIONS

KERFOLG

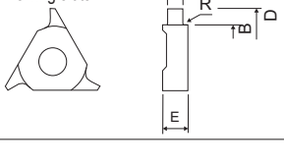
Pict. 1
Side grooving



Pict. 2
Seeger slots



Pict. 3
O-ring slots



- Hard metal inserts with retified profile
- Coating TiAlN

			Description	Tech. Code	A mm	E mm	B mm	D mm	R mm	P <850 N/mm²	M <600 N/mm²	K <240 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	Pict. 1		141719	**B7B1007200**	2.00	2.34	-	7.90	-	●	●	●	●	●	○
			141642	**B7B1010234**	2.34			10.60		●	●	●	●	●	○
			141669	**B7B1010300**	3.00	3.00				●	●	●	●	●	○
			141533	**B7B1017350**	3.50	3.50		17.50		●	●	●	●	●	○
			141535	**B7B1017500**	5.00	5.00				●	●	●	●	●	○
			141544	**B7B1017600**	6.00	6.00				●	●	●	●	●	○
			141361	**B7B1023400**	4.00	4.00		23.00		●	●	●	●	●	○
			141396	**B7B1023650**	6.50	6.50				●	●	●	●	●	○
	Pict.2		141726	**B7B1207098**	0.98	2.34	0.30	7.90	0.30	●	●	●	●	●	○
			141611	**B7B1210098**				10.60		●	●	●	●	●	○
			141567	**B7B1210118**	1.18		0.60			●	●	●	●	●	○
			141609	**B7B1210130**	1.38		0.80			●	●	●	●	●	○
			141630	**B7B1210168**	1.68		1.00			●	●	●	●	●	○
			141574	**B7B1210193**	1.93		1.40			●	●	●	●	●	○
			141416	**B7B1217098**	0.98	3.50	0.70	17.50		●	●	●	●	●	○
			141435	**B7B1217118**	1.18		0.90			●	●	●	●	●	○
			141431	**B7B1217138**	1.38		1.10			●	●	●	●	●	○
			141454	**B7B1217168**	1.68		1.25			●	●	●	●	●	○
			141436	**B7B1217193**	1.93					●	●	●	●	●	○
			141437	**B7B1217223**	2.23		1.75			●	●	●	●	●	○
			141477	**B7B1217273**	2.73					●	●	●	●	●	○
			141440	**B7B1217323**	3.23		2.20			●	●	●	●	●	○
			141254	**B7B1223098**	0.98	4.00	0.70	23.00		●	●	●	●	●	○
			141245	**B7B1223118**	1.18		0.90			●	●	●	●	●	○
			141261	**B7B1223138**	1.38		1.10			●	●	●	●	●	○
			141255	**B7B1223168**	1.68		1.25			●	●	●	●	●	○
			141269	**B7B1223193**	1.93					●	●	●	●	●	○
			141258	**B7B1223223**	2.23		1.75			●	●	●	●	●	○
			141264	**B7B1223273**	2.73					●	●	●	●	●	○
			141293	**B7B1223323**	3.23		2.20			●	●	●	●	●	○
	Pict.3		141654	**B7B1410228**	2.28	3.00	1.45	10.60	0.20	●	●	●	●	●	○
			141510	**B7B1417228**		3.50		17.50		●	●	●	●	●	○
			141470	**B7B1417308**	3.08	5.00	2.30			●	●	●	●	●	○
			141236	**B7B1423228**	2.28	4.00	1.45	23.00		●	●	●	●	●	○
			141277	**B7B1423308**	3.08		2.30			●	●	●	●	●	○
			141306	**B7B1423408**	4.08	5.00	3.10			●	●	●	●	●	○

● RECOMMENDED FOR... ○ USABLE FOR…

RECOMMENDED CUTTING DATA

Material	Hardness	Degrees Recommended	Cutting speed VC (m/min.)	Feed fz/mm
Tool steel (X155CrVMo 12 1, etc.)	<850 N/mm²	TINAMATIC	150 - 180	0.05 - 0.12
Stainless steel (X5CrNi 18-9, etc.)	<700 N/mm²	TINAMATIC	120 - 150	0.05 - 0.12
Cast iron (GG25, GG30, etc.) Spheroidal cast iron (GG40, etc.)	<240 HB	TINAMATIC	130 - 200	0.05 - 0.12
Non ferrous alloys (SI < 13%)	<10% Si	TINAMATIC	250 - 300	0.15 - 0.40
Hardened steel < 55 HRC	48 - 55 HRC	TINAMATIC	80 - 100	0.05 - 0.10

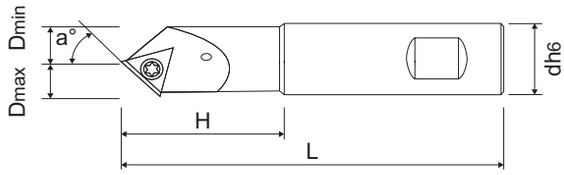
INDEXABLE MILLS FOR CHAMFERING AND CENTERING

KERFOLG

ITEM: B7F30

Indexable mills for chamfering and centering

Coupling type Weldon shank
Insert type TCMX16T3...
Application Chamfering, centering 45° V grooving

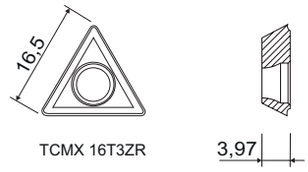




Tech. Code	Z	D min mm	D max mm	L mm	H mm	dh6 mm	α° mm	Air hole	Insert
B7F3020115	1	0,4	20	115	40	20	45	With	TCMX16T3ZR
B7F3020150	1	0,4	20	150	60	20	45	With	TCMX16T3ZR
B7F3020200	1	0,4	20	200	80	20	45	With	TCMX16T3ZR

GEOMETRIES AND CUTTING CONDITIONS

KERFOLG



								P			M		K		N	S	H
			Description	Grade	Tech. Code	Dep. mm	Feed mm/rev	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	ALU	HTA	<60 HRC
MEDIUM CUTTING	ML		TCMX 16T3ZR-ML	P35	B1T22TCZR010	1,50 2,00 2,50	0,20 0,25 0,30	180	130	100	80						

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P35	240	0,08 - 0,11 - 0,15
High carbon content steel (C45, C55, etc.)	~ 300	P35	180	0,08 - 0,11 - 0,15
Tool steel (X155CrVMo 12 1, etc.)	~ 300	P35	160	0.12 - 0.16 - 0.21
Stainless steel (X5CrNi 18-19, etc.)	-	2125	200	0,08 - 0,11 - 0,15

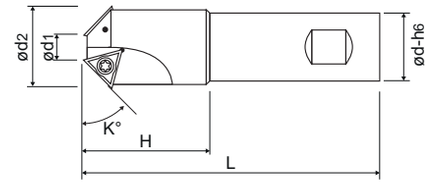
INDEXABLE MILLS FOR CHAMFERING

KERFOLG

ITEM: B8F20

Indexable mills for chamfering and countersinking

Coupling type Weldon
Insert type TCMT1102... TCMT16T3...
Application Chamfering, centering, 45° V grooving





Tech. Code	Z	d1 mm	d2 mm	L mm	H mm	d-h6 mm	k°	Air hole	Insert
B8F20161,2	1	1.2	16	70	20	12	45°	With	TC...1102
B8F20216,2	2	6.2	21	90	35	20	45°	With	TC...1102
B8F203210,4	2	10.4	32,5	100	42	25	45°	With	TC...16T3

Tech. Code	Z	D1 mm	D2 mm	L mm	H mm	d h6 mm	k°	Air hole	Insert
B8F23165,4	1	5.4	16	70	20	12	60°	With	TC...1102
B8F232615,8	2	15.8	26	90	35	20	60°	With	TC...1102
B8F233520	2	20	35	100	39	25	60°	With	TC...16T3

Tech. Code	Description	Insert
BRICA003	Clamping insert screw	TCMX16T3ZR...
BRICA001	Clamping insert screw	TCMT1102...
BRICA003	Clamping insert screw	TCMT16T3...

Tech. Code	Description	Insert
BRICA004	Key	TCMX16T3ZR...
BRICA002	Key	TCMT1102...
BRICA004	Key	TCMT16T3...

GEOMETRY AND CUTTING CONDITIONS

KERFOLG

			Description	Quality	Tech. Code	Prof. mm	Advanced mm/revolution	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUT	CMP		TCMT 110204-CMP	4125	B1T56TCCMP10	1.00 1.50 2.50	0.12 0.16 0.21	240	180	160	140	110	210	150			
				4135	B1T56TCCMP11			200	160	120	140	100					
			TCMT 16T304-CMP	4125	B1T56TCCMP12			240	180	160	140	110	210	150			
				4135	B1T56TCCMP13			200	160	120	140	100					
			SCMT 09T304-CMP	4125	B1S55SCCMP10			240	180	160	140	110	210	150			
			SCMT 120408-CMP		B1S55SCCMP13			240	180	160	140	110	210	150			
				4135	B1S55SCCMP14			200	160	120	140	100					

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P35	240	0,08 - 0,11 - 0,15
High carbon content steel (C45, C55, etc.)	~ 300	P35	180	0,08 - 0,11 - 0,15
Tool steel (X155CrVMo 12 1, etc.)	~ 300	P35	160	0.12 - 0.16 - 0.21
Stainless steel (X5CrNi 18-19, etc.)	-	2125	200	0,08 - 0,11 - 0,15
Cast iron (GG25, GG30, GGG40 etc.)	150 ~ 250	P35	210	0.12 - 0.16 - 0.21

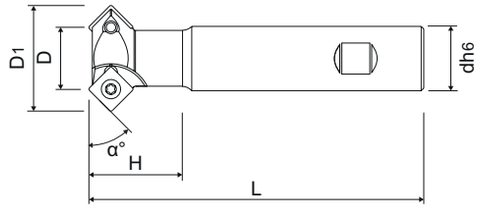
INDEXABLE MILLS FOR CHAMFERING

KERFOLG

ITEM: B8F21

Indexable mills for chamfering and counterboring

Coupling type Weldon
Insert type SCMT09T3...
Application linear and hole chamfering





Tech. Code	Z	D mm	D1 mm	L mm	H mm	dh6 mm	α° mm	Air hole	Insert
B8F2124100	1	12	23.7	100	37	20	45	With	SCMT09T3
B8F2129100	2	16	28.8	100	32	16	45	With	SCMT09T3
B8F2142100	3	30	42.3	100	32	20	45	With	SCMT09T3
B8F2124200	1	12	23.7	200	37	20	45	With	SCMT09T3
B8F2129200	2	16	28.8	200	32	16	45	With	SCMT09T3
B8F2142200	3	30	42.3	200	32	20	45	With	SCMT09T3

Tech. Code	Description	Insert
BRICA003	Clamping insert screw	SCMT09T3

Tech. Code	Description	Insert
BRICA004	Key	SCMT09T3

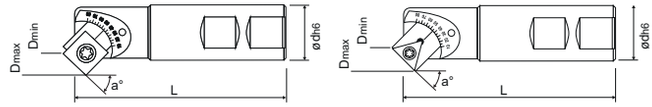
ADJUSTABLE MILLS FOR CHAMFERING AND COUNTERBORING

KERFOLG

ITEM: B8F40

Adjustable end mills for chamfering and counterboring

Coupling type Weldon
Applicable inserts TCMT16T3... - SCMT1204...
Application 10° up to 80°chamfering





Note: B8F401080 includes an end mill body, two cartridges, each featuring TCMT16T3 and SCMT1204 respectively.

Tech. Code	Z	D min mm	Max D mm	L mm	dh6 mm	α° mm	Air hole	Insert
B8F401080	1	11-17.5	33-33.5	95	25	10-80	Without	TCMT16T3 SCMT1204

Tech. Code	Description	Insert
BRICA075	Cartridge TC	TCMT16T3...
BRICA003	Clamping insert screw	TCMT16T3...
BRICA029	Cartridge screw	TCMT16T3...
BRICA004	Key	TCMT16T3...

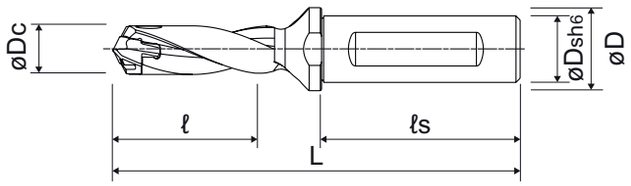
Tech. Code	Description	Insert
BRICA076	Cartridge SC	SCMT1204...
BRICA055	Clamping insert screw	SCMT1204...
BRICA029	Cartridge screw	SCMT1204...
BRICA135	Wrench	SCMT1204...

MODULAR DRILLS WITH INTERCHANGEABLE HEAD - 3XD WELDON SHANK

ITEM: B8P25

Drills with 3XD head - though coolant.

Coupling type Weldon
Insert type DMP...
Application General drilling of all materials





Including assembly key.

Tech. Code	Denomination	ØDc mm	ØDsh6 mm	ØD mm	l mm	ls mm	L mm	Head
B8P25060	TID060F12-3	6 - 6,4	12	16	18	45	77	DM..060 - DM..064
B8P25065	TID065F12-3	6,5 - 6,9	12	16	20	45	78.8	DM..065 - DM..069
B8P25070	TID070F12-3	7 - 7,4	12	16	21	45	80.6	DM..070 - DM..074
B8P25075	TID075F12-3	7,5 - 7,9	12	16	23	45	82.1	DM..075 - DM..079
B8P25080	TID080F12-3	8 - 8,4	12	16	24	45	84.4	DM..080 - DM..084
B8P25085	TID085F12-3	8,5 - 8,9	12	16	26	45	85.9	DM..085 - DM..089
B8P25090	TID090F12-3	9 - 9,4	12	16	27	45	87.8	DM..090 - DM..094
B8P25095	TID095F12-3	9,5 - 9,9	12	16	29	45	89.3	DM..095 - DM..099
B8P25100	TID100F16-3	10 - 10,4	16	20	30	48	94.2	DM..100 - DM..104
B8P25105	TID105F16-3	10,5 - 10,9	16	20	32	48	95.7	DM..105 - DM..109
B8P25110	TID110F16-3	11 - 11,4	16	20	33	48	97.6	DM..110 - DM..114
B8P25115	TID115F16-3	11,5 - 11,9	16	20	35	48	99,1	DM..115 - DM..119
B8P25120	TID120F16-3	12 - 12,4	16	20	36	48	101	DM..120 - DM..124
B8P25125	TID125F16-3	12,5 - 12,9	16	20	37	48	102.5	DM..125 - DM..129
B8P25130	TID130F16-3	13 - 13,4	16	20	39	48	104.6	DM..130 - DM..134
B8P25135	TID135F16-3	13,5 - 13,9	16	20	41	48	106,1	DM..135 - DM..139
B8P25140	TID140F16-3	14 - 14,4	16	20	42	48	110,1	DM..140 - DM..144
B8P25145	TID145F16-3	14,5 - 14,9	16	20	44	48	111.6	DM..145 - DM..149
B8P25150	TID150F20-3	15 - 15,9	20	25	45	50	118,7	DM..150 - DM..159
B8P25160	TID160F20-3	16 - 16,9	20	25	48	50	123,3	DM..160 - DM..169
B8P25170	TID170F20-3	17 - 17,9	20	25	51	50	127,9	DM..170 - DM..179
B8P25180	TID180F25-3	18 - 18,9	25	32	54	56	138,5	DM..180 - DM..189
B8P25190	TID190F25-3	19 - 19,9	25	32	57	56	143	DM..190 - DM..199
B8P25200	TID200F25-3	20 - 20,9	25	32	60	56	147.6	DM..200 - DM..209
B8P25210	TID210F25-3	21 - 21,9	25	32	63	56	152.2	DM..210 - DM..219
B8P25220	TID220F25-3	22 - 22,9	25	32	66	56	156.8	DM..220 - DM..229
B8P25230	TID230F32-3	23 - 23,9	32	42	69	60	165.3	DM..230 - DM..239
B8P25240	TID240F32-3	24 - 24,9	32	42	72	60	169.9	DM..240 - DM..249
B8P25250	TID250F32-3	25 - 25,9	32	42	75	60	174.5	DM..250 - DM..259

Tech. Code	Version	Description	Denomination
BRICA226	For indexable head drills from Ø 6 to 9,99 mm	Clamping key	K - TID6 - 9,99
BRICA227	For indexable head drills from Ø 10 to 19,99 mm	Clamping key	K - TID10 - 19,99
BRICA228	For indexable head drills from Ø 20 to 25 mm	Clamping key	K - TID20 - 25,9

RECOMMENDED CUTTING DATA

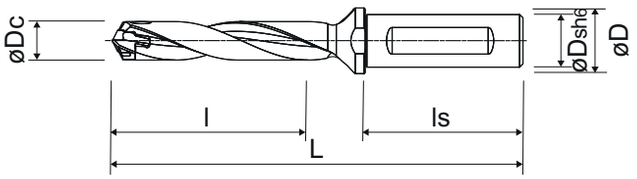
Material	Cutting speed m/min	Feed Ø 10-11,9 (mm/turn)	Feed Ø 12-13,9 (mm/turn)	Feed Ø 14 - 15,9 (mm/turn)	Feed Ø 16 - 19,9 (mm/turn)	Feed Ø 20 - 25,9 (mm/turn)
Carbon steel (C45, C55, etc.)	80 - 140	0,15 - 0,28	0,18 - 0,30	0,20 - 0,35	0,25 - 0,45	0,25 - 0,40
Low alloy steel (18CrMo4, etc.)	70 - 120	0,15 - 0,28	0,18 - 0,30	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
High alloyed steel (42CrMo4, 20Cr4, etc.)	40 - 90	0,14 - 0,28	0,16 - 0,32	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
Stainless steel (X5CrNi 18-9, etc.)	30 - 70	0,12 - 0,18	0,14 - 0,20	0,16 - 0,24	0,16 - 0,26	0,18 - 0,30
Cast irons (GG25, GG30, etc.)	80 - 120	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Spheroidal cast irons (GGG40, etc.)	80 - 140	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Aluminum alloys	80 - 220	0,28 - 0,40	0,30 - 0,45	0,30 - 0,50	0,40 - 0,60	0,50 - 0,75
Titanium alloys (Ti-6Al-4V, etc.)	20 - 50	0,08 - 0,15	0,10 - 0,28	0,12 - 0,20	0,14 - 0,22	0,18 - 0,27
Nickel alloys	20 - 50	0,08 - 0,13	0,10 - 0,15	0,12 - 0,18	0,12 - 0,22	0,14 - 0,22

DRILLS WITH INTERCHANGEABLE HEAD - 5XD WELDON SHANK

ITEM: DRILLMEISTER

Drills with 5XD heads with internal lubrication

Coupling type Weldon
Insert type DM...
Application General drilling of all materials





Assembly key included.

Tech. Code	Denomination	ØDc mm	ØDsh6 mm	ØD mm	l mm	ls mm	L mm	Head
B8P27060	TID060F12-5	6 - 6,4	12	16	30	45	89	DM..060 - DM..064
B8P27065	TID065F12-5	6,5 - 6,9	12	16	33	45	91,8	DM..065 - DM..069
B8P27070	TID070F12-5	7 - 7,4	12	16	35	45	94,6	DM..070 - DM..074
B8P27075	TID075F12-5	7,5 - 7,9	12	16	38	45	97,1	DM..075 - DM..079
B8P27080	TID080F12-5	8 - 8,4	12	16	40	45	100,4	DM..080 - DM..084
B8P27085	TID085F12-5	8,5 - 8,9	12	16	43	45	102,9	DM..085 - DM..089
B8P27090	TID090F12-5	9 - 9,4	12	16	45	45	105,8	DM..090 - DM..094
B8P27095	TID095F12-5	9,5 - 9,9	12	16	48	45	108,3	DM..095 - DM..099
B8P27100	TID100F16-5	10 - 10,4	16	20	50	48	114,2	DM..100 - DM..104
B8P27105	TID105F16-5	10,5 - 10,9	16	20	53	48	116,7	DM..105 - DM..109
B8P27110	TID110F16-5	11 - 11,4	16	20	55	48	119,6	DM..110 - DM..114
B8P27115	TID115F16-5	11,5 - 11,9	16	20	58	48	122,1	DM..115 - DM..119
B8P27120	TID120F16-5	12 - 12,4	16	20	60	48	125	DM..120 - DM..124
B8P27125	TID125F16-5	12,5 - 12,9	16	20	62	48	127,5	DM..125 - DM..129
B8P27130	TID130F16-5	13 - 13,4	16	20	65	48	130,6	DM..130 - DM..134
B8P27135	TID135F16-5	13,5 - 13,9	16	20	68	48	133,1	DM..135 - DM..139
B8P27140	TID140F16-5	14 - 14,4	16	20	70	48	138,2	DM..140 - DM..144
B8P27145	TID145F16-5	14,5 - 14,9	16	20	73	48	140,7	DM..145 - DM..149
B8P27150	TID150F20-5	15 - 15,9	20	25	75	50	148,7	DM..150 - DM..159
B8P27160	TID160F20-5	16 - 16,9	20	25	80	50	155,3	DM..160 - DM..169
B8P27170	TID170F20-5	17 - 17,9	20	25	85	50	161,9	DM..170 - DM..179
B8P27180	TID180F25-5	18 - 18,9	25	32	90	56	174,5	DM..180 - DM..189
B8P27190	TID190F25-5	19 - 19,9	25	32	95	56	181	DM..190 - DM..199
B8P27200	TID200F25-5	20 - 20,9	25	32	100	56	187,6	DM..200 - DM..209
B8P27210	TID210F25-5	21 - 21,9	25	32	105	56	194,2	DM..210 - DM..219
B8P27220	TID220F25-5	22 - 22,9	25	32	110	56	200,8	DM..220 - DM..229
B8P27230	TID230F32-5	23 - 23,9	32	42	115	60	211,3	DM..230 - DM..239
B8P27240	TID240F32-5	24 - 24,9	32	42	120	60	217,9	DM..240 - DM..249
B8P27250	TID250F32-5	25 - 25,9	32	42	125	60	224,5	DM..250 - DM..259

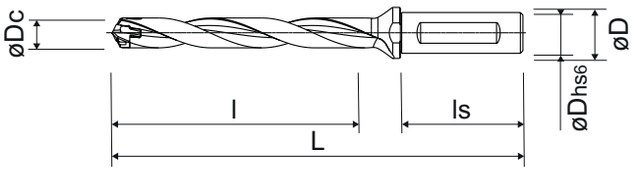
Tech. Code	Version	Description	Denomination
BRICA226	For indexable head drills from Ø 6 to 9,99 mm	Clamping key	K - TID6 - 9,99
BRICA227	For indexable head drills from Ø 10 to 19,99 mm	Clamping key	K - TID10 - 19,99
BRICA228	For indexable head drills from Ø 20 to 25 mm	Clamping key	K - TID20 - 25,9

RECOMMENDED CUTTING DATA

Material	Cutting speed m/min	Feed Ø 10-11,9 (mm/turn)	Feed Ø 12-13,9 (mm/turn)	Feed Ø 14 - 15,9 (mm/turn)	Feed Ø 16 - 19,9 (mm/turn)	Feed Ø 20 - 25,9 (mm/turn)
Carbon steel (C45, C55, etc.)	80 - 140	0,15 - 0,28	0,18 - 0,30	0,20 - 0,35	0,25 - 0,45	0,25 - 0,40
Low alloy steel (18CrMo4, etc.)	70 - 120	0,15 - 0,28	0,18 - 0,30	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
High alloyed steel (42CrMo4, 20Cr4, etc.)	40 - 90	0,14 - 0,28	0,16 - 0,32	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
Stainless steel (X5CrNi 18-9, etc.)	30 - 70	0,12 - 0,18	0,14 - 0,20	0,16 - 0,24	0,16 - 0,26	0,18 - 0,30
Cast irons (GG25, GG30, etc.)	80 - 120	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Spheroidal cast irons (GGG40, etc.)	80 - 140	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Aluminum alloys	80 - 220	0,28 - 0,40	0,30 - 0,45	0,30 - 0,50	0,40 - 0,60	0,50 - 0,75
Titanium alloys (Ti-6Al-4V, etc.)	20 - 50	0,08 - 0,15	0,10 - 0,28	0,12 - 0,20	0,14 - 0,22	0,18 - 0,27
Nickel alloys	20 - 50	0,08 - 0,13	0,10 - 0,15	0,12 - 0,18	0,12 - 0,22	0,14 - 0,22

DRILLS WITH INTERCHANGEABLE HEAD - 8XD WELDON SHANK

ITEM: DRILLMEISTER



8XD cusp drill bits with internal lubrication.

Coupling type Weldon
Insert type DM...
Application General drilling of all materials



Assembly key included.

Tech. Code	Denomination	ØDc mm	ØDs mm	ØD mm	l mm	ls mm	L mm	Head
B8P30070	TID070F12-8	7 - 7,4	12	16	56	45	115,6	DM..070 - DM..074
B8P30075	TID075F12-8	7,5 - 7,9	12	16	60	45	119,6	DM..075 - DM..079
B8P30080	TID080F12-8	8 - 8.4	12	16	64	45	124,4	DM..080 - DM..084
B8P30085	TID085F12-8	8,5 - 8,9	12	16	68	45	128,4	DM..085 - DM..089
B8P30090	TID090F12-8	9 - 9,4	12	16	72	45	132,8	DM..090 - DM..094
B8P30095	TID095F12-8	9,5 - 9,9	12	16	76	45	136,8	DM..095 - DM..099
B8P30100	TID100F16-8	10 - 10,4	16	20	80	48	144,2	DM..100 - DM..104
B8P30105	TID105F16-8	10,5 - 10,9	16	20	84	48	148,2	DM..105 - DM..109
B8P30110	TID110F16-8	11 - 11,4	16	20	88	48	152,6	DM..110 - DM..114
B8P30115	TID115F16-8	11,5 - 11,9	16	20	92	48	156,6	DM..115 - DM..119
B8P30120	TID120F16-8	12 - 12,4	16	20	96	48	161	DM..120 - DM..124
B8P30125	TID125F16-8	12,5 - 12,9	16	20	100	48	165	DM..125 - DM..129
B8P30130	TID130F16-8	13 - 13,4	16	20	104	48	169,6	DM..130 - DM..134
B8P30135	TID135F16-8	13,5 - 13,9	16	20	108	48	173,6	DM..135 - DM..139
B8P30140	TID140F16-8	14 - 14,4	16	20	112	48	180,1	DM..140 - DM..144
B8P30145	TID145F16-8	14,5 - 14,9	16	20	116	48	184,2	DM..145 - DM..149
B8P30150	TID150F20-8	15 - 15,9	20	25	120	50	193,7	DM..150 - DM..159
B8P30160	TID160F20-8	16 - 16,9	20	25	128	50	203,3	DM..160 - DM..169
B8P30170	TID170F20-8	17 - 17,9	20	25	136	50	212,9	DM..170 - DM..179
B8P30180	TID180F25-8	18 - 18,9	25	32	144	56	228,5	DM..180 - DM..189
B8P30190	TID190F25-8	19 - 19,9	25	32	152	56	238	DM..190 - DM..199
B8P30200	TID200F25-8	20 - 20,9	25	32	160	56	247,6	DM..200 - DM..209
B8P30210	TID210F25-8	21 - 21,9	25	32	168	56	257,2	DM..210 - DM..219
B8P30220	TID220F25-8	22 - 22,9	25	32	176	56	266,8	DM..220 - DM..229
B8P30230	TID230F32-8	23 - 23,9	32	42	184	60	280,3	DM..230 - DM..239
B8P30240	TID240F32-8	24 - 24,9	32	42	192	60	289,9	DM..240 - DM..249
B8P30250	TID250F32-8	25 - 25,9	32	42	200	60	299,5	DM..250 - DM..259

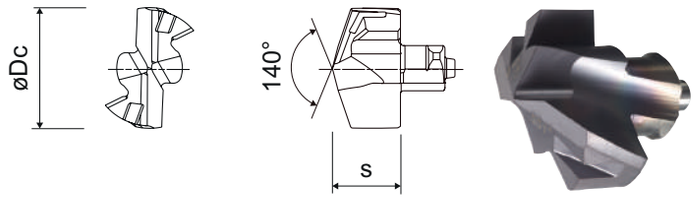
Tech. Code	Version	Description	Denomination
BRICA226	For indexable head drills from Ø 6 to 9,99 mm	Clamping key	K - TID6 - 9,99
BRICA227	For indexable head drills from Ø 10 to 19,99 mm	Clamping key	K - TID10 - 19,99
BRICA228	For indexable head drills from Ø 20 to 25 mm	Clamping key	K - TID20 - 25,9

RECOMMENDED CUTTING DATA

Material	Cutting speed m/min	Feed Ø 10-11,9 (mm/turn)	Feed Ø 12-13,9 (mm/turn)	Feed Ø 14 - 15,9 (mm/turn)	Feed Ø 16 - 19,9 (mm/turn)	Feed Ø 20 - 25,9 (mm/turn)
Carbon steel (C45, C55, etc.)	80 - 140	0,15 - 0,28	0,18 - 0,30	0,20 - 0,35	0,25 - 0,45	0,25 - 0,40
Low alloy steel (18CrMo4, etc.)	70 - 120	0,15 - 0,28	0,18 - 0,30	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
High alloyed steel (42CrMo4, 20Cr4, etc.)	40 - 90	0,14 - 0,28	0,16 - 0,32	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
Stainless steel (X5CrNi 18-9, etc.)	30 - 70	0,12 - 0,18	0,14 - 0,20	0,16 - 0,24	0,16 - 0,26	0,18 - 0,30
Cast irons (GG25, GG30, etc.)	80 - 120	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Spheroidal cast irons (GGG40, etc.)	80 - 140	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Aluminum alloys	80 - 220	0,28 - 0,40	0,30 - 0,45	0,30 - 0,50	0,40 - 0,60	0,50 - 0,75
Titanium alloys (Ti-6Al-4V, etc.)	20 - 50	0,08 - 0,15	0,10 - 0,28	0,12 - 0,20	0,14 - 0,22	0,18 - 0,27
Nickel alloys	20 - 50	0,08 - 0,13	0,10 - 0,15	0,12 - 0,18	0,12 - 0,22	0,14 - 0,22

DMP INTERCHANGEABLE HEADS

ITEM: B8A28



Tech. Code	ØDc mm	S	Denomination	Degree
B8A28060	6.00	4.00	DMP060	AH725
B8A28061	6.10	4.00	DMP061	AH725
B8A28062	6.20	4.00	DMP062	AH725
B8A28063	6.30	4.00	DMP063	AH725
B8A28064	6.40	4.00	DMP064	AH725
B8A28065	6.50	4.30	DMP065	AH725
B8A28066	6.60	4.30	DMP066	AH725
B8A28067	6.70	4.30	DMP067	AH725
B8A28068	6.80	4.30	DMP068	AH725
B8A28069	6.90	4.30	DMP069	AH725
B8A28070	7.00	4.60	DMP070	AH725
B8A28071	7.10	4.60	DMP071	AH725
B8A28072	7.20	4.60	DMP072	AH725
B8A28073	7.30	4.60	DMP073	AH725
B8A28074	7.40	4.60	DMP074	AH725
B8A28075	7.50	4.60	DMP075	AH725
B8A28076	7.60	4.60	DMP076	AH725
B8A28077	7.70	4.60	DMP077	AH725
B8A28078	7.80	4.60	DMP078	AH725
B8A28079	7.90	4.60	DMP079	AH725
B8A28080	8.00	5.40	DMP080	AH725
B8A28081	8.10	5.40	DMP081	AH725
B8A28082	8.20	5.40	DMP082	AH725
B8A28083	8.30	5.40	DMP083	AH725
B8A28084	8.40	5.40	DMP084	AH725
B8A28085	8.50	5.40	DMP085	AH725
B8A28086	8.60	5.40	DMP086	AH725
B8A28087	8.70	5.40	DMP087	AH725
B8A28088	8.80	5.40	DMP088	AH725
B8A28089	8.90	5.40	DMP089	AH725
B8A28090	9.00	5.80	DMP090	AH725
B8A28091	9.10	5.80	DMP091	AH725
B8A28092	9.20	5.80	DMP092	AH725
B8A28093	9.30	5.80	DMP093	AH725
B8A28094	9.40	5.80	DMP094	AH725
B8A28095	9.50	5.80	DMP095	AH725
B8A28096	9.60	5.80	DMP096	AH725
B8A28097	9.70	5.80	DMP097	AH725
B8A28098	9.80	5.80	DMP098	AH725
B8A28099	9.90	5.80	DMP099	AH725
B8A28100	10,00	6,05	DMP100	AH725
B8A28101	10.10	6.05	DMP101	AH725
B8A28102	10,20	6,05	DMP102	AH725
B8A28103	10.30	6.05	DMP103	AH725
B8A28104	10,40	6,05	DMP104	AH725
B8A28105	10,50	6,05	DMP105	AH725
B8A28106	10.60	6.05	DMP106	AH725
B8A28107	10.70	6.05	DMP107	AH725
B8A28108	10.80	6.05	DMP108	AH725
B8A28109	10.90	6.05	DMP109	AH725
B8A28110	11,00	6,45	DMP110	AH725
B8A28111	11,10	6,45	DMP111	AH725
B8A28112	11.20	6.45	DMP112	AH725
B8A28113	11.30	6.45	DMP113	AH725
B8A28114	11,40	6,45	DMP114	AH725
B8A28115	11,50	6,45	DMP115	AH725
B8A28116	11.60	6.45	DMP116	AH725
B8A28117	11.70	6.45	DMP117	AH725
B8A28118	11,80	6,45	DMP118	AH725
B8A28119	11,90	6,45	DMP119	AH725
B8A28120	12.00	6.80	DMP120	AH725
B8A28121	12.10	6.80	DMP121	AH725
B8A28122	12,20	6,80	DMP122	AH725
B8A28123	12.30	6.80	DMP123	AH725
B8A28124	12,40	6,80	DMP124	AH725
B8A28125	12,50	6,80	DMP125	AH725
B8A28126	12,60	6,80	DMP126	AH725
B8A28127	12,70	6,80	DMP127	AH725
B8A28128	12.80	6.80	DMP128	AH725
B8A28129	12.90	6.80	DMP129	AH725
B8A28130	13,00	7,40	DMP130	AH725
B8A28131	13.10	7.40	DMP131	AH725
B8A28132	13.20	7.40	DMP132	AH725
B8A28133	13.30	7.40	DMP133	AH725
B8A28134	13.40	7.40	DMP134	AH725
B8A28135	13,50	7,40	DMP135	AH725
B8A28136	13.60	7.40	DMP136	AH725

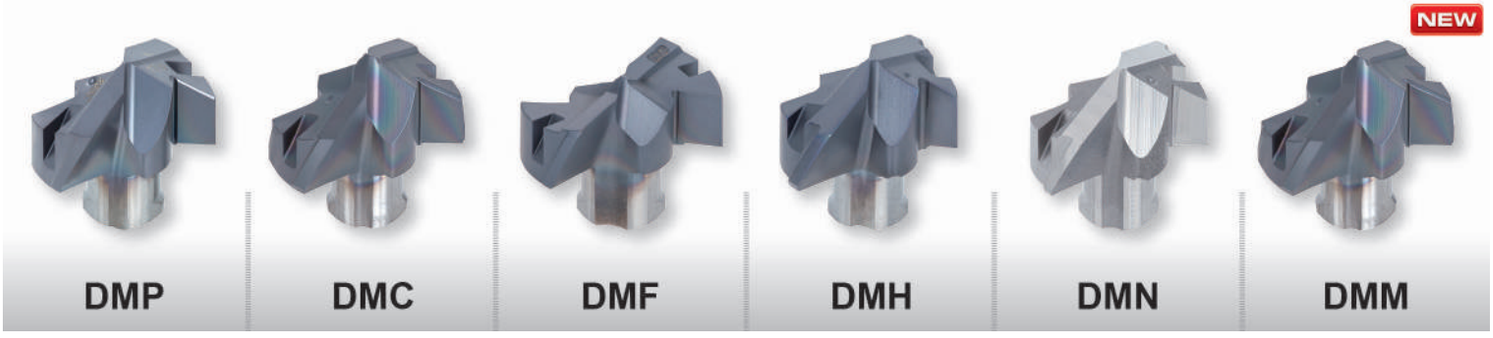
Tech. Code	ØDc mm	S	Denomination	Degree
B8A28137	13,70	7,40	DMP137	AH725
B8A28138	13,80	7,40	DMP138	AH725
B8A28139	13.90	7.40	DMP139	AH725
B8A28140	14.00	7.95	DMP140	AH725
B8A28141	14.10	7.95	DMP141	AH725
B8A28142	14,20	7,95	DMP142	AH725
B8A28143	14,30	7,95	DMP143	AH725
B8A28144	14,40	7,95	DMP144	AH725
B8A28145	14,50	7,95	DMP145	AH725
B8A28146	14.60	7.95	DMP146	AH725
B8A28147	14,70	7,95	DMP147	AH725
B8A28148	14.80	7.95	DMP148	AH725
B8A28149	14.90	7.95	DMP149	AH725
B8A28150	15.00	8.53	DMP150	AH725
B8A28151	15.10	8.53	DMP151	AH725
B8A28152	15,20	8,53	DMP152	AH725
B8A28153	15,30	8,53	DMP153	AH725
B8A28154	15.40	8.53	DMP154	AH725
B8A28155	15,50	8,53	DMP155	AH725
B8A28156	15.60	8.53	DMP156	AH725
B8A28157	15,70	8,53	DMP157	AH725
B8A28158	15,80	8,53	DMP158	AH725
B8A28159	15,90	8,53	DMP159	AH725
B8A28160	16,00	9,10	DMP160	AH725
B8A28161	16.10	9.10	DMP161	AH725
B8A28162	16,20	9,10	DMP162	AH725
B8A28163	16.30	9.10	DMP163	AH725
B8A28164	16.40	9.10	DMP164	AH725
B8A28165	16,50	9,10	DMP165	AH725
B8A28166	16,60	9,10	DMP166	AH725
B8A28167	16,70	9,10	DMP167	AH725
B8A28168	16,80	9,10	DMP168	AH725
B8A28169	16.90	9.10	DMP169	AH725
B8A28170	17,00	9,70	DMP170	AH725
B8A28171	17.10	9.70	DMP171	AH725
B8A28172	17,20	9,70	DMP172	AH725
B8A28173	17.30	9.70	DMP173	AH725
B8A28174	17.40	9.70	DMP174	AH725
B8A28175	17.50	9.70	DMP175	AH725
B8A28176	17.60	9.70	DMP176	AH725
B8A28177	17,70	9,70	DMP177	AH725
B8A28178	17,80	9,70	DMP178	AH725
B8A28179	17,90	9,70	DMP179	AH725
B8A28180	18,00	10,30	DMP180	AH725
B8A28181	18.10	10.30	DMP181	AH725
B8A28182	18.20	10.30	DMP182	AH725
B8A28183	18.30	10.30	DMP183	AH725
B8A28184	18.40	10.30	DMP184	AH725
B8A28185	18,50	10,30	DMP185	AH725
B8A28186	18,60	10,30	DMP186	AH725
B8A28187	18.70	10.30	DMP187	AH725
B8A28188	18.80	10.30	DMP188	AH725
B8A28189	18,90	10,30	DMP189	AH725
B8A28190	19,00	10,80	DMP190	AH725
B8A28191	19.10	10.80	DMP191	AH725
B8A28192	19,20	10,80	DMP192	AH725
B8A28193	19.30	10.80	DMP193	AH725
B8A28194	19.40	10.80	DMP194	AH725
B8A28195	19,50	10,80	DMP195	AH725
B8A28196	19.60	10.80	DMP196	AH725
B8A28197	19,70	10,80	DMP197	AH725
B8A28198	19,80	10,80	DMP198	AH725
B8A28199	19,90	10,80	DMP199	AH725
B8A28256	25.60	14.30	DMP256	AH725
B8A28257	25.70	14.30	DMP257	AH725
B8A28252	25.20	14.30	DMP252	AH725
B8A28253	25.30	14.30	DMP253	AH725
B8A28254	25.40	14.30	DMP254	AH725
B8A28255	25.50	14.30	DMP255	AH725
B8A28258	25.80	14.30	DMP258	AH725
B8A28259	25.90	14.30	DMP259	AH725
B8A28200	20.00	11.40	DMP200	AH725
B8A28201	20.10	11.40	DMP201	AH725
B8A28202	20.20	11.40	DMP202	AH725
B8A28203	20.30	11.40	DMP203	AH725
B8A28204	20.40	11.40	DMP204	AH725
B8A28205	20.50	11.40	DMP205	AH725

DMP INTERCHANGEABLE HEADS

ITEM: B8A28

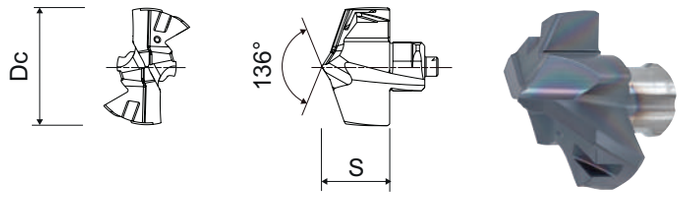
Tech. Code	ØDc mm	S	Denomination	Degree
B8A28206	20.60	11.40	DMP206	AH725
B8A28207	20.70	11.40	DMP207	AH725
B8A28208	20.80	11.40	DMP208	AH725
B8A28209	20.90	11.40	DMP209	AH725
B8A28210	21.00	11.98	DMP210	AH725
B8A28211	21.10	11.98	DMP211	AH725
B8A28212	21.20	11.98	DMP212	AH725
B8A28213	21.30	11.98	DMP213	AH725
B8A28214	21.40	11.98	DMP214	AH725
B8A28215	21.50	11.98	DMP215	AH725
B8A28216	21.60	11.98	DMP216	AH725
B8A28217	21.70	11.98	DMP217	AH725
B8A28218	21.80	11.98	DMP218	AH725
B8A28219	21.90	11.98	DMP219	AH725
B8A28220	22.00	12.56	DMP220	AH725
B8A28221	22.10	12.56	DMP221	AH725
B8A28222	22.20	12.56	DMP222	AH725
B8A28223	22.30	12.56	DMP223	AH725
B8A28224	22.40	12.56	DMP224	AH725
B8A28225	22.50	12.56	DMP225	AH725
B8A28226	22.60	12.56	DMP226	AH725
B8A28227	22.70	12.56	DMP227	AH725
B8A28228	22.80	12.56	DMP228	AH725

Tech. Code	ØDc mm	S	Denomination	Degree
B8A28229	22.90	12.56	DMP229	AH725
B8A28230	23.00	13.13	DMP230	AH725
B8A28231	23.10	13.13	DMP231	AH725
B8A28232	23.20	13.13	DMP232	AH725
B8A28233	23.30	13.13	DMP233	AH725
B8A28234	23.40	13.13	DMP234	AH725
B8A28235	23.50	13.13	DMP235	AH725
B8A28236	23.60	13.13	DMP236	AH725
B8A28237	23.70	13.13	DMP237	AH725
B8A28238	23.80	13.13	DMP238	AH725
B8A28239	23.90	13.13	DMP239	AH725
B8A28240	24.00	13.70	DMP240	AH725
B8A28241	24.10	13.70	DMP241	AH725
B8A28242	24.20	13.70	DMP242	AH725
B8A28243	24.30	13.70	DMP243	AH725
B8A28244	24.40	13.70	DMP244	AH725
B8A28245	24.50	13.70	DMP245	AH725
B8A28246	24.60	13.70	DMP246	AH725
B8A28247	24.70	13.70	DMP247	AH725
B8A28248	24.80	13.70	DMP248	AH725
B8A28249	24.90	13.70	DMP249	AH725
B8A28250	25.00	14.30	DMP250	AH725
B8A28251	25.10	14.30	DMP251	AH725



DMC INTERCHANGEABLE HEADS

ITEM: B8A29



Tech. Code	ØDc mm	S	Denomination	Degree
B8A29060	6,00	4,00	DMC060	AH9130
B8A29065	6,50	4,30	DMC065	AH9130
B8A29070	7,00	4,90	DMC070	AH9130
B8A29075	7,50	4,90	DMC075	AH9130
B8A29080	8,00	5,40	DMC080	AH9130
B8A29085	8,50	5,40	DMC085	AH9130
B8A29090	9,00	5,80	DMC090	AH9130
B8A29095	9,50	5,80	DMC095	AH9130
B8A29100	10,00	6,67	DMC100	AH9130
B8A29101	10,10	6,67	DMC101	AH9130
B8A29102	10,20	6,67	DMC102	AH9130
B8A29103	10,30	6,67	DMC103	AH9130
B8A29104	10,40	6,67	DMC104	AH9130
B8A29105	10,50	6,67	DMC105	AH9130
B8A29106	10,60	6,67	DMC106	AH9130
B8A29107	10,70	6,67	DMC107	AH9130
B8A29108	10,80	6,67	DMC108	AH9130
B8A29109	10,90	6,67	DMC109	AH9130
B8A29110	11,00	7,10	DMC110	AH9130
B8A29111	11,10	7,10	DMC111	AH9130
B8A29112	11,20	7,10	DMC112	AH9130
B8A29113	11,30	7,10	DMC113	AH9130
B8A29114	11,40	7,10	DMC114	AH9130
B8A29115	11,50	7,10	DMC115	AH9130
B8A29116	11,60	7,10	DMC116	AH9130
B8A29117	11,70	7,10	DMC117	AH9130
B8A29118	11,80	7,10	DMC118	AH9130
B8A29119	11,90	7,10	DMC119	AH9130
B8A29120	12,00	7,43	DMC120	AH9130
B8A29121	12,10	7,43	DMC121	AH9130
B8A29122	12,20	7,43	DMC122	AH9130
B8A29123	12,30	7,43	DMC123	AH9130
B8A29124	12,40	7,43	DMC124	AH9130
B8A29125	12,50	7,43	DMC125	AH9130
B8A29126	12,60	7,43	DMC126	AH9130
B8A29127	12,70	7,43	DMC127	AH9130
B8A29128	12,80	7,43	DMC128	AH9130
B8A29129	12,90	7,43	DMC129	AH9130
B8A29130	13,00	8,15	DMC130	AH9130
B8A29131	13,10	8,15	DMC131	AH9130
B8A29132	13,20	8,15	DMC132	AH9130
B8A29133	13,30	8,15	DMC133	AH9130
B8A29134	13,40	8,15	DMC134	AH9130
B8A29135	13,50	8,15	DMC135	AH9130
B8A29136	13,60	8,15	DMC136	AH9130
B8A29137	13,70	8,15	DMC137	AH9130
B8A29138	13,80	8,15	DMC138	AH9130
B8A29139	13,90	8,15	DMC139	AH9130
B8A29140	14,00	8,76	DMC140	AH9130
B8A29141	14,10	8,76	DMC141	AH9130
B8A29142	14,20	8,76	DMC142	AH9130
B8A29143	14,30	8,76	DMC143	AH9130
B8A29144	14,40	8,76	DMC144	AH9130
B8A29145	14,50	8,76	DMC145	AH9130
B8A29146	14,60	8,76	DMC146	AH9130
B8A29147	14,70	8,76	DMC147	AH9130
B8A29148	14,80	8,76	DMC148	AH9130
B8A29149	14,90	8,76	DMC149	AH9130
B8A29150	15,00	9,44	DMC150	AH9130
B8A29151	15,10	9,44	DMC151	AH9130
B8A29152	15,20	9,44	DMC152	AH9130

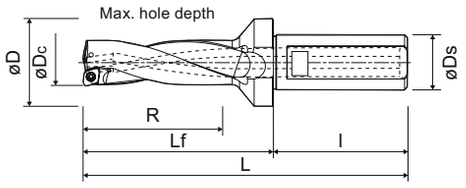
Tech. Code	ØDc mm	S	Denomination	Degree
B8A29153	15,30	9,44	DMC153	AH9130
B8A29154	15,40	9,44	DMC154	AH9130
B8A29155	15,50	9,44	DMC155	AH9130
B8A29156	15,60	9,44	DMC156	AH9130
B8A29157	15,70	9,44	DMC157	AH9130
B8A29158	15,80	9,44	DMC158	AH9130
B8A29159	15,90	10,07	DMC159	AH9130
B8A29160	16,00	10,07	DMC160	AH9130
B8A29161	16,10	10,07	DMC161	AH9130
B8A29162	16,20	10,07	DMC162	AH9130
B8A29163	16,30	10,07	DMC163	AH9130
B8A29164	16,40	10,07	DMC164	AH9130
B8A29165	16,50	10,07	DMC165	AH9130
B8A29166	16,60	10,07	DMC166	AH9130
B8A29167	16,70	10,07	DMC167	AH9130
B8A29168	16,80	10,07	DMC168	AH9130
B8A29169	16,90	10,07	DMC169	AH9130
B8A29170	17,00	10,68	DMC170	AH9130
B8A29171	17,10	10,68	DMC171	AH9130
B8A29172	17,20	10,68	DMC172	AH9130
B8A29173	17,30	10,68	DMC173	AH9130
B8A29174	17,40	10,68	DMC174	AH9130
B8A29175	17,50	10,68	DMC175	AH9130
B8A29176	17,60	10,68	DMC176	AH9130
B8A29177	17,70	10,68	DMC177	AH9130
B8A29178	17,80	10,68	DMC178	AH9130
B8A29179	17,90	10,68	DMC179	AH9130
B8A29180	18,00	11,35	DMC180	AH9130
B8A29181	18,10	11,35	DMC181	AH9130
B8A29182	18,20	11,35	DMC182	AH9130
B8A29183	18,30	11,35	DMC183	AH9130
B8A29184	18,40	11,35	DMC184	AH9130
B8A29185	18,50	11,35	DMC185	AH9130
B8A29186	18,60	11,35	DMC186	AH9130
B8A29187	18,70	11,35	DMC187	AH9130
B8A29188	18,80	11,35	DMC188	AH9130
B8A29189	18,90	11,35	DMC189	AH9130
B8A29190	19,00	11,91	DMC190	AH9130
B8A29191	19,10	11,91	DMC191	AH9130
B8A29192	19,20	11,91	DMC192	AH9130
B8A29193	19,30	11,91	DMC193	AH9130
B8A29194	19,40	11,91	DMC194	AH9130
B8A29195	19,50	11,91	DMC195	AH9130
B8A29196	19,60	11,91	DMC196	AH9130
B8A29197	19,70	11,91	DMC197	AH9130
B8A29198	19,80	11,91	DMC198	AH9130
B8A29199	19,90	11,91	DMC199	AH9130
B8A29200	20,00	12,60	DCM200	AH9130
B8A29205	20,50	12,60	DMC205	AH9130
B8A29210	21,00	13,20	DMC210	AH9130
B8A29215	21,50	13,20	DMC215	AH9130
B8A29220	22,00	13,80	DMC220	AH9130
B8A29225	22,50	13,80	DMC225	AH9130
B8A29230	23,00	14,50	DMC230	AH9130
B8A29235	23,50	14,50	DMC235	AH9130
B8A29240	24,00	15,10	DMC240	AH9130
B8A29245	24,50	15,10	DMC245	AH9130
B8A29250	25,00	15,80	DMC250	AH9130
B8A29255	25,50	15,80	DMC255	AH9130
B8A292567	25,67	15,80	DMC2567	AH9130

INDEXABLE DRILLS 3XD WELDON SHANK - SCREW FIXING

ITEM: TUNGDRILLTWISTED

Insert tips with internal lubrication.

Coupling type Weldon
Insert type XPMT...
Application General drilling of all materials



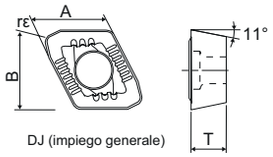


Tech. Code	Denomination	ØDc mm	ØDs mm	ØD mm	R mm	l mm	Lf mm	L mm	Insert
B8P20125	TDX125F20-3	12,5	20	25	37,5	49	53	102	XPMT040104R-...
B8P20130	TDX130F20-3	13	20	25	39	49	55	104	XPMT040104R-...
B8P20135	TDX135F20-3	13,5	20	25	40,5	49	56	105	XPMT040104R-...
B8P20140	TDX140F20-3	14	20	25	42	49	58	107	XPMT040104R-...
B8P20145	TDX145F20-3	14,5	20	25	43,5	49	60	109	XPMT040104R-...
B8P20150	TDX150F20-3	15	20	25	45	49	62	111	XPMT050204R-...
B8P20155	TDX155F20-3	15,5	20	32	46,5	49	64	113	XPMT050204R-...
B8P20160	TDX160F20-3	16	20	32	48	49	66	115	XPMT050204R-...
B8P20165	TDX165F20-3	16,5	20	32	49,5	49	68	117	XPMT050204R-...
B8P20170	TDX170F20-3	17	20	32	51	49	69	118	XPMT050204R-...
B8P20175	TDX175F35-3	17,5	25	32	52,5	54	72	126	XPMT06X308R-...
B8P20180	TDX180F25-3	18	25	32	54	54	73	127	XPMT06X308R-...
B8P20185	TDX185F25-3	18,5	25	32	55,5	54	75	129	XPMT06X308R-...
B8P20190	TDX190F25-3	19	25	32	57	54	76	130	XPMT06X308R-...
B8P20195	TDX195F25-3	19,5	25	32	58,5	54	79	133	XPMT06X308R-...
B8P20200	TDX200F25-3	20	25	32	60	54	81	135	XPMT06X308R-...
B8P20205	TDX205F25-3	20,5	25	32	61,5	54	82	136	XPMT06X308R-...
B8P20210	TDX210F25-3	21	25	32	63	54	84	138	XPMT06X308R-...
B8P20215	TDX215F25-3	21,5	25	32	64,5	54	86	140	XPMT06X308R-...
B8P20220	TDX220F25-3	22	25	32	66	54	87	141	XPMT07H308R-...
B8P20225	TDX225F25-3	22,5	25	37	67,5	54	90	144	XPMT07H308R-...
B8P20230	TDX230F25-3	23	25	37	69	54	91	145	XPMT07H308R-...
B8P20235	TDX235F25-3	23,5	25	37	70,5	54	93	147	XPMT07H308R-...
B8P20240	TDX240F25-3	24	25	37	72	54	95	149	XPMT07H308R-...
B8P20245	TDX245F25-3	24,5	25	37	73,5	54	97	151	XPMT07H308R-...
B8P20250	TDX250F25-3	25	25	37	75	54	99	153	XPMT07H308R-...
B8P20255	TDX255F25-3	25,5	25	37	76,5	54	100	154	XPMT07H308R-...
B8P20260	TDX260F25-3	26	25	37	78	54	102	156	XPMT07H308R-...
B8P20270	TDX270F32-3	27	32	40	81	59	105	164	XPMT08T308R-...
B8P20280	TDX280F32-3	28	32	40	84	59	109,3	168,3	XPMT08T308R-...
B8P20290	TDX290F32-3	29	32	40	87	59	112,3	171,3	XPMT08T308R-...
B8P20300	TDX300F32-3	30	32	40	90	59	117,3	176,3	XPMT08T308R-...
B8P20310	TDX310F32-3	31	32	40	93	59	121,3	180,3	XPMT08T308R-...
B8P20320	TDX320F32-3	32	32	40	96	59	124,3	183,3	XPMT08T308R-...
B8P20330	TDX330F32-3	33	40	50	99	69	128,6	197,6	XPMT110412R-...
B8P20340	TDX340F40-3	34	40	50	102	69	121,6	200,6	XPMT110412R-...
B8P20350	TDX350F40-3	35	40	50	105	69	135,6	204,6	XPMT110412R-...
B8P20360	TDX360F40-3	36	40	50	108	69	139,6	208,6	XPMT110412R-...
B8P20370	TDX370F40-3	37	40	50	111	69	142,6	211,6	XPMT110412R-...
B8P20380	TDX380F40-3	38	40	50	114	69	146,6	215,6	XPMT110412R-...
B8P20390	TDX390F40-3	39	40	50	117	69	149,6	218,6	XPMT110412R-...
B8P20400	TDX400F40-3	40	40	50	120	69	153,6	222,6	XPMT110412R-...
B8P20410	TDX410F40-3	41	40	50	123	69	157,6	226,6	XPMT110412R-...
B8P20420	TDX420F40-3	42	40	55	126	69	161	230	XPMT150512R-...
B8P20430	TDX430F40-3	43	40	55	129	69	165	234	XPMT150512R-...
B8P20440	TDX440F40-3	44	40	55	132	69	168	237	XPMT150512R-...
B8P20450	TDX450F40-3	45	40	55	135	69	173	242	XPMT150512R-...
B8P20460	TDX460F40-3	46	40	55	138	69	177	246	XPMT150512R-...
B8P20470	TDX470F40-3	47	40	55	141	69	180	249	XPMT150512R-...
B8P20480	TDX480F40-3	48	40	55	144	69	184	252	XPMT150512R-...
B8P20490	TDX490F40-3	49	40	55	147	69	187	256	XPMT150512R-...
B8P20500	TDX500F40-3	50	40	55	150	69	191	260	XPMT150512R-...

Tech. Code	Description	Description	Insert
BRICA188	Up to Ø 14,5	Insert fixing screw	CSPB-2H
BRICA107	From Ø 15 to Ø 17	Clamping insert screw	CSPB-2L043
BRICA240	From Ø 17,5 to Ø 21,5	Clamping insert screw	CSPB-2.2
BRICA109	From Ø 22 to Ø 26	Clamping insert screw	CSPB-2.5

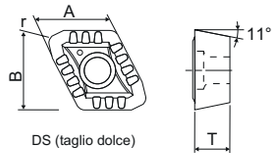
Tech. Code	Description	Description	Insert
BRICA241	From Ø 27 to Ø 32	Clamping insert screw	CSTB-3
BRICA242	From Ø 33 to Ø 41	Clamping insert screw	CSTB-4
BRICA243	From Ø 42 to Ø 50	Clamping insert screw	CSTB-5

GEOMETRIES AND CUTTING CONDITIONS



DJ (impiego generale)

	A	B	T	r□
XPMT040104R	4,3	4,5	1,59	0,4
XPMT050204R	5,2	5,4	2,38	0,4
XPMT06X308R	6,0	7,0	3,15	0,8
XPMT07H308R	7,0	8,2	3,60	0,8
XPMT08T308R	8,5	9,9	3,97	0,8
XPMT110412R	11,2	12,5	4,76	1,2
XPMT150512R	15,0	16,1	5,56	1,2



DS (taglio dolce)

	A	B	T	r□
XPMT040104R	4,3	4,5	1,59	0,4
XPMT050204R	5,2	5,4	2,38	0,4
XPMT06X308R	6,0	7,0	3,15	0,8
XPMT07H308R	7,0	8,2	3,60	0,8
XPMT08T308R	8,5	9,9	3,97	0,8
XPMT110412R	11,2	12,5	4,76	1,2
XPMT150512R	15,0	16,1	5,56	1,2

● RECOMMENDED FOR... ○ USABLE FOR…

						P			M		K		N	S	H
			Description	Grade	Tech. Code	<500 N/mm²	<800 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
GENERAL APPLICATIONS	DJ		XPMT040104R-DJ	AH725	B8A2504XPDJ08	○	●	●	○		●	●		○	●
			XPMT050204R-DJ		B8A2505XPDJ09	○	●	●	○		●	●		○	●
			XPMT06X308R-DJ		B8A2506XPDJ10	○	●	●	○		●	●		○	●
			XPMT07H308R-DJ		B8A2507XPDJ11	○	●	●	○		●	●		○	●
			XPMT08T308R-DJ		B8A2508XPDJ12	○	●	●	○		●	●		○	●
			XPMT110412R-DJ		B8A2511XPDJ13	○	●	●	○		●	●		○	●
			XPMT150512R-DJ		B8A2515XPDJ14	○	●	●	○		●	●		○	●
			XPMT040104R-DJ	AH7030	B8A2504XPDJ02	○	●	●	○		●	●		○	●
			XPMT050204R-DJ		B8A2505XPDJ02	○	●	●	○		●	●		○	●
			XPMT06X308R-DJ		B8A2506XPDJ15	○	●	●	○		●	●		○	●
			XPMT07H308R-DJ		B8A2507XPDJ16	○	●	●	○		●	●		○	●
			XPMT08T308R-DJ		B8A2508XPDJ17	○	●	●	○		●	●		○	●
			XPMT110412R-DJ		B8A2511XPDJ18	○	●	●	○		●	●		○	●
			XPMT150512R-DJ		B8A2515XPDJ19	○	●	●	○		●	●		○	●
FINE CUTTING	DS		XPMT040104R-DS	AH725	B8A2604XPDS08	●	○	○	●	●			●	●	
			XPMT050204R-DS		B8A2605XPDS09	●	○	○	●	●			●	●	
			XPMT06X308R-DS		B8A2606XPDS10	●	○	○	●	●			●	●	
			XPMT07H308R-DS		B8A2607XPDS11	●	○	○	●	●			●	●	
			XPMT08T308R-DS		B8A2608XPDS12	●	○	○	●	●			●	●	
			XPMT110412R-DS		B8A2611XPDS13	●	○	○	●	●			●	●	
			XPMT150512R-DS		B8A2615XPDS14	●	○	○	●	●			●	●	
			XPMT040104R-DS	AH7030	B8A2604XPDS15	●	○	○	●	●			●	●	
			XPMT050204R-DS		B8A2605XPDS16	●	○	○	●	●			●	●	
			XPMT06X308R-DS		B8A2606XPDS17	●	○	○	●	●			●	●	
			XPMT07H308R-DS		B8A2607XPDS18	●	○	○	●	●			●	●	
			XPMT08T308R-DS		B8A2608XPDS19	●	○	○	●	●			●	●	
			XPMT110412R-DS		B8A2611XPDS19	●	○	○	●	●			●	●	
			XPMT150512R-DS		B8A2615XPDS20	●	○	○	●	●			●	●	

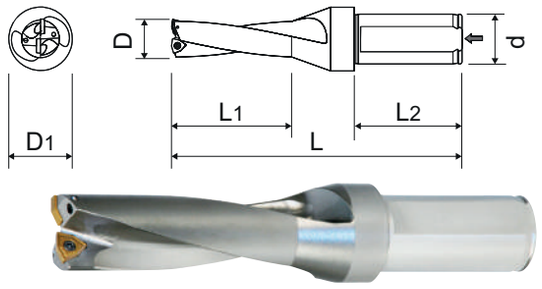
RECOMMENDED CUTTING DATA

Material	Priority	Recommended Grades	Geometry	Cutting speed m/min.	Feed Ø 12,5 - 17 (mm/turn)	Feed Ø 17,5 - 32 (mm/turn)	Feed Ø 33 - 50 (mm/turn)
Carbon steels (C45, C55, etc.)	First choice	AH7030	DJ	80 - 250	0,04 - 0,10	0,06 - 0,13	0,08 - 0,18
Low alloy steels (18CrMo4, etc.)	First choice	AH7030	DS	160 - 250	0,04 - 0,08	0,06 - 0,12	0,06 - 0,14
	Wear resistance	AH725	DS	160 - 250	0,04 - 0,08	0,06 - 0,12	0,06 - 0,14
High alloy steels (42CrMo4, 20Cr4, etc.)	First choice	AH7030	DJ	80 - 200	0,04 - 0,10	0,06 - 0,13	0,08 - 0,18
Stainless steels (X5CrNi 18-9, etc.)	Wear resistance	AH7030	DS	100 - 200	0,02 - 0,08	0,04 - 0,10	0,04 - 0,12
	First choice	AH7030	DS	100 - 200	0,02 - 0,08	0,04 - 0,10	0,04 - 0,12
Hardened stainless steels	Wear resistance	AH7030	DS	80 - 180	0,04 - 0,08	0,04 - 0,10	0,06 - 0,10
	First choice	AH7030	DS	80 - 180	0,04 - 0,08	0,04 - 0,10	0,06 - 0,10
Grey cast irons (GG25, GG30, etc.)	First choice	AH725	DJ	80 - 250	0,06 - 0,12	0,06 - 0,15	0,08 - 0,20
Spheroidal cast iron (GGG40, etc.)	First choice	AH725	DJ	80 - 200	0,06 - 0,12	0,06 - 0,15	0,08 - 0,20
Alluminum alloys	High speed	AH725	DS	200 - 400	0,10 - 0,15	0,15 - 0,20	0,15 - 0,25
Titanium alloys (Ti-6Al-4V, etc.)	First choice	AH7030	DS	40 - 110	0,04 - 0,08	0,04 - 0,10	0,04 - 0,10
	Wear resistance	AH725	DS	40 - 110	0,04 - 0,08	0,04 - 0,10	0,04 - 0,10
Hardened steels (≥40 HRC)	First choice	AH725	DJ	40 - 100	0,04 - 0,08	0,04 - 0,08	0,04 - 0,10

ITEM: B8P10

Inserts drills with internal lubrication

Coupling type Weldon
Insert type WCMX...
Application Drilling on all materials



Tech. Code	D mm	d mm	D1 mm	L mm	L1 mm	L2 mm	Air hole	Insert
B8P1018	18	25	32	140	56	54	With	WCMX0302...
B8P1019	19	25	32	143	59	54	With	WCMX0302...
B8P1020	20	25	32	146	62	54	With	WCMX0302...
B8P1021	21	25	32	149	66	54	With	WCMX0402...
B8P1022	22	25	32	152	68	54	With	WCMX0402...
B8P1023	23	25	32	155	71	54	With	WCMX0402...
B8P1024	24	25	32	158	74	54	With	WCMX0402...
B8P1025	25	25	32	161	77	54	With	WCMX0402...
B8P1026	26	25	32	164	80	54	Whit	WCMX0503...
B8P1027	27	25	32	167	83	54	Whit	WCMX0503...
B8P1028	28	25	32	170	86	54	Whit	WCMX0503...
B8P1029	29	25	32	173	89	54	With	WCMX0503...
B8P1030	30	32	49	180	92	58	With	WCMX0503...
B8P1031	31	32	49	183	95	58	With	WCMX06T3...
B8P1032	32	32	49	186	98	58	With	WCMX06T3...
B8P1033	33	32	49	189	101	58	With	WCMX06T3...
B8P1034	34	32	49	192	104	58	With	WCMX06T3...
B8P1035	35	32	49	195	107	58	With	WCMX06T3...
B8P1036	36	32	49	198	110	58	With	WCMX06T3...
B8P1037	37	32	49	201	113	58	With	WCMX06T3...
B8P1038	38	32	49	204	116	58	With	WCMX06T3...
B8P1039	39	32	49	207	119	58	With	WCMX06T3...
B8P1040	40	32	49	210	122	58	With	WCMX06T3...
B8P1041	41	32	49	213	125	58	With	WCMX06T3...
B8P1042	42	32	49	216	128	58	With	WCMX0804...
B8P1043	43	32	49	219	131	58	With	WCMX0804...
B8P1044	44	32	49	222	134	58	With	WCMX0804...
B8P1045	45	40	59	240	137	68	With	WCMX0804...
B8P1046	46	40	59	243	140	68	With	WCMX0804...
B8P1047	47	40	59	246	143	68	With	WCMX0804...
B8P1048	48	40	59	249	146	68	With	WCMX0804...
B8P1049	49	40	59	252	149	68	With	WCMX0804...
B8P1050	50	40	59	255	152	68	With	WCMX0804...

Tech. Code	Description	Insert
BRICA267	Clamping insert screw	WCMX0302...
BRICA267	Clamping insert screw	WCMX0402...
BRICA268	Clamping insert screw	WCMX0503...
BRICA269	Clamping insert screw	WCMX06T3...
BRICA270	Clamping insert screw	WCMX0804...

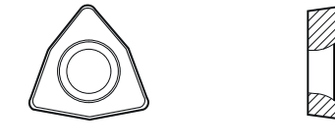
Tech. Code	Description	Insert
BRICA132	Wrench	WCMX0302...
BRICA132	Wrench	WCMX0402...
BRICA016	Key	WCMX0503...
BRICA004	Key	WCMX06T3...
BRICA004	Key	WCMTX0804...



GEOMETRY AND CUTTING CONDITIONS



WCMX...MF



WCMX...MR

● RECOMMENDED FOR... ○ USABLE FOR…

						P			M		K		N	S	H
			Description	Quality	Tech. Code	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUT	MF		WCMX 040208 MF	PT30	**B8A2104WCMF01**	○	●	●	●	●	○	○	○	●	
			WCMX 050308 MF		**B8A2105WCMF02**	○	●	●	●	●	○	○	○	●	
			WCMX 06T308 MF		**B8A2106WCMF03**	○	●	●	●	●	○	○	○	●	
			WCMX 080412 MF		**B8A2108WCMF04**	○	●	●	●	●	○	○	○	●	
	MR		WCMX 030208 MR	PT35	**B8A2203WCMR01**	●	●	○	●	○	○				
			WCMX 040208 MR		**B8A2204WCMR02**	●	●	○	●	○	○				
			WCMX 050308 MR		**B8A2205WCMR03**	●	●	○	●	○	○				
			WCMX 06T308 MR		**B8A2206WCMR04**	●	●	○	●	○	○				
			WCMX 080412 MR		**B8A2208WCMR05**	●	●	○	●	○	○				

RECOMMENDED CUTTING DATA

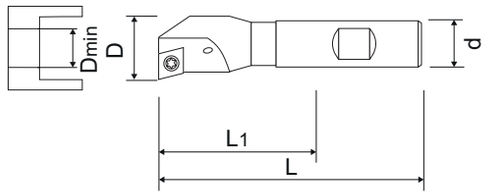
Material	Degrees Recommended	Geometry	Cutting speed Vc (m/min.)	fz/mm D18 - D20	fz/mm D21 - D25	fz/mm D26 - D30	fz/mm D31 - D41	fz/mm D42 - D50
Low carbon content steel. Not hardened steel ST 37, etc. (< 180 HB)	PT35	MR	150 - 170 - 200	0.04 - 0.12	0.06 - 0.14	0.10 - 0.18	0.12 - 0.20	0.12 - 0.22
Carbon steel. Alloy steel. CK45, 42CrMo4, etc. (< 300 HB)	PT35	MR	100 - 120 - 150	0.04 - 0.12	0.06 - 0.14	0.10 - 0.18	0.12 - 0.20	0.12 - 0.22
Mould steel X96CrMoV12, etc.	PT30	MF	80 - 100 - 120	0.04 - 0.12	0.06 - 0.14	0.10 - 0.18	0.12 - 0.20	0.12 - 0.22
Stainless steel X5CrNi 18-9 < 250 HB	PT30	MF	80 - 100 - 120	0.04 - 0.12	0.06 - 0.12	0.10 - 0.14	0.12 - 0.16	0.12 - 0.18
Cast iron (GG25, GG30, etc.) Spheroidal cast iron (GGG40, etc.)	PT35	MR	120 - 160 - 200	0.08 - 0.14	0.08 - 0.18	0.12 - 0.18	0.14 - 0.26	0.15 - 0.28
Aluminium alloys (Si < 13%)	PT30	MF	250 - 300 - 330	0.06 - 0.16	0.10 - 0.18	0.10 - 0.18	0.12 - 0.22	0.14 - 0.26
Titanium alloys (Ti-6Al-4V, etc.)	PT30	MF	35 - 50 - 60	0.08 - 0.14	0.08 - 0.14	0.12 - 0.16	0.14 - 0.18	0.16 - 0.20

KERFOLG

ITEM: B8F01

Mills for reaming and spot milling

Coupling type Weldon
Insert type CC...0602 - CC...09T3...
Application Thrust spot milling and reaming





Tech. Code	Z	D mm	L mm	L1 mm	d mm	Min D. mm	Air hole	Insert
B8F0110	1	10	85	15	12	4	With	CC...0602...
B8F0111	1	11	85	15	12	4	With	CC...0602...
B8F0112	1	12	85	18	12	4	With	CC...0602...
B8F0113	1	13	85	23	12	5	With	CC...0602...
B8F0114	1	14	85	23	12	5	With	CC...0602...
B8F0115	1	15	85	30	12	5	With	CC...0602...
B8F0116	1	16	85	30	12	5	With	CC...0602...
B8F0117	1	17	95	30	16	6	With	CC...09T3...
B8F0118	1	18	95	40	16	6	With	CC...09T3...
B8F0119	1	19	95	40	16	6	With	CC...09T3...
B8F0120	1	20	95	40	16	5	With	CC...09T3...
B8F0121	1	21	95	42	16	5	With	CC...09T3...
B8F0122	1	22	95	42	16	6	With	CC...09T3...
B8F0123	1	23	95	42	16	6	With	CC...09T3...
B8F0124	1	24	95	42	16	6	With	CC...09T3...
B8F0125	1	25	95	42	16	8	With	CC...09T3...
B8F0126	1	26	120	56	20	8	With	CC...09T3...
B8F0127	1	27	120	56	20	8	With	CC...09T3...
B8F0128	1	28	120	56	20	10	With	CC...09T3...
B8F0129	1	29	120	56	20	10	With	CC...09T3...
B8F0130	1	30	120	56	20	10	With	CC...09T3...
B8F0131	1	31	120	56	20	12	With	CC...09T3...
B8F0132	1	32	120	56	20	12	With	CC...09T3...
B8F0133	1	33	120	56	20	12	With	CC...09T3...

Tech. Code	Description	Insert
BRICA001	Clamping insert screw	CC...0602...
BRICA003	Clamping insert screw	CC...09T3...

Tech. Code	Description	Insert
BRICA002	Key	CC...0602...
BRICA004	Key	CC...09T3...

Related products

wiha DYNAMOMETRIC SCREWDRIVERS IN SET

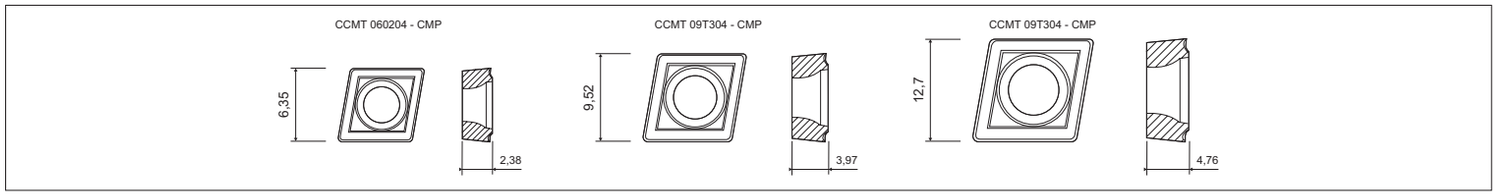
Tech. Code	Pieces	Composition
E641013A	13	A
E641013B		B



The products are available in CAP E

TURNING POSITIVE INSERTS - C SHAPE

KERFOLG



								P			M		K		N	S	H
			Description	Quality	Tech. Code	Prof. mm	Advanced mm/revolution	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUT	CMP		CCMT 060204-CMP	4115	**B1C56CCCMP10**	1,00 1,50 2,50	0,12 0,16 0,21	320	200	180	160						
				4125	**B1C56CCCMP11**			240	180	160	140	110					
			CCMT 09T304-CMP	4115	**B1C56CCCMP12**			320	200	180	160						
				4125	**B1C56CCCMP13**			240	180	160	140	110					
				4135	**B1C56CCCMP14**			320	160	120	140	100					
			CCMT 120412-CMP	4125	**B1C56CCCMP22**			240	180	160	140	110					

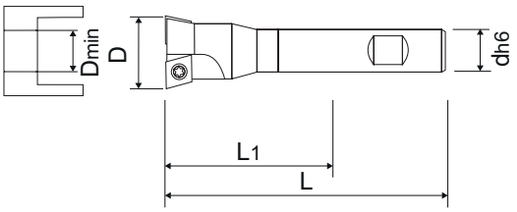
RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P35	240	0,08 - 0,11 - 0,15
High carbon content steel (C45, C55, etc.)	~ 300	P35	180	0,08 - 0,11 - 0,15
Tool steel (X155CrVMo 12 1, etc.)	~ 300	4115	180	0,08 - 0,11 - 0,15
Stainless steel (X5CrNi 18-19, etc.)	-	2125	200	0,08 - 0,11 - 0,15
Cast iron (GG25, GG30, GGG40 etc.)	150 ~ 250	4115	430	0,08 - 0,11 - 0,15

ITEM: B8F02

Mill for reaming and spot facing

Coupling type Weldon
Insert type CC...0602 - CC...09T3...
Application Thrust spot facing and reaming





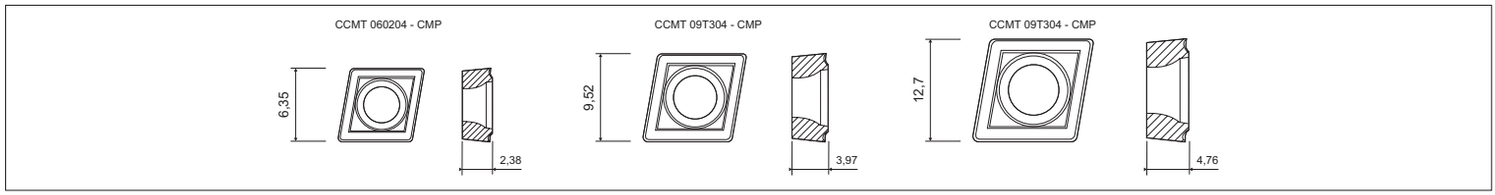
Tech. Code	Z	D mm	L mm	L1 mm	dh6 mm	D min mm	Air hole	Insert
B8F0216	2	16	92	30	12	5	With	CC...0602...
B8F0217	2	17	94	32	16	6	With	CC...0602...
B8F0218	2	18	97	41	16	7	With	CC...0602...
B8F0219	2	19	100	41	16	8	With	CC...0602...
B8F0220	2	20	102	41	16	9	With	CC...0602...
B8F0221	2	21	105	41	16	10	With	CC...0602...
B8F0222	2	22	110	41	16	11	With	CC...0602...
B8F0223	2	23	112	41	16	12	With	CC...0602...
B8F0224	2	24	115	41	16	13	With	CC...0602...
B8F0225	2	25	120	40	16	8	With	CC...09T3...
B8F0226	2	26	125	55	20	9	With	CC...09T3...
B8F0227	2	27	128	55	20	10	With	CC...09T3...
B8F0228	2	28	130	55	20	11	With	CC...09T3...
B8F0229	2	29	132	55	20	12	With	CC...09T3...
B8F0230	2	30	134	55	20	13	With	CC...09T3...
B8F0231	2	31	136	55	20	14	With	CC...09T3...
B8F0232	2	32	138	55	20	15	With	CC...09T3...
B8F0233	2	33	140	55	20	16	With	CC...09T3...
B8F0234	2	34	140	60	25	16	With	CC...09T3...
B8F0235	2	35	140	60	25	17	With	CC...09T3...
B8F0236	2	36	140	60	25	18	With	CC...09T3...
B8F0237	2	37	140	60	25	19	With	CC...09T3...
B8F0238	2	38	140	60	25	20	With	CC...09T3...
B8F0239	2	39	140	60	25	21	With	CC...09T3...
B8F0240	2	40	140	60	25	22	With	CC...09T3...
B8F0241	2	41	140	60	25	23	With	CC...09T3...
B8F0242	2	42	140	60	25	24	With	CC...09T3...

Tech. Code	Description	Insert
BRICA001	Clamping insert screw	CC...0602...
BRICA003	Clamping insert screw	CC...09T3...

Tech. Code	Description	Insert
BRICA002	Key	CC...0602...
BRICA004	Key	CC...09T3...

TURNING POSITIVE INSERTS - C SHAPE

KERFOLG



								P			M		K		N	S	H
			Description	Quality	Tech. Code	Prof. mm	Advanced mm/revolution	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUT	CMP		CCMT 060204-CMP	4115	**B1C56CCCMP10**	1,00 1,50 2,50	0,12 0,16 0,21	320	200	180	160						
				4125	**B1C56CCCMP11**			240	180	160	140	110					
			CCMT 09T304-CMP	4115	**B1C56CCCMP12**			320	200	180	160						
				4125	**B1C56CCCMP13**			240	180	160	140	110					
				4135	**B1C56CCCMP14**			320	160	120	140	100					
			CCMT 120412-CMP	4125	**B1C56CCCMP22**			240	180	160	140	110					

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P35	240	0,10 - 0,13 - 0,16
High carbon content steel (C45, C55, etc.)	~ 300	P35	180	0,10 - 0,13 - 0,16
Tool steel (X155CrVMo 12 1, etc.)	~ 300	4115	180	0,10 - 0,13 - 0,16
Stainless steel (X5CrNi 18-19, etc.)	-	2125	200	0,10 - 0,13 - 0,16
Cast iron (GG25, GG30, GGG40 etc.)	150 ~ 250	4115	430	0,10 - 0,13 - 0,16

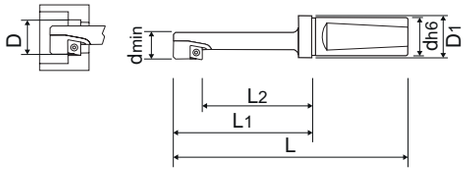


BACKSPOT FACING AND REAMING CUTTERS

ITEM: B8F05

Mills for traction reaming and spot facing

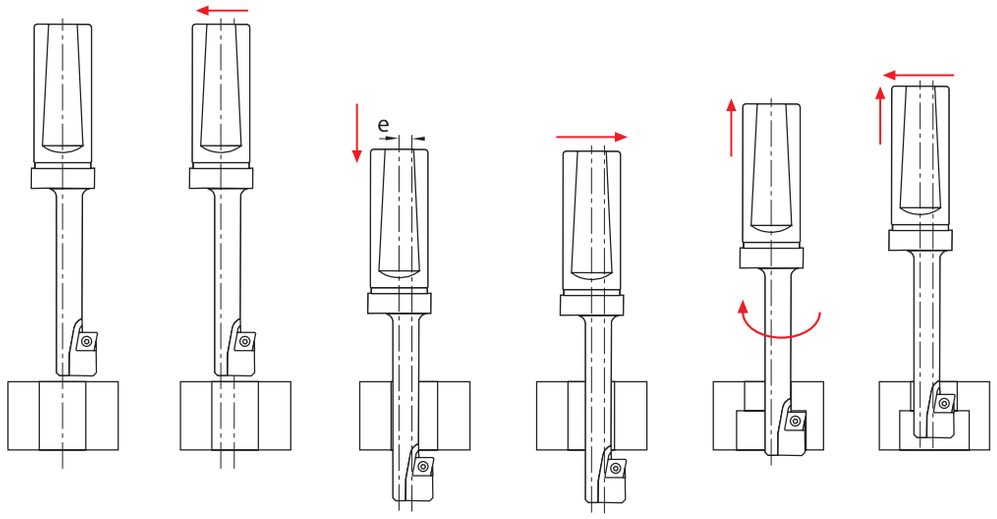
Coupling type Weldon
Insert type CC...0602... - CC...09T3... - CC...1204...
Application Traction spot facing and reaming





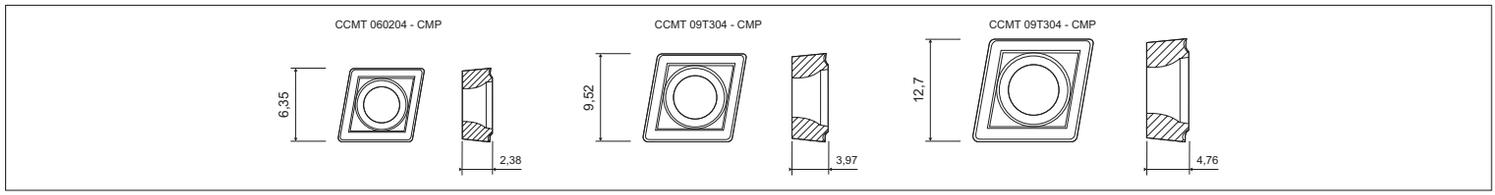
Tech. Code	Z	D mm	min D mm	L mm	L1 mm	L2 mm	dh6 mm	D1 mm	e mm	Air hole	Insert
B8F0520	1	20	13	117	67	52	20	25	3.75	With	CC...0602...
B8F0524	1	24	15	122	72	57	20	25	4.75	With	CC...0602...
B8F0526	1	26	17	132	82	67	20	25	5	With	CC...0602...
B8F0530	1	30	19	142	92	77	20	25	6	With	CC...0602...
B8F0533	1	33	21	152	102	82	20	25	6.5	With	CC...09T3...
B8F0536	1	36	23	173	113	93	32	40	7	With	CC...09T3...
B8F0540	1	40	25	183	123	103	32	40	8	With	CC...09T3...
B8F0543	1	43	30	183	123	103	32	40	7	With	CC...09T3...
B8F0548	1	48	33	223	163	143	32	40	8	With	CC...09T3...
B8F0553	1	53	36	210	140	-	40	-	9	With	CC...1204...
B8F0557	1	57	39	220	150	-	40	-	9,5	With	CC...1204...
B8F0566	1	66	45	245	165	-	50	-	11	With	CC...1204...
B8F0576	1	76	52	265	185	-	50	-	12,5	With	CC...1204...

TOOLS



TURNING POSITIVE INSERTS - C SHAPE

KERFOLG



								P			M		K		N	S	H
			Description	Quality	Tech. Code	Prof. mm	Advanced mm/revolution	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUT	CMP		CCMT 060204-CMP	4115	**B1C56CCCMP10**	1,00 1,50 2,50	0,12 0,16 0,21	320	200	180	160						
				4125	**B1C56CCCMP11**			240	180	160	140	110					
			CCMT 09T304-CMP	4115	**B1C56CCCMP12**			320	200	180	160						
				4125	**B1C56CCCMP13**			240	180	160	140	110					
				4135	**B1C56CCCMP14**			320	160	120	140	100					
			CCMT 120412-CMP	4125	**B1C56CCCMP22**			240	180	160	140	110					

Tech. Code	Description	Insert
BRICA001	Clamping insert screw	CC...0602...
BRICA003	Clamping insert screw	CC...09T3...
BRICA032	Insert screw	CC...1204...

Tech. Code	Description	Insert
BRICA002	Key	CC...0602...
BRICA004	Key	CC...09T3...
BRICA135	Wrench	CC...1204...

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P35	240	0,08 - 0,11 - 0,15
High carbon content steel (C45, C55, etc.)	~ 300	P35	180	0,08 - 0,11 - 0,15
Tool steel (X155CrVMo 12 1, etc.)	~ 300	4115	180	0,08 - 0,11 - 0,15
Stainless steel (X5CrNi 18-19, etc.)	-	2125	200	0,08 - 0,11 - 0,15
Cast iron (GG25, GG30, GGG40 etc.)	150 ~ 250	4115	430	0,08 - 0,11 - 0,15

SPARE PARTS

Tech. Code	Description
BRICA001	Clamping insert screw
BRICA003	Clamping insert screw
BRICA019	Clamping insert screw
BRICA023	Clamping insert screw
BRICA027	Clamping insert screw
BRICA030	Clamping insert screw
BRICA032	Clamping insert screw
BRICA035	Clamping insert screw
BRICA053	Clamping insert screw
BRICA055	Clamping insert screw
BRICA087	Clamping insert screw
BRICA088	Clamping insert screw
BRICA089	Clamping insert screw
BRICA090	Clamping insert screw
BRICA067	Clamping insert screw
BRICA071	Clamping insert screw
BRICA107	Clamping insert screw
BRICA109	Clamping insert screw
BRICA111	Clamping insert screw
BRICA113	Clamping insert screw
BRICA115	Clamping insert screw
BRICA130	Insert fixing screw
BRICA136	Clamping insert screw
BRICA137	Clamping insert screw
BRICA138	Clamping insert screw
BRICA147	Clamping insert screw
BRICA148	Clamping insert screw
BRICA149	Clamping insert screw
BRICA155	Clamping insert screw
BRICA156	Clamping insert screw
BRICA157	Clamping insert screw
BRICA158	Clamping insert screw
BRICA159	Clamping insert screw
BRICA188	Insert fixing screw
BRICA190	Clamping insert screw
BRICA191	Clamping insert screw
BRICA192	Clamping insert screw
BRICA193	Clamping insert screw
BRICA196	Clamping insert screw
BRICA197	Clamping insert screw
BRICA198	Clamping insert screw
BRICA199	Clamping insert screw
BRICA200	Clamping insert screw
BRICA203	Insert screw
BRICA211	Clamping insert screw
BRICA212	Insert fixing screw
BRICA217	Clamping insert screw
BRICA220	Clamping insert screw
BRICA221	Clamping insert screw
BRICA222	Clamping insert screw
BRICA223	Clamping insert screw
BRICA224	Clamping insert screw
BRICA225	Clamping insert screw
BRICA236	Clamping insert screw
BRICA237	Clamping insert screw
BRICA240	Clamping insert screw
BRICA241	Clamping insert screw
BRICA242	Clamping insert screw
BRICA243	Clamping insert screw
BRICA252	Clamping insert screw

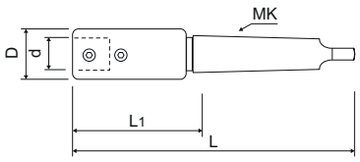
Tech. Code	Description
BRICA253	Clamping insert screw
BRICA267	Clamping insert screw
BRICA268	Clamping insert screw
BRICA269	Clamping insert screw
BRICA270	Clamping Insert screw
BRICA029	Cartridge screw
BRICA008	Support screw
BRICA049	Support screw
BRICA068	Support screw
BRICA072	Support screw
BRICA096	Support screw
BRICA145	Support screw
BRICA146	Support screw
BRICA048	Clamping screw
BRICA050	Clamping screw
BRICA181	Clamping screw
BRICA195	Clamping screw
BRICA084	Bur's fastening screw
BRICA116	Bur's fastening screw
BRICA238	Bur's fastening screw
BRICA086	Lever screw
BRICA092	Pin screw
BRICA002	Wrench
BRICA004	Wrench
BRICA006	Wrench
BRICA014	Wrench
BRICA016	Wrench
BRICA024	Wrench
BRICA056	Wrench
BRICA093	Wrench
BRICA094	Wrench
BRICA132	Wrench
BRICA135	Wrench
BRICA140	Wrench
BRICA141	Wrench
BRICA151	Screw
BRICA186	Wrench
BRICA219	Wrench
BRICA230	Wrench
BRICA231	Wrench
BRICA232	Wrench
BRICA233	Wrench
BRICA234	Wrench
BRICA235	Wrench
BRICA263	Wrench
BRICA264	Wrench
BRICA265	Wrench
BRICA266	Wrench
BRICA185	Blade key
BRICA215	Blade key
BRICA226	Clamping key
BRICA227	Clamping key
BRICA228	Clamping key
BRICA091	Dowel
BRICA005	Clamp
BRICA040	Clamp
BRICA042	Clamp
BRICA060	Clamp
BRICA176	Clamp
BRICA177	Clamp

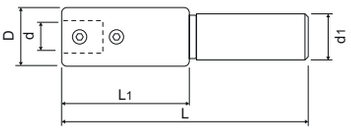
Tech. Code	Description
BRICA017	Spring pin
BRICA021	Spring pin
BRICA026	Spring pin
BRICA037	Spring pin
BRICA046	Spring pin
BRICA058	Spring pin
BRICA180	Spring pin
BRICA254	Spring
BRICA255	Spring
BRICA075	Cartridge
BRICA076	Cartridge
BRICA007	Shim
BRICA020	Shim
BRICA025	Shim
BRICA028	Shim
BRICA031	Shim
BRICA033	Shim
BRICA036	Shim
BRICA038	Shim
BRICA039	Shim
BRICA044	Shim
BRICA045	Shim
BRICA057	Shim
BRICA062	Shim
BRICA095	Shim
BRICA143	Shim
BRICA144	Shim
BRICA152	Shim
BRICA153	Shim
BRICA154	Shim
BRICA175	Shim
BRICA178	Shim
BRICA179	Shim
BRICA229	Shim
BRICA244	Shim
BRICA245	Shim
BRICA246	Shim
BRICA247	Shim
BRICA248	Shim
BRICA257	Shim
BRICA069	AE Shim
BRICA070	AI Shim
BRICA074	AI Shim
BRICA013	Lever
BRICA018	Lever
BRICA022	Lever
BRICA034	Lever
BRICA054	Lever
BRICA059	Lever
BRICA085	Lever
BRICA249	Lever
BRICA250	Lever
BRICA251	Lever
BRICA061	Pin
BRICA081	Pin
BRICA183	Pin
BRICA256	Pin
BRICA258	Screwdriver

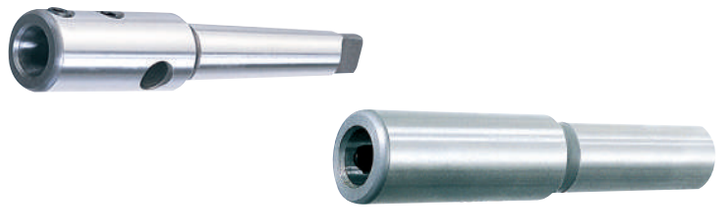
SIZE 1 MODULAR TOOL HOLDER

GRANLUND

ITEM: B8G00







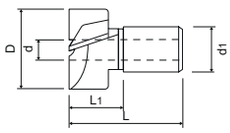
Tech. Code	Description	Coupling	D mm	d mm	d1 mm	L mm	L1 mm
B8G00MK1	1A-MK1	CM1	24	14	-	123	62
B8G00MK2	1A-MK2	CM2	24	14	-	137	62
B8G00MK3	1A-MK3	CM3	24	14	-	160	66
B8G00W20	1A-W20	Weldon	24	14	20	110	55

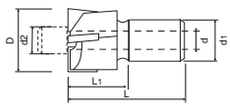
Tech. Code	Description	Coupling	D mm	d mm	d1 mm	L mm	L1 mm
B8G00W20NS	1NS-W20	Weldon	24	14	20	86	32
B8G00C10	1A-10	Cylindrical	24	14	10	110	55
B8G00C12	1A-12	Cylindrical	24	14	12	120	55

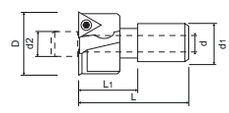
SIZE 1 MODULAR SPOT-FACING END MILLS

GRANLUND

ITEM: B8G10









Tech. Code	Description	D mm	d mm	d1 mm	L mm	L1 mm
B8G1010	1N-10,0	10	6	14	48	28
B8G1011	1N-11,0	11	6	14	48	28
B8G1012	1N-12,0	12	6	14	48	28
B8G1013	1N-13,0	13	6	14	48	28
B8G1014	1N-14,0	14	6	14	48	28
B8G1015	1N-15,0	15	6	14	48	28
B8G1016	1N-16,0	16	6	14	48	28
B8G1017	1N-17,0	17	6	14	48	28
B8G1018	1N-18,0	18	6	14	48	28
B8G1019	1N-19,0	19	6	14	48	28
B8G1020	1N-20,0	20	6	14	48	28
B8G1021	1N-21,0	21	6	14	48	28
B8G1022	1N-22,0	22	6	14	48	28

Tech. Code	Description	D mm	d mm	d1 mm	L mm	L1 mm
B8G1023	1N-23,0	23	6	14	48	28
B8G1024	1N-24,0	24	6	14	48	28
B8G1025	1N-25,0	25	6	14	48	28
B8G1026	1N-26,0	26	6	14	48	28
B8G1027	1N-27,0	27	6	14	48	28
B8G1028	1N-28,0	28	6	14	48	28
B8G1029	1N-29,0	29	6	14	48	28
B8G1030	1N-30,0	30	6	14	48	28
B8G1031	1N-31,0	31	6	14	48	28
B8G1032	1N-32,0	32	6	14	48	28
B8G1033	1N-33,0	33	6	14	48	28
B8G1034	1N-34,0	34	6	14	48	28
B8G1035	1N-35,0	35	6	14	48	28

HSS spot-facing end mills allow for both rotating and fixed insert drills and pilots

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G1512	1H-12,0	12	6	14	8	48	28
B8G1513	1H-13,0	13	6	14	8	48	28
B8G1514	1H-14,0	14	6	14	8	48	28
B8G1515	1H-15,0	15	6	14	8	48	28
B8G1516	1H-16,0	16	6	14	8	48	28
B8G1517	1H-17,0	17	6	14	8	48	28
B8G1518	1H-18,0	18	6	14	8	48	28
B8G1519	1H-19,0	19	6	14	8	48	28
B8G1520	1H-20,0	20	6	14	8	48	28

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G1521	1H-21,0	21	6	14	8	48	28
B8G1522	1H-22,0	22	6	14	8	48	28
B8G1523	1H-23,0	23	6	14	8	48	28
B8G1524	1H-24,0	24	6	14	8	48	28
B8G1525	1H-25,0	25	6	14	8	48	28
B8G1526	1H-26,0	26	6	14	8	48	28
B8G1528	1H-28,0	28	6	14	8	48	28
B8G1530	1H-30,0	30	6	14	8	48	28
B8G1532	1H-32,0	32	6	14	8	48	28

HM spot-facing mills only allow for rotating pilots

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm	Insert
B8G2020	1WHV-20,0	20	6	14	7,6	48	28	TPMT07...
B8G2022	1WHV-22,0	22	6	14	7,6	48	28	TPMT07...
B8G2025	1WHV-25,0	25	6	14	7,6	48	28	TPMT07...

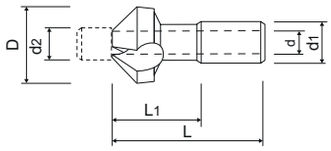
Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm	Insert
B8G2030	1WHV-30,0	30	6	14	7,6	48	28	TPMT10...
B8G2032	1WHV-32,0	32	6	14	7,6	48	28	TPMT10...

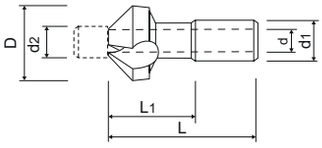
Insert spot-facing end mills only allow for rotating pilots
Widening of an existing hole, guide Ø min 11mm For spot facing, guide Ø min 6mm When an MK spindle is used, the shank should not be less than CM2

SIZE 1 HSS MODULAR COUNTERSINKING MILLING CUTTERS

GRANLUND

ITEM: B8G25









Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G2516	1T9-16,0	16	6	14	6,6	48	28
B8G2518	1T9-18,0	18	6	14	6,6	48	28
B8G2520	1T9-20,0	20	6	14	6,6	48	28

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G2525	1T9-25,0	25	6	14	6,6	48	28
B8G2530	1T9-30,0	30	6	14	6,6	48	28

HSS countersinking milling cutter allow for both rotating and fixed tips/pilots and guides/drills

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G3016	1T6-16,0	16	6	14	6,6	48	28
B8G3018	1T6-18,0	18	6	14	6,6	48	28
B8G3020	1T6-20,0	20	6	14	6,6	48	28

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G3025	1T6-25,0	25	6	14	6,6	48	28
B8G3030	1T6-30,0	25	6	14	6,6	48	28

HSS countersinking milling cutter allow for both rotating and fixed tips/pilots and guides/drills

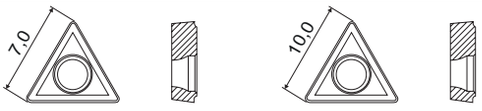
Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G3220	1TH9-20,0	20	6	14	10	48	28

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G3230	1TH9-30,0	30	6	14	10	48	28

HM countersinking milling cutters only allow for rotating guides/drills

RECOMMENDED TOOL GEOMETRY AND CUTTING CONDITIONS

GRANLUND



TPMT-07U TPMT-10U

							P			M		K		N	S	H
			Description	Grade	Tech. Code	Feed mm/rev	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MED. CUT.	UNIVERSAL		TPMT 07U	P30	**B8T01TP07015**	0,05 0,15 0,25	●	●	●	○	○	●	●	●	○	○
			TPMT 10U		**B8T01TP10015**		●	●	●	○	○	●	●	●	○	○

Conditions in bold indicate inserts for general machining.

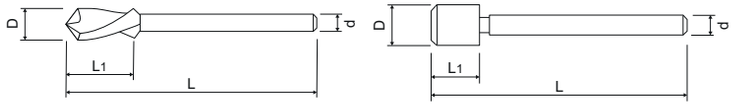
RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P30	150 - 250	0.08 - 0.25
	~ 180	P30	150 - 250	0.08 - 0.25
	~ 180	P30	150 - 250	0.08 - 0.25
Cast iron (GG25, GG30, GGG40 etc.)	150 ~ 250	4L15	160	0.08 - 0.15 - 0.30
Non ferrous alloys (Si < 13%)	-	HT15	300 - 400	0.05 - 0.10

SIZE 1 MODULAR INSERT DRILLS AND PILOTS

GRANLUND

ITEM: B8G35





Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G3506,5	1B-06,5	6,5	6,0	95,0	25,0
B8G3506,8	1B-06,8	6,8	6,0	95,0	25,0
B8G3507	1B-07,0	7,0	6,0	95,0	25,0
B8G3508	1B-08,0	8,0	6,0	95,0	25,0
B8G3508,5	1B-08,5	8,5	6,0	95,0	25,0

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G3509	1B-09,0	9,0	6,0	95,0	25,0
B8G3510	1B-10,0	10,0	6,0	95,0	25,0
B8G3511	1B-11,0	11,0	6,0	95,0	25,0
B8G3512	1B-12,0	12,0	6,0	95,0	25,0

As for tips/pilots, be sure the hole is clear before starting any operations with the following tools required.

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G4006,5	1LB-06,5	6,5	6,0	110,0	40,0
B8G4006,8	1LBB-06,8	6,8	6,0	110,0	40,0
B8G4007	1LB-07,0	7,0	6,0	110,0	40,0
B8G4008	1LB-0,8,0	8,0	6,0	110,0	40,0
B8G4008,5	1LB-08,5	8,5	6,0	110,0	40,0

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G4009	1LB-09,0	9,0	6,0	110,0	40,0
B8G4010	1LB-10,0	10	6,0	110,0	40,0
B8G4011	1LB-11,0	11,0	6,0	110,0	40,0
B8G4012	1LB-12,0	12,0	6,0	110,0	40,0

As for insert drills, be sure the insert drill has completely come out before starting any operations with the following tools required.

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G4508	1F-08,0	8,0	6,0	80,0	14,0
B8G4508,5	1F-08,5	8,5	6,0	80,0	14,0
B8G4509	1F-09,0	9,0	6,0	80,0	14,0
B8G4510	1F-10,0	10,0	6,0	80,0	14,0
B8G4510,5	1F-10,5	10,5	6,0	80,0	14,0
B8G4511	1F-11,0	11,0	6,0	80,0	14,0
B8G4512	1F-12,0	12,0	6,0	80,0	14,0
B8G4513	1F-13,0	13,0	6,0	80,0	14,0

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G4514	1F-14,0	14,0	6,0	80,0	14,0
B8G4515	1F-15,0	15,0	6,0	80,0	14,0
B8G4516	1F-16,0	16,0	6,0	80,0	14,0
B8G4517	1F-17,0	17,0	6,0	80,0	14,0
B8G4518	1F-18,0	18,0	6,0	80,0	14,0
B8G4519	1F-19,0	19,0	6,0	80,0	14,0
B8G4520	1F-20,0	20,0	6,0	80,0	14,0

As for use with drills, be sure to properly lubricate with either neat oil or emulsion.

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G5008	1R-08,0	8,0	6,0	80,0	14,0
B8G5008,5	1R-08,5	8,5	6,0	80,0	14,0
B8G5009	1R-09,0	9,0	6,0	80,0	14,0
B8G5010	1R-10,0	10,0	6,0	80,0	14,0
B8G5010,5	1R-10,5	10,5	6,0	80,0	14,0
B8G5011	1R-11,0	11,0	6,0	80,0	14,0
B8G5012	1R-12,0	12,0	6,0	80,0	14,0
B8G5013	1R-13,0	13,0	6,0	80,0	14,0

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G5014	1R-14,0	14,0	6,0	80,0	14,0
B8G5015	1R-15,0	15,0	6,0	80,0	14,0
B8G5016	1R-16,0	16,0	6,0	80,0	14,0
B8G5017	1R-17,0	17,0	6,0	80,0	14,0
B8G5018	1R-18,0	18,0	6,0	80,0	14,0
B8G5019	1R-19,0	19,0	6,0	80,0	14,0
B8G5020	1R-20,0	20,0	6,0	80,0	14,0

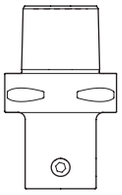
As for use with drills, be sure to properly lubricate with either neat oil or emulsion.

Tech. Code	Version	Description	Denomination
BRICA190	SSK-20/8190.9120	1WHV-20 1WHV-25	1KV-26
BRICA191	SSK-22/8191.9122	1WHV-30 1WHV-32	1KV-30



TOOL HOLDERS

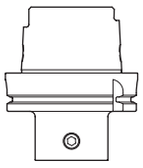
ISO 26623-1



PSC System 20/55

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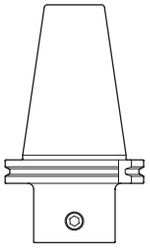
DIN 69893



HSK-A System 20/55

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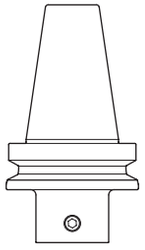
DIN 69871 A/D



SK-A System 20/55

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MAS403-BT

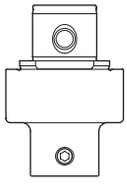


BT-A System 20/55

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REDUCTION EXTENSION

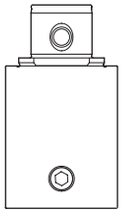
REDUCTION ADAPTERS



System 25/55

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EXTENSIONS



System 20/55

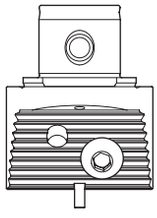
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ROUGHING SYSTEM

CCMT 0602... LPM
CCMT 09T3... LPM
CCMT 1204... LPM



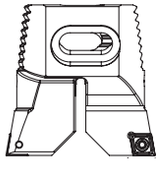
ROUGHING HEADS 142



System 20/55
D 23,50 - 87,50

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ROUGHING INSERT HOLDERS



D 23,50 - 87,50

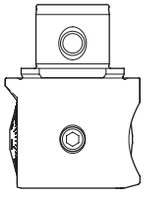
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FINISHING SYSTEM

CCGT 0602... L
CCGT 09T3... L



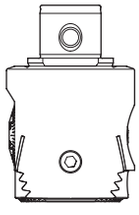
FINISHING HEAD 262



System 55
9,75 - 88,10

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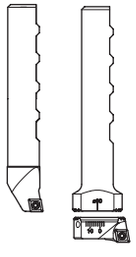
FINISHING HEAD 261



System 55
3,00 - 320,00

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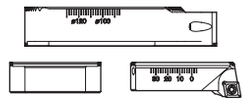
FINISHING BORING BARS



D 9,75 - 88,10

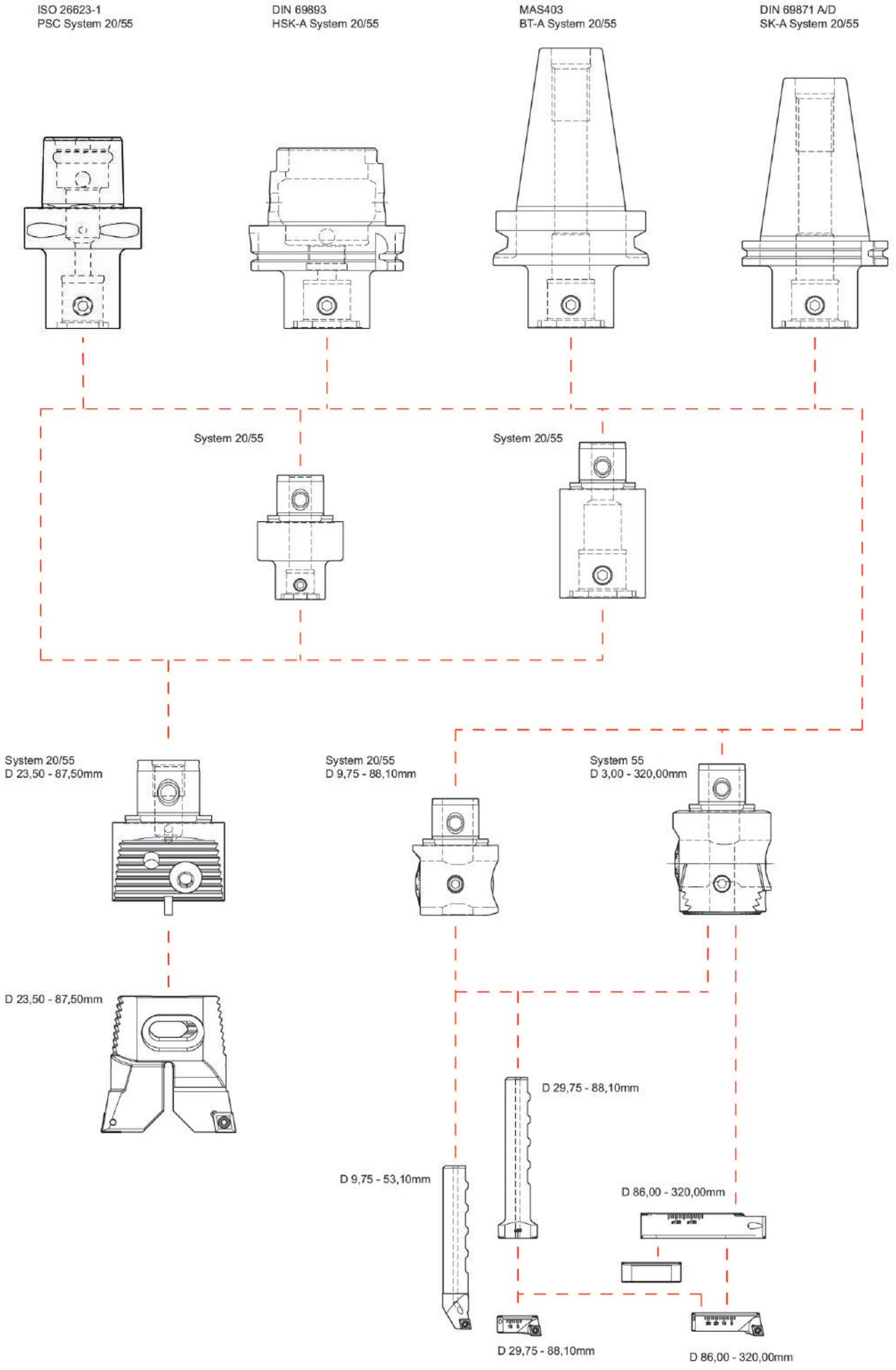
Page 123

FINISHING HOLDERS



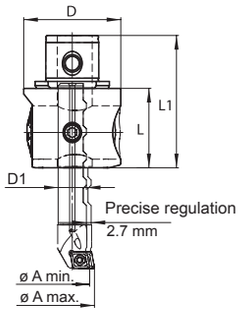
D 86,00 - 320,00

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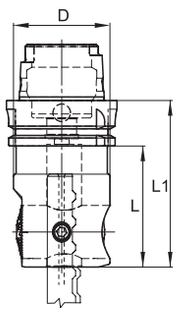

ISO 26623-1
PSC System 20/55
DIN 69893
HSK-A System 20/55
MAS403
BT-A System 20/55
DIN 69871 A/D
SK-A System 20/55
System 20/55
System 20/55
System 20/55
D 23,50 - 87,50mm
System 20/55
D 9,75 - 88,10mm
System 55
D 3,00 - 320,00mm
D 23,50 - 87,50mm
D 29,75 - 88,10mm
D 9,75 - 53,10mm
D 86,00 - 320,00mm
D 29,75 - 88,10mm
D 86,00 - 320,00mm

HIGH-PRECISION BORING TOOL KIT D9,75 - D88,10

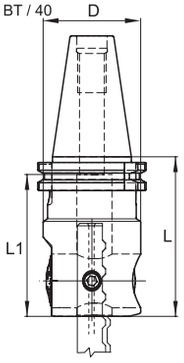
System 55



HSK A63



SK - MAS BT / 40



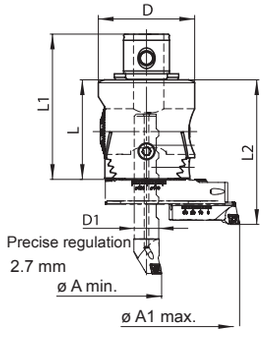


Tech. Code	Denomination	Coupling	D mm	D1 mm	A min mm	A max mm	L mm	L1 mm
B9B90M30	528.000.030	SYSTEM 55	55	16	9,75	30,1	45	75
B9B90H30	528.063.030	HSK-A 63	55	16	9,75	30,1	95	70
B9B90S30	528.415.030	SK40 A/D	55	16	9,75	30,1	90	80
B9B90B30	528.412.030	BT40 A/D	55	16	9,75	30,1	90	80

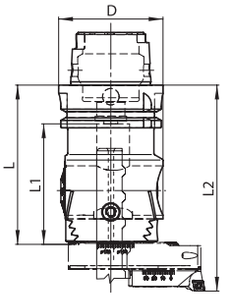
Tech. Code	Denomination	Coupling	D mm	D1 mm	A min mm	A max mm	L mm	L1 mm
B9B85M88	527.000.088	SYSTEM 55	55	16	9,75	88,1	45	75
B9B85H88	527.063.088	HSK-A 63	55	16	9,75	88,1	95	70
B9B85S88	527.415.088	SK40 A/D	55	16	9,75	88,1	90	80
B9B85B88	527.412.088	BT40 A/D	55	16	9,75	88,1	90	80

HIGH-PRECISION BORING TOOL KIT D9,75 - D164

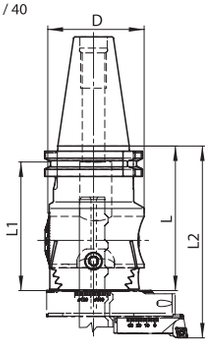
System 55



HSK A63



SK - MAS BT / 40





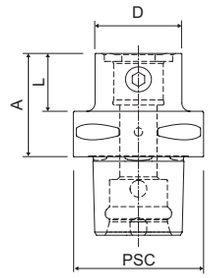
Tech. Code	Denomination	Coupling	D mm	D1 mm	A min mm	A1 max mm	L mm	L1 mm	L2 mm
B9B80M164	530.000.164	SYSTEM 55	63	16	9,75	164	66	96,0	95
B9B80H164	530.063.164	HSK-A 63	63	16	9,75	164	96	72,5	125
B9B80S164	530.415.164	SK40 A/D	63	16	9,75	164	91	81,0	120
B9B80B164	530.412.164	BT40 A/D	63	16	9,75	164	91	81,0	120

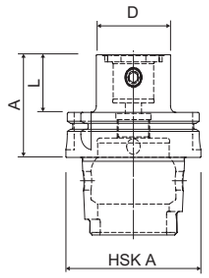
Coupling	Countersinking micrometer head	Boring insert holder	Boring insert holder	Boring insert holder	Boring insert holder	Adjustable boring bars	Adjustable boring bars	Alluminum bridge	Insert holder	Insert holder
9,75 - 30,10	**B9B505502**	**B9B551006**	**B9B551506**	**B9B552006**	**B9B552506**	**-**	**-**	**-**	**-**	**-**
9,75 - 88,10	**B9B505502**	**B9B551006**	**B9B551506**	**B9B552006**	**B9B552506**	**B9B601601**	**B9B601602**	**-**	**B9B650106**	**B9B650206**
9,75 - 164,00	**B9B455501**	**B9B551006**	**B9B551506**	**B9B552006**	**B9B552506**	**B9B601601**	**B9B601602**	**B9B70164**	**B9B650106**	**B9B650206**

Kit supplied in black plastic box, hex and torx keys.

PSC ISO 26623-1 AND HSK A DIN 69893 MODULAR MASTER SHANKS

ITEM: B9B05





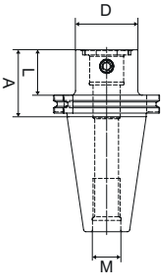


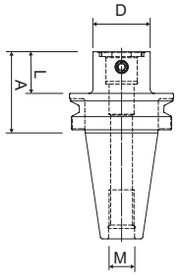
Tech. Code	Description	PSC	System D mm	L mm	A mm	Grub screw
B9B050620	102.163.201	63	20	28	50	800.000.200
B9B050625	102.163.251	63	25	28	50	800.000.250
B9B050632	102.163.321	63	32	28	50	800.000.320
B9B050642	102.163.421	63	42	28	50	800.000.420
B9B050655	102.163.551	63	55	38	60	800.000.550

Tech. Code	Description	HSK-A	System D mm	L mm	A mm	Grub screw
B9B100620	102.063.201	63	20	24	50	800.000.200
B9B100625	102.063.251	63	25	24	50	800.000.250
B9B100632	102.063.321	63	32	24	50	800.000.320
B9B100642	102.063.421	63	42	24	50	800.000.420
B9B100655	102.063.551	63	55	40	66	800.000.550

DIN 69871 A/D AND MAS403 BT MODULAR MASTER SHANKS

ITEM: B9B15





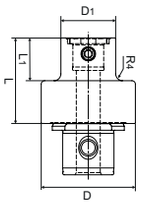


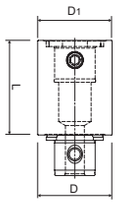
Tech. Code	Description	SK A/D	System D mm	L mm	A mm	Grub screw
B9B150420	102.415.201	40	20	15	34,1	800.000.200
B9B150425	102.415.251	40	25	25	44,1	800.000.250
B9B150432	102.415.321	40	32	25	44,1	800.000.320
B9B150442	102.415.421	40	42	30	49,1	800.000.420
B9B150455	102.415.551	40	55	40	59,1	800.000.550
B9B150455L	102.415.552	40	55	100	119,1	800.000.550

Tech. Code	Description	BT A/D	System D mm	L mm	A mm	Grub screw
B9B200420	102.412.201	40	20	15	42	800.000.200
B9B200425	102.412.251	40	25	25	52	800.000.250
B9B200432	102.412.321	40	32	25	52	800.000.320
B9B200442	102.412.421	40	42	30	57	800.000.420
B9B200455	102.412.551	40	55	40	67	800.000.550
B9B200455L	102.412.552	40	55	100	127	800.000.550

MODULAR REDUCTION AND EXTENSION ADAPTERS

ITEM: B9B25





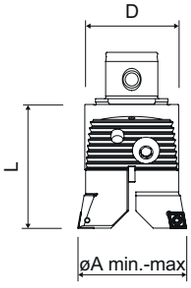


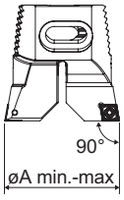


Tech. Code	Description	System D mm	System D1 mm	L1 mm	L mm	Grub screw
B9B252520	122.250.201	25	20	15	30	800.000.200
B9B253220	122.320.201	32	20	15	30	800.000.200
B9B253225	122.320.251	32	25	25	40	800.000.250
B9B254225	122.420.251	42	25	25	40	800.000.250
B9B254232	122.420.321	42	32	25	45	800.000.320
B9B255532	122.550.321	55	32	25	50	800.000.320
B9B255542	122.550.421	55	42	30	55	800.000.420

Tech. Code	Description	System D mm	System D1 mm	L mm	Grub screw
B9B302025	132.200.001	20	20	25	800.000.200
B9B302530	132.250.001	25	25	30	800.000.250
B9B303240	132.320.001	32	32	40	800.000.320
B9B304250	132.420.001	42	42	50	800.000.420
B9B305570	132.550.001	55	55	70	800.000.550

TWIN CUTTER BORING ROUGHING HEADS - D23.50 - D87.50



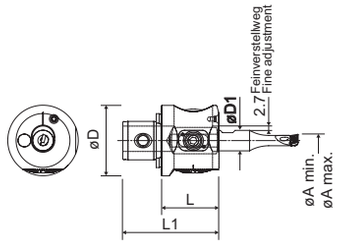


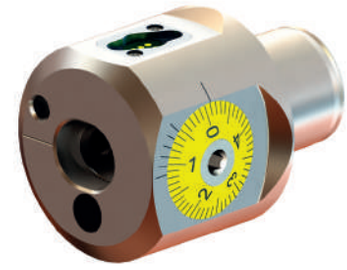


Tech. Code	Denomination	Z	System D mm	A min. mm	A max. mm	L mm	Insert holder	Clamping screw	Washer
B9B352040	142.200.000	2	20	23,50	30,50	40	162.200.006	840.142.200	841.142.200
B9B352550	142.250.000	2	25	29,50	40,10	50	162.250.006	840.142.250	841.142.250
B9B353265	142.320.000	2	32	39,50	50,50	65	162.320.009	840.142.320	841.142.320
B9B354290	142.420.000	2	42	49,50	66,50	90	162.420.009	840.142.420	841.142.420
B9B3555115	142.550.000	2	55	65,50	87,50	115	162.550.112	840.142.550	841.142.550

Tech. Code	Denomination	Z	A min. mm	A max. mm	Modular head	Insert	Insert screw
B9B402006	162.200.006	2	23,50	30,50	142.200.000	CC..0602...	843.006.000
B9B402506	162.250.006	2	29,50	40,10	142.250.000	CC..0602...	843.006.000
B9B403209	162.320.009	2	39,50	50,50	142.320.000	CC...09T3...	843.009.000
B9B404209	162.420.009	2	48,50	66,50	142.420.000	CC...09T3...	843.009.000
B9B405512	162.550.112	2	65,50	87,50	142.550.000	CC...1204...	843.012.000

DIGITAL FINE BORING HEADS - D3 - D88.10

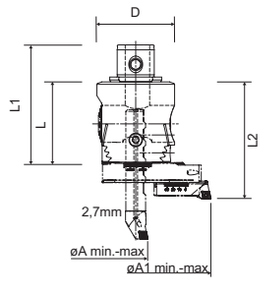




Tech. Code	Denomination	Z	System D mm	D1 mm	A min. mm	A max. mm	L mm	L1 mm	Clamping screw	Fitting screw	USB memory stick
B9B415502	265,550,045	1	55	16	3	88.10	45	75	881,262,420	882,626,420	B9B42USB

USB memory stick for adjustment not included.

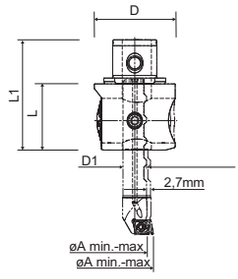
HIGH PRECISION BORING HEADS - D9,75 - D320





Tech. Code	Denomination	Z	System D mm	D1 mm	A mm min - max	A1 mm min - max	L mm	L1 mm	L2 mm	Clamping screw	Fitting screw	Fitting screw seat
B9B455501	261.550.065	1	55	63	3 - 88,10	86 - 320	66	96	95	881.261.016	881.261.020	883.261.016

FINE BORING HEADS - D3 - D8,10

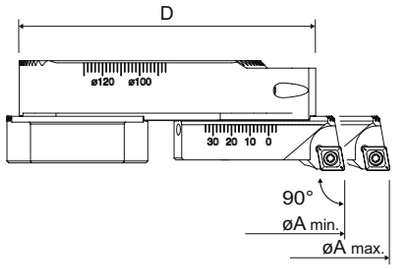


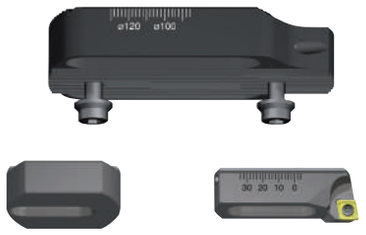


Tech. Code	Denomination	Z	System D mm	D1 mm	A min. mm	A max. mm	L mm	L1 mm	Clamping screw	Fitting screw
B9B505502	262,550,045	1	55	16	3	88.10	45	75	881,262,420	882,262,420

EXTENSION BRIDGES AND ACCESSORIES - D86 - D320

ITEM: B9B70





Tech. Code	Denomination	D mm	A min. mm	A max. mm	Air hole	Clamping screw
B9B700164	886.086.164	80	86	164	With	883.261.016
B9B700320	886.162.320	158	162	320	With	883.261.016

Tech. Code	Denomination	Z	A min. mm	A max. mm	Insert	Shank	Air hole	Insert screw
B9B650206	253.048.006	1	47,75	88,10	CC.. 06 02..	271.048.088	With	843.006.000
B9B650109	253.048.009	1	47,75	88,10	CC.. 09 T3..	271.048.088	With	843.009.000

ALUMINUM BRIDGE BARS AND ACCESSORIES- - D86 - D320

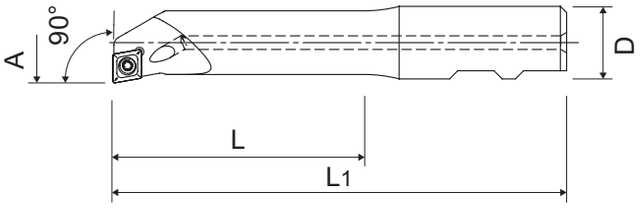
ITEM: B9B75



Tech. Code	Denomination	Clamping screw
B9B7501	886.038.045	883.261.016

BORING BARS - D,75 - D53,10

ITEM: B9B55

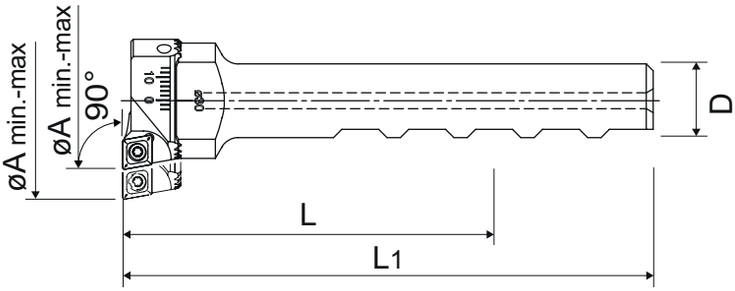




Tech. Code	Denomination	Z	D mm	A min mm	A max mm	L mm	L1 mm	Insert	Air hole	Insert screw
B9B551006	272.010.006	1	16	9,75	15,10	30	75	CC .. 06 02 ..	With	843.007.000
B9B551206	272.012.006	1	16	11,75	17,10	37	80	CC .. 06 02 ..	With	843.007.000
B9B551406	272.014.006	1	16	13,75	19,10	43	85	CC .. 06 02 ..	With	843.006.000
B9B551506	272.015.006	1	16	14,75	20,10	51	90	CC .. 06 02 ..	With	843.006.000
B9B551606	272.016.006	1	16	15,75	21,10	57	95	CC .. 06 02 ..	With	843.006.000
B9B551806	272.018.006	1	16	17,75	23,10	67	100	CC .. 06 02 ..	With	843.006.000
B9B552006	272.020.006	1	16	19,75	25,10	72	105	CC .. 06 02 ..	With	843.006.000
B9B552009	272.020.009	1	16	19,75	25,10	72	105	CC .. 09 T3 ..	With	843.009.000
B9B552209	272.022.009	1	16	21,75	27,10	77	110	CC .. 09 T3 ..	With	843.009.000
B9B552506	272.025.006	1	16	24,75	30,10	82	115	CC .. 06 02 ..	With	843.006.000
B9B552509	272.025.009	1	16	24,75	30,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B552809	272.028.009	1	16	27,75	33,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B553009	272.030.006	1	16	29,75	35,10	82	115	CC .. 06 02 ..	With	843.006.000
B9B553209	272.032.009	1	16	31,75	37,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B553506	272.035.006	1	16	34,75	40,10	82	115	CC .. 06 02 ..	With	843.006.000
B9B553509	272.035.009	1	16	34,75	40,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B553909	272.039.009	1	16	38,75	44,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B554309	272.043.009	1	16	42,75	48,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B554809	272.048.009	1	16	47,75	53,10	82	115	CC .. 09 T3 ..	With	843.009.000

BORING BARS - D29,75 - D88,10

ITEM: B9B60



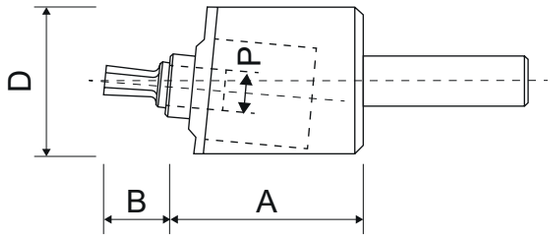


Tech. Code	Denomination	D mm	A min. mm	A max. mm	L mm	L1 mm	Holder	Air hole	Clamping screw
B9B601601	271.030.048	16,00	29,75	48,10	85,00	115,00	253.030.006	With	883.261.016
B9B601602	271.048.088	16,00	47,75	88,10	85,00	115,00	253.048....	With	883.261.016

Tech. Code	Denomination	Z	A min. mm	A max. mm	Insert	Shank	Air hole	Insert screw
B9B650106	253.030.006	1	29,75	48,10	CC..06 02..	271.030.048	With	843.006.000
B9B650206	253.048.006	1	47,75	88,10	CC.. 06 02..	271.048.088	With	843.006.000
B9B650109	253.048.009	1	47,75	88,10	CC.. 09 T3..	271.048.088	With	843.009.000

BROACHING HEADS FOR POLYGONAL HOLES AND SURFACE PROFILES

ITEM: B9P10

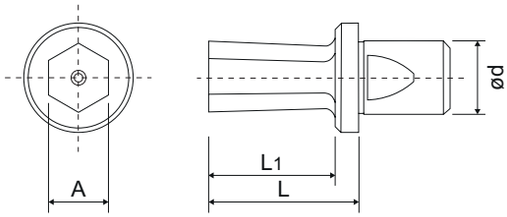




Tech. Code	Cylindrical shank mm	Shank of the broach mm	Hexagonal slot capacity mm	Broaching depth mm	A x D mm	B mm
B9P10G12C25	25	12	1 ÷ 14	20 max	78 x 58	25
B9P10G16C32	32	16	1 ÷ 24	21 max	95 x 70	25

BROACHES FOR HEXAGONAL HOLES - SHANK 12

ITEM: B9P60



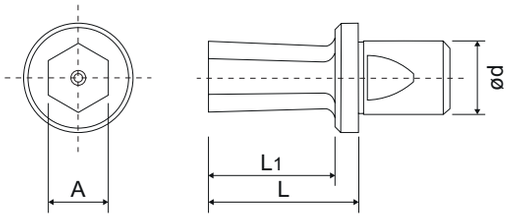


Tech. Code	A mm	d mm	L mm	L1 mm
B9P60E03	3	12	25	7
B9P60E04	4	12	25	9
B9P60E05	5	12	25	11
B9P60E06	6	12	25	13
B9P60E07	7	12	25	15
B9P60E08	8	12	25	17
B9P60E09	9	12	25	19
B9P60E10	10	12	25	21
B9P60E11	11	12	25	21
B9P60E12	12	12	25	21
B9P60E13	13	12	25	21
B9P60E14	14	12	25	21

BROACHES FOR HEXAGONAL HOLES - SHANK 16

KERFOLG

ITEM: B9P65



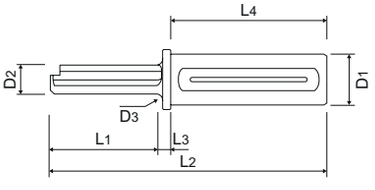


Tech. Code	A mm	d mm	L mm	L1 mm
B9P65E03	3	16	25	7
B9P65E04	4	16	25	9
B9P65E05	5	16	25	11
B9P65E06	6	16	25	13
B9P65E07	7	16	25	15
B9P65E08	8	16	25	17
B9P65E09	9	16	25	19
B9P65E10	10	16	25	21
B9P65E11	11	16	25	21
B9P65E12	12	16	25	21
B9P65E13	13	16	25	21
B9P65E14	14	16	25	21
B9P65E17	17	16	25	21
B9P65E19	19	16	25	21
B9P65E22	22	16	25	21
B9P65E24	24	16	25	21

INSERTS TOOL HOLDERS

ITEM: B9S20

The tools are made of steel for hardened tools. The part where the insert is housed is tempered at 58/60 HRC, as to make it very resistant to compression and to ensure the tools a long life. They are provided with 4 mm holes, for the forced supply of coolant, that in addition allows the lubrication and the cooling of the insert to extract for the blind hole the chip produced from the processing of slotting. The tools are available in two grip sizes, Ø 32 mm standard e Ø 25 mm on request.



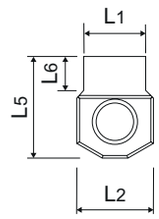


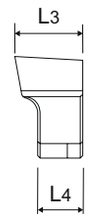
Tech. Code	Dimension mm	L1 mm	L2 mm	L3 mm	L4 mm	D1 mm	D2 mm	D3 mm	Hole min. mm	Aligner	Screw
B9S20033230	3	30	139	9	100	32	8	37	8,7	N1	V1
B9S20033240	3	40	149	9	100	32	8	37	8,7	N1	V1
B9S20043240	4	40	149	9	100	32	10	37	11	N1	V1
B9S20043256	4	56	165	9	100	32	10	37	11	N1	V1
B9S20053246	5	46	155	9	100	32	12	37	13	N1	V1
B9S20053266	5	66	175	9	100	32	12	37	13	N1	V1
B9S20063256	6	56	56	9	100	32	16	37	17	N2	V2
B9S20063281	6	81	190	9	100	32	16	37	17	N2	V2
B9S20083268	8	68	177	9	100	32	20	37	21,5	N2	V2
B9S200832100	8	100	209	9	100	32	20	37	21,5	N2	V2
B9S20103286	10	86	195	9	100	32	25	37	28	N3	V3
B9S201032126	10	126	235	9	100	32	25	37	28	N3	V3
B9S201232104	12	104	213	9	100	32	30	37	32	N3	V3
B9S201232161	12	161	270	9	100	32	30	37	32	N3	V3

INSERTS FOR SLOTS

ITEM: B9S25

The inserts for slots are made in sintered alloy, that after a thermal treatment it reaches a hardness of 70-71 HRC. This material gives the inserts a high toughness which allows them to withstand high pressure. The inserts also undergo a TIN surface coating treatment. The inserts are sharp and tapered on all their sides. This process eliminates flank contact that prevents the cutting perpendicular of all reference axis parts during slotting. Available on request inserts P6 tolerance D10 -D11 or with chamfer holes of 0.2x45° (H7-SM e P6-SM) and the walls of the quarry broached, this leaving the holes free of burrs. This type of bevel is suitable only on the premises for UNI keys.







Tech. Code	Dimension mm	Tolerance	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm	Tool
B9S2503H7	3	H7	3,010	6,08	6,5	5	7,5	2	B9S200332xx
B9S2504H7	4	H7	4,012	6,08	7	5	8	2,6	B9S200432xx
B9S2505H7	5	H7	5,012	6,08	7	5	8	3	B9S200532xx
B9S2506H7	6	H7	6,012	10,08	9	6	13,5	4	B9S200632xx
B9S2508H7	8	H7	8,015	10,08	9	6	13,5	4,5	B9S200832xx
B9S2510H7	10	H7	10,015	13,1	14	10	18,5	6	B9S201032xx
B9S2512H7	12	H7	12,018	13,1	14	10	18,5	6,5	B9S201232xx

REPLACEMENT SCREWS FOR FIXING SLOTTING INSERTS

KERFOLG

ITEM: B9S96

Replacement screws for fixing inserts.



Tech. Code	Model	Type	Dimension mm
B9S96V1	V1	TORX	M 2,5 x 8
B9S96V2	V2	TORX	M 4 x 10
B9S96V3	V3	TORX	M 6 x 15

WODEX mro

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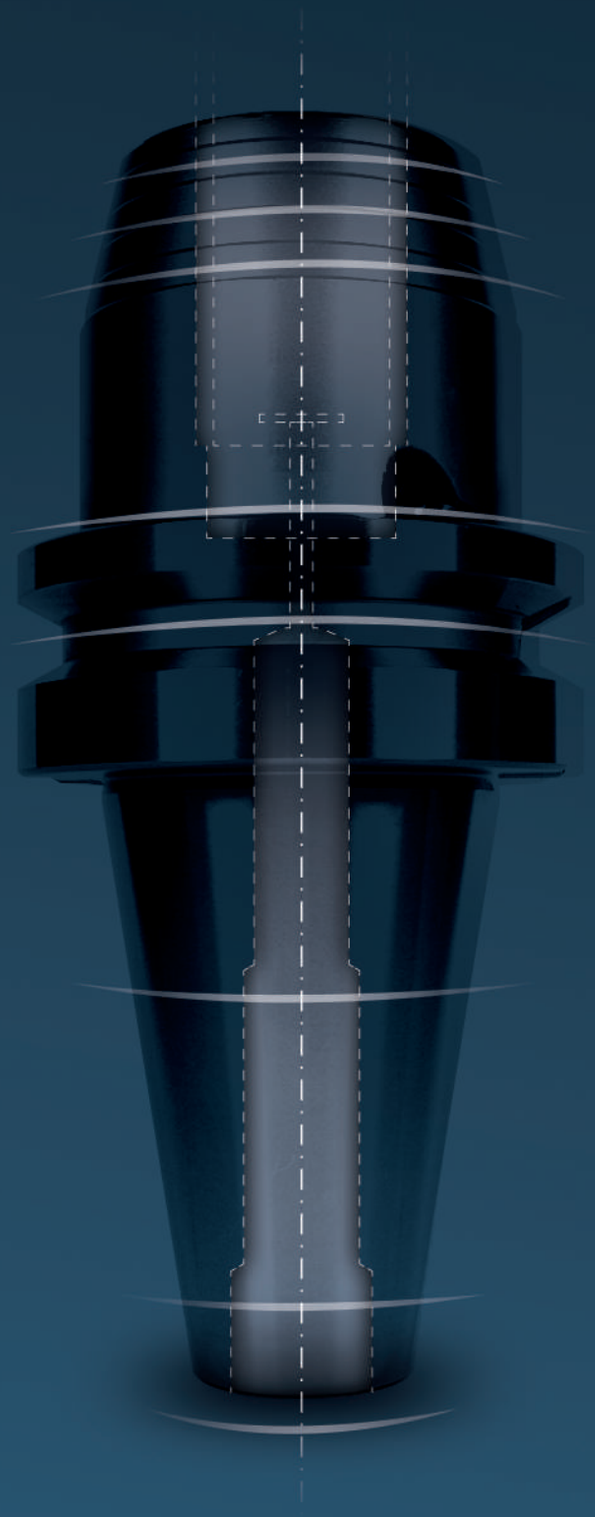


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THAT PROTECT THE OPERATOR'S HEALTH

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CLAMPING SYSTEM

C



EROGLU WRK — **1 - 8** Toolholders DIN 69871



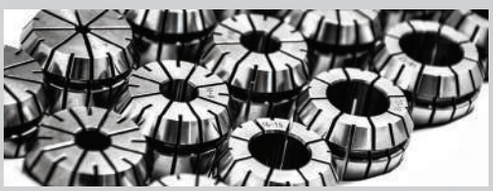
EROGLU WRK — **9 - 14** Toolholders MAS 403 BT



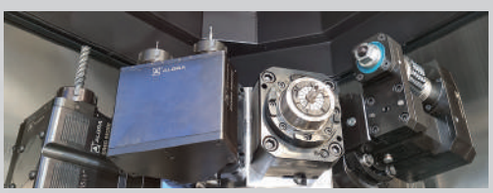
EROGLU WRK — **15 - 19** Toolholders HSK DIN 69893A ISO266Z3-1



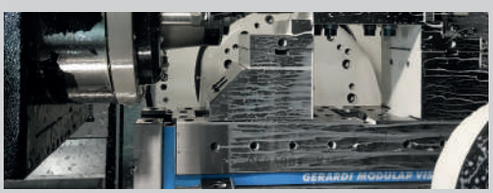
TUKOY EROGLU — **20 - 23** Toolholders DIN 2080, CM, ER cylindrical



KERFOLG GERARDI WRK — **24 - 43** Collets Toolholders accessories



ALGRA — **44 - 51** Driven Toolholders VDI Tool



KERFOLG GERARDI OML RÖHM — **52 - 71** Lathe chucks, clamping and live centres, magnetic plates

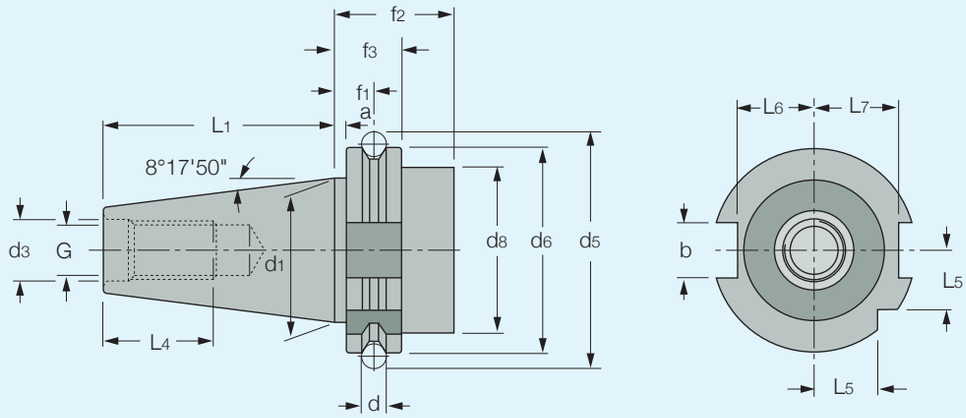


TUKOY — **72 - 80** Clamping elements

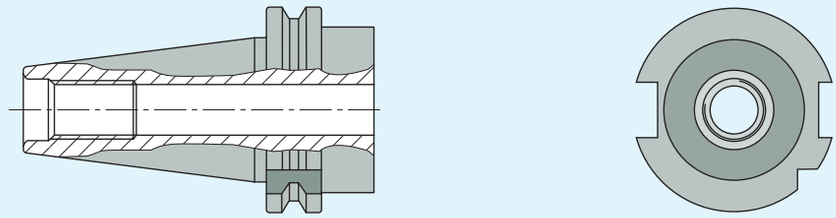


OML — **81 - 85** ZERO POINT clamping system

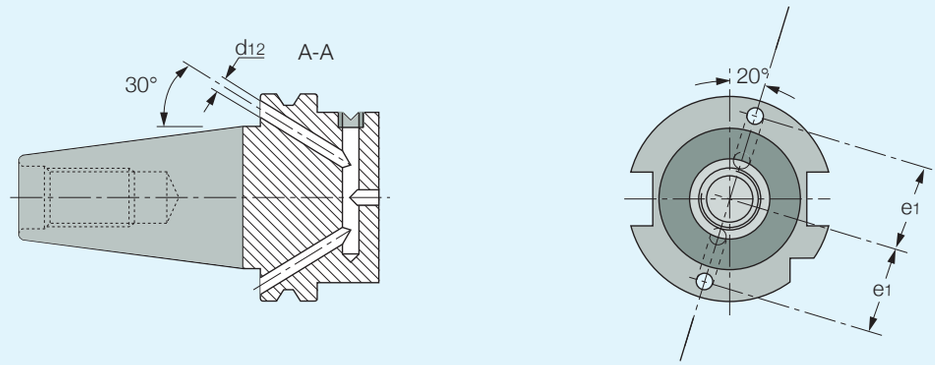
Type A



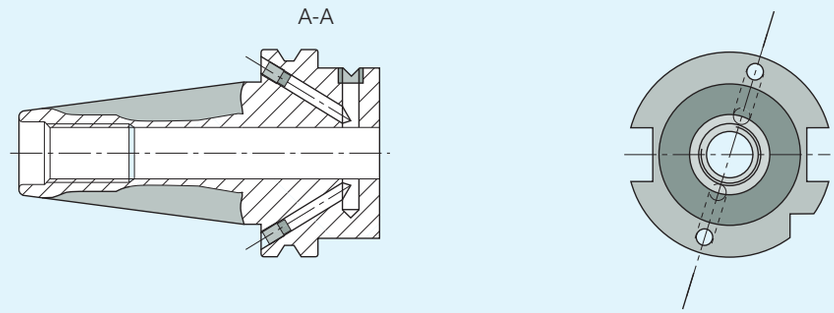
Type AD
Coolant Hole



Type B
Coolant Through Flange



Type ADB
Coolant Hole or Coolant through Flange



DIN69871 Type A/AD/B/ADB

Shank	$a^{\pm 0.1}$	$b_{(H12)}$	d	d_1	G	d_3 (H7)	d_5 ±0.05	d_6	$d_{8\ max}$	f_1 ±0.1
SK 30	3.2	16.1	7	31.75	M12	13	59.30	50	45	11.1
SK 40	3.2	16.1	7	44.45	M16	17	72.30	63.55	50	11.1
SK 50	3.2	25.7	7	69.85	M24	25	107.25	97.50	80	11.1

Shank	$f_{2\ min.}$	$f_{3\ -0.1}$	$L_{1\ -0.3}$	$L_{4\ min.}$	$L_{5\ -0.3}$	$L_{6\ -0.4}$	$L_{7\ -0.4}$	e_1 ±0.1	d_{12}	Taper AT3
SK 30	35	19.1	47.80	24	15.0	16.4	19.0	21	4	0.002
SK 40	35	19.1	68.40	32	18.5	22.8	25.0	27	4	0.003
SK 50	35	19.1	101.75	47	30.0	35.5	37.7	42	6	0.004

ER COLLET CHUCKS DIN 69871 SK AD+B

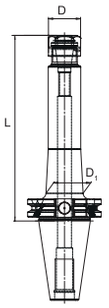
EROGLU Präzisionswerkzeuge

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0016

Tech. Code	SK	ER	D mm	L mm	D1 mm
C0016416063	40	16	28	63	-
C0016416100	40	16	28	100	-
C0016416130	40	16	28	130	-
C0016416160	40	16	28	160	32
C0016425060	40	25	42	60	-
C0016425100	40	25	42	100	-
C0016425130	40	25	42	130	-
C0016425160	40	25	42	160	46
C0016432070	40	32	50	70	-
C0016432100	40	32	50	100	-
C0016432130	40	32	50	130	-
C0016432160	40	32	50	160	-
C0016440080	40	40	63	80	-
C0016440100	40	40	63	100	-
C0016440130	40	40	63	130	-
C0016440160	40	40	63	160	-

Tech. Code	SK	ER	D mm	L mm	D1 mm
C0016525060	50	25	42	60	-
C0016525100	50	25	42	100	-
C0016525160	50	25	42	160	-
C0016532070	50	32	50	70	-
C0016532100	50	32	50	100	-
C0016532160	50	32	50	160	-
C0016540080	50	40	63	80	-
C0016540100	50	40	63	100	-
C0016540160	50	40	160	-	-





Nut included. Collets ER DIN 6499.

- NUTS page C.31 - COLLETS ER page C.25 - WRENCHES page C.35 - PULL STUDS page C.33

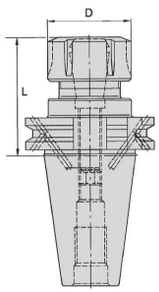
ER COLLET CHUCKS DIN 69871 SK AD+B

WRK

SK 40 | G 6.3 12.000 rpm | AT3 TAPER

ITEM: C0010

Tech. Code	SK	ER	D mm	L mm
C001043270	40	32	50	70





Nut included. Collets ER DIN 6499.
NB.: Chucks with length exceeding 100 mm balancing G 6.3 8.000 rpm.

- NUTS page C.31 - COLLETS ER page C.25 - WRENCHES page C.35 - PULL STUDS page C.33

ER MINI COLLET CHUCKS DIN 69871 SK AD+B

EROGLU Präzisionswerkzeuge

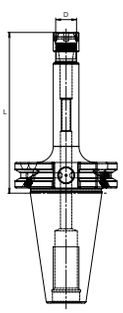
SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0017

Tech. Code	SK	ER	D mm	L mm
C0017411100	40	11 Mini	16	100
C0017411130	40	11 Mini	16	130
C0017416100	40	16 Mini	22	100
C0017416130	40	16 Mini	22	130

Ring nut included

Tech. Code	SK	ER	D mm	L mm
C0017516100	50	16 Mini	22	100
C0017516130	50	16 Mini	22	130





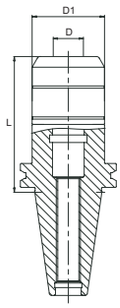
- NUTS page C.31 - COLLETS ER page C.25 - WRENCHES page C.35 - PULL STUDS page C.33

POWER CHUCKS DIN 69871 SK FORMA AD+B

EROGLU Präzisionswerkzeuge

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0026





Tech. Code	SK	D mm	L mm	D1 mm
C002642090	40	20	90	48
C0026432100	40	32	100	68

Tech. Code	SK	D mm	L mm	D1 mm
C002652070	50	20	70	48
C002653295	50	32	95	68

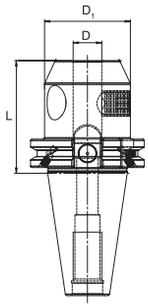
- WRENCHES F.S. page C.36 - COLLETS FS page C.30 - PULL STUDS page C.33

WELDON CHUCKS DIN 69871 SK AD+B

EROGLU Präzisionswerkzeuge

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0046





Tech. Code	SK	D mm	L mm	D1 mm
C0046406050	40	6	50	25
C0046406100	40	6	100	25
C0046406160	40	6	160	25
C0046408050	40	8	50	28
C0046408100	40	8	100	28
C0046408160	40	8	160	28
C0046410050	40	10	50	35
C0046410100	40	10	100	35
C0046410160	40	10	160	35
C0046412050	40	12	50	42
C0046412100	40	12	100	42
C0046412160	40	12	160	42
C0046416063	40	16	63	48
C0046416100	40	16	100	48
C0046416160	40	16	160	48
C0046420063	40	20	63	52
C0046420100	40	20	100	52
C0046420160	40	20	160	52
C0046425100	40	25	100	63
C0046425160	40	25	160	63
C0046432100	40	32	100	72
C0046432160	40	32	160	72

Tech. Code	SK	D mm	L mm	D1 mm
C0046512063	50	12	63	42
C0046516063	50	16	63	48
C0046520063	50	20	63	52
C0046525080	50	25	80	63
C0046532100	50	32	100	72
C0046540100	50	40	100	80

Clamping screw included.

- PULL STUDS page C.33 - CLAMPING SCREW page C.35

Related products

NEW

U-Power SAFETY SHOES

Tech. Code	EU Size	UK Size
K181744	44	10
K181745	45	10,5
K181746	46	11
K181747	47	12



Product available in Chapter K

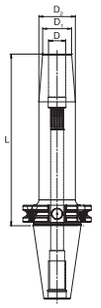
SHRINK FIT CHUCKS DIN 69871 SK AD+B

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0066

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm
C0066404080	40	4	80	12	20
C0066404120	40	4	120	12	20
C0066404160	40	4	160	12	20
C0066406080	40	6	80	21	27
C0066406120*	40	6	120	21	27
C0066406160*	40	6	160	21	27
C0066408080	40	8	80	21	27
C0066408120	40	8	120	21	27
C0066408160	40	8	160	21	27
C0066410080	40	10	80	24	32
C0066410120	40	10	120	24	32
C0066410160	40	10	160	24	32
C0066412080	40	12	80	24	32
C0066412120	40	12	120	24	32
C0066412160	40	12	160	24	32
C0066416080	40	16	80	27	34
C0066416120	40	16	120	27	34
C0066416160	40	16	160	27	34
C0066420080	40	20	80	33	42
C0066420120	40	20	120	33	42
C0066420160	40	20	160	33	42

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm
C0066506080	50	6	80	21	27
C0066508080	50	8	80	21	27
C0066510080	50	10	80	24	32
C0066512080	50	12	80	24	32
C0066516080	50	16	80	27	34
C0066520080	50	20	80	33	42
C0066525100	50	25	100	44	53
C0066532100	50	32	100	44	53





For tools only with shank in tolerance h6. *Pre-set screw not included.

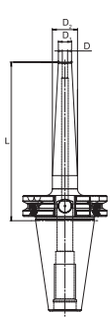
- PULL STUDS page C.33

SLIM SHRINK FIT CHUCKS DIN 69871 SK AD+B

SK 40 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0067

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm
C0067403120*	40	3	120	09	18
C0067404120*	40	4	120	10	19
C0067406160	40	6	160	12	25
C0067408160	40	8	160	14	27
C0067410160	40	10	160	16	29
C0067412160	40	12	160	18	31





For tools only with shank in tolerance h6. *Pre-set screw not included.

- PULL STUDS page C.33

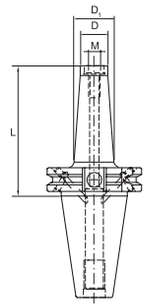
CHUCKS FOR THREADED COUPLIN DIN 69871 SK FORM AD+B

SK 40 | SK 50 | G 2.5 20.000 rpm

ITEM: C0103

Tech. Code	SK	M	D mm	L mm	D1 mm
C0103408044	40	8	13	44	15
C0103408069	40	8	13	69	22,5
C0103408094	40	8	13	94	23
C0103410044	40	10	18	44	20
C0103410069	40	10	18	69	22,5
C0103410094	40	10	18	94	27,5
C0103412044	40	12	21	44	24
C0103412069	40	12	21	69	24
C0103412094	40	12	21	94	31
C0103416044	40	16	29	44	-
C0103416069	40	16	29	69	34
C0103416094	40	16	29	94	34

Tech. Code	SK	M	D mm	L mm	D1 mm
C0103510069	50	10	18	69	23
C0103512069	50	12	21	69	24
C0103516069	50	16	29	69	34





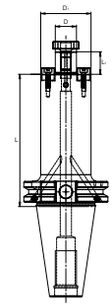
FIXED-DRIVE SHELL MILL HOLDER CHUCKS DIN 69871 SK 40 AD+B

SK 40 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0084

Tech. Code	SK	D mm	L mm	D1 mm	L1 mm
C0084416035	40	16	35	38	17
C0084416100	40	16	100	38	17
C0084422035	40	22	35	48	19
C0084422100	40	22	100	48	19
C0084427045	40	27	45	60	21
C0084427100	40	27	100	60	21
C0084432050	40	32	50	78	24
C0084432100	40	32	100	78	24
C0084440050	40	40	50	88	27

Drive ring and clamping screw included





- PULL STUDS page C.33 - SCREWS page C.36 - RINGS page C.36

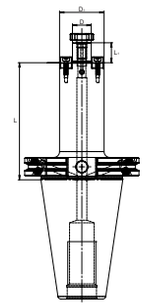
FIXED-DRIVE SHELL MILL HOLDER CHUCKS DIN69871 SK 50 AD+B

SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0085

Tech. Code	SK	D mm	L mm	D1 mm	L1 mm
C0085516035	50	16	35	38	17
C0085516100	50	16	100	38	17
C0085522035	50	22	35	48	19
C0085522100	50	22	100	48	19
C0085527040	50	27	40	60	21
C0085527100	50	27	100	60	21
C0085532050	50	32	50	78	24
C0085532100	50	32	100	78	24
C0085540050	50	40	50	88	27
C0085540100	50	40	100	88	27

Drive ring and clamping screw included





- PULL STUDS page C.33 - SCREWS page C.36 - RINGS page C.36

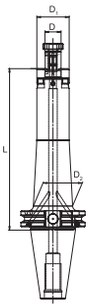
COMBI-DRIVE SHELL MILL HOLDER CHUCKS DIN 69871 SK AD+B

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0096

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm	L1 mm
C0096416055	40	16	55	32	-	17
C0096416100	40	16	100	32	-	17
C0096416160	40	16	160	32	39	17
C0096422055	40	22	55	40	-	19
C0096122100	40	22	100	40	-	19
C0096422160	40	22	160	40	46,5	19
C0096427055	40	27	55	48	-	21
C0096427100	40	27	100	48	-	21
C0096427160	40	27	160	48	-	21
C0096432060	40	32	60	58	-	24
C0096432160	40	32	160	58	-	24

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm	L1 mm
C0096516055	50	16	55	32	-	17
C0096516100	50	16	100	32	-	17
C0096516160	50	16	160	32	39	17
C0096522055	50	22	55	40	-	19
C0096522100	50	22	100	40	-	19
C0096522160	50	22	160	40	47	19
C0096527055	50	27	55	48	-	21
C0096527100	50	27	100	48	-	21
C0096527160	50	27	160	48	55	21
C0096532055	50	32	55	58	-	24
C0096532100	50	32	100	58	-	24
C0096532160	50	32	160	58	65,5	24
C0096540055	50	40	55	70	-	27
C0096540100	50	40	100	70	-	27
C0096540160	50	40	160	70	-	27





Drive ring and clamping screw included.

- PULL STUDS page C.33 - SCREWS page C.36 - RINGS page C.36

QUICK-CLAMPING DRILL CHUCKS DIN 69871 SK AD+B

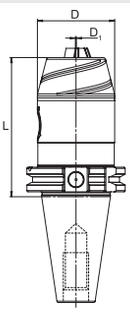
SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0146

Tech. Code	SK	D mm	L mm	D1 mm
C014640113	40	50	90	1 - 13
C014650113	50	50	90	1 - 13

CLOCKWISE COUNTER-CLOCKWISE ROTATION

- PULL STUDS page C.33





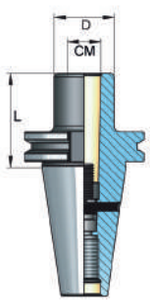
REDUCER CM FOR BURRS DIN 69871 SK A

SK 40 | SK 50 | G 6.3 15.000 rpm | AT3 TAPER

ITEM: C0122

Tech. Code	SK	CM	D mm	L mm
C01224CM2050	40	2	32	50
C01224CM3070	40	3	40	70
C01224CM4095	40	4	48	95

Tech. Code	SK	CM	D mm	L mm
C01222CM3065	50	3	40	65
C01221CM4070	50	4	48	70
C01225CM5100	50	5	63	100
C01225CM2060	50	2	32	60





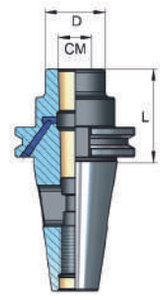
REDUCTIONS CM FOR DIN 69871 SK FORM AD/B DRILL BITS

SK 40 | SK 50 | G 6.3 15.000 rpm | AT3 TAPER

ITEM: C0123

Tech. Code	SK	CM	D mm	L mm
C01234CM1050	40	1	25	50
C01234CM2050	40	2	32	50
C01234CM3070	40	3	40	70
C01234CM4095	40	4	48	95

Tech. Code	SK	CM	D mm	L mm
C01235CM1045	50	1	25	45
C01235CM2060	50	2	32	60
C01235CM3065	50	3	40	65
C01235CM4095	50	4	48	95
C01235CM5105	50	5	63	105





TAPPING CHUCKS WITHOUT AXIAL COMPENSATION DIN 69871 SK A

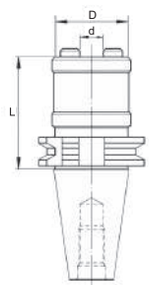
SK 40 | SK 50 | AT3 TAPER

ITEM: C0150

Tech. Code	SK	D mm	L mm	Capacity
C015041959	40	33	59	M3 - M14
C015043186	40	50	86	M5 - M22

Tech. Code	SK	D mm	L mm	Capacity
C015053198	50	50	98	M5 - M22

- BUSH WC page C.32 - BUSH WOC page C.32 - PULL STUDS page C.33





TAPPING CHUCKS WITH AXIAL COMPENSATION DIN 69871 SK A

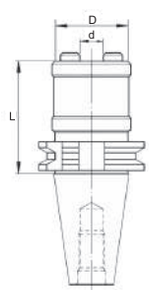
SK 40 | SK 50 | AT3 TAPER

ITEM: C0160

Tech. Code	SK	D mm	L mm	Capacity	Ext. mm
C016041960	40	38	60	M3 - M12	9
C0160431100	40	55	100	M6 - M20	15
C0160448138	40	76	138	M14 - M33	24

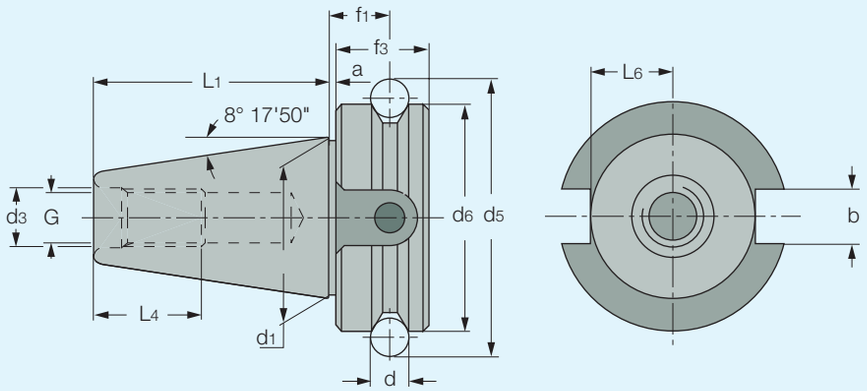
Tech. Code	SK	D mm	L mm	Capacity	Ext. mm
C016051962	50	38	62	M3 - M12	9
C016053183	50	55	83	M6 - M20	15
C016048133	50	79	133	M14 - M33	24

- BUSH WC page C.32 - BUSH WOC page C.32 - PULL STUDS page C.33

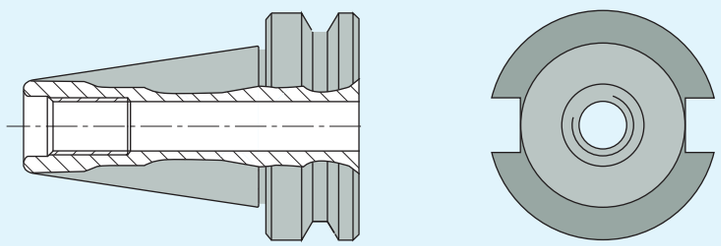




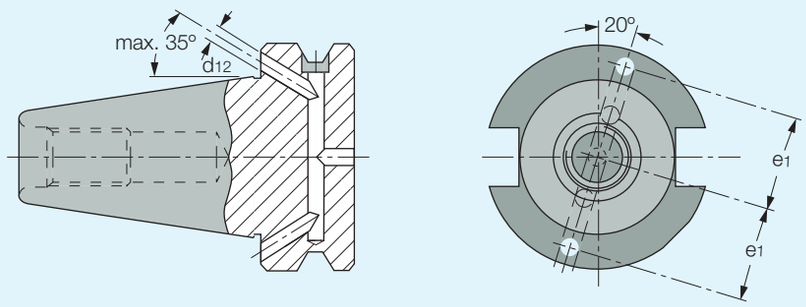
Type A



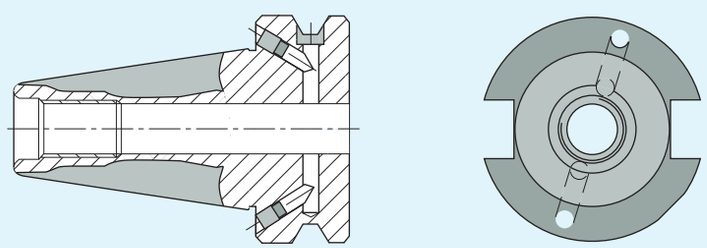
Type AD
Coolant Hole



Type B
Coolant Through Flange



Type ADB
Coolant Hole or Coolant through Flange



Shank	a	b (H12)	d	d_1	G	d_3 (H8)	d_5	d_6 (H8)	f_1 ±0.1
BT 30	2	16.1	8	31.75	M12	12.5	56.144	46	13.6
BT 40	2	16.1	10	44.45	M16	17.0	75.679	63	16.6
BT 50	3	25.7	15	69.85	M24	25.0	119.020	100	23.2

Shank	f_3	L_1 ±0.2	$L_{4\ min}$	$L_{6-0.2}$	e_1 ±0.1	d_{12}	Taper $_{AT3}$
BT 30	20	48.4	24	16.3	21	4	0.002
BT 40	25	65.4	30	22.6	27	4	0.003
BT 50	35	101.8	45	35.4	42	6	0.004

ER COLLECT CHUCKS MAS 403 BT AD+B

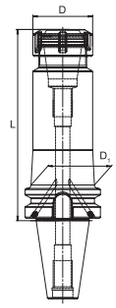
EROGLU Präzisionswerkzeuge

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1016

Tech. Code	BT	ER	D mm	L mm	D1 mm
C1016416063	40	16	28	63	-
C1016416100	40	16	28	100	-
C1016416130	40	16	28	130	-
C1016425060	40	25	42	60	-
C1016425100	40	25	42	100	-
C1016425130	40	25	42	130	-
C1016432070	40	32	50	70	-
C1016432100	40	32	50	100	-
C1016132130	40	32	50	130	-
C1016432160	40	32	50	160	53,5
C1016440080	40	40	63	80	-
C1016440100	40	40	63	100	-

Tech. Code	BT	ER	D mm	L mm	D1 mm
C1016516070	50	16	28	70	-
C1016516100	50	16	28	100	-
C1016525070	50	25	42	70	-
C1016525100	50	25	42	100	-
C1016532070	50	32	50	70	-
C1016532100	50	32	50	100	-





Nut included. Collets ER DIN 6499.

- NUTS page C.31 - COLLETS ER page C.25 - PULL STUDS page C.33 - WRENCHES page C.35

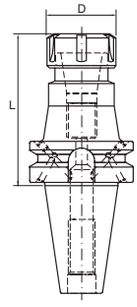
ER COLLET CHUCKS MAS 403 BT AD+B

WRK

BT 40 | G 6.3 12.000 rpm | AT3 TAPER

ITEM: C1010

Tech. Code	BT	ER	D mm	L mm
C101043270	40	32	50	70





Nut included. Collets ER DIN 6499.

- NUTS page C.31 - COLLETS ER page C.25 - WRENCHES page C.35

ER MINI COLLET CHUCKS MAS 403 BT AD+B

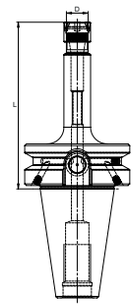
EROGLU Präzisionswerkzeuge

BT 40 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1017

Ring nut included.

Tech. Code	BT	ER	D mm	L mm
C1017410016	40	11 Mini	16	100
C1017410022	40	16 Mini	22	100
C1017413022	40	16 Mini	22	130
C1017416022	40	16 Mini	22	160





- NUTS page C.31 - COLLETS ER page C.25 - WRENCHES page C.35

POWER CHUCKS MAS 403 BT AD+B

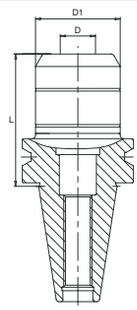
EROGLU Präzisionswerkzeuge

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1026

Tech. Code	BT	D mm	L mm	D1 mm
C102642075	40	20	75	48
C102643290	40	32	90	68

Tech. Code	BT	D mm	L mm	D1 mm
C102652090	50	20	90	48
C102653295	50	32	95	68





- WRENCHES F.S. page C.36 - COLLETS FS page C.30 - PULL STUDS page C.33

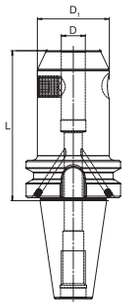
WELDON CHUCKS MAS 403 BT AD+B

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1046

Tech. Code	BT	D mm	L mm	D1 mm
C1046406050	40	6	50	25
C1046406100	40	6	100	25
C1046408050	40	8	50	28
C1046408100	40	8	100	28
C1046410063	40	10	63	35
C1046410100	40	10	100	35
C1046412063	40	12	63	42
C1046412100	40	12	100	42
C1046416063	40	16	63	48
C1046416100	40	16	100	48
C1046420063	40	20	63	52
C1046420100	40	20	100	52
C1046425090	40	25	90	63
C1046432100	40	32	100	72

Tech. Code	BT	D mm	L mm	D1 mm
C1046512080	50	12	80	42
C1046516080	50	16	80	48
C1046520080	50	20	80	52
C1046525100	50	25	100	63
C1046532105	50	32	105	72
C1046540110	50	40	110	80





Clamping screw included.

- PULL STUDS page C.33 - CLAMPING SCREW page C.35

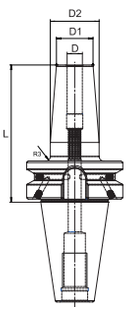
SHRINK FIT CHUCKS MAS 403 BT AD+B

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1066

Tech. Code	BT	D mm	L mm	D1 mm	D2 mm
C1066404090	40	4	90	12	20
C1066406090	40	6	90	21	27
C1066408090	40	8	90	21	27
C1066408160	40	8	160	21	27
C1066410090	40	10	90	24	32
C1066410160	40	10	160	24	32
C1066412090	40	12	90	24	32
C1066412160	40	12	160	24	32
C1066416090	40	16	90	27	34
C1066420090	40	20	90	33	42

Tech. Code	BT	D mm	L mm	D1 mm	D2 mm
C1066506100	50	6	100	21	27
C1066508100	50	8	100	21	27
C1066510100	50	10	100	24	32
C1066512100	50	12	100	24	32
C1066516100	50	16	100	27	34
C1066520100	50	20	100	33	42
C1066525110	50	25	110	44	53
C1066532110	50	32	110	44	53





For tools only with shank in tolerance h6. Pre-set screw included.

- PULL STUDS page C.33

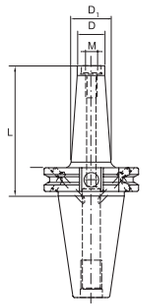
CHUCKS FOR THREADED COUPLING MAS 403 BT AD+B

BT 40 | BT 50 | G 2.5 20.000 rpm

ITEM: C1201

Tech. Code	BT	M	D mm	L mm	D1 mm
C1201408052	40	8	13	52	15
C1201408102	40	8	13	102	23
C1201410052	40	10	18	52	20
C1201410102	40	10	18	102	28
C1201412052	40	12	21	52	24
C1201412102	40	12	21	102	31
C1201416052	40	16	29	52	-
C1201416102	40	16	29	102	34

Tech. Code	BT	M	D mm	L mm	D1 mm
C1201512088	50	12	21	88	24
C1201516088	50	16	29	88	34





MAS 403 BT FIXED DRIVE SPINDLES FORM AD/B

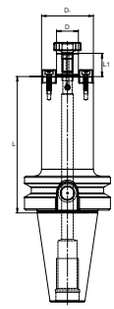
BT 40 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1083

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm
C1083416040	40	16	40	38	17
C1083416100	40	16	100	38	17
C1083422040	40	22	40	48	19
C1083422100	40	22	100	48	19
C1083427040	40	27	40	60	21
C1083427100	40	27	100	60	21
C1083432050	40	32	50	78	24
C1083432100	40	32	100	78	24
C1083440050	40	40	50	88	27

Drive ring and clamping screw included

- RINGS page C.36 - SCREWS page C.36 - PULL STUDS page C.33





MAS 403 BT FIXED DRIVE SPINDLES FORM AD/B

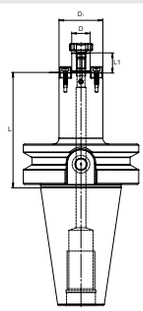
BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1084

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm
C1084516100	50	16	100	38	17
C1084522055	50	22	55	48	19
C1084527055	50	27	55	60	21
C1084532055	50	32	55	78	24
C1084540055	50	40	55	88	27

Drive ring and clamping screw included

- RINGS page C.36 - SCREWS page C.36 - PULL STUDS page C.33





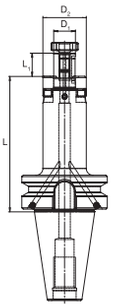
COMBINED SHELL MILL HOLDER CHUCKS MAS 403 BT AD+B

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1096

Tech. Code	BT	L mm	D1 mm	D2 mm	L1 mm
C1096416055	40	55	16	32	17
C1096416100	40	100	16	32	17
C1096422055	40	55	22	40	19
C1096422100	40	100	22	40	19
C1096427055	40	55	27	48	21
C1096427100	40	100	27	48	21
C1096432060	40	60	32	58	24
C1096432100	40	100	32	58	24
C1096440060	40	60	40	70	27

Tech. Code	BT	L mm	D1 mm	D2 mm	L1 mm
C1096516070	50	70	16	32	17
C1096522070	50	70	22	40	19
C1096527070	50	70	27	48	21
C1096532070	50	70	32	58	24
C1096540070	50	70	40	70	27





Drive ring and clamping screw included.

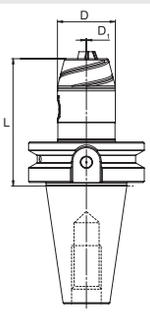
- RINGS page C.36 - SCREWS page C.36 - PULL STUDS page C.33

QUICK-CLAMPING DRILL CHUCKS MAS 403 BT AD+B

BT 40 | BT 50 | G 6.3 15.000 rpm | AT3 TAPER

ITEM: C1146

Tech. Code	BT	D mm	L mm	D1 mm
C114640113	40	50	98	1-13
C114650113	50	50	110	1-13





CLOCKWISE COUNTER - CLOCKWISE ROTATION

- PULL STUDS page C.33

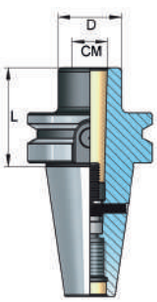
REDUCER CM FOR BURRS MAS 403 BT A

BT 40 | BT 50 | G 2.5 20.000 rpm | AT3 TAPER

ITEM: C1122

Tech. Code	BT	CM	D mm	L mm
C11224CM1050	40	1	25	50
C11224CM2050	40	2	32	50
C11224CM3070	40	3	40	70
C11224CM4095	40	4	48	95

Tech. Code	BT	CM	D mm	L mm
C11225CM2060	50	2	32	60
C11225CM3065	50	3	40	65
C11225CM4070	50	4	48	70





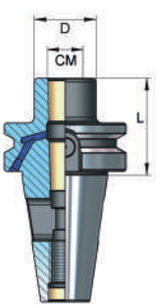
CM REDUCTIONS FOR MAS 403 BT BITS FORM AD/B

BT 40 | BT 50 | G 6.3 15.000 rpm | AT3 TAPER

ITEM: C1132

Tech. Code	BT	CM	D mm	L mm
C11324CM1050	40	1	25	50
C11324CM2050	40	2	32	50
C11324CM3070	40	3	40	70
C11324CM4095	40	4	48	95

Tech. Code	BT	CM	D mm	L mm
C11325CM3065	50	3	40	65
C11325CM4095	50	4	48	95





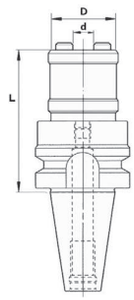
TAPPING CHUCKS WITHOUT AXIAL COMPENSATION MAS 403 BT A

BT 40 | AT3 TAPER

ITEM: C1150

Tech. Code	BT	D mm	L mm	d mm	Capacity
C115041967	40	33	67	19	M3 - M12
C115043190	40	50	90	31	M6 - M20

- BUSH WC page C.32 - BUSH WOC page C.32 - PULL STUDS page C.33





TAPPING CHUCKS WITH AXIAL COMPENSATION MAS 403 BT A

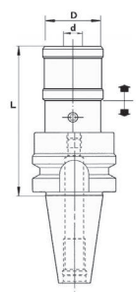
BT 40 | BT 50 | AT3 TAPER

ITEM: C1160

Tech. Code	BT	D mm	L mm	d mm	Capacity
C116041968	40	38	68	19	M3 - M12
C116043193	40	55	93	31	M6 - M20

Tech. Code	BT	D mm	L mm	d mm	Capacity
C116051980	50	38	80	19	M3 - M12
C1160531102	50	55	102	31	M6 - M20
C1160548133	50	79	133	48	M14 - M33

- BUSH WC page C.32 - BUSH WOC page C.32 - PULL STUDS page C.33





Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

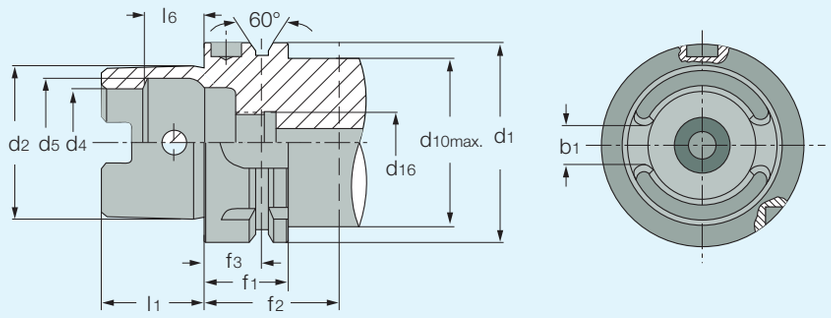
Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10

The products are available in chapter K



HSK - STANDARD DIN 69893

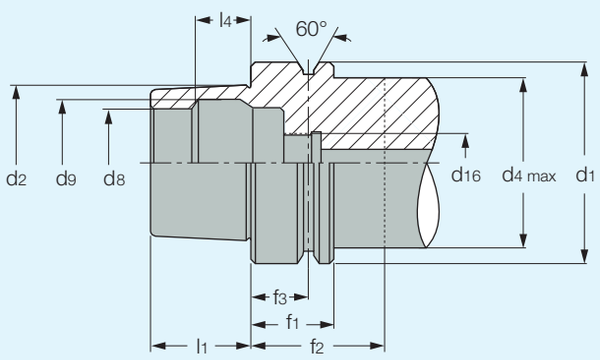
Type A



HSK_{-A}	$d_{1\ h10}$	d_2	$d_{4\ H10}$	$d_{5\ H11}$	$d_{10\ max}$	d_{16}	$l_{1-0.2}$	$l_{6\ Js10}$	$b_1^{\pm 0.04(1)}$	$f_{1\ -0.1}$	$f_{2\ min}$	$f_3^{\pm 0.1}$
40	40	30	21	25.5	34	M12x1	20	11.42	8.05	20	35	16
50	50	38	26	32.0	42	M16x1	25	14.13	10.54	26	42	18
63	63	48	34	40.0	53	M18x1	32	18.13	(12.42) 12.54	26	42	18
80	80	60	42	50.0	67	M20x1.5	40	22.85	16.04	26	42	18
100	100	75	53	63.0	85	M24x1.5	50	28.56	(19.9) 20.02	29	45	20

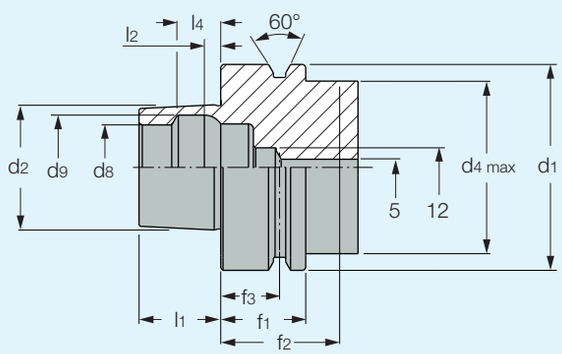
(1) The dimensions in parentheses refer to dimension b1 only for HSK A...WH tools. These tools feature key slot gap and tolerance, used on turning for accurate cutting edge height position, (according to Japanese ICTM standard and ISO 12164/3 standard).

Type E



HSK_{-E}	$d_{1\ h10}$	d_2	$d_{4\ max}$	$d_{8\ H10}$	$d_{9\ H11}$	d_{16}	$l_{1-0.2}$	$L_{4\ Js10}$	$f_{1-0.1}$	$f_{2\ min}$	$f_3^{\pm 0.1}$
32	32	24	26	17	19	M10x1	16	8.92	20	35	16
40	40	30	34	21	25.5	M12x1	20	11.42	20	35	16
50	50	38	42	26	32.0	M16x1	25	14.13	26	42	18
63	63	48	53	34	40.0	M18x1	32	18.13	26	42	18

Type F(1



HSK_{-F}	$d_{1\ h10}$	d_2	$d_{4\ max}$	$d_{8\ H10}$	$d_{9\ H11}$	$l_{1-0.2}$	l_2	$l_{4\ Js10}$	$f_{1-0.1}$	$f_{2\ min}$	$f_3^{\pm 0.1}$
63	63	38	53	26	32	25	5.0	14.13	26	42	18

(1)Without crosshole

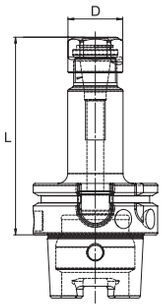
ER COLLET CHUCKS DIN 69893 HSK A

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2016

Tech. Code	HSK	ER	D mm	L mm
C2016616100	63	16	28	100
C2016625100	63	25	42	100
C2016632100	63	32	50	100
C2016632160	63	32	50	160

Tech. Code	HSK	ER	D mm	L mm
C2016125100	100	25	42	100
C2016132100	100	32	50	100
C2016140120	100	40	63	120





Nut included. Cooling tube not included. Collets ER DIN 6499.

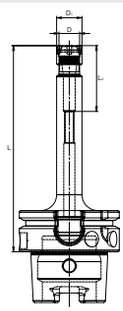
- NUTS page C.31 - COLLETS ER page C.25 - TUBES page C.35

ER MINI COLLET CHUCKS DIN 69893 HSK A

HSK 63 | G 2.5 25.000 rpm

ITEM: C2017

Tech. Code	HSK	ER	D mm	L mm	D2 mm	L2 mm
C2017611130	63	11	16	130	-	41,5
C2017611160	63	11	16	160	19,5	41,5
C2017616100	63	16	22	100	-	32
C2017616130	63	16	22	130	-	32
C2017616160	63	16	22	160	25,5	32





Ring nut included. Cooling tube not included.

- NUTS page C.31 - COLLETS ER page C.25 - TUBES page C.35

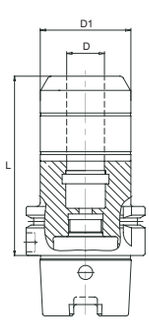
POWER CHUCKS DIN 69893 HSK A

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2026

Tech. Code	HSK	D mm	L mm	D1 mm
C2026620095	63	20	95	48
C2026632105	63	32	105	68

Tech. Code	HSK	D mm	L mm	D1 mm
C2026120105	100	20	105	48
C2026132105	100	32	105	68





- WRENCHES F.S. page C.36

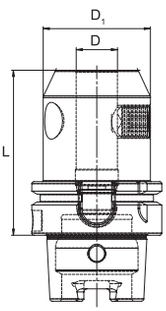
WELDON CHUCKS DIN 69893 HSK A

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2046

Tech. Code	HSK	D mm	L mm	D1 mm
C2046606065	63	6	65	25
C2046108065	63	8	65	28
C2046610065	63	10	65	35
C2046612080	63	12	80	42
C2046616080	63	16	80	48
C2046620080	63	20	80	52
C2046625110	63	25	110	63
C2046632110	63	32	110	72

Tech. Code	HSK	D mm	L mm	D1 mm
C2046106080	100	6	80	25
C2046108080	100	8	80	28
C2046110080	100	10	80	35
C2046112080	100	12	80	42
C2046116100	100	16	100	48
C2046120100	100	20	100	52
C2046125100	100	25	100	63
C2046132100	100	32	100	72
C2046140105	100	40	105	80





Clamping screw included.

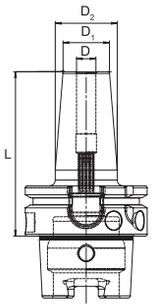
SHRINK FIT CHUCKS DIN 69893 HSK A

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2066

Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm
C2066604080	63	4	80	12	20
C2066606080	63	6	80	21	27
C2066608080	63	8	80	21	27
C2066610085	63	10	85	24	32
C2066612090	63	12	90	24	32
C2066616095	63	16	95	27	34
C2066620100	63	20	100	33	42

Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm
C2066106085	100	6	85	21	27
C2066108085	100	8	85	21	27
C2066110090	100	10	90	24	32
C2066112095	100	12	95	24	32
C2066116100	100	16	100	27	34
C2066120105	100	20	105	33	42
C2066125115	100	25	115	44	53
C2066132120	100	32	120	44	53





For tools only with shank in tolerance h6. Pre-set screw included.

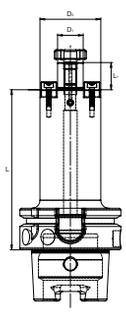
- TUBES page C.35

FIXED-DRIVE SHELL MILL HOLDER CHUCKS DIN 69893 HSK A

HSK 63 | G 2.5 25.000 rpm

ITEM: C2082

Tech. Code	HSK	L mm	D1 mm	D2 mm	L1 mm
C2082616050	63	50	16	38	17
C2082616100	63	100	16	38	17
C2082622050	63	50	22	48	19
C2082622100	63	100	22	48	19
C2082627060	63	60	27	60	21
C2082627100	63	100	27	60	21
C2082632060	63	60	32	78	24
C2082632100	63	100	32	78	24
C2082640060	63	60	40	88	27
C2082640100	63	100	40	88	27





Drive ring and clamping screw included

- TUBES page C.35 - SCREWS page C.36

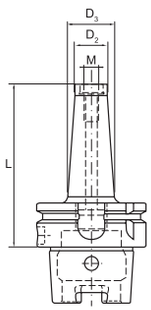
CHUCKS FOR THREADED COUPLING DIN 69893 HSK A

HSK 63 | HSK 100 | G 2.5 20.000 rpm

ITEM: C2103

Tech. Code	HSK	M	D mm	L mm	D1 mm
C21036M08051	63	8	13	51	15
C21036M08076	63	8	13	76	22,5
C21036M10051	63	10	18	51	20
C21036M10076	63	10	18	76	23
C21036M10126	63	10	18	126	32
C21036M12051	63	12	21	51	24
C21036M12076	63	12	21	76	24
C21036M12101	63	12	21	101	31
C21036M16051	63	16	29	51	-
C21036M16076	63	16	29	76	34
C21036M16101	63	16	29	101	34

Tech. Code	HSK	M	D mm	L mm	D1 mm
C21031M12079	100	12	21	79	23
C21031M12129	100	12	21	129	32
C21031M16079	100	16	29	79	33,5
C21031M16129	100	16	29	129	36





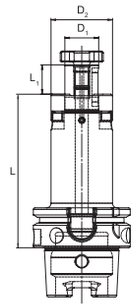
COMBI SHELL MILL HOLDER CHUCKS DIN 69893 HSK A

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2096

Tech. Code	HSK	L mm	D1 mm	D2 mm	L1 mm
C2096616060	63	60	16	32	17
C2096616100	63	100	16	32	17
C2096622060	63	60	22	40	19
C2096622100	63	100	22	40	19
C2096627060	63	60	27	48	21
C2096627100	63	100	27	48	21
C2096632060	63	60	32	58	24
C2096632100	63	100	32	58	24

Tech. Code	HSK	L mm	D1 mm	D2 mm	L1 mm
C2096116060	100	60	16	32	17
C2096122060	100	60	22	40	19
C2096127060	100	60	27	48	21
C2096132060	100	60	32	58	24
C2096140070	100	70	40	70	27





Drive ring and clamping screw included.

- TUBES page C.35 - SCREWS page C.36

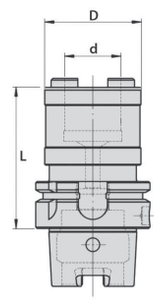
TAPPING CHUCKS WITHOUT AXIAL COMPENSATION DIN 69893 HSK A

HSK 63 | HSK 100

ITEM: C2150

Tech. Code	HSK	D mm	L mm	d mm	Capacity
C215061963	63	33	63	19	M3 - M12
C215063189	63	50	89	31	M6 - M20

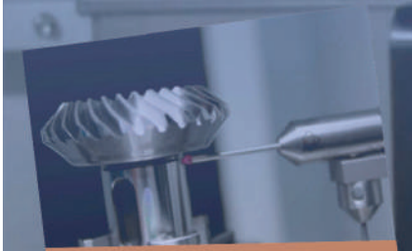
Tech. Code	HSK	D mm	L mm	d mm	Capacity
C215013192	100	50	92	31	M6 - M20
C2150148116	100	72	116	48	M14 - M33

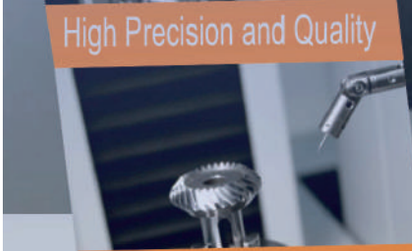




- BUSH WC page C.32 - BUSH WOC page C.32 - TUBES page C.35

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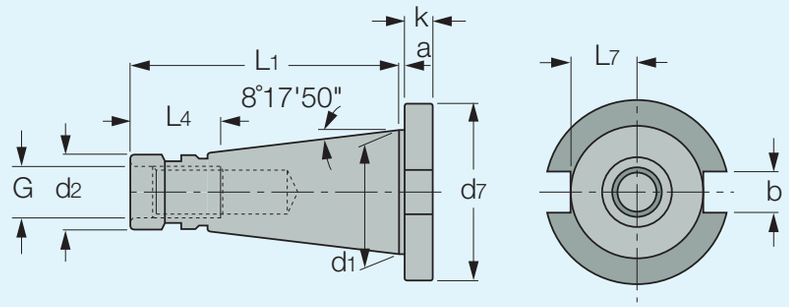
ANGLE HEADS

When inner values count ...

*At **EROGLU** you get angle heads with the highest precision and quality.*

The bevel gears we use inside are specially manufactured in Mössingen on Klingelnberg High-Tech machines!

Toolholder Standard



Shank	a±0.2	b (H_{12})	d_1	d_2	G	d_7	K±0.15
SK 30	1.6	16.1	31.75	17.4	M12	50	8
SK 40	1.6	16.1	44.45	25.3	M16	63	10
SK 50	3.2	25.7	69.85	39.6	M24	97.5	12

Shank	L_1	L_4	L_7 MAX	Taper AT3
SK 30	35	19.1	47.80	0.002
SK 40	35	19.1	68.40	0.003
SK 50	35	19.1	101.75	0.004

WODEX mro

Perfect ergonomics

ER COLLET CHUCKS DIN 2080 AD

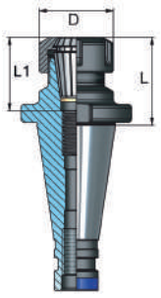
EROGLU Präzisionswerkzeuge

ISO 40 | ISO 50

ITEM: C3020

Tech. Code	ISO	ER	D mm	L mm	L1 mm
C3020432050	40	32	50	50	48
C3020440080	40	40	63	80	55

Tech. Code	ISO	ER	D mm	L mm	L1 mm
C3020532063	50	32	50	63	63
C3020540063	50	40	63	63	63





WELDON CHUCKS DIN 2080 AD

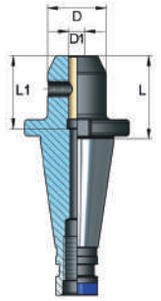
EROGLU Präzisionswerkzeuge

ISO 40 | ISO 50

ITEM: C3041

Tech. Code	ISO	D mm	D1 mm	L mm	L1 mm
C3041416063	40	48	16	63	54
C3041420063	40	52	20	63	56
C3041425080	40	63	25	80	64

Tech. Code	ISO	D mm	D1 mm	L mm	L1 mm
C3041520063	50	52	20	63	56
C3041525080	50	63	25	80	64
C3041532080	50	72	32	80	68





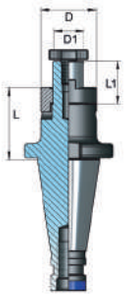
COMBI SHELL MILL HOLDER CHUCKS DIN 2080 A

EROGLU Präzisionswerkzeuge

ISO 40

ITEM: C3091

Tech. Code	ISO	D mm	D1 mm	L mm	L1 mm
C3091416052	40	32	16	52	27
C3091422052	40	40	22	52	31
C3091427052	40	48	27	52	33
C3091432052	40	58	32	52	38





TAPPING CHUCKS AXIAL COMPENSATION DIN 2080

SAC

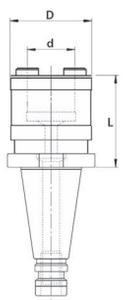
ISO 40 | AT3 TAPER

ITEM: C3160

Tech. Code	ISO	D mm	L mm	d mm	Capacity
C316041953	40	38	53	19	M3 - M12
C316043177	40	55	77	31	M6 - M20

- BUSH WC page C.32

- BUSH WOC page C.32





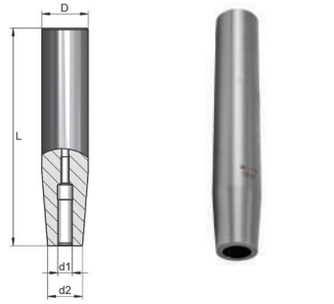
SHRINK FIT EXTENSIONS

EROGLU Präzisionswerkzeuge

ITEM: C3172

Tech. Code	d1 mm	L mm	D mm	d2 mm
C31721203150	3	150	12	8
C31721204150	4	150	12	8
C31721606150	6	150	16	10
C31722006150	6	150	20	10
C31722008150	8	150	20	12
C31722010150	10	150	20	14
C31722012150	12	150	20	16
C31723220150	20	150	32	27

Extensions can be used with srink fit holders, hydraulic and collet chucks. For tools only with shank in tollerance H6.



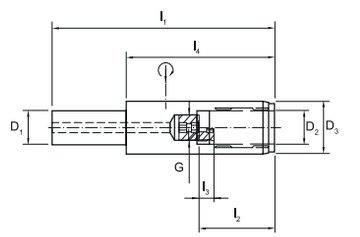
HYDRAULIC ADAPTORS DIN 1835A

KERFOLG

ITEM: C3175

Tech. Code	D1 mm	D2 mm	D3 mm	l1 mm	l2 mm	l3 mm	l4 mm	G mm
C31751215020	20	12	25	150	46	10	100	M10 x 1
C31752015020	20	20	31.5	150	51	10	100	M16 x 1
C31752015032	32	20	31.5	150	51	10	90	M16 x 1
C31752020032	32	20	31.5	200	51	10	90	M16 x 1

For tools only with shank in tolerance h6. Coolant maximum pressure 80 bar. Always respect mimimum depth of clamping.



ADAPTORS FOR SCREW-ON END MILLS

TUKOY

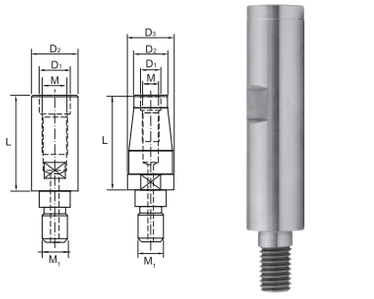
ITEM: C3176

Tech. Code	M	M1	L mm	D1 mm	D2 mm	D3 mm	Figure
C3176M8M830	M8	M8	30	8.5	12.8	-	1
C3176M10M1035	M10	M10	35	10.5	17.8	-	1
C3176M12M1240	M12	M12	40	12.5	20.8	-	1
C3176M16M1640	M16	M16	40	17	28.8	-	1

Extensions

Tech. Code	M	M1	L mm	D1 mm	D2 mm	D3 mm	Figure
C3176M8M1035	M8	M10	30	8.5	12.8	17.8	2
C3176M10M1235	M10	M12	35	10.5	17.8	20.8	2
C3176M12M1640	M12	M16	40	12.5	20.8	28.8	2

Reductions

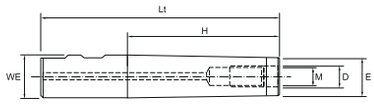


ADAPATOR WITH WELDON SHANKS FOR SCREW-ON END MILLS

TUKOY

ITEM: C3177

Tech. Code	WE mm	M mm	D mm	E mm	H mm	Lt mm
C317716M8115	16	M8	8.5	12.8	60	115
C317716M8160	16	M8	8.5	12.8	100	160
C317720M10120	20	M10	10.5	17.8	60	120
C317720M10160	20	M10	10.5	17.8	100	160
C317725M12160	25	M12	12.5	20.8	100	160
C317732M16160	32	M16	17.0	28.8	100	160



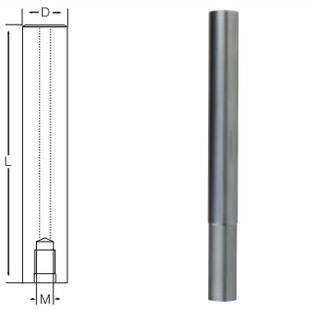
THREADED COUPLING CARBIDE CHUCKS WITH STRAIGHT SHANK

TUKOY

ITEM: C3184

Tech. Code	Description	D mm	L mm	M mm
C318408150	CIL 16 MD M8 L150	16	150	8
C318408200	CIL 16 MD M8 L200	16	200	8
C318410150	CIL 20 MD M10 L150	20	150	10
C318410200	CIL 20 MD M10 L200	20	200	10
C318412200	CIL 25 MD M12 L200	25	200	12
C318412250	CIL 25 MD M12 L250	25	250	12

On request, threaded coupling with different dimensions, also available.



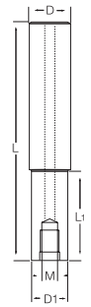
THREADED COUPLING CARBIDE CHUCKS WITH STRAIGHT SHANK - C3180

TUKOY

ITEM: C3180

Tech. Code	Description	D mm	D1 mm	L mm	L1 mm	M mm
C318008150	CIL 16 MDR M8 L150	16	12,8	150	40	8
C318008200	CIL 16 MDR M8 L200	16	12,8	200	60	8
C318010150	CIL 20 MDR M10 L150	20	17,8	150	50	10
C318010200	CIL 20 MDR M10 L200	20	17,8	200	60	10

On request, threaded coupling with different dimensions, also available.





ER MINI COLLET CHUCKS CYLINDRICAL SHANK DIN 1835A

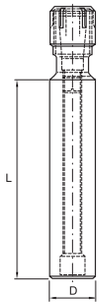
TUKOY

ITEM: C3191

Tech. Code	ER	D mm	L mm	Ring nut
C31911112070	11 Mini	12	70	ER11
C31911116100	11 Mini	16	100	ER11
C31911612080	16 Mini	12	80	ER16
C31911616080	16 Mini	16	80	ER16
C31911616130	16 Mini	16	130	ER16
C31911620100	16 Mini	20	100	ER16
C31911620160	16 Mini	20	160	ER16
C31912016100	20 Mini	16	100	ER20
C31912020100	20 Mini	20	100	ER20
C31912020160	20 Mini	20	160	ER20

Nut included. Collets ER DIN 6499.

- NUTS page C.31 - COLLETS ER page C.25 - WRENCHES page C.35





ER COLLET CHUCKS FLAT CYLINDRICAL SHANK DIN 1835A

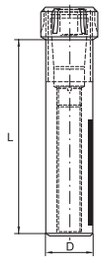
TUKOY

ITEM: C3192

Tech. Code	ER	D mm	L mm	Ring nut
C31922525100	25	25	100	GER25
C31923225100	32	25	100	GER32
C31923232050	32	32	50	GER32
C31923232100	32	32	100	GER32
C31924040080	40	40	80	GER40

WITH FLAT CYLINDRICAL SHANK
Nut included. Collets ER DIN 6499.

- NUTS page C.31 - COLLETS ER page C.25 - WRENCHES page C.35





ER COLLET CHUCKS CYLINDRICAL SHANK DIN 1835A

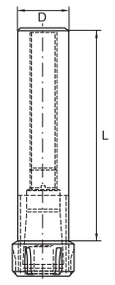
TUKOY

ITEM: C3193

Tech. Code	ER	D mm	L mm	Ring nut
C31933225100	32	25	100	GER32

WITH CYLINDRICAL SHANK
Nut included. Collets ER DIN 6499.

- NUTS page C.31 - COLLETS ER page C.25 - WRENCHES page C.35





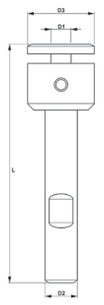
SLITTING SAW HOLDERS DIN 1837-A AND DIN 1838-B

TUKOY

ITEM: C3230

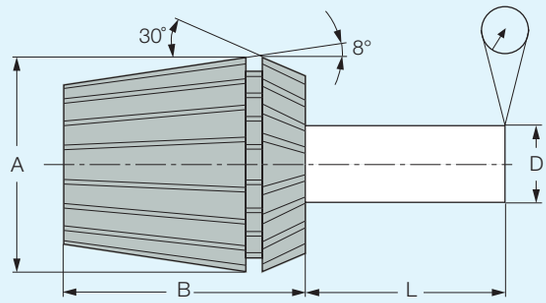
HSS + HM disk saw holders cilindrical weldon shank grinded surfaces clamp

Tech. Code	D1 mm	D2 mm	D3 mm	L mm
C323005	5	6	16	60
C323008	8	6	15	60
C323010	10	8	19	62
C323013	13	10	24	69
C323016	16	12	31	78
C323022	22	16	40	86
C323032	32	25	88	124





Standard



ER Collet Type DIN 6499

Basic Dimensions

Type	A	B
ER-11	11.5	18
ER-16	17	27
ER-20	21	31
ER-25	26	35
ER-32	33	40
ER-40	41	46
ER-50	52	60

Concentricity Tolerances

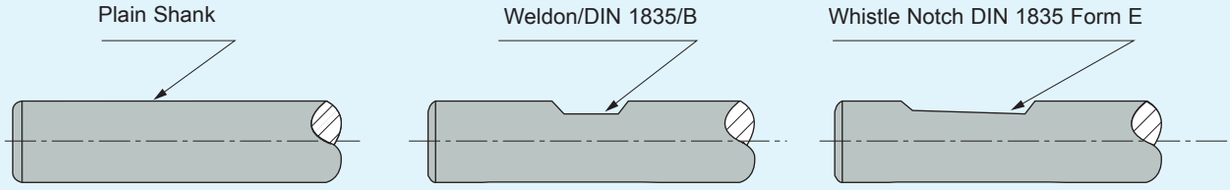
L mm	D mm	Standard Precision	AA Ultra Precision	DIN 6499
6	1.0-1.6	0.01	0.005	
10	1.6-3.0	0.01	0.005	0.015
16	3.0-6.0	0.01	0.005	0.015
25	6.0-10.0	0.01	0.005	0.015
40	10.0-18.0	0.01	0.005	0.020
50	18.0-26.0	0.01	0.005	0.020
60	26.0-34.0			0.025

Sealed Collet JET2

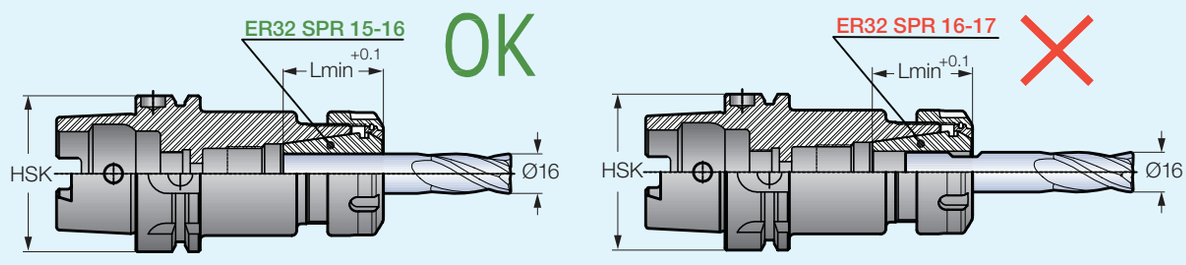
With angular double nozzles. Coolant flow is direct to the cutting edge - for use with standard straight shank cutting tools (without coolant hole).



Standard Shank for use in Sealed Collects



Note: The front end of the sealed collet should be located beyond Weldon or the whistle notch.



ER8 SPRING COLLETS - STANDARD

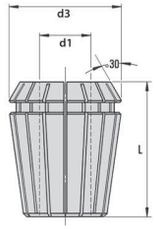
WRK

ITEM: ER8S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C40108S1	1	8.5	13.5	0.5	ER8S
C40108S1,5	1.5	8.5	13.5	0.5	ER8S
C40108S2	2	8.5	13.5	0.5	ER8S
C40108S2,5	2.5	8.5	13.5	0.5	ER8S
C40108S3	3	8.5	13.5	0.5	ER8S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C40108S3,5	3.5	8.5	13.5	0.5	ER8S
C40108S4	4	8.5	13.5	0.5	ER8S
C40108S4,5	4.5	8.5	13.5	0.5	ER8S
C40108S5	5	8.5	13.5	0.5	ER8S





Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER11 SPRING COLLETS - EXTRA-PRECISE

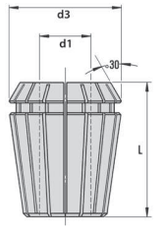
KERFOLG

ITEM: ER11Q DIN 6499

Extra accurate 0.005

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C402111Q1	1	11	18	0.5	ER11Q
C402111Q1,5	1.5	11	18	0.5	ER11Q
C402111Q2	2	11	18	0.5	ER11Q
C402111Q2,5	2.5	11	18	0.5	ER11Q
C402111Q3	3	11	18	0.5	ER11Q
C402111Q3,5	3.5	11	18	0.5	ER11Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C402111Q4	4	11	18	0.5	ER11Q
C402111Q4,5	4,5	11	18	0.5	ER11Q
C402111Q5	5	11	18	0.5	ER11Q
C402111Q5,5	5.5	11	18	0.5	ER11Q
C402111Q6	6	11	18	0.5	ER11Q
C402111Q7	7	11	18	0.5	ER11Q





Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

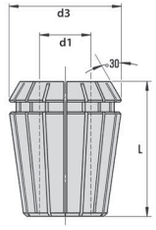
ER11 SPRING COLLETS - EXTRA-PRECISE

ETM

ITEM: ER11AA DIN6499 CON HARD TOUCH COATING

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C402311AA1	1	0.5	11	18	ER11AA
C402311AA2	2	1.0	11	18	ER11AA
C402311AA4	4	3.0	11	18	ER11AA

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C402311AA5	5	4.0	11	18	ER11AA
C402311AA6	6	5.0	11	18	ER11AA
C402311AA7	7	6.0	11	18	ER11AA





ER11 SPRING COLLETS - STANDARD

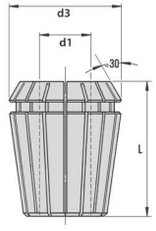
WRK

ITEM: ER11S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C402011S1	1	11	18	0.5	ER11S
C402011S1,5	1.5	11	18	0.5	ER11S
C402011S2	2	11	18	0.5	ER11S
C402011S2,5	2.5	11	18	0.5	ER11S
C402011S3	3	11	18	0.5	ER11S
C402011S3,5	3.5	11	18	0.5	ER11S
C402011S4	4	11	18	0.5	ER11S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C402011S4,5	4.5	11	18	0.5	ER11S
C402011S5	5	11	18	0.5	ER11S
C402011S5,5	5.5	11	18	0.5	ER11S
C402011S6	6	11	18	0.5	ER11S
C402011S6,5	6.5	11	18	0.5	ER11S
C402011S7	7	11	18	0.5	ER11S





Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER11 SPRING COLLETS SET

KERFOLG WRK

ITEM: ER11

Tech. Code	Type	d mm	Pieces
C412511QBOX	ER11Q - KERFOLG	1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 5 - 6 - 7	10

Tech. Code	Type	d mm	Pieces
C412511SBOX	ER11S - WRK	1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 5 - 6 - 7	10



ER16 SPRING COLLETS - EXTRA-PRECISE

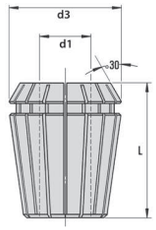
KERFOLG

ITEM: ER16Q DIN 6499

Extra accurate 0.005

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C403116Q1	1	16	27.5	0.5	ER16Q
C403116Q1,5	1.5	16	27.5	0.5	ER16Q
C403116Q2	2	16	27.5	0.5	ER16Q
C403116Q2,5	2.5	16	27.5	0.5	ER16Q
C403116Q3	3	16	27.5	1.0	ER16Q
C403116Q4	4	16	27.5	1.0	ER16Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C403116Q5	5	16	27.5	1.0	ER16Q
C403116Q6	6	16	27.5	1.0	ER16Q
C403116Q7	7	16	27.5	1.0	ER16Q
C403116Q8	8	16	27.5	1.0	ER16Q
C403116Q9	9	16	27.5	1.0	ER16Q
C403116Q10	10	16	27.5	1.0	ER16Q





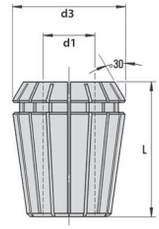
Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER16 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER16AA DIN6499 CON HARD TOUCH COATING

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C403316AA1	1	0.5	16	27.5	ER16AA
C403316AA2	2	1.0	16	27.5	ER16AA
C403316AA3	3	2.0	16	27.5	ER16AA
C403316AA4	4	3.0	16	27.5	ER16AA
C403316AA5	5	4.0	16	27.5	ER16AA

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C403316AA6	6	5.0	16	27.5	ER16AA
C403316AA7	7	6.0	16	27.5	ER16AA
C403316AA8	8	7.0	16	27.5	ER16AA
C403316AA9	9	8.0	16	27.5	ER16AA
C403316AA10	10	9.0	16	27.5	ER16AA





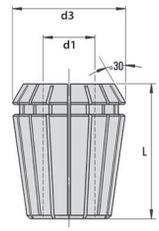
ER16 SPRING COLLETS - STANDARD

ITEM: ER16S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C403016S1	1	16	27.5	0.5	ER16S
C403016S1,5	1.5	16	27.5	0.5	ER16S
C403016S2	2	16	27.5	0.5	ER16S
C403016S2,5	2.5	16	27.5	0.5	ER16S
C403016S3	3	16	27.5	1.0	ER16S
C403016S4	4	16	27.5	1.0	ER16S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C403016S5	5	16	27.5	1.0	ER16S
C403016S6	6	16	27.5	1.0	ER16S
C403016S7	7	16	27.5	1.0	ER16S
C403016S8	8	16	27.5	1.0	ER16S
C403016S9	9	16	27.5	1.0	ER16S
C403016S10	10	16	27.5	1.0	ER16S





Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER16 SPRING COLLETS SET

ITEM: ER16

Complete sets for all diameters, recommended as the best solution for all types of milling operations.

Tech. Code	Type	d mm	Pieces
C411116QBOX	ER16Q - KERFOLG	1 - 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	12

Tech. Code	Type	d mm	Pieces
C411116SBOX	ER16S - WRK	1 - 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	12

Tech. Code	Type	d mm	Pieces
C411116SBOX1	ER16S - WRK	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	8



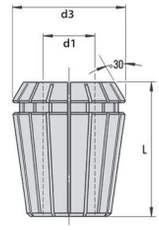
ER20 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER20Q DIN 6499

Extra accurate 0.005

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C404120Q2	2	20	31.5	0.5	ER20Q
C404120Q2,5	2.5	20	31.5	0.5	ER20Q
C404120Q3	3	20	31.5	1.0	ER20Q
C404120Q4	4	20	31.5	1.0	ER20Q
C404120Q5	5	20	31.5	1.0	ER20Q
C404120Q6	6	20	31.5	1.0	ER20Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C404120Q8	8	20	31.5	1.0	ER20Q
C404120Q9	9	20	31.5	1.0	ER20Q
C404120Q10	10	20	31.5	1.0	ER20Q
C404120Q11	11	20	31.5	1.0	ER20Q
C404120Q12	12	20	31.5	1.0	ER20Q
C404120Q13	13	20	31.5	1.0	ER20Q





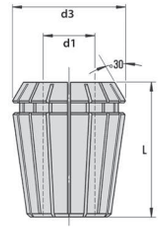
Concentricity precision as shown in the table of values obtained by using a chucks having Ra<0,1 plier seat and max eccentricity of 0,001.

ER20 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER20AA DIN 6499 CON HARD TOUCH COATING

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C404320AA2	2	1	20	31.5	ER20AA
C404320AA3	3	2	20	31.5	ER20AA
C404320AA4	4	3	20	31.5	ER20AA
C404320AA5	5	4	20	31.5	ER20AA
C404320AA6	6	5	20	31.5	ER20AA
C404320AA7	7	6	20	31.5	ER20AA

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C404320AA8	8	7	20	31.5	ER20AA
C404320AA9	9	8	20	31.5	ER20AA
C404320AA10	10	9	20	31.5	ER20AA
C404320AA11	11	10	20	31.5	ER20AA
C404320AA12	12	11	20	31.5	ER20AA
C404320AA13	13	12	20	31.5	ER20AA





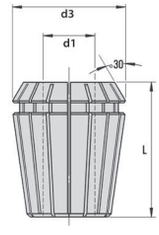
ER20 SPRING COLLETS - STANDARD

ITEM: ER20S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C404020S1	1	20	31.5	0.5	ER20S
C404020S1,5	1.5	20	31.5	0.5	ER20S
C404020S2	2	20	31.5	0.5	ER20S
C404020S2,5	2.5	20	31.5	0.5	ER20S
C404020S3	3	20	31.5	1.0	ER20S
C404020S4	4	20	31.5	1.0	ER20S
C404020S5	5	20	31.5	1.0	ER20S
C404020S6	6	20	31.5	1.0	ER20S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C404020S7	7	20	31.5	1.0	ER20S
C404020S8	8	20	31.5	1.0	ER20S
C404020S9	9	20	31.5	1.0	ER20S
C404020S10	10	20	31.5	1.0	ER20S
C404020S11	11	20	31.5	1.0	ER20S
C404020S12	12	20	31.5	1.0	ER20S
C404020S13	13	20	31.5	1.0	ER20S





Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER20 SPRING COLLETS SET

KERFOLG WRK

ITEM: ER20

Complete sets for all diameters, recommended as the best solution for all types of milling operations.

Tech. Code	Type	d mm	Pieces
C411220QBOX	ER20Q - KERFOLG	2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 -11 - 12 - 13	13

Tech. Code	Type	d mm	Pieces
C411220SBOX	ER20S - WRK	2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 -11 - 12 - 13	13

Tech. Code	Type	d mm	Pieces
C411220SBOX1	ER20S - WRK	4 - 6 - 8 - 10 - 12	5



ER25 SPRING COLLETS - EXTRA-PRECISE

KERFOLG

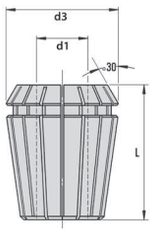
ITEM: ER25Q DIN 6499

Extra accurate 0.005

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C405125Q2	2	25	34	0.5	ER25Q
C405125Q2,5	2.5	25	34	0.5	ER25Q
C405125Q3	3	25	34	1.0	ER25Q
C405125Q4	4	25	34	1.0	ER25Q
C405125Q5	5	25	34	1.0	ER25Q
C405125Q6	6	25	34	1.0	ER25Q
C405125Q7	7	25	34	1.0	ER25Q
C405125Q8	8	25	34	1.0	ER25Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C405125Q9	9	25	34	1.0	ER25Q
C405125Q10	10	25	34	1.0	ER25Q
C405125Q11	11	25	34	1.0	ER25Q
C405125Q12	12	25	34	1.0	ER25Q
C405125Q13	13	25	34	1.0	ER25Q
C405125Q14	14	25	34	1.0	ER25Q
C405125Q15	15	25	34	1.0	ER25Q
C405125Q16	16	25	34	1.0	ER25Q

Concentricity precision as shown in the table of values obtained by using a chucks having Ra<0,1 plier seat and max eccentricity of 0,001.



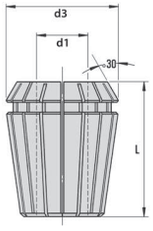


ER25 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER25AA DIN 6499 CON HARD TOUCH COATING

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C405325AA2	2	1	25	34	ER25AA
C405325AA3	3	2	25	34	ER25AA
C405325AA4	4	3	25	34	ER25AA
C405325AA5	5	4	25	34	ER25AA
C405325AA6	6	5	25	34	ER25AA
C405325AA7	7	6	25	34	ER25AA
C405325AA8	8	7	25	34	ER25AA
C405325AA9	9	8	25	34	ER25AA

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C405325AA10	10	9	25	34	ER25AA
C405325AA11	11	10	25	34	ER25AA
C405325AA12	12	11	25	34	ER25AA
C405325AA13	13	12	25	34	ER25AA
C405325AA14	14	13	25	34	ER25AA
C405325AA15	15	14	25	34	ER25AA
C405325AA16	16	15	25	34	ER25AA





ER25 STANDARD COLLETS

WRK

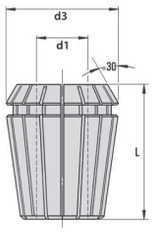
ITEM: ER25S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C405025S1	1	25	34	0.5	ER25S
C405025S1,5	1,5	25	34	0.5	ER25S
C405025S2	2	25	34	0.5	ER25S
C405025S2,5	2.5	25	34	0.5	ER25S
C405025S3	3	25	34	1.0	ER25S
C405025S4	4	25	34	1.0	ER25S
C405025S5	5	25	34	1.0	ER25S
C405025S6	6	25	34	1.0	ER25S
C405025S7	7	25	34	1.0	ER25S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C405025S8	8	25	34	1.0	ER25S
C405025S9	9	25	34	1.0	ER25S
C405025S10	10	25	34	1.0	ER25S
C405025S11	11	25	34	1.0	ER25S
C405025S12	12	25	34	1.0	ER25S
C405025S13	13	25	34	1.0	ER25S
C405025S14	14	25	34	1.0	ER25S
C405025S15	15	25	34	1.0	ER25S
C405025S16	16	25	34	1.0	ER25S

Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.





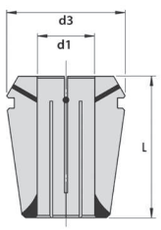
ER25 SPRING COLLETS - SEALED

KERFOLG

ITEM: DIN 6499 - ER25T

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C408025T4	4	25	34	0.5	ER25T
C408025T6	6	25	34	0.5	ER25T
C408025T8	8	25	34	0.5	ER25T
C408025T10	10	25	34	0.5	ER25T

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C408025T12	12	25	34	0.5	ER25T
C408025T14	14	25	34	0.5	ER25T
C408025T16	16	25	34	0.5	ER25T





ER25 SPRING COLLETS SET

KERFOLG WRK

ITEM: ER25

Complete sets for all diameters, recommended as the best solution for all types of milling operations.

Tech. Code	Type	d mm	Pieces
C411325QBOX	ER25Q - KERFOLG	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 -13 - 14 -15 - 16	15

Tech. Code	Type	d mm	Pieces
C411325SBOX	ER25S - WRK	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 -13 - 14 -15 - 16	15

Tech. Code	Type	d mm	Pieces
C411325SBOX1	ER25S - WRK	4 - 6 - 8 - 10 - 12 - 16	6



ER32 SPRING COLLETS - EXTRA-PRECISE

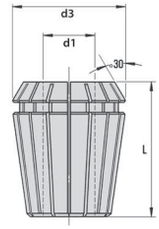
KERFOLG

ITEM: ER32Q DIN 6499

Extra accurate 0.005

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C406132Q3	3.0	32	40	1.0	ER32Q
C406132Q4	4.0	32	40	1.0	ER32Q
C406132Q5	5.0	32	40	1.0	ER32Q
C406132Q6	6.0	32	40	1.0	ER32Q
C406132Q7	7.0	32	40	1.0	ER32Q
C406132Q8	8.0	32	40	1.0	ER32Q
C406132Q9	9.0	32	40	1.0	ER32Q
C406132Q10	10	32	40	1.0	ER32Q
C406132Q11	11	32	40	1.0	ER32Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C406132Q12	12	32	40	1.0	ER32Q
C406132Q13	13	32	40	1.0	ER32Q
C406132Q14	14	32	40	1.0	ER32Q
C406132Q15	15	32	40	1.0	ER32Q
C406132Q16	16	32	40	1.0	ER32Q
C406132Q17	17	32	40	1.0	ER32Q
C406132Q18	18	32	40	1.0	ER32Q
C406132Q20	20	32	40	1.0	ER32Q





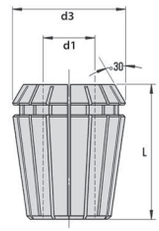
Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER32 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER32AA DIN 6499 CON HARD TOUCH COATING

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C406332AA3	3	2	32	40	ER32AA
C406332AA4	4	3	32	40	ER32AA
C406332AA5	5	4	32	40	ER32AA
C406332AA6	6	5	32	40	ER32AA
C406332AA7	7	6	32	40	ER32AA
C406332AA8	8	7	32	40	ER32AA
C406332AA9	9	8	32	40	ER32AA
C406332AA10	10	9	32	40	ER32AA
C406332AA11	11	10	32	40	ER32AA

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C406332AA12	12	11	32	40	ER32AA
C406332AA13	13	12	32	40	ER32AA
C406332AA14	14	13	32	40	ER32AA
C406332AA15	15	14	32	40	ER32AA
C406332AA16	16	15	32	40	ER32AA
C406332AA17	17	16	32	40	ER32AA
C406332AA18	18	17	32	40	ER32AA
C406332AA19	19	18	32	40	ER32AA
C406332AA20	20	19	32	40	ER32AA





ER32 SPRING COLLETS - STANDARD

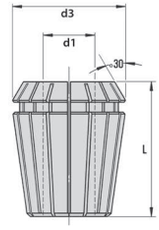
WRK

ITEM: ER32S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C406032S3	3	32	40	1.0	ER32S
C406032S4	4	32	40	1.0	ER32S
C406032S5	5	32	40	1.0	ER32S
C406032S6	6	32	40	1.0	ER32S
C406032S7	7	32	40	1.0	ER32S
C406032S8	8	32	40	1.0	ER32S
C406032S9	9	32	40	1.0	ER32S
C406032S10	10	32	40	1.0	ER32S
C406032S11	11	32	40	1.0	ER32S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C406032S12	12	32	40	1.0	ER32S
C406032S13	13	32	40	1.0	ER32S
C406032S14	14	32	40	1.0	ER32S
C406032S15	15	32	40	1.0	ER32S
C406032S16	16	32	40	1.0	ER32S
C406032S17	17	32	40	1.0	ER32S
C406032S18	18	32	40	1.0	ER32S
C406032S19	19	32	40	1.0	ER32S
C406032S20	20	32	40	1.0	ER32S





Concentricity precision as shown in the table of values obtained by using a chucks having Ra<0,1 plier seat and max eccentricity of 0,001.

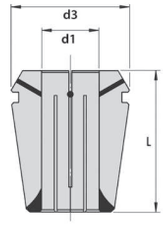
ER32 SPRING COLLETS - SEALED

KERFOLG

ITEM: DIN 6499 - ER32T

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C409032T6	6	32	40	0.5	ER32T
C409032T8	8	32	40	0.5	ER32T
C409032T10	10	32	40	0.5	ER32T
C409032T12	12	32	40	0.5	ER32T

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C409032T14	14	32	40	0.5	ER32T
C409032T16	16	32	40	0.5	ER32T
C409032T18	18	32	40	0.5	ER32T
C409032T20	20	32	40	0.5	ER32T



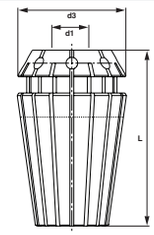


ER32 SPRING COLLETS - SEALED AA

ITEM: ART. DIN 6499 - ER32SEAL AA

Tech. Code	d1 mm	d3 mm	L mm	Type
C409532SEAL4	4	32	40	SEAL AA
C409532SEAL5	5	32	40	SEAL AA
C409532SEAL6	6	32	40	SEAL AA
C409532SEAL7	7	32	40	SEAL AA
C409532SEAL8	8	32	40	SEAL AA
C409532SEAL9	9	32	40	SEAL AA
C409532SEAL10	10	32	40	SEAL AA
C409532SEAL11	11	32	40	SEAL AA
C409532SEAL12	12	32	40	SEAL AA

Tech. Code	d1 mm	d3 mm	L mm	Type
C409532SEAL13	13	32	40	SEAL AA
C409532SEAL14	14	32	40	SEAL AA
C409532SEAL15	15	32	40	SEAL AA
C409532SEAL16	16	32	40	SEAL AA
C409532SEAL17	17	32	40	SEAL AA
C409532SEAL18	18	32	40	SEAL AA
C409532SEAL19	19	32	40	SEAL AA
C409532SEAL20	20	32	40	SEAL AA





ER32 SPRING COLLETS SET

KERFOLG WRK

ITEM: ER32

Complete sets for all diameters, recommended as the best solution for all types of milling operations.



Tech. Code	Type	d mm	Pieces
C411432QBOX	ER32Q - KERFOLG	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 -11 -12 - 13 - 14 -15 -16 -17 - 18 - 19 - 20	18

Tech. Code	Type	d mm	Pieces
C411432SBOX	ER32S - WRK	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 -11 -12 - 13 - 14 -15 -16 -17 - 18 - 19 - 20	18

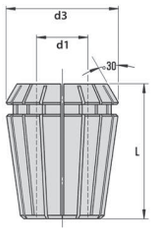
Tech. Code	Type	d mm	Pieces
C411432SBOX1	ER32S - WRK	6 - 8 - 10 - 12 - 16 - 20	6

ER40 SPRING COLLETS - EXTRA-PRECISE

KERFOLG

ITEM: ER40Q DIN 6499

Extra accurate 0.005





Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C407140Q4	4	41	46	1.0	ER40Q
C407140Q5	5	41	46	1.0	ER40Q
C407140Q6	6	41	46	1.0	ER40Q
C407140Q7	7	41	46	1.0	ER40Q
C407140Q8	8	41	46	1.0	ER40Q
C407140Q9	9	41	46	1.0	ER40Q
C407140Q10	10	41	46	1.0	ER40Q
C407140Q11	11	41	46	1.0	ER40Q
C407140Q12	12	41	46	1.0	ER40Q
C407140Q13	13	41	46	1.0	ER40Q
C407140Q14	14	41	46	1.0	ER40Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C407140Q15	15	41	46	1.0	ER40Q
C407140Q16	16	41	46	1.0	ER40Q
C407140Q17	17	41	46	1.0	ER40Q
C407140Q18	18	41	46	1.0	ER40Q
C407140Q19	19	41	46	1.0	ER40Q
C407140Q20	20	41	46	1.0	ER40Q
C407140Q21	21	41	46	1.0	ER40Q
C407140Q22	22	41	46	1.0	ER40Q
C407140Q23	23	41	46	1.0	ER40Q
C407140Q24	24	41	46	1.0	ER40Q
C407140Q25	25	41	46	1.0	ER40Q

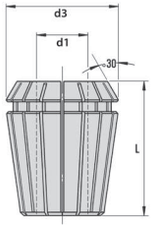
Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER40 SPRING COLLETS - STANDARD

WRK

ITEM: ER40S DIN 6499

Standard 0.01





Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C407040S4	4	41	46	1.0	ER40S
C407040S5	5	41	46	1.0	ER40S
C407040S6	6	41	46	1.0	ER40S
C407040S7	7	41	46	1.0	ER40S
C407040S8	8	41	46	1.0	ER40S
C407040S9	9	41	46	1.0	ER40S
C407040S10	10	41	46	1.0	ER40S
C407040S11	11	41	46	1.0	ER40S
C407040S12	12	41	46	1.0	ER40S
C407040S13	13	41	46	1.0	ER40S
C407040S14	14	41	46	1.0	ER40S
C407040S15	15	41	46	1.0	ER40S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C407040S16	16	41	46	1.0	ER40S
C407040S17	17	41	46	1.0	ER40S
C407040S18	18	41	46	1.0	ER40S
C407040S19	19	41	46	1.0	ER40S
C407040S20	20	41	46	1.0	ER40S
C407040S21	21	41	46	1.0	ER40S
C407040S22	22	41	46	1.0	ER40S
C407040S23	23	41	46	1.0	ER40S
C407040S24	24	41	46	1.0	ER40S
C407040S25	25	41	46	1.0	ER40S
C407040S26	26	41	46	1.0	ER40S

Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER40 SPRING COLLETS SET

WRK

ITEM: ER40

Complete sets for all diameters, recommended as the best solution for all types of milling operations.

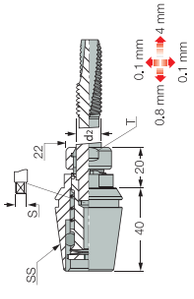


Tech. Code	Type	d mm	Pieces
C411540SBOX	ER40S - WRK	8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 25	10

Tech. Code	Type	d mm	Pieces
C411540SBOX1	ER40S - WRK	6 - 8 - 10 - 12 - 16 - 20 - 25	7

ER TAPPING ATTACHMENTS

ITEM: C4105





Tech. Code	Description	DIN371 - 374/6	d2 mm	S mm	T mm	Type
C410503,5	GTIN ER32 DIN 3,50X2,70	M3 - M5	3.5	2.7	20	ER32GTIN
C410504,5	GTIN ER32 DIN 4,50X3,40	M4 - M6	4.5	3.4	20	ER32GTIN
C410506	GTIN ER32 DIN 6,00X4,90	M5 - M8	6.0	4.9	20	ER32GTIN
C410507	GTIN ER32 DIN 7,00X5,50	M10	7.0	5.5	20	ER32GTIN
C410508	GTIN ER32 DIN 8,00X6,20	M8	8.0	6.2	20	ER32GTIN
C410509	GTIN ER32 DIN 9,00X7,00	M12	9.0	7.0	20	ER32GTIN
C410510	GTIN ER32 DIN 10,00X8,00	M10	10.0	8.0	20	ER32GTIN
C410511	GTIN ER32 DIN 11,00X9,00	M14	11.0	9.0	20	ER32GTIN
C410512	GTIN ER32 DIN 12,00X9,00	M16	12.0	9.0	20	ER32GTIN

Ring parts C4105T

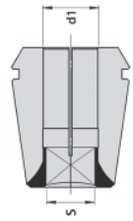
ER16 SPRING COLLETS FOR RIGID TAPPING

TUKOY

ITEM: DIN 6499 - ER16M

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C410016D6	6.0	4.9	M5-M6	M8

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C410016D7	7.0	5.5	-	M10





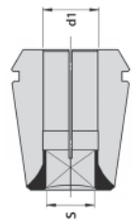
ER25 SPRING COLLETS FOR RIGID TAPPING

TUKOY

ITEM: DIN 6499 - ER25M

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C411025D3,5	3.5	2.7	M3	M5
C411025D4,5	4.5	3.4	M4	M6
C411025D6	6	4.9	M5 - M6	M8
C411025D7	7	5.5	-	M10

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C411025D8	8	6.2	M8	-
C411025D9	9	7	-	M12
C411025D10	10	8	M10	-
C411025D11	11	9	-	M14





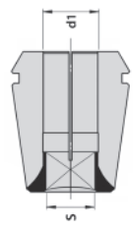
ER32 SPRING COLLETS FOR RIGID TAPPING

TUKOY

ITEM: DIN 6499 - ER32M

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C412032D4,5	4.5	3.4	M4	M6
C412032D6	6	4.9	M5 - M6	M8
C412032D7	7	5.5	-	M10
C412032D8	8	6.2	M8	-
C412032D9	9	7	-	M12

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C412032D10	10	8	M10	-
C412032D11	11	9	-	M14
C412032D12	12	9	-	M16
C412032D14	14	11	-	M18
C412032D16	16	12	-	M20





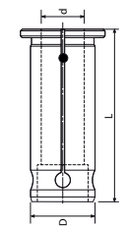
REDUCTION SLEEVES FOR POWER CHUCKS Ø20 - SEALED

WRK

ITEM: C4210

Tech. Code	d mm	D mm	L mm
C4210203	3	20	50
C4210204	4	20	50
C4210205	5	20	50
C4210206	6	20	50
C4210208	8	20	50

Tech. Code	d mm	D mm	L mm
C42102010	10	20	50
C42102012	12	20	50
C42102014	14	20	50
C42102016	16	20	50





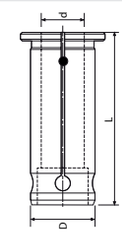
REDUCTION SLEEVES FOR POWER CHUCKS Ø32 - SEALED

WRK

ITEM: C4220

Tech. Code	d mm	D mm	L mm
C4220326	6	32	63
C4220328	8	32	63
C42203210	10	32	63
C42203212	12	32	63
C42203214	14	32	63

Tech. Code	d mm	D mm	L mm
C42203216	16	32	63
C42203218	18	32	63
C42203220	20	32	63
C42203225	25	32	63





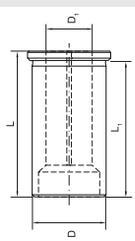
REDUCTION SLEEVES FOR HYDRAULIC CHUCKS

KERFOLG

ITEM: C4233

Tech. Code	D mm	L mm	D1 mm	L1 mm
C42331203	12	44	3	40
C42331204	12	44	4	40
C42331205	12	44	5	40
C42331206	12	44	6	40
C42331208	12	44	8	40
C42332003	20	54	3	50
C42332004	20	54	4	50
C42332005	20	54	5	50
C42332006	20	54	6	50
C42332008	20	54	8	50
C42332010	20	54	10	50
C42332012	20	54	12	50

Tech. Code	D mm	L mm	D1 mm	L1 mm
C42332014	20	54	14	50
C42332016	20	54	16	50
C42333206	32	64	6	60
C42333208	32	64	8	60
C42333210	32	64	10	60
C42333212	32	64	12	60
C42333214	32	64	14	60
C42333216	32	64	16	60
C42333218	32	64	18	60
C42333220	32	64	20	60
C42333225	32	64	25	60





CLEANERS FOR TAPER COUPLINGS AND COLLET CHUCKS

ITEM: C4234

Tech. Code	Dimension
C4234MT1	MK 1
C4234MT2	MK 2
C4234MT3	MK 3
C4234MT4	MK 4
C4234MT5	MK 5
C4234SK30	SK 30
C4234SK40	SK 40

Tech. Code	Dimension
C4234SK50	SK 50
C4234HSK32	HSK 32
C4234HSK40	HSK 40
C4234HSK50	HSK 50
C4234HSK63	HSK 63
C4234HSK80	HSK 80
C4234HSK100	HSK 100



MK



HSK



SK

MINI NUTS FOR ER COLLETS DIN6499

KERFOLG

ITEM: C4310

Tech. Code	Collet	Internal threading	Ø external mm	Ring nut height mm
C4310ER8	ER8	M10 x 0,75	10.8	10.8
C4310ER11	ER11	M13 x 0,75	16	12
C4310ER16	ER16	M19 x 1	22	18
C4310ER20	ER20	M24 x 1	28	19
C4310ER25	ER25	M30 x 1	35	20



BALANCED STANDARD NUTS FOR ER COLLETS DIN6499

KERFOLG

ITEM: C4320

Tech. Code	Collet	Internal threading	ø External mm	Ring nut height mm
C4320ER16	ER16	M22 x 1.5	32	22.6
C4320ER20	ER20	M25 x 1.5	35	23.6
C4320ER25	ER25	M32 x 1.5	42	24.7
C4320ER32	ER32	M40 x 1.5	50	24.7
C4320ER40	ER40	M50 x 1.5	63	30



HEXAGONAL NUTS FOR ER COLLETS DIN6499

KERFOLG

ITEM: C4325

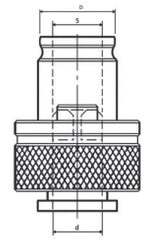
Tech. Code	Collet	Internal threading	Ø External mm	Ring nut height mm
C4325ER11	ER11	M14 x 0.75	19	11.30
C4325ER16	ER16	M22 x 1.5	28	17.50
C4325ER20	ER20	M25 x 1.5	34	19



BUSH WITH CLUTCH FOR TAPPING

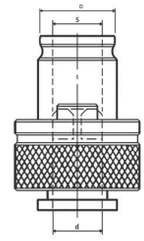
ITEM: 19 DIN STANDARD

Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C435019M2G2,8	M2	19	2.8	2.1	371
C435019M3G3,5	M3	19	3.5	2.7	371
C435019M4G4,5	M4	19	4.5	3.4	371
C435019M5G6	M5	19	6	4.9	371
C435019M6G6	M6	19	6	4.9	371
C435019M8G6	M8	19	6	4.9	376
C435019M8G8	M8	19	8	6.2	371
C435019M10G7	M10	19	7	5.5	376
C435019M10G10	M10	19	10	8	371
C435019M12G9	M12	19	9	7	376
C435019M14G11	M14	19	11	9	376



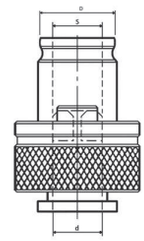
ITEM: 31 DIN STANDARD

Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C435231M6G6	M6	31	6	4.9	371
C435231M8G8	M8	31	8	6.2	371
C435231M10G7	M10	31	7	5.5	376
C435231M10G10	M10	31	10	8	371
C435231M12G9	M12	31	9	7	376
C435231M14G11	M14	31	11	9	376
C435231M16G12	M16	31	12	9	376
C435231M18G14	M18	31	14	11	376
C435231M20G16	M20	31	16	12	376
C435231M24G18	M24	31	18	14.5	376



ITEM: 48 DIN STANDARD

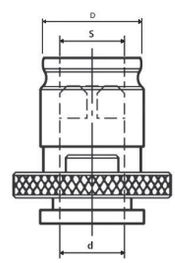
Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C4354M12G9	M12	48	9	7	376
C4354M14G11	M14	48	11	9	376
C4354M16G12	M16	48	12	9	376
C4354M18G14	M18	48	14	11	376
C4354M20G16	M20	48	16	12	376
C4354M22G18	M22	48	18	14.5	376
C4354M24G18	M24	48	18	14.5	376
C4354M27G20	M27	48	20	16	376
C4354M30G22	M30	48	22	18	376
C4354M33G25	M33	48	25	20	376
C4354M36G28	M36	48	28	22	376



BUSH WITHOUT CLUTCH FOR TAPPING

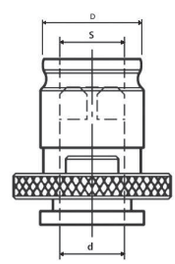
ITEM: 19 DIN STANDARD

Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C435619G3,5	M3	19	3.5	2.7	371
C435619G4,5	M4	19	4.5	3.4	371
C435619G2,8	M2.5 - M4	19	2.8	2.1	371 - 376
C435619G6	M5 - M6 - M8	19	6	4.9	371 - 376
C435619G7	M10	19	7	5.5	376
C435619G8	M8	19	8	6.2	371
C435619G10	M10	19	10	8	371
C435619G9	M12	19	9	7	376
C435619G11	M14	19	11	9	376



ITEM: 31 DIN STANDARD

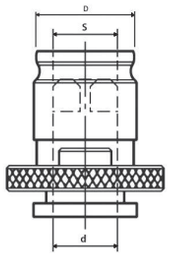
Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C435731G6	M5 - M6 - M8	31	6	4.9	371 - 376
C435731G8	M8	31	8	6.2	371
C435731G10	M10	31	10	8	371
C435731G7	M10	31	7	5.5	376
C435731G9	M12	31	9	7	376
C435731G11	M14	31	11	9	376
C435731G12	M16	31	12	9	376
C435731G14	M18	31	14	11	376
C435731G16	M20	31	16	12	376
C435731G18	M22 - M24	31	18	14.5	376



BUSH WITHOUT CLUTCH FOR TAPPING

ITEM: 48 DIN STANDARD

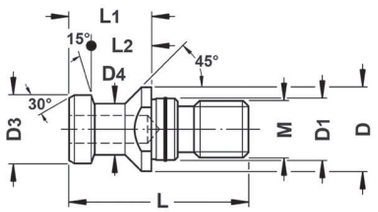
Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C435848G18	M22 - M24	48	18	14.5	376
C435848G20	M27	48	20	16	376
C435848G22	M30	48	22	18	376
C435848G25	M33	48	25	20	376
C435848G28	M36	48	28	22	376



PULL STUDS

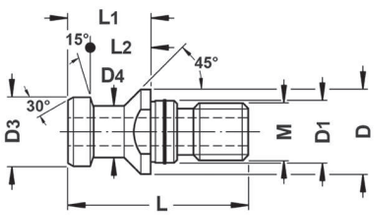
ITEM: CODOLI DIN 69872 - NON FORATI CON OR

Tech. Code	ISO	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	L2 mm
C441040	40	16	23	17	19	14	54	26	20
C441050	50	24	36	25	28	21	74	34	25



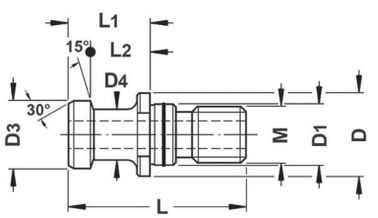
ITEM: CODOLI DIN 69872 - FORATI CON OR

Tech. Code	ISO	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	L2 mm	Hole mm
C441540	40	16	23	17	19	14	54	26	20	7
C441550	50	24	36	25	28	21	74	34	25	11.5



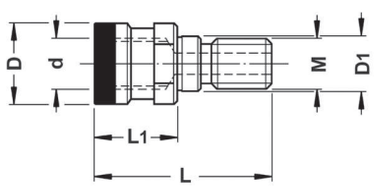
ITEM: ISO 7388/2A - FORATI CON OR

Tech. Code	ISO	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	L2 mm	Hole mm
C442040	40	16	23	17	19	14	54	26	20	7
C442050	50	24	36	25	28	21	74	34	25	11.5



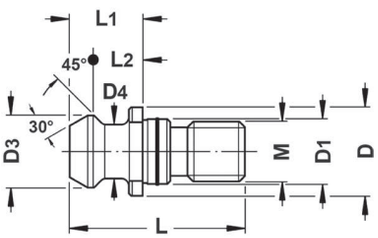
ITEM: CODOLI ADATTATORI OTT SYSTEM

Tech. Code	ISO	M mm	d mm	D mm	D1 mm	L mm	L1 mm
C442540	40	16	16	25.3	17	53	25
C442550	50	24	24	39.6	25	65	25



ITEM: ISO 7388/2B - NON FORATI CON OR

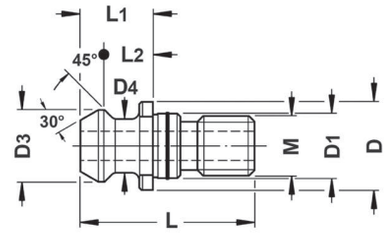
Tech. Code	ISO	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	L2 mm
C443040	40	16	22.5	17	18.9	12.9	44.5	16.4	11.1



PULL STUDS

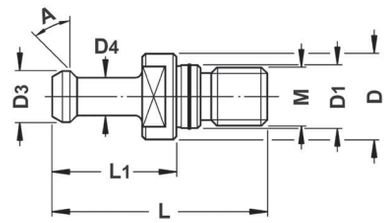
ITEM: ISO 7388/2B - FORATI CON OR

Tech. Code	ISO	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	L2 mm	Hole mm	Machine type
C4435401	40	16	22.5	17	18.9	12.9	44.5	16.4	11.1	7.3	-
C4435402	40	16	21.8	17	18.79	12.44	41.25	16.25	11.17	7	MZ
C4435403	40	16	22	17	18.79	12.44	44.1	19.1	14.02	7	MZ
C4435501	50	24	37	25	29.1	19.6	65.5	25.5	17.9	11.5	-
C4435502	50	24	35.5	25	28.95	20.82	65.4	25.4	17.78	10	MZ



ITEM: MAS 407 BT - NON FORATI CON OR

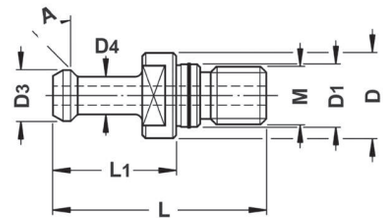
Tech. Code	ISO	A	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm
C44404030	40	30°	16	23	17	15	10	60	35
C44404045	40	45°	16	23	17	15	10	60	35
C44404090	40	90°	16	23	17	15	10	60	35
C44405030	50	30°	24	38	25	23	17	85	45
C44405045	50	45°	24	38	25	23	17	85	45
C44405090	50	90°	24	38	25	23	17	85	45



ITEM: MAS 407 BT - FORATI CON OR

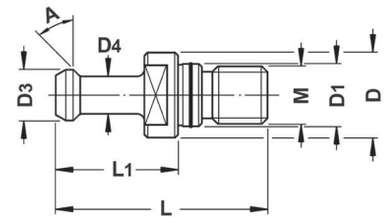
Tech. Code	ISO	A	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	Hole mm
C44454030	40	30°	16	23	17	15	10	60	35	4
C44454045	40	45°	16	23	17	15	10	60	35	4
C44454090	40	90°	16	23	17	15	10	60	35	4
C44455030	50	30°	24	38	25	23	17	85	45	6
C44455045	50	45°	24	38	25	23	17	85	45	6
C44455090	50	90°	24	38	25	23	17	85	45	6

MAS 407 BT - DRILLED WITH OR



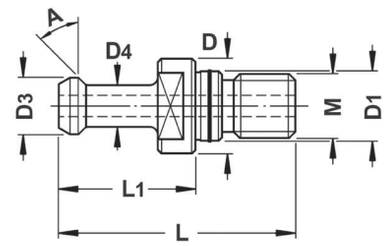
ITEM: BT PER DIN 69871 - NON FORATI CON OR

Tech. Code	ISO	A	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm
C445040	40	45°	16	23	17	15	10	57	32
C445050	40	90°	16	23	17	15	10	57	32



ITEM: BT PER DIN 69871 - FORATI CON OR

Tech. Code	ISO	A	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	Hole mm
C445540	40	45°	16	23	17	15	10	57	32	4
C445550	40	90°	16	23	17	15	10	57	32	4



Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10

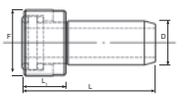


The products are available in chapter K

ADDUCTION COOLING TUBES DIN 69893

ITEM: C4480

Tech. Code	HSK	F	D mm	L mm	L1 mm	α
C448063	63	M18 x 1	12	36.6	11.5	1.3°
C4480100	100	M24 x 1.5	16	44,0	15.5	1.4°



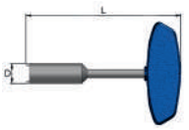


T-HANDLE KEYS FOR COOLANT PIPES

EROGLU Präzisionswerkzeuge

ITEM: C4482

Tech. Code	HSK	L mm
C4482063	63	136
C4482100	100	136

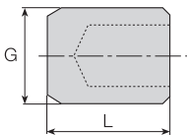




CLAMPING SCREWS FOR WELDON CHUCKS

ITEM: C4485

Tech. Code	Weldon	G	L mm
C4485W6	6	M 6 x 1	10
C4485W8	8	M 8 x 1.25	10
C4485W10	10	M 10 x 1.5	12
C4485W12	12	M 12 x 1.75	16
C4485W16	16	M 14 x 2	16
C4485W20	20	M 16 x 2	16
C4485W25	25	M 18 x 2	20
C4485W32	32	M 20 x 2	20





WRENCHES FOR STANDARD AND BALANCED RING NUTS

TUKOY

ITEM: C4490

Tech. Code	For collet
C4490ER16	ER16
C4490ER20	ER20
C4490ER25	ER25
C4490ER32	ER32
C4490ER40	ER40



WRENCHES FOR MINI NUTS

TUKOY

ITEM: C4492

Tech. Code	For collet
C4492ER8	ER8
C4492ER11	ER11
C4492ER16	ER16
C4492ER20	ER20
C4492ER25	ER25



WRENCHES FOR HIGH CLAMPING CHUCKS

TUKOY

ITEM: C4494

Tech. Code	For collet
C4494ER20	ER 20
C4494ER32	ER 32



WRENCHES FOR POWER CHUCKS

EROGLU Präzisionswerkzeuge

ITEM: C4496

Tech. Code	For collet	Ø mm
C449620	ER 20	48
C449632	ER 32	68

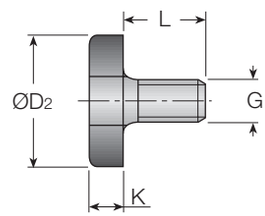


CLAMPING SCREWS FOR SHELL MILL HOLDERS

TUKOY

ITEM: C4501

Tech. Code	K mm	G	L mm	D2 mm
C4501V16	6	M8	16	20
C4501V22	7	M10	18	28
C4501V27	8	M12	22	35
C4501V32	9	M16	26	42
C4501V40	10	M20	30	52

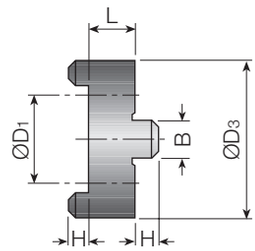


DRIVING RING DIN 6366/1 FOR COMBI SHELL MILL HOLDERS

TUKOY

ITEM: C4502

Tech. Code	H mm	B mm	L mm	D1 mm	D3 mm
C4502A16	5.0	8	10	16	32
C4502A22	6.0	10	12	22	40
C4502A27	6.3	12	12	27	48
C4502A32	7.0	14	14	32	58
C4502A40	8.0	16	14	40	70



Related products

NEW

U-Power SAFETY SHOES

Tech. Code	EU Size	UK Size
K181744	44	10
K181745	45	10,5
K181746	46	11
K181747	47	12



Product available in Chapter K

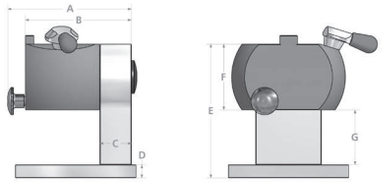
ITEM: C4525

Our cone disassemblers supports are manufactured with the upmost care to preserve the optimal conditions of your toolholders.

The characteristics of the supports avoids possible contact between the cone and support thanks to the shape and the presence of an O-ring.

Keep clean all surfaces to always ensure maximum performance.

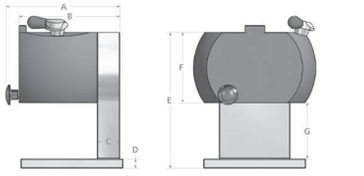
The good condition of the cone will always ensure exact setting and precise machining.



HANDY40







HANDY50





HANDY63

Rotation - positioning

1. Pull the indexing knob to unlock
2. Turn into a new position at 0° 90°
3. Release the knob to block

Toolholders blocking

1. Insert holder making sure the clone is perfectly clean
2. Check the correct positioning into centering dowel
3. Rotate locking knob toward SK or BT according to cone version

Toolholders extraction

1. Rotate locking knob to central positioning
2. Extract holder





Tech. Code	Coupling	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Base mm	Weight kg
C4525SK40	SK40 - BT40	121	97	29	12	122	60	50	110 x 110	5,0
C4525SK50	SK50 - BT50	152	128	29	12	172	89	71	130 x 130	12,5
C4525HSK63	HSK63	124	101	29	12	122	60	50	110 x 110	5,2

MANUAL SHRINKING MACHINES

ITEM: ISG1000

The ISG1000 shrink-fit machine is the most advantageous solution either economically or from a performance point of view for a first approach to the use of shrink-fit chuck. It is simple to use, its small size makes it the most versatile shrink-fit machine on the market today.

The machine is supplied with 1 Interchangeable ring 6 - 16 mm, protective gloves and user manual.

The holders must be ordered separately C4625xx



Tech. Code		C46201
Shrinking range	Ø HM	3 - 16
Shrinking range	Ø HSS	12 - 16
Tool length	max mm	290 with HSK63
Cooling		NO
Power	kW	6,5
Power supply		400V - 16A - 50Hz
Dimension	mm	390 x 310 x 640

MANUAL CLAMPING MACHINE WITH BARCODE READER

ITEM: ISG1200

NEW

Compact and handy clamping machine for diameters 3-32 mm.
Fast parameter input via scannable barcodes.
Integrated cooling pump (honeycomb units to be purchased separately - C4628)
Max. tool length: 450 mm

Scope of delivery
Fixed coil
5 discs for standard tool holders
1 disk stop
1 pair of gloves
Bar codes for standard tool holders
Barcode reader



Tech. Code		C461200
Ø Shrinkage range HM	mm	3 - 32
Ø HSS clamping range	mm	6 - 16
Max. tool length	mm	450
Cooling time	s	300
Power	kW	6,5
Power supply	V / A / Hz	400 / 16 / 50
Dimensions	mm	390 x 310 x 640
Weight	kg	25

AUTOMATIC SHRINKING MACHINE

ITEM: ISG3410 WK

The ISG3410 WK shrink-fit machine performs the shrink function, cooling and drying of the chuck in complete automatism, without any operator intervention.

The graphic and intutive display simplifies every operation.
The machine is supplied with 4 Interchangeable rings d. 3 -32mm,
1 liter of coolant, protective gloves and user manual.

The tool holders must be ordered separately C4610xx

Tech. Code		C46051
Shrinking range	Ø HM	3 - 32
Shrinking range	Ø HSS	6 - 32
Tool length	max mm	400 with HSK63
Cooling time		20"
Power	kW	11
Power supply		400V - 16A - 50Hz
Compressed air	bar	4
Dimension	mm	800 x 560 x 1720



HOLDERS FOR ISG WITH LIQUID COOLING

ITEM: C4610

The positioning units for shrink-fit tool holders are to be used with the shrink machines with the liquid cooling that guarantees the exact positioning of chuck during the whole operation of shrinking and cooling with liquid and drying that take place in complete automatism.

In addition to the most used dimensions it is possible to have the whole range of the tool holders.

Tech. Code	For chucks
C461001	SK40 - BT40 - HSK63
C461002	SK50 - BT50 - HSK100



TOOL HOLDERS FOR ISG MACHINES WITH AIR COOLING SYSTEM

ITEM: C4625

The positioning units for shrink-fit tool holders are to be used with the shrinking machines with air cooling that guarantees the exact positioning of the tool holder during the whole operation of shrinking and cooling, while offering greater safety to the operators.

Tech. Code	For chucks
C462501	SK40/BT40
C462502	SK50/BT50
C462503	HSK63



ALVELOLAR UNITS FOR AIR-COOLING ISG MACHINES

ITEM: C4628

The alveolar adaptors enhance the cooling capacity of the air cooling stations that are combined with ISG tool holder units. Their honeycomb structure conveys all the developed air of the units cooling both on the tool holder and on the tool, optimizing the cooling times.

Tech. Code	Dimension Ø mm
C462801	3,0 - 5,9
C462802	6,0 - 9,0
C462803	9,1 - 12,0
C462804	12,1 - 16,0

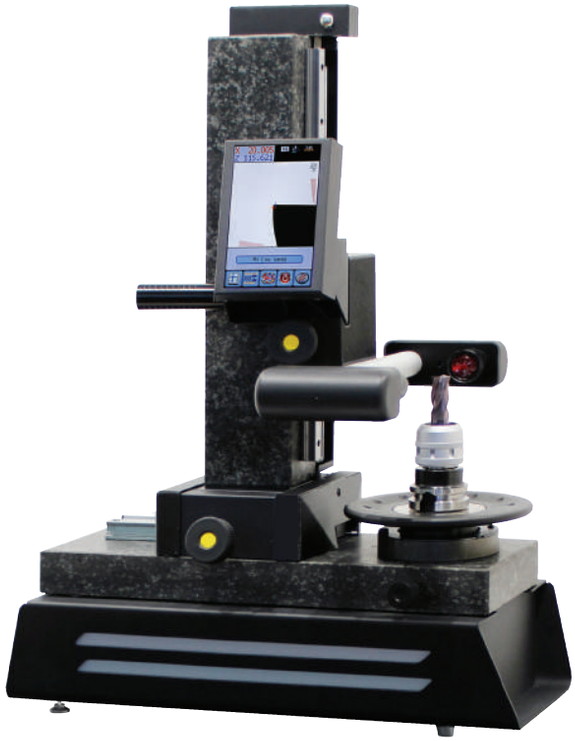


PRESETTING EYE TRIM II

KERFOLG

ITEM: C4715

High performance entry level preset. Despite its small size, with a diameter of 260 mm and a height of 360 mm, Eye Trim II contains structural and design features capable of guaranteeing remarkable measurement accuracy, dimensional stability and a high degree of reliability. Base and column in natural granite, one of the materials with the lowest coefficient of thermal expansion (fundamental element in terms of measurement). New 7 " graphic display makes the presetting experience simple and complete, thanks to an intuitive display of the tool data and the practical summary of all the machine functions in a single screen. Interchangeable spindle holders avoid the use of adapters and consequently possible coupling errors.



FEATURES
- X axis measurement resolution 0.001 mm. Z axis 0.001 mm
- Management electronics with 32-bit RISC processor and integrated vision system
- C-MOS sensor, 5x5mm framed image area, 20X magnification
- Telecentric lens and LED illuminator
- 7" LCD color TFT graphic display (image 86x150)
- Full Touch Screen for all presetter functions
- Software with menus represented by icons
- Lifetime free software update
- Display radius / diameter, mm / inch, abs / incr.
- Possibility of measurement with autocollimation on the whole screen
- Automatic calculation cycle of insert radius and angle
- Management nr. 9 digital machine origins
- Management nr. 9 tool tables, each consisting of 99 tools
- Memorization for each tool offset of: T, Lx, Lz, insert radius
- Data storage on flash memory
- Connection with PC via RS-232 port and electronics BIOS update
- 24Vdc power supply with external power supply supplied as standard
- TD236 for managing backup and restore functions of machine origins and tool lists
- Interchangeable spindle holders ISO/BT/HSK/VDI supplied

OPTIONAL
- Mini-label printe
- Support table

Tech. Code	Useful X axis mm	Useful Z axis mm	Spindle	Weight kg
C471540	130 (ø 260)	360	ISO 40	45
C471550	130 (ø 260)	360	ISO 50	45
C471563	130 (ø 260)	360	HSK 63	45

Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10



The products are available in chapter K

PRESETTING EYE TRIM EVO

KERFOLG

ITEM: C4716

NEW



Solid, precise and functional high-performance presetter. High degree of measurement repeatability and reproducibility.
Vertical monitor with 15.6" touch screen for improved visualisation of both data and measurement functions. Innovative graphic interface with simple and organised layout.
State-of-the-art electronics and scales greatly enhance preset accuracy and performance.
Dust and liquid resistant screen for reliable operation even in the harshest environments.
New graphical user interface with simple and organised layout, reducing operation time and complexity. Latest-generation high-resolution cameras to better analyse the tool, both in measurement and inspection. Base and column in natural granite, one of the materials with the lowest coefficient of thermal expansion, able to guarantee thermal and dimensional stability and therefore extreme precision, repeatability and reproducibility of the measurement.
Certified optical glass scales.
New-generation, simple and intuitive software that increases the connections between operators, instruments and machines on the shop floor. Different measuring modes (fixed grid, autotargeting and freezing of measurements), cutting edge inspection function, automatic measurement of geometric entities.

Free software update for life.
Interchangeable spindle holders do not require adapters, avoiding possible mismatch errors (to be ordered separately - C4717)

CHARACTERISTICS:

- Measuring range: max. diameter 360 mm (radius 180 mm); max. height 460 mm
- Natural granite base and column: max. linearity error 8 microns
- Linear guides (2 per X-axis, 1 per Z-axis) with double recirculating ball bearings.
- Rapid axis movement
- Manual micrometric adjustment
- Overall dimensions: L= 958, H=974 mm; D=441 mm
- Framed area: 7.6x7.2 mm
- Infinite machine origins
- Infinite tool tables
- Infinite tools per table
- Connection and integration functions: 4 USB, LAN, standard post processor

OPTIONAL:
- Label printer

Tech. Code	Measuring range X mm	Measuring range Z mm	Magnification	Weight Kg
C4716EVO	360	460	25x	105

HOLDERS FOR TOOL SETTERS

KERFOLG

ITEM: C4717

NEW



Interchangeable holders for Eyetrim Evo tool setters

Tech. Code	C471740	C471750	C471763
Description	ISO 40 spindle holders	ISO 50 spindle holders	HSK 63 spindle holder

Related products

KERFOLG END MILLS WITH VARIABLE HELIX Z4

Tech. Code	DC f8 mm	APMXS mm
A4U4708	8	21
A4U4710	10	22
A4U4712	12	26



The complete range is available in CAP A.

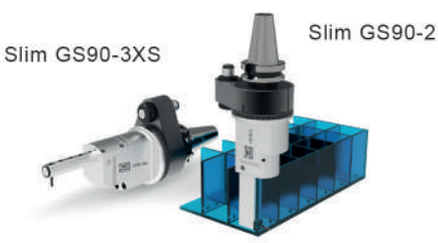


CLASSIC LINE ANGLE HEADS - IDEAL FOR MICRO MACHININGS

TOOLING - GENERAL CATALOGUE

You can purchase any product from TOOLING GERARDI catalogue by contacting our sales department. The delivery time depends on the availability of the supplier, you will receive an order confirmation with the detailed delivery dates.

THE BEST FIXTURE FOR YOUR MACHINE TOOL !



Angle Heads
Classic Line & Evolution Line



Driven & Static Tool Holders
for lathes and turrets

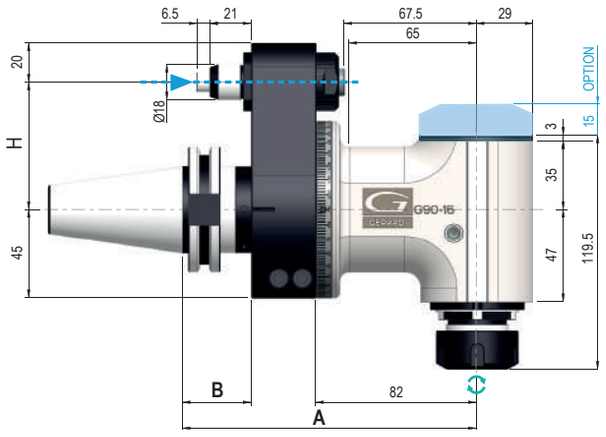


Modular Quick Change
Adaptors for ER nuts

INTEGRAL ANGLE HEADS

ITEM: G90-16 - G90-20

Body in sandblasted and chromed steel with high resistance. Shaft with intergral attachment shank (cemented, hardended and ground) to guarantee maximum rigidity. Each drive shaft is supported by a pair of angular contact bearings, preloaded in the ABEC 9 precision class and lubricated with lifetime grease. Spiral bevel gears made of high strength material, ground to guarantee lower heating and noise and high revolutions. Computerized calculation of the bevel gear pair (gleason): more teeth engaged, more output torque, greater number of working hours, almost no noise. Weight and reduced dimension compared to the corresponding models of the Evolution line. Double front seal (labyrinth + seal). External coolant supply via pin and internal pressurization included in the price (a) Options: internal coolant supply through the tool: 10 bar via rotary distributor (b) 30 to 70 bar by machine spindle , dry rotation not possible (c) ReCool special ferrules to achieve coolant passage via tool even on heads that do not provide this option (d) High speed up to 10,000 rpm. Compatibility with the heads always installed (anti-rotation pin and identical stop blocks).



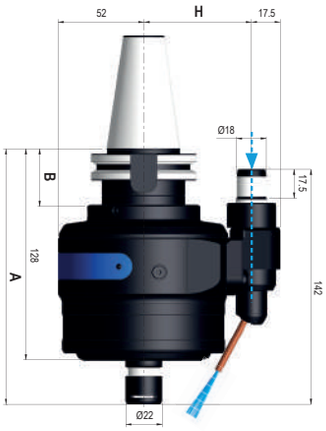
Tech. Code	Shanks	H mm	Output	Rpm max.	Ratio	A mm	B mm	Weight kg
C4900S4065ER25	SK40	65	ER 25	8000	1:1	150	35	5,4
C4900S4080ER25	SK40	80	ER 25	8000	1:1	150	35	5,4
C4900S5080ER25	SK50	80	ER 25	8000	1:1	150	35	5,4
C4900B4065ER25	BT40	65	ER 25	8000	1:1	150	35	5,4
C4900B4080ER25	BT40	80	ER 25	8000	1:1	150	35	5,4
C4900B5080ER25	BT50	80	ER 25	8000	1:1	156	41	5,4
C4900S5080ER32	SK50	80	ER 32	4000	1:1	160	35	11
C4900B5080ER32	BT50	80	ER 32	4000	1:1	166	41	11

AUTOMATIC TOOL CHANGE - SENSE OF ROTATION EQUAL TO THE SPINDLE.
Supplied with Stop-block, ER ring, service wrenches, grease tube and instruction book - in case

SPINDLE SPEEDERS

ITEM: GSP 10.HS - GSP 13

The compact construction, the components in heat treated steel, the ground gears on the involute allow the transmission of high power with excellent levels of silence. The spindle is supported by pre-loaded angular contact precision ball bearings that give it a greater strength of rigidity and rotation precision within mm. 0.01. Two planetary ground gears for high transmittable power. Special tool attachment on request (Komet, DIN 1835, etc...).. Coolant supply through the standard or on-demand tool center. Special machine shank connection on request (Morse taper, DIN 69880, etc...). Interchangeable anti-rotating pin and therefore customizable by the customer. RPM spindle speeders can be mounted on traditional machines or with automatic tool changers. Lubrication is ensured with long-life synthetic grease which requires virtually no maintenance. Test certificate attached to each spindle speeder.



Tech. Code	Shanks	H mm	Output	Rpm. max	Ratio	A mm	B mm	Weight Kg	Kw
C4911BT465ER16	BT40	65	ER16	36.000	1:8	154	42	6	15.5
C4911BT580ER16	BT50	80	ER16	36.000	1:8	154	42	8.5	15.5
C4911SK465ER16	SK40	65	ER16	36.000	1:8	154	42	6	15.5
C4911SK580ER16	SK50	80	ER16	36.000	1:8	162	50	8.5	15.5
C4911BT465ER20	BT40	65	ER20	24.000	1:8	157	42	6	8
C4911BT580ER20	BT50	80	ER20	24.000	1:8	157	42	8.5	8
C4911SK465ER20	SK40	65	ER20	24.000	1:8	157	42	6	8
C4911SK580ER20	SK50	80	ER20	24.000	1:8	165	50	8.5	8

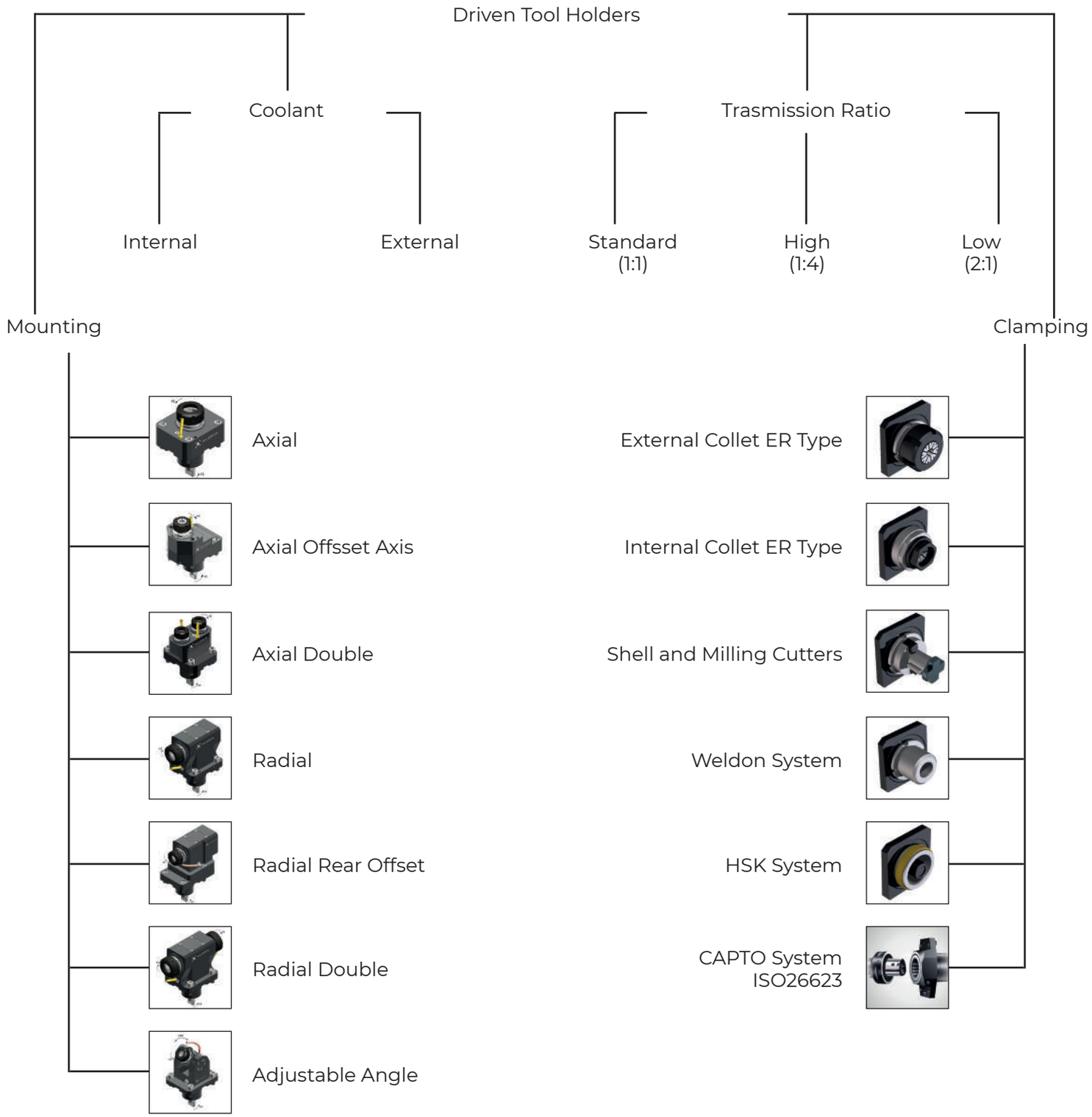
Supplied with stop-block, ER ring, service wrenches, grease tube and instruction manual - in case

DRIVEN TOOLHOLDERS FOR CNC LATHES

ALGRA manufactures a wide range of driven tooling to cover all functional requirements, with couplings compatible with the best and most popular machine tool brands.

Rotating types:
AMS: for lathes MORI SEIKI - CMZ - GOODWAY - ACCUWAY - NAKARUMA - DAEWOO/DOOSAN - HWACHEON - BMT - HYUNDAY - SAMSUNG - MYANO
CMZ: DOOSAN - GOODWAY - HAAS - HWACHEON - HYUNDAY - MYANO - MAZAK - NAKARUMA - OKUMA - SAMSUNG - SPINNER

A few distinctive features of ALGRA are:
- quality of the bearings used
- internal coolant pressure up to 80BAR
- possibility of aligning the rotating parts of the machine using a dial gauge
- rotating multiplied up to i=1:4
- rotating torque
- wide production range
- spindle output with collet holder, milling holder, Weldon holder and HSK system for all rotating types



DRIVEN TOOL HOLDERS VDI40 DIN5480

ITEM: C5520

For lathes: **DMG MORI**: CTV 200, 250, 315, CTX beta, CTX gamma, CTX 420 linear radial tooling turret, GMX 250 /GMX 300 / 400 / 500, Twin 42 / 65, Twin 102, Twin 500; **EMCO**: Hyperturn 690/95/110, Vertical VT 250/260/400, Maxxturn 95, Maxxturn 65 M/SM; **HYUNDAI**: WIA L200, 250Y/SY / SKT200, 250Y/SY, WIA SKT210SY; **HURCO**: TMX 8, TMX10 MY/MYS, TMM 10, 12, TMM 8; **JYOTI**: Jyoti TMC 350, Jyoti TMX 200; **HARDINGE**: GS 200, 250 MSY; **VICTOR**: VTurn II-23/26 BCV, YCV, CV, VTurn-A26 CV,SCV, YCV, YSCV.

1



2



3



Tech. Code	Model	Description	Figure
C5520RAPPS32	RAPPS 40 221US3	Driven tool holder, axial 0°, collet ER32, external coolant.	1
C5520RRPPS32	RRPPS 40 121US3	Driven tool holder radial 90°, collet ER32, H=100, external coolant, 6000 rpm; i=1:1	2
C5520ROPPS25	ROPPS 40 121SS3	Driven tool holder orientable ± 90°, collet ER25, external coolant, 6000 rpm, i=1:1	3

DRIVEN TOOL HOLDERS NL

ITEM: C5525

For lathes: **DMG MORI** NL / NLX 1500 - 12 station; NL / NLX 2000 - 12 station; NL / NLX 2500 - 12 station; NL / NLX 3000 - 12 station; NLX 4000; NT 4000 / 4200 / 4250 / 4300 / 5000 / 5400; NZL 2000 / 2500; NZX 2500 - 12 station.

1



2



3



Tech. Code	Model	Description	Figure
C5525RAPPH32	RAPPH 32 221UNL	Driven tool holder axial 0°, collet ER32,external coolant, 10000 rpm; i=1:1	1
C5525RAPPH40	RAPPH 40 121UNL	Driven tool holder axial 0°,collet ER40 external coolant, 10000 rpm; i=1:1	1
C5525RRPPH32	RRPPH 32 121UNL	Driven tool holder radial 90°, collet ER32, external coolant, 10000 rpm; i=1:1	2
C5525RRPPH40	RRPPH 40 121UNL	Driven tool holder radial 90°, collet ER40, external coolant, 10000 rpm; i=1:1	2
C5525ROPPH25	ROPPH 25 121UNL	Driven tool holder orientable ± 90 °, collet ER25, external coolant, 10000 rpm, i=1:1	3

STATIC TOOL HOLDERS NL

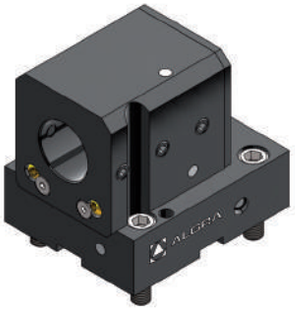
ITEM: C5527

For lathes: **DMG MORI** NL / NLX 1500 - 12 station; NL / NLX 2000 - 12 station; NL / NLX 2500 - 12 station; NL / NLX 3000 - 12 station; NLX 4000; NT 4000 / 4200 / 4250 / 4300 / 5000 / 5400; NZL 2000 / 2500; NZX 2500 - 12 station

1



2



3



Tech. Code	Model	Description	Figure
C5527E10US25	E10/US 25 NLX70	Static tool holder axial, Q=25, external coolant DMG MORI T00186	1
C5527E10BS40	E10/BS 40 NLX80	Static tool holder for boring bars, D=40, H=80 mm., external/Internal coolant, DMG MORI T10097 -T13128	2
C5527E10BD32	E10/BD 32 NLX80/125	Static tool holders for boring bars, D=32, H=80/125 mm., external/Internal coolant, DMG MORI T10096	3

DRIVEN TOOL HOLDERS NZ

ITEM: C5530

For lathes **DMG MORI** DuraTurn 2050 MC, DuraTurn 2550 MC, NL / NLX 1500 - 20 station, NL / NLX 2000 - 20 station, NL / NLX 2500 - 20 station, NRX2000, NT / NTX 1000, NT / NTX 2000, NT 3000 / 3100 / 3150 / 3200, NZ / NZX 1500, NZ / NZX 2000, NZ / NZX 2500 - 16 station

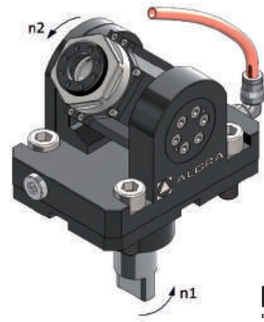
1



2



3



Tech. Code	Model	Description	Figure
C5530RAPPS25	RAPPS 25 121UNZ	Driven tool holder 0°, collet ER25, external coolant, 12000 rpm; i=1:1	1
C5530RAPPS32	RAPPS 32 121UNZ	Driven tool holder axial 0°, collet ER32, external coolant 12000 rpm; i=1:1	1
C5530RRPPS25	RRPPS 25 121UNZ	Driven tool holder axial 90°, collet ER25, external coolant 12000 rpm; i=1:1	2
C5530RRPPS32	RRPPS 32 121UNZ	Driven tool holder axial 90°, collet ER32, external coolant 12000 rpm; i=1:1	2
C5530ROPPS20	ROPPS 20 121UNZ	Driven tool holder axial 90°, collet ER20, external coolant 12000 rpm; i=1:1	3

DRIVEN TOOL HOLDERS BMT55

ITEM: C5535

For lathes: **DOOSAN**: Lynx300 (M), Puma 230/240/280 (M,LM,S), Puma 1500/2000/2500 (M,S,Y), Puma 2100 (Y,LY,SY,LSY), Puma GT2100/2600 (M), Puma H250TM, Puma MX1600/2100 (ST/LST), Puma TL2000/2500 (M,LM), Puma TT1500/1800 (MS,SY), Puma TW2600M; **GOODWAY**: GTX-2000, 2600, GTZ-2000, 2600; **HYUNDAI WIA**: HD2200 M/MC, L160, 230MA/LMA/LMSA, LM1600, 1800TTSY, SKT160, 180TTMS/TTSY; **HARDINGE**: T-51/65 Super-Precision; **HWACHEON**: Cutex-160, 180 MC/SMC/YMC/YSMC, VT 450 MC; **SAMSUNG**: SL 1500, 2000 M/SY, PL 240LM; **JYOTI**: AX300; **VICTOR**: Vturn-A16/20 CM, SCM, YCM, YSCM; Vturn-Q200.

1



2



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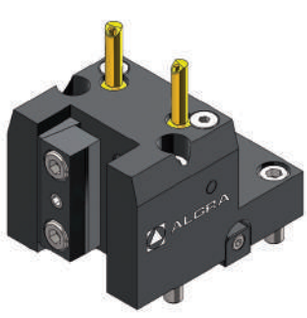
Tech. Code	Model	Description	Figure
C5535RAPPS25	RAPPS 25 121UT55	Driven tool holder axial 0°, collet ER25, external coolant, 8000 rpm; i=1:1	1
C5535ROPPS20	ROPPS 20 121UT55	Driven tool holder orientable ± 90°, collet ER20, external coolant, 8000 rpm, i=1:1	3
C5535RRPPS2570	RRPPS 25 321UT55	Driven tool holder radial 90°, collet ER25, H=70,external coolant, 8000 rpm; i=1:1	2
C5535RRPPS2585	RRPPS 25 421UT55	Driven tool holder radial 90°, collet ER25, H=85, external coolant, 8000 rpm; i=1:1	2

STATIC TOOL HOLDERS BMT55

ITEM: C5537

For lathes: **DOOSAN**: Lynx300 (M), Puma 230/240/280 (M,LM,S), Puma 1500/2000/2500 (M,S,Y), Puma 2100 (Y,LY,SY,LSY), Puma GT2100/2600 (M), Puma H250TM, Puma MX1600/2100 (ST/LST), Puma TL2000/2500 (M,LM), Puma TT1500/1800 (MS,SY), Puma TW2600M; **GOODWAY**: GTX-2000, 2600, GTZ-2000, 2600; **HYUNDAI WIA**: HD2200 M/MC, L160, 230MA/LMA/LMSA, LM1600, 1800TTSY, SKT160, 180TTMS/TTSY; **HARDINGE**: T-51/65 Super-Precision; **HWACHEON**: Cutex-160, 180 MC/SMC/YMC/YSMC, VT 450 MC; **SAMSUNG**: SL 1500, 2000 M/SY, PL 240LM; **JYOTI**: AX300; **VICTOR**: Vturn-A16/20 CM, SCM, YCM, YSCM; Vturn-Q200.

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Tech. Code	Model	Description	Figure
C5537E10U25	E10/U 25 T55X65	Static tool holder axial Q=25,external coolant	1
C5537E10B4060	E10/B 40 T55X60	Static tool holder for boring bars, D=40, H=60, Internal/external coolant	2
C5537E10B4070	E10/B 40 T55X70	Static tool holder for boring bars, D=40, H=70, Internal/external coolant	2
C5537E10BD25	E10/BD 25 T55X/110	Static tool holder for boring bars, D=25, H=65/110, Internal/external coolant	3

DRIVEN TOOL HOLDERS KIT BMT 65

ITEM: C5510

For lathes: **DOOSAN**: Puma 2100/2600 (M,LM,MS,LMS), Puma 300 (M,MS,MB,MC), Puma 3100(M,LM,LY,XLM,XLY,ULM,ULY), Puma MX2000/2500, Puma MX2600 (T,ST), Puma TT2500 (MS/SY), Puma TX200 (M,Y,YY), Puma V400 (M), Puma VT450 (M,2SP); **GOODWAY**: GLS-2800, 3300, GS-2000, 2800, GLS-2800, 3300, GMS-2000 ST, GMT-2000, GTX/GTZ-2000, 2600; **HYUNDAI WIA**: L300 MA/MC/LMA/LMC/MSA/MSC/LMSA, LM2000, 2500TTM/TTMS/TTSY, L2000, 2100, 2600, 3000 , SKT200, 250 TTSY, SKT250, 300M/MS; **HARDINGE**: GS-65; **HWACHEON**: Cutex-240/HI-TECH200/T2-Series, Hi-Tech 200,230,300,400,450MC/SMC/YMC/YSMC, VT-450, T2-Series MC/SMC/YMC/YSMC; **SAMSUNG**: PL 20/25/35M, PL 2000/2500M, SL 25, 35, 2500M/SY, 3500Y; **VICTOR**: Vturn-A26 CM, SCM, YCM, YSCM.

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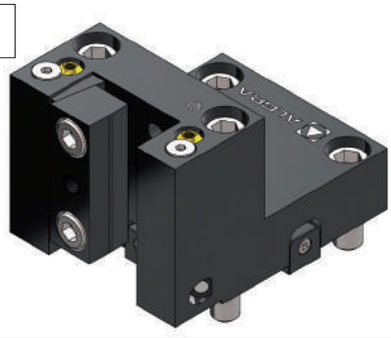
Tech. Code	Model	Description	Figure
C5510RAPPS32	RAPPS 32 121UT65	Driven tool holder, axial 0°, collet ER32, external coolant, 6000 rpm; i=1:1	1
C5510RRPPS3272	RRPPS 32 121UT65	Driven tool holder, radial 90°, collet ER32, H=72, external coolant, 6000 rpm; i=1:1	2
C5510RRPPS3210	RRPPS 32 321UT65	Driven tool holder, radial 90°, collet ER32, H=100, external coolant, 6000 rpm; i=1:1	2
C5510ROPPS25	ROPPS 25 121UT65	Driven tool holder orientable ± 90°, collet ER25, external coolant, 6000 rpm, i=1:1	3

STATIC TOOL HOLDERS BMT65

ITEM: C5512

For lathes: **DOOSAN**: Puma 2100/2600 (M,LM,MS,LMS), Puma 300 (M,MS,MB,MC), Puma 3100(M,LM,LY,XLM,XLY,ULM,ULY), Puma MX2000/2500, Puma MX2600 (T,ST), Puma TT2500 (MS/SY), Puma TX200 (M,Y,YY), Puma V400 (M), Puma VT450 (M,2SP); **GOODWAY**: GLS-2800, 3300, GS-2000, 2800, GLS-2800, 3300, GMS-2000 ST, GMT-2000, GTX/GTZ-2000, 2600; **HYUNDAI WIA**: L300 MA/MC/LMA/LMC/MSA/MSC/LMSA, LM2000, 2500TTM/TTMS/TTSY, L2000, 2100, 2600, 3000 , SKT200, 250 TTSY, SKT250, 300M/MS; **HARDINGE**: GS-65; **HWACHEON**: Cutex-240/HI-TECH200/T2-Series, Hi-Tech 200,230,300,400,450MC/SMC/YMC/YSMC, VT-450, T2-Series MC/SMC/YMC/YSMC; **SAMSUNG**: PL 20/25/35M, PL 2000/2500M, SL 25, 35, 2500M/SY, 3500Y; **VICTOR**: Vturn-A26 CM, SCM, YCM, YSCM.

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Tech. Code	Model	Description	Figure
C5512E10U25	E10/U 25 T65X80	Static tool holder axial Q=25, external coolant	1
C5512E10B4072	E10/B 40 T65X72	Static tool holder for boring bars, D=40, H=72, Internal/external	2
C5512E10B5072	E10/B 50 T65X72	Static tool holder for boring bars, D=50, H=72, Internal/external coolant	2
C5512E10B40100	E10/B 40 T65X100	Static tool holer for boring bars D=40, H=100, Internal/external coolant	2

DRIVEN TOOL HOLDERS MZ2

ITEM: C5552

For lathes: **MAZAK**: Quick Turn Nexus (QTN) 200, 250 M/MS/MY/MSY 12 station, Super Quick Turn (SQT) 15, 18, 200, 250 M/MY/MS/MSY 12 station, Super Quadrex 200, 250 M.

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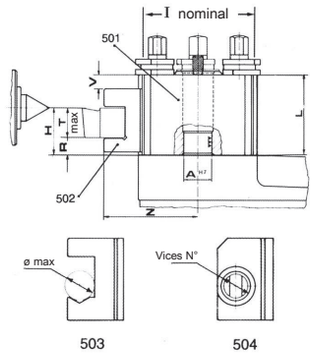
Tech. Code	Model	Description	Figure
C5552RAPPD32	RAPPD 40 121DMZ2	Driven tool holder axial 0°offset, collet ER32, external coolant, 6000 rpm; i=1:1	1
C5552RRPPS32	RRPPS 40 421DMZ2	Driven tool holder radial 90°,collet ER32, H=130, external coolant,, 6000 rpm; i=1:1	2
C5552ROPPS25	ROPPS 40 121DMZ2	Driven tool holder orientable ± 90°, collet ER25, external coolant, 6000 rpm, i=1:1	3

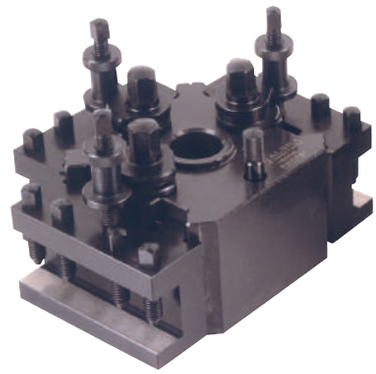
QUICK CHANGE STATIC TOOL HOLDER TURRETS

ITEM: C5210

Quick change static tool holder turret

Standard equipment 5 tool holders:
- 4 flat seats
- 1 prismatic seat



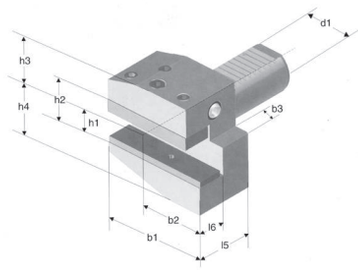


Tech. Code	TURRET TYPE	I mm	H7 A mm	Min H mm	Max H mm	L mm	R mm	Max T mm	Z mm	Max Ø mm	Clamp n°
C5210100B	B	100	30	47	61	85	15	32	100	24	3
C5210115,3C	C	115.3	38	51	72	94	19	32	108	26	4

RADIAL TOOLHOLDERS VDI DIN 69880

ITEM: B1

Radial tool holder DIN 69880, right-hand, short, external coolant adduction.



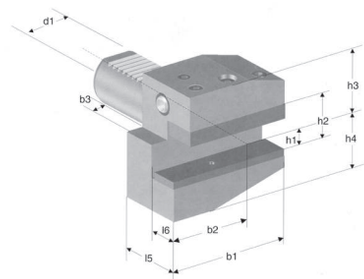
Tech. Code	d1 mm	b1 mm	b2 mm	b3 mm	h1 mm	h2 mm	h3 mm	h4 mm	l5 mm	l6 mm
C501040	40	85	42.5	12.5	25/20	34	32.5	48	44	22

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.

RADIAL TOOLHOLDERS VDI DIN 69880

ITEM: B2

Radial tool holder DIN 69880, left-hand, short, external coolant adduction.

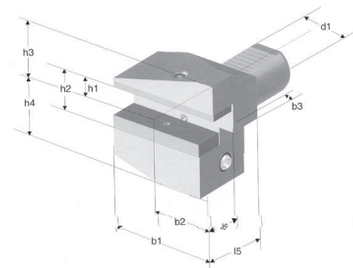


Tech. Code	d1 mm	b1 mm	b2 mm	b3 mm	h1 mm	h2 mm	h3 mm	h4 mm	l5 mm	l6 mm
C501130	30	70	35	10	20/16	29	28	38	40	18
C501140	40	85	42.5	12.5	25/20	34	32.5	48	44	22

UPSIDE DOWN RADIAL TOOLHOLDERS VDI DIN 69880

ITEM: B3

Radial tool holder DIN 69880, right-hand, upside down, short, external coolant adduction.



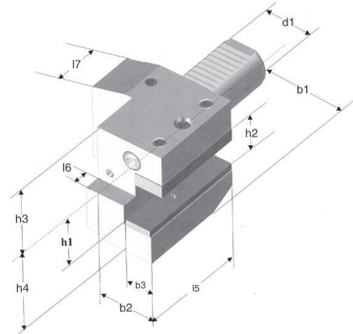
Tech. Code	d1 mm	b1 mm	b2 mm	b3 mm	h1 mm	h2 mm	h3 mm	h4 mm	l5 mm	l6 mm
C502030	30	70	35	10	20/16	29	28	38	40	18
C502040	40	85	42.5	12.5	25/20	34	32.5	48	44	22

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.

AXIAL TOOLHOLDERS VDI DIN 69880

ITEM: C1

Axial tool holder DIN 69880, right-hand, external coolant adduction.



Tech. Code	d1 mm	b1 mm	b2 mm	b3 mm	h1 mm	h2 mm	h3 mm	h4 mm	l5 mm	l6 mm	l7 mm
C503040	40	85	42.5	22	25/20	34	32.5	48	85	12.5	30

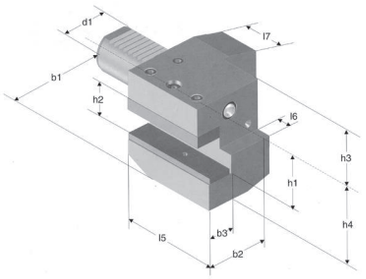
Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.

AXIAL TOOLHOLDERS VDI DIN 69880

ITEM: C2

Axial tool holder DIN 69880, left-hand, external coolant adduction.

Tech. Code	d1 mm	b1 mm	b2 mm	b3 mm	h1 mm	h2 mm	h3 mm	h4 mm	l5 mm	l6 mm	l7 mm
C503130	30	76	41	18	20/16	29	28	38	70	10	30
C503140	40	90	47.5	22	25/20	34	32.5	48	85	12.5	30



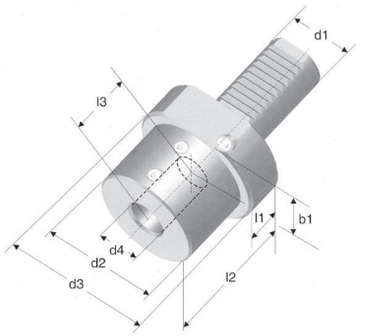
AXIAL TOOLHOLDERS VDI FOR DRILLING DIN 69880

ITEM: E1

Tool holder for drilling tools, internal coolant.

Tech. Code	d1 mm	d2 mm	d3 mm	d4 mm	b1 mm	l1 mm	l2 mm	l3 mm
C50604020	40	40	83	20	32.5	67	22	54
C50604025	40	45	83	25	32.5	75	22	59
C50604032	40	52	83	32	32.5	75	22	63
C50604040	40	60	83	40	32.5	90	22	73

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.



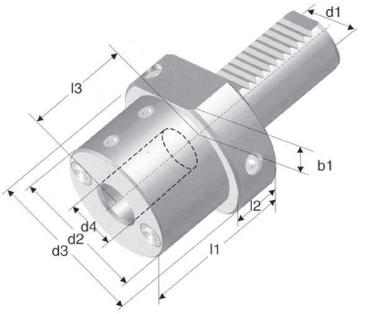
AXIAL TOOLHOLDERS VDI FOR BORING BAR DIN 69880

ITEM: E2

Tool holder for boring bar DIN 69880, external coolant.

Tech. Code	d1 mm	d2 mm	d3 mm	d4 mm	b1 mm	l1 mm	l2 mm	l3 mm
C5070408	40	55	83	8	32.5	75	22	61
C50704010	40	55	83	10	32.5	75	22	61
C50704012	40	55	83	12	32.5	75	22	61
C50704016	40	55	83	16	32.5	75	22	61
C50704020	40	55	83	20	32.5	75	22	61
C50704025	40	55	83	25	32.5	75	22	61
C50704032	40	83	83	32	32.5	75	-	61
C50704040	40	83	83	40	32.5	90	-	76

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.



ER/EX COLLET CHUCKS VDI DIN 6499/B

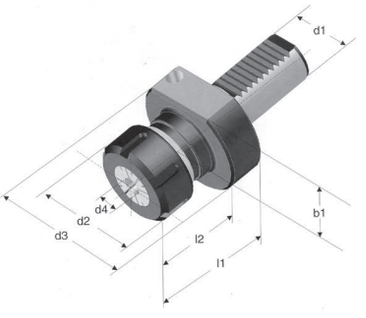
ITEM: E4

Collet holder DIN 69880, for collets of the type ER DIN 6499/B

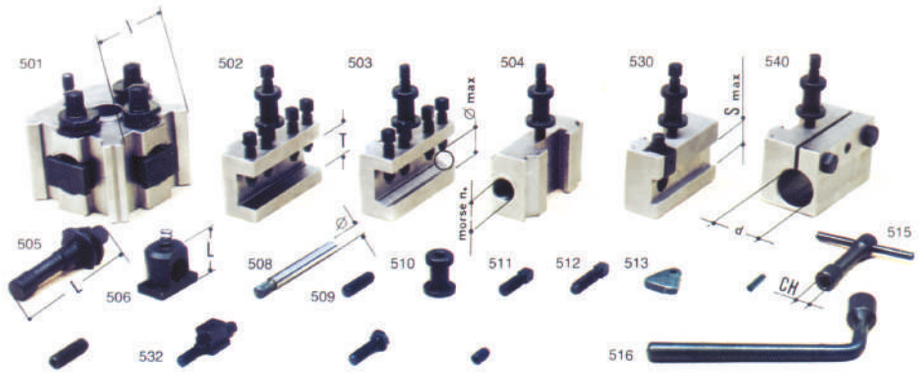
Tech. Code	d1 mm	d2 mm	d3 mm	d4 mm	b1 mm	l1 mm	l2 mm	ER
C50803032	30	50	68	2.5÷20	28	65	22	32
C50804032	40	50	83	2.5÷20	32.5	65	22	32
C50805032	50	50	98	2.5÷20	35	84	30	25

ACCESSORIES:
- Collets page C.25

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.



STATIC TOOL HOLDER TURRET COMPONENTS



ITEM: C5220

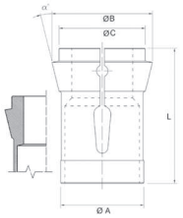
STATIC TOOL HOLDER TURRET COMPONENTS

TURRET TYPE		A	BR - BP	B	C
502 - Tool holder for tool bits	**Tech. Code**	**C5220502A**	**C5220502BRBP**	**C5220502B**	**C5220502C**
T Max	mm	20	25	32	32
503 - Tool holder for round shank	**Tech. Code**	**C5220503A**	**C5220503BRBP**	**C5220503B**	**C5220503C**
Diameter	mm	18	20	24	26
504 - Tool holder for morse taper shank	**Tech. Code**	**C5220504A**	**C5220504BRBP**	**C5220504B**	**C5220504C**
MK	mm	2	3	3	4
505 - Eccentric clamp bolt	**Tech. Code**	**C5220505A**	**C5220505BRBP**	**C5220505B**	**C5220505C**
L	mm	90	108	123	141
506 - Draw-in block with spring	**Tech. Code**	**C5220506A**	**C5220506BRBP**	**C5220506B**	**C5220506C**
L	mm	31	37	42	47
508 - Dowel pin	**Tech. Code**	**C5220508A**	**C5220508BRBP**	**C5220508B**	**C5220508C**
Diameter	mm	10	10	12	14
509 - Stud	**Tech. Code**	**C5220509A**	**C5220509BRBP**	**C5220509B**	**C5220509C**
Thread	mm	3/8"	3/8"	7/16"	1/2"
510 - Adjustment sleeve	**Tech. Code**	**C5220510A**	**C5220510BRBP**	**C5220510B**	**C5220510C**
Thread	mm	3/8"	3/8"	7/16"	1/2"
511 - Sleeve locking screw	**Tech. Code**	**C5220511A**	**C5220511BRBP**	**C5220511B**	**C5220511C**
Thread	mm	3/8"	3/8"	7/16"	1/2"
512 - Tool locking screw	**Tech. Code**	**C5220512A**	**C5220512BRBP**	**C5220512B**	**C5220512C**
Thread	mm	3/8"	3/8"	7/16"	1/2"
515 - Square socket wrench	**Tech. Code**	**C5220515A**	**C5220515BRBP**	**C5220515B**	**C5220515C**
Ch	mm	9	9	10	12
516 - Hexagonal socket wrench	**Tech. Code**	**C5220516A**	**C5220516BRBP**	**C5220516B**	**C5220516C**
Size	mm	14	17	17	21
540 - Boring bar tool holder	**Tech. Code**	**C5220540A**	**C5220540BRBP**	**C5220540B**	**C5220540C**
Diameter	mm	25	32	40	50

BA SINGLE CONE COLLETS WITH SMOOTH BORE

ITEM: C5084

Impulse type collet in galvanized steel, tempered and adjusted to be used in chucks either for the main head (main spindle) or the counter head (sub spindle). For milling bars and reinforcement. Model with smoot bore.



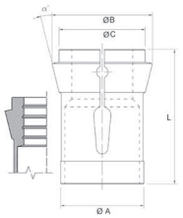


Tech. Code	Model	Ø mm	A mm	B mm	C mm	L mm	α
C508436T03	BA36-171E	3 - 36	42	55	42	94	15°
C508442T03	BA42-173E	3 - 42	48	60	50	94	15°
C508452T03	BA52-177E	3 - 52	58	70	60	94	15°
C508460T03	BA60-185E	3 - 60	66	84	73	110	15°
C508470T03	BA70	3 - 70	80	98	85	115	15°

BA SINGLE CONE COLLETS WITH RIBBED BORE

ITEM: C5085

Impulse type collet in galvanized steel, tempered and adjusted to be used in chucks either for the main head (main spindle) or the counter head (sub spindle). For milling bars and reinforcement. Model with ribbed bore.

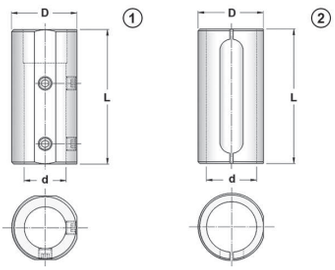




Tech. Code	Model	Ø mm	A mm	B mm	C mm	L mm	α
C508536T08	BA36-171E	8 - 36	42	55	42	94	15°
C508542T08	BA42-173E	8 - 42	48	60	50	94	15°
C508552T08	BA52-177E	8 - 52	58	70	60	94	15°
C508560T08	BA60-185E	8 - 60	66	84	73	110	15°
C508570T08	BA70	8 - 70	80	98	85	115	15°

UNIVERSAL REDUCTION SLEEVES

ITEM: C5110

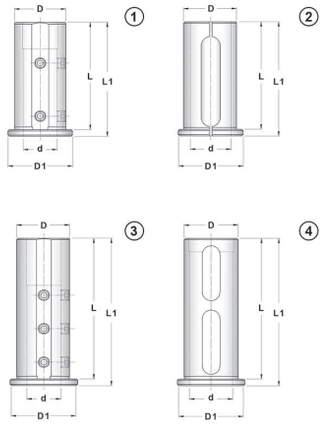


Tech. Code	D mm	d mm	L mm	Figure
C5110208	20	8	60	1
C51102010	20	10	60	1
C51102012	20	12	60	1
C5110258	25	8	60	1
C51102510	25	10	60	1
C51102512	25	12	60	1
C5110328	32	8	70	1
C51103210	32	10	70	1
C51103212	32	12	70	1
C51103216	32	16	70	1

Tech. Code	D mm	d mm	L mm	Figure
C51103220	32	20	70	1
C51103225	32	25	70	2
C51104016	40	16	80	1
C51104020	40	20	80	1
C51104025	40	25	80	1
C51105012	50	12	90	1
C51105016	50	16	90	1
C51105020	50	20	90	1
C51105025	50	25	90	1
C51105032	50	32	90	1

HEADED REDUCTION SLEEVES

ITEM: C5115



Tech. Code	D mm	d mm	D1 mm	L mm	L1 mm	Fig.
C5115256	25	6	33	60	65	1
C5115258	25	8	33	60	65	1
C51152510	25	10	33	60	65	1
C51152512	25	12	33	60	65	1
C51152516*	25	16	33	60	65	2
C5115326	32	6	40	85	90	3
C5115328	32	8	40	85	90	3
C51153210	32	10	40	85	90	3
C51153212	32	12	40	85	90	3
C51153216	32	16	40	85	90	3
C51153220	32	20	40	85	90	3
C51153225*	32	25	40	85	90	4
C5115408	40	8	50	105	110	3
C51154010	40	10	50	105	110	3
C51154012	40	12	50	105	110	3

Tech. Code	D mm	d mm	D1 mm	L mm	L1 mm	Fig.
C51154016	40	16	50	105	110	3
C51154020	40	20	50	105	110	3
C51154025	40	25	50	105	110	3
C51154032*	40	32	50	105	110	4
C51155012	50	12	60	125	130	3
C51155016	50	16	60	125	130	3
C51155020	50	20	60	125	130	3
C51155025	50	25	60	125	130	3
C51155032	50	32	60	125	130	3
C51155040*	50	40	60	125	130	4
C51156025	60	25	70	135	140	3
C51156032	60	32	70	135	140	3
C51156040	60	40	70	135	140	3
C51156050	60	50	70	135	140	4

*** Bush with carving**

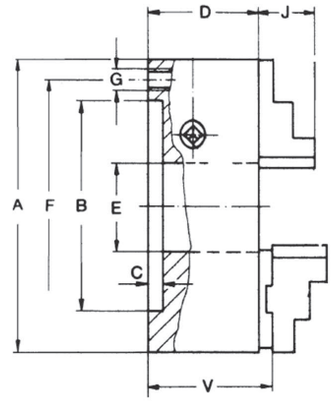
SELF-CENTERING CHUCKS 3 JAWS

ITEM: DURO M/3

Manually operated self-centering chuck equipped with a flat spiral and a through hole. Mainly used on traditional horizontal and vertical lathes, milling machines and rotary tables. All-steel body, designed to ensure optimal accessibility. Reduced weight and level of inertia. High concentricity accuracy up to 0.02. Available in versions with cylindrical connection, short cone connection, Camlock, bayonet. Burnished jaws, ground under preload on the chuck to obtain greater precision.

APPLICATION:
Clamping of asymmetrical components for turning and milling

EQUIPMENT:
Set of claws for inside and outside or set of base claws and reversible inserts operating key and fixing screws





Tech. Code	A mm	B mm	E mm	C mm	D mm	V mm	J mm	G mm	F mm	Torque Nm	Force kN	Revolution min/max
C6230100	100	70	20	3	50	53.6	18	3 x M8	83	60	27	6300
C6230125	125	95	32	4	56	61	22.5	3 x M8	108	80	31	5500
C6230160	160	125	42	4	65	69.7	26	3 x M10	140	110	47	4600
C6230200	200	160	55	4	73.5	80.2	32.5	3 x M10	176	140	55	4000
C6230250	250	200	76	5	82	89.9	40	3 x M12	224	150	63	3000
C6230315	315	260	103	5	95	100.4	46	3 x M16	286	180	69	2300

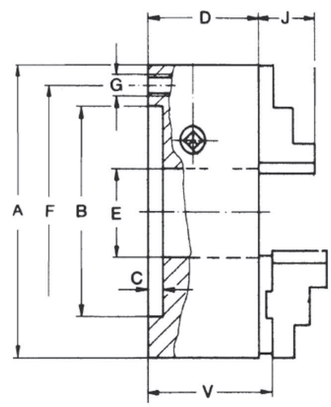
SELF-CENTERING CHUCKS 4 JAWS

ITEM: DURO M/4

Manually operated self-centering chuck equipped with a flat spiral and a through hole. Mainly used on traditional horizontal and vertical lathes, milling machines and rotary tables. All-steel body, designed to ensure optimal accessibility. Reduced weight and level of inertia. High concentricity accuracy up to 0.02. Available in versions with cylindrical connection, short cone connection, Camlock, bayonet. Burnished jaws, ground under preload on the chuck to obtain greater precision.

APPLICATION:
Clamping of asymmetrical components for turning and milling.

EQUIPMENT:
Set of claws for inside and outside or set of base claws and reversible inserts operating key and fixing screws





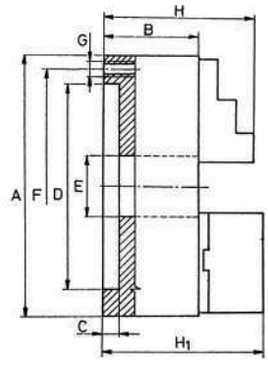
Tech. Code	A mm	B mm	E mm	C mm	D mm	V mm	J mm	G mm	F mm	Torque Nm	Force kN	Revolution min/max
C6231100	100	70	20	3	50	53,6	18	3 x M8	83	60	27	6300
C6231125	125	95	32	4	56	61	22,5	3 x M8	108	80	31	5500
C6231160	160	125	42	4	65	69,7	26	3 x M10	140	110	47	4600
C6231200	200	160	55	4	73.5	80,2	32,5	3 x M10	176	140	55	4000
C6231250	250	200	76	5	82	89,9	40	3 x M12	224	150	63	3000
C6231315	315	260	103	5	95	100,4	46	3 x M16	286	180	69	2300

DOUBLE GUIDED SELF-CENTERING CHUCKS 3 JAWS

ITEM: 263

Self-centering chucks, art. 263 with 3 double guided jaws. Flange connection. Cast iron body.

EQUIPMENT:
Supplied with internal claws series and external claw series (DIN 6350 stepped and hardened), operating key and fixing screws.





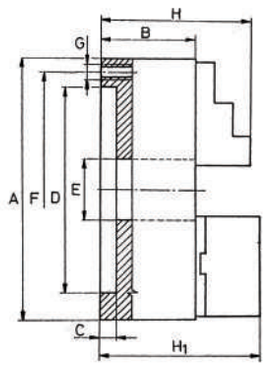
Tech. Code	A mm	B mm	C mm	D - H7 mm	E mm	F mm	G mm	H mm	H1 mm	Weight kg
C6232160	160	74,5	6,5	125	42	140	6xM10	99,5	117,6	9,7
C6232200	200	83	6,5	160	55	176	6xM10	112	128	17,2
C6232230	230	83	6,5	191	80	208	6xM12	112	130	22
C6232315	315	110	6,3	260	103	286	6xM16	154	168	50

DOUBLE GUIDED SELF-CENTERING CHUCKS 3 JAWS AND 3 CLAMPS

ITEM: 264

Self-centering chucks, art 264 with 3 double guided jaws. Flange connection. Cast Iron body.

EQUIPMENT:
Supplied with internal claws series and external claw series (DIN 6350 stepped and hardened), operating key and fixing screws, jaws and soft blocks.





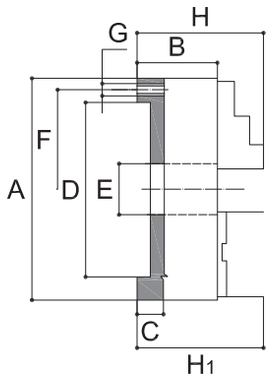
Tech. Code	A mm	B mm	C mm	D - H7 mm	E mm	F mm	G mm	H mm	H1 mm	Weight kg
C6233200	200	83	5,5	160	55	176	6xM10	112	128	17,2
C6233230	230	83	5,5	191	80	208	6xM10	112	130	22
C6233250	250	96	6	200	76	224	6xM12	131	149	29,3

DOUBLE GUIDED SELF-CENTERING CHUCKS 4 JAWS

ITEM: 273

Self-centering chuck, art 273 with 4 double guided jaws. Flange connection. Cast Iron body.

EQUIPMENT:
Supplied with internal claws series and external claw series(DIN 6350 stepped and hardened), operating key and fixing screws.



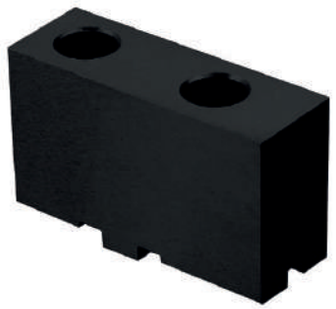


Tech. Code	A mm	B mm	C mm	D - H7 mm	E mm	F mm	G mm	H mm	H1 mm	Weight kg
C6234200	200	83	6,5	160	55	176	6xM10	112	128	19
C6234250	250	96	6	200	76	224	6xM12	131	149	33
C6234315	315	110	6,3	260	103	286	6xM16	154	168	60

SOFT TOP JAWS SERIES

ITEM: 317/337

Tech. Code	Dimension mm	For chucks
C62353125	125	C6238125
C62353160	160	C6232160/C6238160
C62353200	200	C6232200/C6238200
C62353230	230	C6232230
C62353250	250	C6238250
C62353315	315	C6232315/C6238315
C62354125	125	C6281125
C62354160	160	C6281160
C62354200	200	C6234200/C6281200
C62354250	250	C6234250/C6281250
C62354315	315	C6234315/C6281315



MASTER JAWS DOUBLE GUIDED SERIES

ITEM: 268/278

Tech. Code	Dimension mm	For chucks
C62363160	160	C6232160
C62363200	200	C6232200
C62363230	230	C6232230
C62363315	315	C6232315
C62364200	200	C6234200
C62364250	250	C6234250
C62364315	315	C6234315



SPARE PARTS FOR DOUBLE GUIDED SELF-CENTERING CHUCKS

ITEM: 267/277

Tech. Code	Dimension mm	For chucks
C62373160	160	C6232160
C62373200	200	C6232200
C62373230	230	C6232230
C62373315	315	C6232315
C62374200	200	C6234200
C62374250	250	C6234250
C62374315	315	C6234315

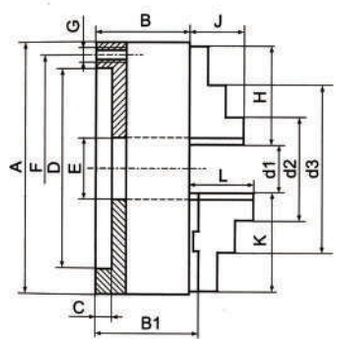


SELF-CENTERING CHUCKS 3 JAWS

ITEM: 301

Keyless chuck, art. no. 301, 3 jaw single guide.
Flanged coupling. Cast iron body.

SUPPLIED:
Supplied with inside jaw set and outside jaw set (DIN 6350 stepped and hardened)
spanner and fixing screws.





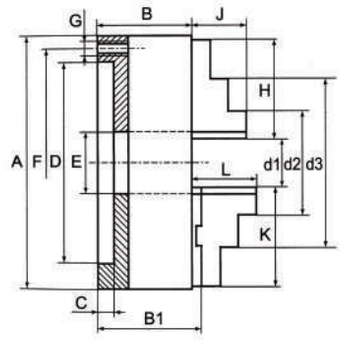
Tech. Code	A mm	B mm	B1 mm	C mm	D - H7 mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	Weight kg
C6238125	125	56	60,8	4	95	32	108	3 x M8	51	20	56	40	4,8
C6238160	160	64,5	69,3	4	125	42	140	3 x M10	70	32	67	43	8,5
C6238200	200	75	79,8	4	160	55	176	3 x M10	85	29	80	45	16
C6238250	250	85	88,8	5	200	76	224	3 x M12	105	34	95	53	26
C6238315	315	94	99,1	5	260	103	286	3 x M16	125	43	110	57	43

SELF-CENTERING CHUCKS 4 JAWS

ITEM: HOL302

Self-centering chuck, art HOL302 with 4 jaws simple guide. Flange connection. Cast Iron body.

EQUIPMENT:
Supplied with internal claws series and external claw series (DIN 6350 stepped and hardened), operating key and fixing screws.





Tech. Code	A mm	B mm	B1 mm	C mm	D - H7 mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	Weight kg
C6281125	125	56	60,8	4	95	32	108	3 x M8	51	20	56	40	4,8
C6281160	160	64,5	69,3	4	125	42	140	3 x M10	70	32	67	43	8,5
C6281200	200	75	79,8	4	160	55	176	3 x M10	85	29	80	45	16
C6281250	250	85	88,8	5	200	76	224	3 x M12	105	34	95	53	26
C6281315	315	94	99,1	5	260	103	286	3 x M16	125	43	110	57	43

MASTER JAWS SERIES

ITEM: 318

Tech. Code	Dimension mm	For chucks
C62393125	125	C6238125
C62393160	160	C6238160
C62393200	200	C6238200
C62393250	250	C6238250
C62393315	315	C6238315



MASTER JAWS SERIES

ITEM: 338

Tech. Code	Dimension mm	For chucks
C62823125	125	C6281125
C62823160	160	C6281160
C62823200	200	C6281200
C62823250	250	C6281250
C62823315	315	C6281315



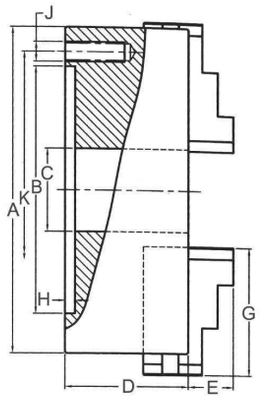
SIMPLE GUIDE SELF-CENTERING CHUCKS 3 JAWS

ITEM: C6243

3 + 3 JAWS FOR INTERNAL/EXTERNAL

Flange, cast iron body, hardened steel jaws and sliding parts, supplied with operating key.

EQUIPMENT:
Supplied with internal claws series and external claw series (DIN 6350 stepped and hardened), operating key and fixing screws.





Tech. Code	A mm	B H7 mm	C mm	D mm	E mm	G mm	H mm	J mm	K mm	Wrench
C6243160	160	130	45	65	30	70	5	M10	142	11
C6243200	200	165	65	75	29	85	6	M10	180	11
C6243250	250	206	80	85	34	105	6	M12	226	14
C6243315	315	260	100	94	43	125	7	M16	285	14

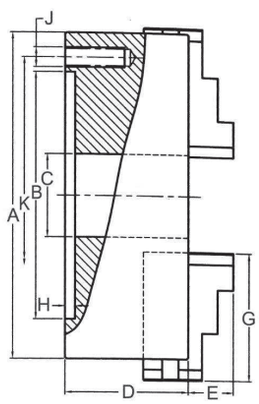
SIMPLE GUIDE SELF-CENTERING CHUCKS 4 JAWS

ITEM: C6244

4 + 4 JAWS FOR INTERNAL/EXTERNAL

Flange, cast iron body, hardened steel jaws and sliding parts, supplied with operating wrench.

EQUIPMENT:
Supplied with internal jaws series and external jaws series (DIN 6350 stepped and hardened), operating wrench and fixing screws.



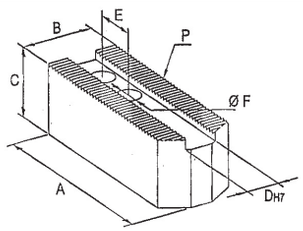


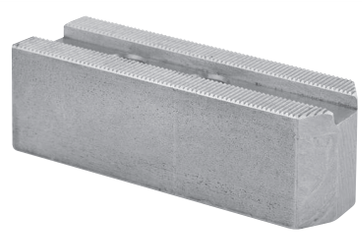
Tech. Code	A mm	B H7 mm	C mm	D mm	E mm	G mm	H mm	J mm	K mm	Wrench
C6244160	160	130	45	65	30	70	5	M10	142	11
C6244200	200	165	65	75	29	85	6	M10	180	11
C6244250	250	206	80	85	34	105	6	M12	226	14
C6244315	315	260	100	94	43	125	7	M12	285	14

SOFT JAWS - 1,5 X 60°

ITEM: MORSETTI STANDARD

Standard jaws for self-centering Kitagawa chucks.



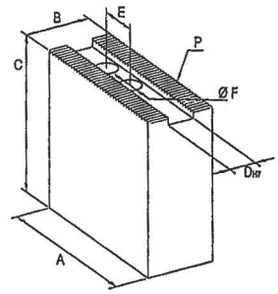


Tech. Code	Self-centering chucks Ø mm	A mm	B mm	C mm	D H7 mm	E mm	F Ø mm	P
C6270165	165	72	30	30	12	20	11	1.5 x 60°
C6270210	210	95	35	35	14	25	13	1.5 x 60°
C6270254	254	110	40	40	16	30	13	1.5 x 60°
C6270304	304	130	50	50	21	30	17	1.5 x 60°
C6270381	381 - 454	165	60	70	22	43	21	1.5 x 60°

SOFT JAWS

ITEM: MORSETTI ALTI

High version jaws for self-centering Kitagawa chucks.



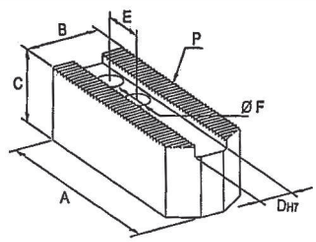


Tech. Code	Self-centering chucks Ø mm	A mm	B mm	C mm	D H7 mm	E mm	F Ø mm	P
C6275165	165	72	30	50	12	20	11	1.5 x 60°
C6275210	210	95	35	50	14	25	13	1.5 x 60°

SOFT JAWS

ITEM: MORSETTI STANDARD

Standard jaws for self-centering Autoblock SMW pneumatic - hydraulic chucks.



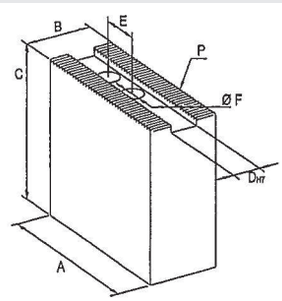


Tech. Code	Self-centering chucks Ø mm	A mm	B mm	C mm	D H7 mm	E mm	F Ø mm	P
C6280200210	200 - 210	90	40	40	17	23	13	1/16" x 90°
C6280200225	200 - 210 - 225	105	40	40	17	23	13	1/16" x 90°
C6280250X45	250	110	45	45	21	30	17	1/16" x 90°
C6280250X50	250	110	50	50	21	30	17	1/16" x 90°
C6280315	315	125	50	50	21	30	17	1/16" x 90°
C6280400	400	140	60	60	21	30	17	1/16" x 90°

SOFT JAWS

ITEM: MORSETTI ALTI

High version jaws for self-centering Autoblock SMW pneumatic - hydraulic chucks.





Tech. Code	Self-centering chucks Ø mm	A mm	B mm	C mm	D H7 mm	E mm	F mm
C6285165	165 - 175	70	35	50	14	16.5	1/16" x 90°
C6285200	200 - 210	90	40	60	17	23	1/16" x 90°

SELF-CENTERING CHUCK KEYS

ITEM: C6248

Standard series

Tech. Code	■ mm	Body length mm	Lever length mm
C624806	6	86	150
C624807	7	86	150
C624808	8	86	150
C624810	10	100	200
C624812	12	110	250
C624813	13	120	300
C624814	14	120	350
C624815	15	160	430
C624816	16	130	450
C624817	17	135	450
C624819	19	150	450



ITEM: C6249

Safety series.

Tech. Code	■ mm	Body length mm	Lever length mm
C624910	10	110	210
C624912	12	123	300
C624913	13	123	300
C624914	14	123	350
C624915	15	160	430
C624916	16	160	450
C624917	17	170	450

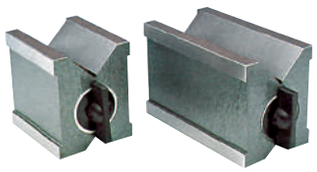


SINGLE MAGNETIC PRISMS

ITEM: C7600

Suitable for quick positioning during machining and testing operations. Supplied individually.

Tech. Code	Dimensions mm	Magnetic force V-shaped surface	Magnetic force flat surface	Ø housings mm
C7600080095	70 x 80 x 95	55 kg	80 kg	5 - 70
C7600130085	75 x 100 x 115	90 kg	110 kg	5 - 70

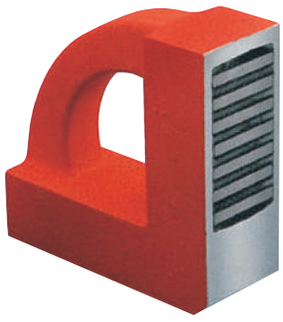


PERMANENT MAGNETIC SQUARES

ITEM: C7602

Suitable for a fast 90° workpiece positioning, ideal for welding and marking operations.

Tech. Code	Dimension mm	Magnetic force Kg
C7602150	150 x 150 x 50	100
C7602200	200 x 200 x 50	130
C7602300	300 x 300 x 50	150



Related products

OKS BEARINGS GREASE

Tech. Code	Consistency NLGI	Quantity kg	Package
H2204B	2	1	Can

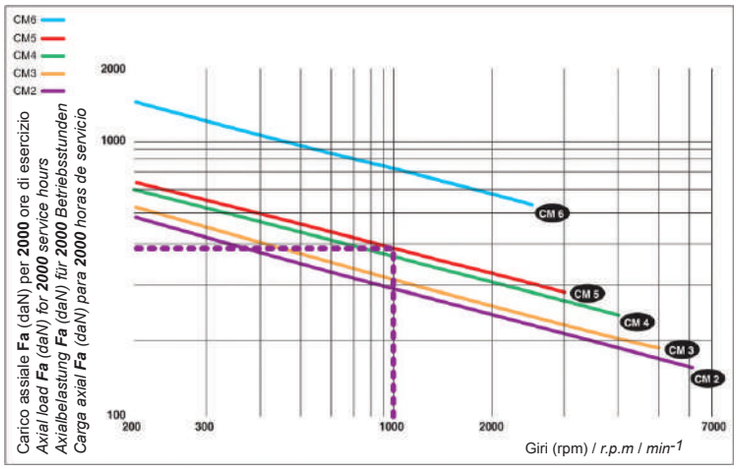


Products are available in CAP H

LIVE CENTRES FOR LIGHT LOAD OPERATIONS

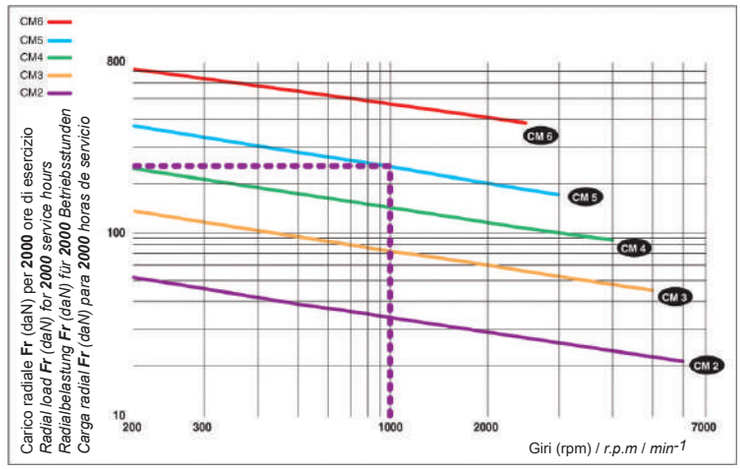
KERFOLG

Structured tailstocks with precision bearings recommended for lathes with light load machining and low speeds. Hardened and ground body and shaft, lubricated with special permanent grease.Rotary tailstocks with integral shaft.



AXEL LOAD

Example of live centre CM 5 a 1.000 Rpm/min
Axel load(Fa)= 376 (daN)



RADIAL LOAD

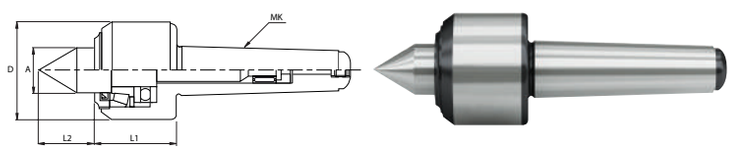
Example of live centre CM 5 a 1.000 Rpm/min
Radial load (Fr)= 230 (daN) - Fr x 2 = WEIGHT PRICE

LIVE CENTRES FOR LIGHT LOAD OPERATIONS

KERFOLG

ITEM: C6251

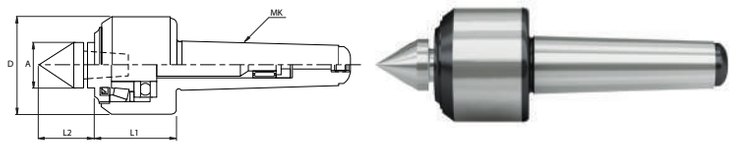
Revolving live centre with integral shaft.



Tech. Code	CM	Concentricity error	L1 mm	D mm	A mm	L2 mm	Capacity kg	Rpm/min	Weight kg
C6251CM2	2	0.005	42	48	22	25	110	6000	0.9
C6251CM3	3	0.005	43	55	22	27	280	5000	1.0
C6251CM4	4	0.005	51	61	29	38	460	4000	1.6
C6251CM5	5	0.005	55	80	38	45	780	3000	3.8

ITEM: C6252

Revolving live centre for interchangeable cusp.
Standard cusp C6255.

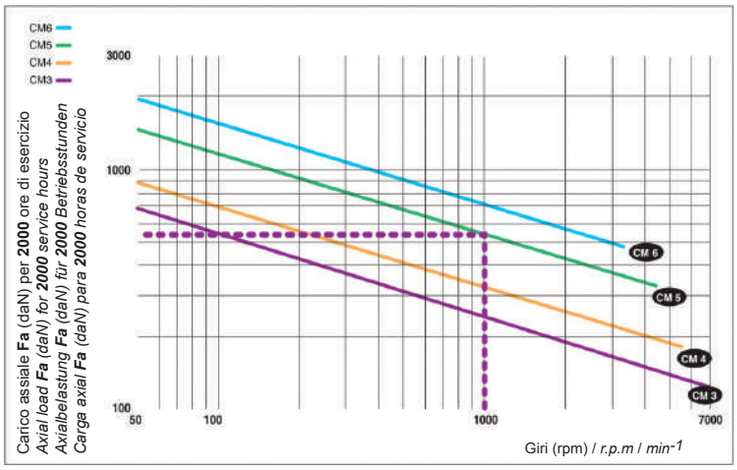


Tech. Code	CM	Concentricity error	L1 mm	D mm	A mm	L2 mm	Capacity kg	Rpm/min	Weight kg
C6252CM2	2	0.01	42	48	25	35	110	6000	0.9
C6252CM3	3	0.01	43	55	25	36	280	5000	1.0
C6252CM4	4	0.01	51	61	29	40	460	4000	1.6
C6252CM5	5	0.01	55	80	35	48	780	3000	3.8

LIVE CENTRES FOR MEDIUM LOAD OPERATIONS

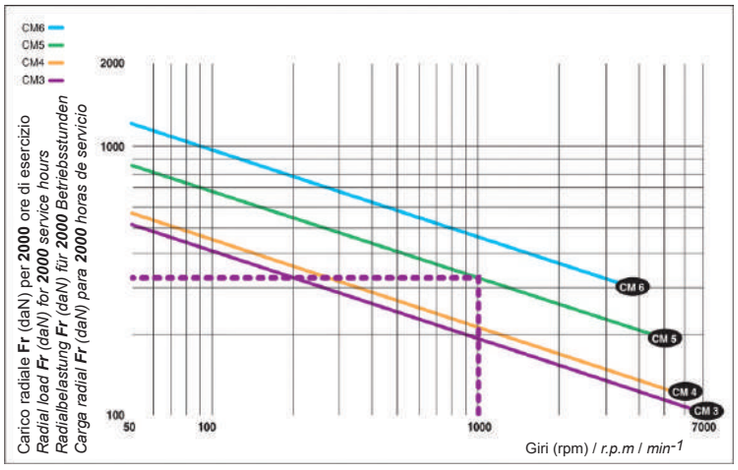
KERFOLG

Shaped live centre with precision bearings, reccomended for lathes with light and medium machinings and not high speeds. Hardened and rectified body and shaft, permanently lubricated with special grease.



AXEL LOAD

Example of live centre CM 5 a 1.000 Rpm/min
Axel load (Fa)= 546 (daN)



AXEL LOAD

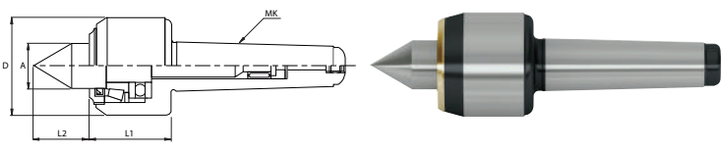
Example of live centre CM 5 a 1.000 Rpm/min
Axel load (Fr)= 320 (daN) - Fr x 2 = WEIGHT PRICE

LIVE CENTRES FOR MEDIUM LOAD

KERFOLG

ITEM: C6253

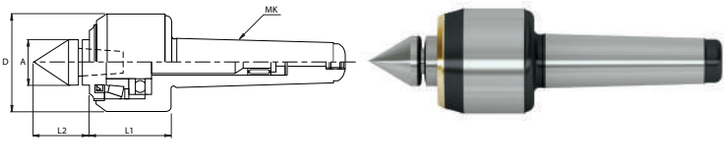
Revolving live centre with integral shaft.



Tech. Code	CM	Concetricity error	L1 mm	D mm	A mm	L2 mm	Capacity kg	Rpm/min	Weight kg
C6253CM3	3	0.005	47	55	22	28	640	7000	1.0
C6253CM4	4	0.005	55	61	29	40	700	5500	1.65
C6253CM5	5	0.005	63	80	38	48	1000	4500	3.55

ITEM: C6254

Revolving live centre with interchangeable cusp.
Standard cusp C6255.



Tech. Code	CM	Concetricity error	L1 mm	D mm	A mm	L2 mm	Capacity kg	Rpm/min	Weight kg
C6254CM3	3	0.01	47	55	25	37	640	7000	1.0
C6254CM4	4	0.01	55	61	29	40,5	700	5500	1.65
C6254CM5	5	0.01	63	80	35	46	1000	4500	3.55

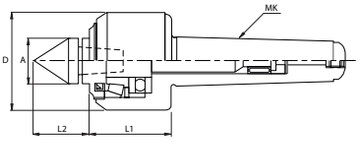
LIVE CENTRES IN WOODEN BOX WITH INTERCHANGEABLE TIPS KIT

KERFOLG

ITEM: C6269

Revolving live centre for light load operations with interchangeable tips in wooden box kit.

Composition standard:
- 1 live centre C6252
- 1 cusp C6255
- 1 cusp C6257
- 2 cusp C6259
- 1 cusp C6262
- 1 wrench for tips assembly





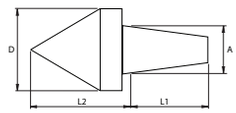
Tech. Code	CM	Concentricity error	L1 mm	D mm	A mm	L2 mm	Capacity Kg	Rpm/min	Weight kg
C6269CM3	3	0.01	43	55	25	36	280	5000	2.6
C6269CM4	4	0.01	51	61	29	40	460	4000	3.5
C6269CM5	5	0.01	55	80	35	48	780	3000	5.3

INTERCHANGEABLE TIPS FOR LIVE CENTRES

KERFOLG

ITEM: C6255

Interchangeable tips for live centre standard.

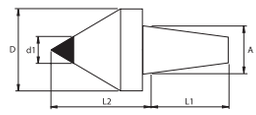




Tech. Code	For tailstocks	D mm	A mm	L1 mm	L2 mm
C6255CM3	CM2 - CM3	25	13.458	25	30
C6255CM4	CM4	29	15.303	27	33
C6255CM5	CM5	35	20.625	28	38

ITEM: C6256

Interchangeable tips for live centre with carbide point.

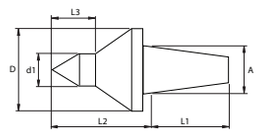




Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 mm	L2 mm
C6256CM3	CM2 - CM3	25	10	13.458	25	30
C6256CM4	CM4	29	12	15.303	27	33
C6256CM5	CM5	35	14	20.625	28	38

ITEM: C6257

Interchangeable tips for live centre with slim point and reduced diameter.

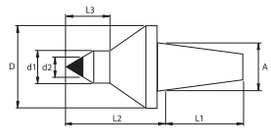




Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 m	L2 mm	L3 mm
C6257CM3	CM2 - CM3	25	12	13.458	25	36	16
C6257CM4	CM4	29	12	15.303	27	39	16
C6257CM5	CM5	35	15	20.625	28	44	19

ITEM: C6258

Interchangeable tips for live centre with carbide point and reduced diameter.

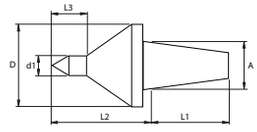




Tech. Code	For tailstocks	D mm	d1 mm	d2 mm	A mm	L1 mm	L2 mm	L3 mm
C6258CM3	CM2 - CM3	25	12	7	13.458	25	36	16
C6258CM4	CM4	29	12	8	15.303	27	39	16
C6258CM5	CM5	35	15	12	20.625	28	44	19

ITEM: C6259

Interchangeable tips for live centre with extra reduced point.





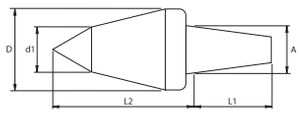
Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 mm	L2 mm	L3 mm
C6259CM3	CM2 - CM3	25	7	13.458	25	36	12
C6259CM4	CM4	29	7	15.303	27	39	12
C6259CM5	CM5	35	7	20.625	28	44	12

INTERCHANGEABLE TIPS FOR LIVE CENTRES

KERFOLG

ITEM: C6260

Extended interchangeable tips for live centre.

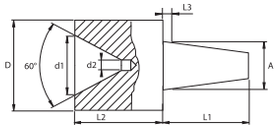




Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 mm	L2 mm
C6260CM3	CM2 - CM3	25	8	13.458	25	47
C6260CM4	CM4	29	10	15.303	27	52
C6260CM5	CM5	35	12	20.625	28	61

ITEM: C6261

Interchangeable tips truncated cone for live centre.

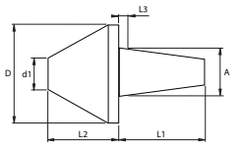




Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 mm	L2 mm	L3 mm
C6261CM3	CM2 - CM3	29	23	13.458	27	30	2
C6261CM4	CM4	29	23	15.303	29	30	2
C6261CM5	CM5	35	27	20.625	30	35	2

ITEM: C6262

Interchangeable tips for tubolar workpieces for live centre.





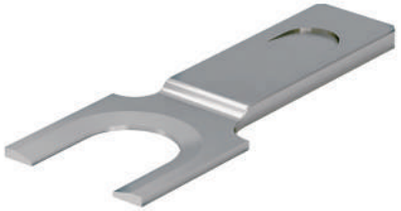
Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 mm	L2 mm	L3 mm
C6262CM3	CM2 - CM3	59	26	13.458	27	35	2
C6262CM4	CM4	59	26	15.303	29	35	2
C6262CM5	CM5	59	26	20.625	30	35	2

EXTRACTION WRENCH FOR TIPS

KERFOLG

ITEM: C6268

Tech. Code	For tailstocks
C6268CM2/3	CM2 - CM3
C6268CM4	CM4
C6268CM5	CM5

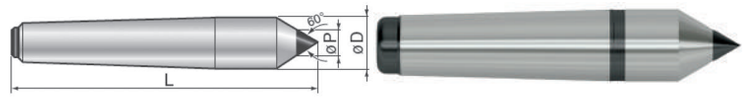


DEAD CENTRES

KERFOLG

ITEM: C6265

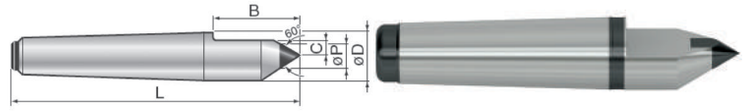
Dead centres at 60° in hardened steel with a hardened steel metal point.



Tech. Code	CM	D mm	L mm	P mm	Weight kg
C6265CM3	3	24.1	125	11	0.4
C6265CM4	4	31.6	160	14	0.75
C6265CM5	5	44.7	200	18	1.95

ITEM: C6266

Dead centres at 60° in hardened steel with a hardened steel metal point.



Tech. Code	CM	D mm	L mm	C mm	B mm	P mm	Weight kg
C6266CM3	3	24.1	125	3	38	11	0.4
C6266CM4	4	31.6	160	5	50	14	0.75
C6266CM5	5	44.7	200	7	63	18	1.95

FACE DRIVERS

KERFOLG

ITEM: C6295

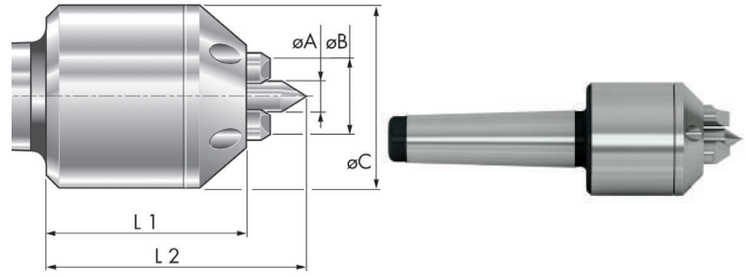
Face drivers with mechanical action.

Features:
- Hardened tempered steel
- Special balancing system of the claws
- Profile adapted for processing at both ends

Advantages:
- Possibility of processes on surfaces non perpendicular

Standard adaption:
- The face drivers are provided with the tip centered and neutral claws

Face driver CLAW-25 - used for 12-25 mm field of application



Tech. Code	Ø min mm	Ø max mm	Coupling	A mm	B mm	C mm	L1 mm	L2 mm	Weight kg	Description
C6295D30	12	25	D30 x 65	8	20	48	52	67	0.9	Face drivers
C6295CM3	12	25	CM3	8	20	48	52	67	0.9	Face drivers
C6295CM4	12	25	CM4	8	20	48	52	67	1.2	Face drivers

Tech. Code	Description	
C6295ARNT	Neutral claws spare parts - Right and left rotation	
C6295ARSX	Left claws spare parts - anti-clockwise rotation	
C6295ARDX	Right cloaws spare parts - Clockwise rotation	
C6295PUA	Adaptor for central tips spare parts	
C6295PUN	Center tip spare parts	

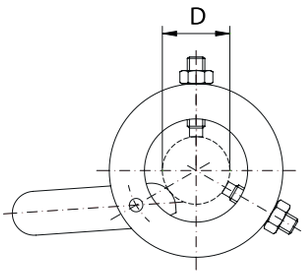
GRINDING CARRIERS IN STEEL

ITEM: C6287

The fast clamp grinding carriers are used to pull the work piece when it is fixed between two drills.
They are highly useful in mass grinding processes; in fact their high speed opening and closing allows a significant reduction in the time necessary for changing the piece on the machine tool, which also means cost savings.

Tech. Code	D mm
C6287000	0 - 8
C6287008	8 - 16
C6287016	16 - 24
C6287024	24 - 32
C6287032	32 - 40
C6287040	40 - 48
C6287048	48 - 56

Tech. Code	D mm
C6287056	56 - 64
C6287064	64 - 72
C6287072	72 - 80
C6287080	80 - 90
C6287090	90 - 100
C6287100	100 - 110
C6287110	110 - 120



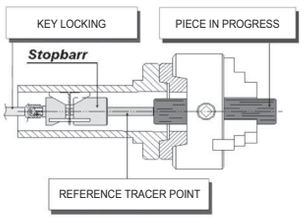


ADJUSTABLE STOP BARR DEVICES

ITEM: C6288

Device for maintaining constant references related to all the operations of turning. To mount the STOPBARR it is necessary to be introduced into the hollow shaft of the cable a lathe spindle, arranging in the position desired and to rotate anti-clockwise with the supplied key up to blocking securely. Other dimensions are available on request.

Tech. Code	Adjustment range mm	Adjustment range inc.
C6288032	32 - 41	1-1/4" - 1-5/8"
C6288041	41 - 52	1-5/8" - 2-1/16"
C6288051	51 - 62	2" - 2-7/16"
C6288062	62 - 82	2-7/16" - 3-1/4"



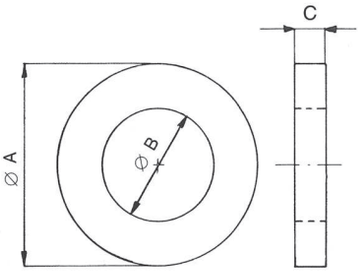


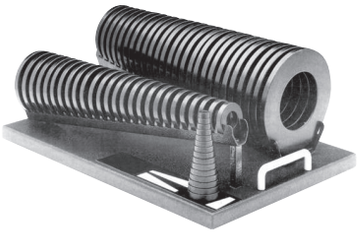
RINGS FOR TURNING JAWS

ITEM: C6290

Complete set of 67 increasing hardened rings, 2 mm from Ø 14 mm up to Ø 146 mm, unmatched jaw turning precision, highly effective due to the ring choice, reduced set-up time, a minor investment easy to depreciate.

Tech. Code	Ø A mm	Ø B mm	C mm
C629014-146	14 - 22	7	7
	24 - 40	12	7
	42 - 58	22	9
	60 - 66	30	9
	68 - 86	40	9
	88 - 106	50	9
	108 - 126	60	9
	128 - 146	80	9

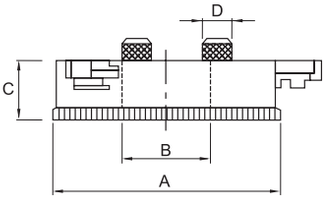




DEVICES FOR THE TURNING OF SOFT JAWS OUTLOCK

ITEM: C6292

Devices for the turning of soft jaws for manual chucks. Outlock ensures an high precision and concentricity of the gripping of the workpiece with a considerable reduction of the time of the preparation of the soft jaws.
Available on request orther versions and measurements NC for automatic chucks.





Tech. Code	Expansion with jaws normal mm	Expansion with jaws reversed mm	Max grip load Kg	A mm	B mm	C mm	D mm
C6292450	1 - 107	159 - 220	2.000 / 2.400	158	107	24	10



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Precision Modular
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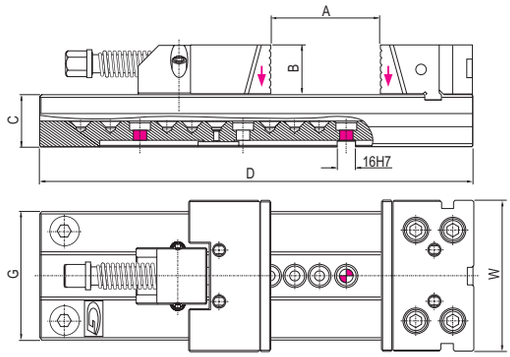


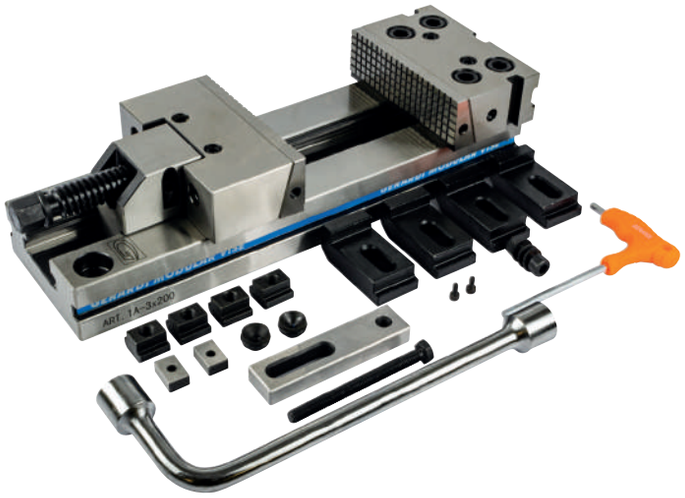
Tombstones, Modular Plates
and Zero Point System

CLAMPING VICES STANDARD FLEX

ITEM: 1A

Clamps with manual quick-change jaw plates, without the need for any tools (Comb system). Amplified and improved downward effect during clamping (the comb system pulls the workpiece against the ram, ensuring greater repositioning accuracy). Complete with: lateral stop; pair of positioning dowels (standard for 16 mm slot, other dimensions quoted on request); offset socket wrench; T-spanner. Ground and calibrated holes with F7 tolerance already included in the price.





Tech. Code	Mod mm	A mm	B mm	C mm	D mm	W mm	G mm	Weight kg
C6302150121	150 x 121	150	38	40	345	121	95	12.9
C6302200146	200 x 146	200	48	50	420	146	125	25.5
C6302200171	200 x 171	200	58	58	455	171	145	37
C6302300146	300 x 146	300	48	50	520	146	125	29
C6302300171	300 x 171	300	58	58	555	171	145	42
C6302400171	400 x 171	400	58	58	655	171	145	47
C6302500171	500 x 171	500	58	58	755	171	145	52

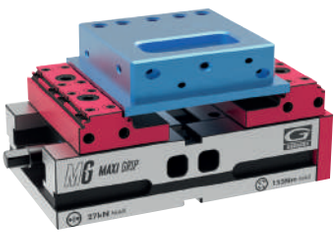
PRECISION MODULAR CLAMPING VICES MAXIGRIP

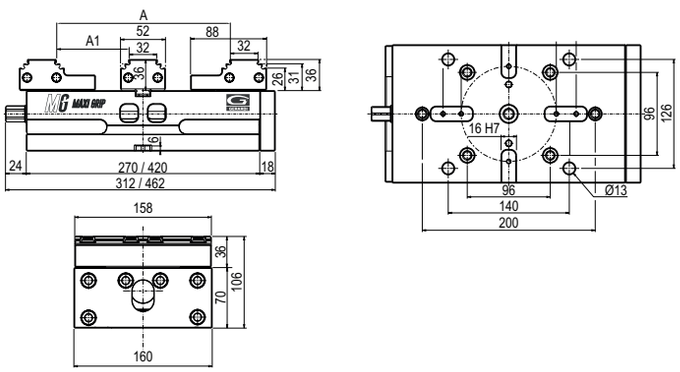
ITEM: 685 MAXIGRIP

The Maxigrip vice combines maximum clamping stability with the best versatility of use in a single product. Possibility to switch from the clamping of a single piece to double or self-centering mode quickly and intuitively for use on any type of machine, from 3 to 5 axes. Base body, slides and screw in case-hardened, tempered and ground steel. Compatibility with Zeropoint systems. Interchangeable GRIP inserts with different types of GRIP teeth suitable for clamping different materials.

Supplied with:
Pipe wrench
Pair of positioning dowels
Locating pin or Zero Point tie rod





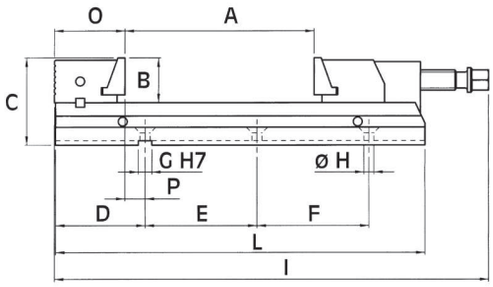


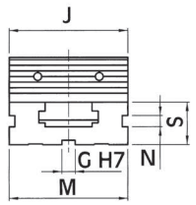
Tech. Code	A	A1
C63264X270	Min 19 / Max 200	Min 19 / Max 200
C63264X420	Min 19 / Max 350	Min 19 / Max 158

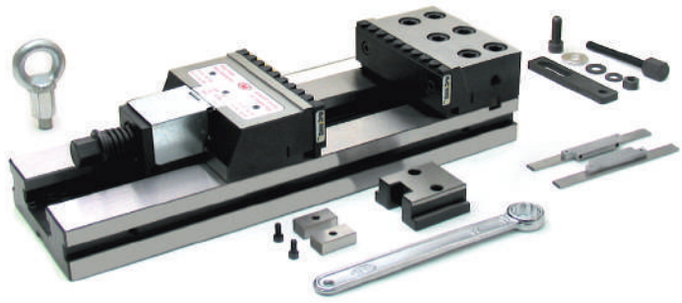
PRECISION VICE TCT

ITEM: C6310

TCT clamping equipment complete with wrench, work stop, rigid slide way, floating slide way (for raw workpiece), pair of positioning keys h6 (optionally), pair of CLAK parallels, cover for screw protection, eye bolt for lifting. Wooden packing case.
Supplied with Sintergrip standard jaw pair.





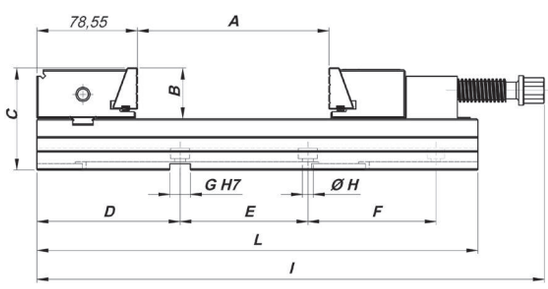


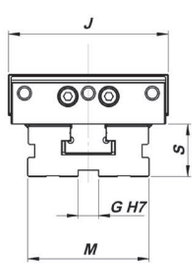
Tech. Code	Mod. mm	A mm	B mm	C mm	G mm	H mm	I mm	J mm	L mm	M mm	N mm	O mm	P mm	S mm	Weight kg
C6310110100	110 x 100	100	40	78	12	9	338	110	280	110	10	63	18	38	11,5
C6310110150	110 x 150	150	40	78	12	9	388	110	330	110	10	63	18	38	12,5
C6310150200	150 x 200	200	50	98	18	12,5	481	150	413	150	13	85	30	48	27
C6310150250	150 x 250	250	50	98	18	12,5	531	150	463	150	13	85	30	48	29
C6310150300	150 x 300	300	50	98	18	12.5	588	150	520	150	13	85	30	48	31.5
C6310200300	200 x 300	300	70	138	18	12,5	697	200	610	200	15,5	123	27	68	78

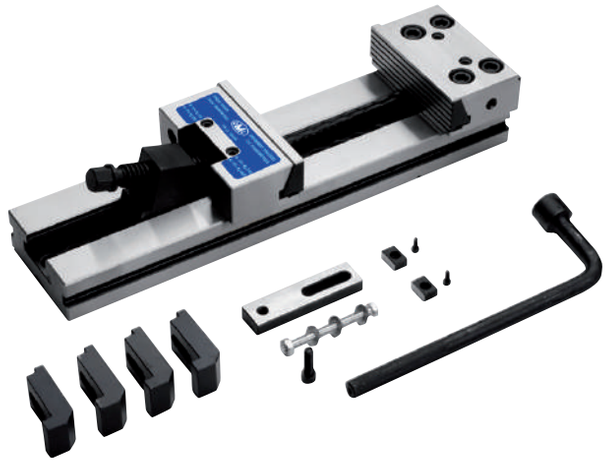
CLAMPING VICE LC

ITEM: C6325

LC clamping equipment complete with wrench, rigid slide way, work stop, pair of positioning keys h6, cover for screw protection, 4 clamps. Supplied in cardboard box.







Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	L mm	M mm	S mm	Weight kg
C6325125150	150	40	80	111	100	100	16	8.5	410	125	345	95	40	13
C6325150200	200	50	100	122.5	100	100	16	12.5	500	150	420	125	50	26
C6325150300	300	50	100	122.5	100	100	16	12.5	600	150	520	125	50	29
C6325200400	400	65	135	145	100	100	16	12.5	780	200	695	170	70	74

SINTERGRIP LOCKING SYSTEM

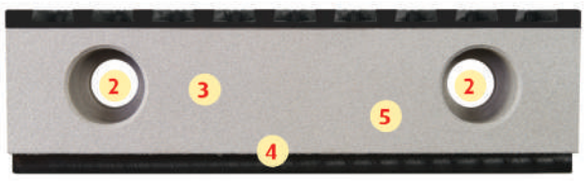
ITEM: C6335

Sintergrip is a safe locking method conceived to avoid work piece deformations. The system comprises two different elements: a pair of jaws and a set of carbide inserts featuring a special patented profiling so to efficiently lock the work piece avoiding any need for premachining or special clamping.
Sintergrip also allows to lock for as few millimeters as possible the work piece in the clamping unit (3,5 mm grip) therefore enabling:
- complete item machining in a single phase (especially for 5-axis units)
- a cost-effective approach to the use of raw materials, especially when these have a significant impact on the costs (aluminum, titanium, etc.)

ALL IN ONE
1. Shape of the self-centering seat of the inserts with dovetail interlocking
2. Fixing holes to the vise
3. Tungsten carbide coating for better grip in the second operation
4. Seat for Clak system
5. Made on steel with tensile strength ~ 1.080 N/mm² + nitriding.







Tech. Code	Description
C6335ALL150	Pair of jaws TC/MC 150 ALL IN ONE
C6335ALL200	Pair of jaws TC/MC 200 ALL IN ONE
C6335STD150	Pair of jaws TC/MC 150 STANDARD
C6335STD200	Pair of jaws TC/MC 200 STANDARD

SINTERGRIP INSERTS

ITEM: C6336

SinterGrip inserts are made in ISO P30:P35 carbide PVD-method coated.
The cutting edges of its teeth is patented, the lower angle being greater than the upper one, jointed by a special cone-shaped insert section, generate two ideal thrust forces ensure a pull-down effect on the clamped workpiece, allowing a decreased clamping force for significantly reduced deformation phenomena and vibration risks.



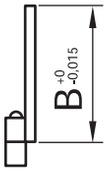
Tech. Code	Description
C6336ACC	Set of 10 Sintergrip STD inserts for steel
C6336ALU	Set of 10 Sintergrip STD inserts for aluminum
C6336TEMP	Set of 10 Sintergrip STD inserts for hardened steel

CLAK QUICK CHANGE MODULAR FLAT PARALLELS - SET OF 6 PAIRS

ITEM: C6340

Set of 6 parallel pairs.

Exclusive quick change modular parallel system.
Advantages:
• Allows quick change of parallel jaws
• Eliminates clamps and locks thanks to a self-lock system.
• Precision maintenance





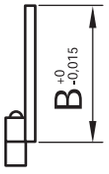
Tech. Code	For models	B mm
C6340SET150	TC 150x.../MC 150x....	20 - 25 - 30 - 35 - 40 - 45

CLAK QUICK CHANGE MODULAR FLAT PARALLELS - SET OF 10 PAIRS

ITEM: C6345

Set of 10 pairs of flat parallels.

Exclusive quick change modular parallel system.
Advantages:
• Allows quick change of parallel jaws
• Eliminates clamps and locks thanks to a self-lock system.
• Precision maintenance



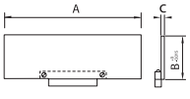


Tech. Code	For models	B mm
C6345SET150	TC 150x.../MC 150x....	10 - 15 - 20 - 25 - 30 - 35 - 40 - 43 - 45 - 47
C6345SET200	TC 200x.../MC 200x....	20 - 25 - 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65

CLAK QUICK CHANGE MODULAR FLAT PARALLELS

ITEM: C6375

Flat parallels





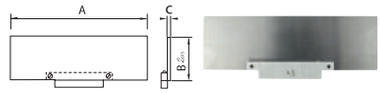
Tech. Code	B mm	A mm	C mm	For models
C637512	12	146	3	TC 150x... MC 150x....
C637515	15	146	3	TC 150x... MC 150x....
C637520	20	146	3	TC 150x... MC 150x....
C637525	25	146	3	TC 150x... MC 150x....
C637535	35	146	3	TC 150x... MC 150x....
C637540	40	146	3	TC 150x... MC 150x....
C637543	43	146	3	TC 150x... MC 150x....
C637545	45	146	3	TC 150x... MC 150x....
C637547	47	146	3	TC 150x... MC 150x....

CLAK QUICK CHANGE MODULAR FLAT PARALLELS

ITEM: C6380

Flat parallels

Tech. Code	B mm	A mm	C mm	For models
C638060	60	196	4	TC 200x... MC 200x....
C638065	65	196	4	TC 200x... MC 200x....



PRECISION PARALLELS

ITEM: C6398

Tempered and ground steel in pairs. Wooden packing case.

Pairs Heigth:
14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 - 35 - 40 - 45 - 50 mm

Tech. Code	Length mm	Thickness mm	Pairs n°
C6398150X10	150	10	14



IMG CLAMPING SYSTEM

ITEM: IMG 125-220/320

The IMG self-centring vices can be easily transformed into fixed or double clamping vices. The vices have a fully protected operating screw with a patented telescopic system. This innovation makes it possible to avoid having to remove the jaws in order to find the clamping position. The clamping force (70 Nm) combined with the patented Sintergrip system guarantees high performance. Parallels with quick change Clak System.

APPLICATIONS / ADVANTAGES:
- Highly precise self-centring clamping with maximum repeatability
- Compact design for greater accessibility and very large drainage slots for chippings
- Jaws with Sintergrip clamping inserts for minimum workpiece clamping depth without pre-machining (jaw width 125 mm)
- Interface for zero point systems APS / WPS and Lang 96 mm as standard



Self-centring clamp



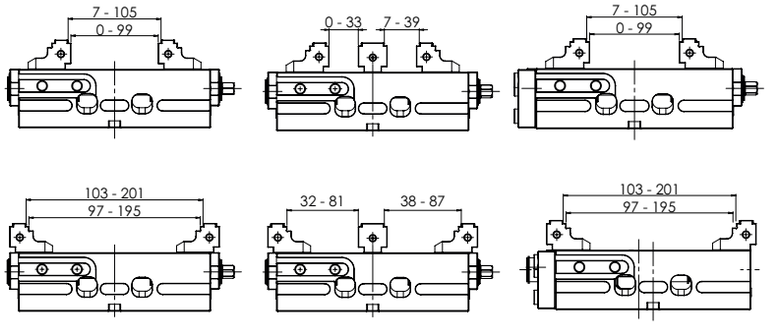
Single Clamp



Serraggio Singolo

STANDARD EQUIPMENT:
- 1 Wrench
- Jaws
- Sintergrip inserts

Clamping keys to be ordered separately



Tech. Code	Description
C6381125220	Vice IMG 125-220 with sintergrip jaws STD
C6381125320	Vice IMG 125-320 with sintergrip jaws STD
C6381125	Double clamping jaws IMG 125
C6381PIASTRA	Retainer plate IMG 125
C638112H6	Pair of positioning keys MG 12h6
C638114H6	Pair of positioning keys MG 14h6
C638116H6	Pair of positioning keys MG 16h6
C638118H6	Pair of positioning keys MG 18h6
C638120H6	Pair of positioning keys MG 20h6
C638122H6	Pair of positioning keys MG 22h6

PRECISION STEEL VICE

ITEM: EB105

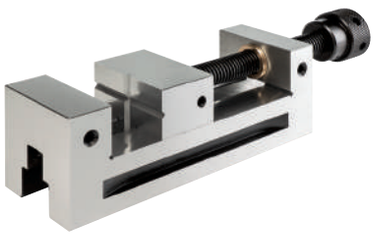
- Precision steel vice for accurate measurements and machine operations | Prism, in the moving section of the instrument, ground both vertically and horizontally



Tech. Code	Length mm	Opening mm	Width mm	Height mm	kg
C6396025X025	65	25	25	10	0,3
C6396036X040	100	40	36	20	1
C6396050X065	140	65	50	25	2
C6396063X085	175	85	63	32	4,1
C6396100X125	245	125	100	45	10
C6396125X160	285	160	125	50	21
C6396150X200	330	200	150	50	20

ITEM: EB110

- Precision steel vice for accurate measurements and machine operations | Prism, in the moving section of the instrument, ground both vertically and horizontally

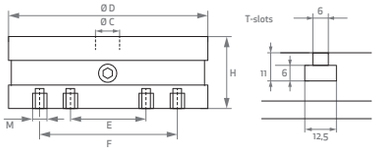


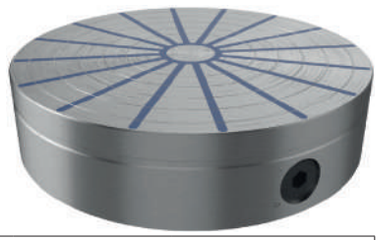
Tech. Code	Length mm	Opening mm	Width mm	Height mm	kg
C6397050X065	155	65	50	25	3
C6397063X085	190	85	63	32	3,8
C6397073X100	210	100	73	35	5
C6397088X125	250	125	88	40	11
C6397100X125	250	125	100	45	13

MAGNETIC PLATES

ITEM: C6500

Sturdy upper top deck with radial poles, 5 mm upper rework threshold. Double high-power neodymium magnetic system. Solid steel base equipped with a robust drive mechanism. Maximum holding force upt to 140 N/cm², depending on the size of the clamping system and the machined components. Supplied with switching key but without central hole.



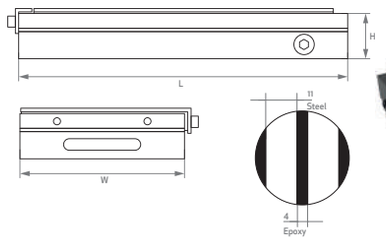


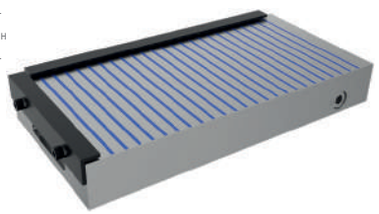
Use
Turning and grinding of circular components.

Tech. Code	D mm	H mm	C mm	M	E mm	F mm	n°of poles	Weight kg	Seal force N/cm²
C6500150	150	57	15	M6	80	120	10	7,3	140
C6500200	200	57	20	M6	110	180	12	13	140
C6500250	250	70	30	M6	140	220	16	25	140
C6500300	300	73	38	M8	180	260	16	37	140

ITEM: C6510

Top plate machined from one piece of steel, watertight construction. Nominal holding force 160 N/cm². Magnetic force distribution to the edges of the system. Minimal residual magnetism after switch-off. Cross poles, polar pitch 11 mm steel + 4 mm epoxy or brass. Grinding limit 10 mm, references on the plane indicate replacement intervals. Supplied with side and back stop, clamp set and Allen key.





Use
Drilling, planing, heavy grinding.

Tech. Code	W mm	L mm	H mm	Weight kg	Polar pitch	Seal force N/cm²
C6510250	150	250	50	14	T1511+4	160
C6510300	200	300	55	25	T1511+4	160
C6510400	200	400	55	33	T1511+4	160
C6510500	200	500	55	41	T1511+4	160

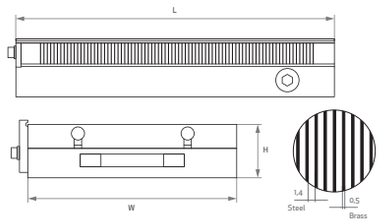
MAGNETIC PLATES

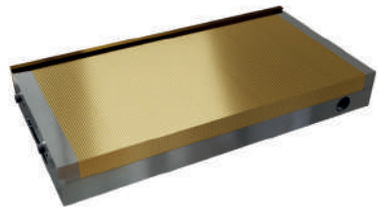
ITEM: C6520

Solid plane with transverse poles, polar pitch 1.4 mm steel and 0.5 mm brass. Duration (grinding limit): 7 mm. Neodymium magnetic system, nominal holding force 100 N/cm². Solid steel base with robust drive mechanism. Watertight construction. Supplied with side and rear striker, clamp set and Allen key.

Use
Precision grinding of thin and small workpieces as well as larger components. Recommended minimum workpiece size 4x4x1 mm. Also suitable for EDM.

Also available in stainless steel on request (special non-standard product)



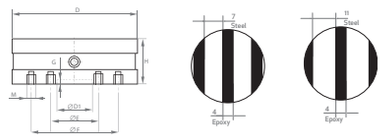


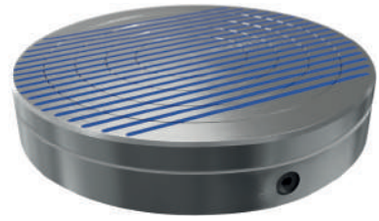
Tech. Code	W mm	L mm	H mm	Weight kg	Seal force N/cm²
C6520175	100	175	49	7	100
C6520255	130	255	49	13	100
C6520300	150	300	51	18	100
C6520450	150	450	51	28	100

ITEM: C6530

Sturdy steel uppler plate with parallel poles. Polar pitch: 7 mm steel + 4 mm epoxy resin or 11 mm steel + 4 mm epoxy resin. Duration (correction limit): 10 mm. Neodymium magnet system. Watertight structure. High nominal holding force up to 150 N/cm², depending on the size of the clamping system. Variable force with increasing/decreasing holding force. Supplied with Allen key.

Use
Turning and grinding. Optimum thickness of the workpiece: 8 and 12 mm





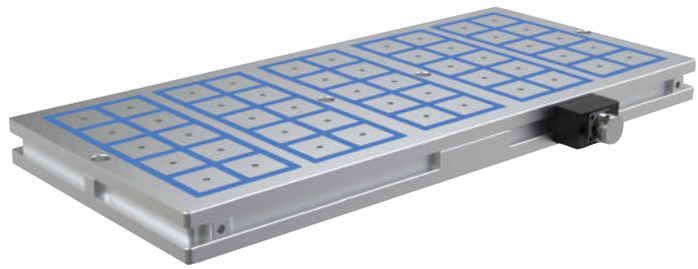
Tech. Code	D mm	H mm	D1 mm	G mm	E mm	F mm	M	Weight kg	Polar pitch	Seal force N/cm²
C6530200	200	57	60	5	110	180	M6	15	T117+4	120
C6530250	250	57	80	5	140	220	M6	22	T117+4	120
C6530300	300	57	150	6	180	260	M8	32	T1511+4	150
C6530350	350	57	170	6	220	300	M8	43	T1511+4	150
C6530400	400	57	200	8	260	340	M8	56	T1511+4	150

MAGNETIC PLATES

ITEM: 89

Magnetic plates extremely versatile for milling removals with medium-low thickness pieces.
Excellent grip when contouring.
Maximum performance at 40 mm height.

Technical features:
- Magnetic pole 50x50 mm
- Pole pitch 60 mm
- Hole in the pole: M8x12 mm useful
- 400N vertical polar force
- Recommended minimum thickness 20 mm
- Maximum performance thickness 30 mm
- Clamping system: minimum 2 poles



Tech. Code	B mm	L mm	Poles	Clamping force kN	Weight kg
C6630325370	370	325	20	80	42
C6630370635	370	635	40	160	90
C6630360790	360	790	50	200	120
C6630445790	445	790	60	240	150
C6630580790	580	790	80	320	170

CONTROL UNIT

ITEM: C6631

Single-channel control units.
89U 50: suitable for tops with a maximum of 99 50x50mm poles and a maximum of 49 75x75mm poles
89U 100: suitable only for max 60 pole 75x75mm top

Tech. Code	Item
C663150	89U 50
C6631100	89U 100



POLE PIECE

ITEM: 89

Pole piece Mobile and fixed.

Tech. Code	Type	l mm	p mm	h mm
C663250X15	Fisso	50	-	15
C663250X30	Fisso	50	-	30
C663250X50	Mobile	50	28/34	50

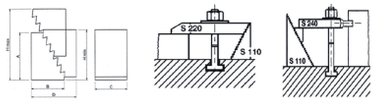


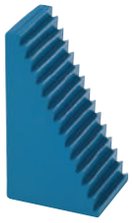
WODEX mro
Perfect ergonomics

TOOTHED SUPPORTS

ITEM: C7200

Hardened painted steel.





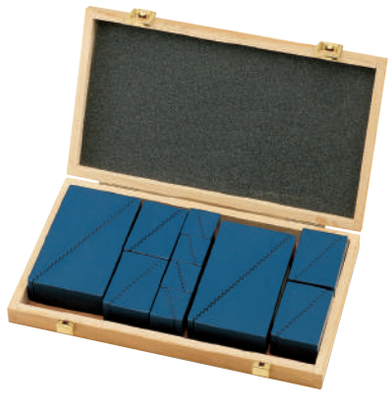
Tech. Code	A mm	B mm	C mm	D mm	H min. mm	H max. mm
C720031,5	31.5	22	30	38	31.5	53
C720064,5	64.5	36.5	30	70	64.5	105
C7200128	128	68	30	132	128	208

TOOTHED SUPPORT SET

ITEM: C7210

Supplied in wooden box.

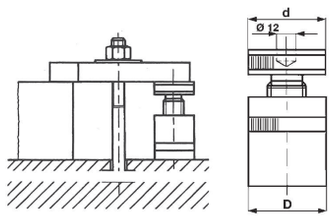
Tech. Code	Model	Weight kg
C7210SET24	8 pcs. N720031,5 8 pcs. N720064,5 4 pcs. N7200128	8.5



SCREW SUPPORTS

ITEM: C7250

Hardened painted steel.



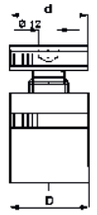


Tech. Code	Min. height mm	Max height mm	d mm	D mm	F max. kN
C725050	40	50	34	34	20
C725070	54	70	50	50	60
C7250100	73	100	50	50	60
C7250140	100	140	65	70	105
C7250210	140	210	70	80	180
C7250300	190	300	80	100	360

SCREW SUPPORTS WITH MAGNETIC BASE

ITEM: C7260

The magnetic base allows this item to be used as an adjustable vertical or horizontal support.
Base material: “ERGAL” aluminium alloy.



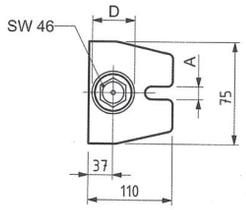


Tech. Code	Min. height mm	Max height mm	d mm	D mm	F max. kN
C72605764	57	67	50	50	30
C72607584	67	82	50	50	30
C726085112	85	115	50	50	30

SCREW SUPPORTS - “ATLAS” TYPE

ITEM: C7270

Hardened painted steel. Trapezoidal thread 30x6.



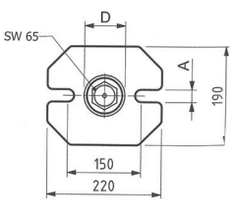


Tech. Code	Min. height mm	Max height mm	A mm	D mm	F max. kN
C7270140	100	140	18	50	60
C7270200	140	200	18	50	60
C7270320	200	320	22	50	40
C7270550	320	550	22	50	25

SCREW SUPPORTS HEAVY TYPE

ITEM: C7280

Hardened painted steel. Trapezoidal thread 40x6.





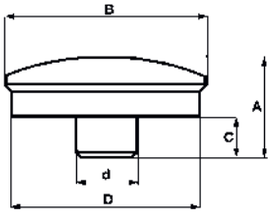
Tech. Code	Min. height mm	Max height mm	A mm	D mm	F max. kN
C7280300	200	300	26	70	80
C7280460	280	460	26	70	60
C7280750	430	750	26	70	50

CONVEX CAPS

ITEM: C7300

Hardened burnished steel.

Used on items S120-S121-S122-S130-S131.





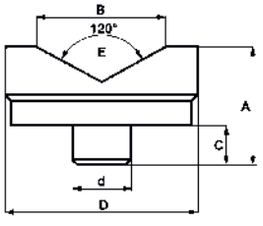
Tech. Code	A mm	B mm	C mm	D mm	d mm
C730035	18	37	8	35	12

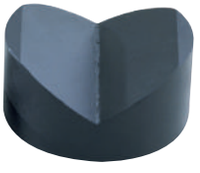
“V” GROOVE CAPS

ITEM: C7310

Hardened burnished steel.

Used on items S120-S121-S122-S130-S131.



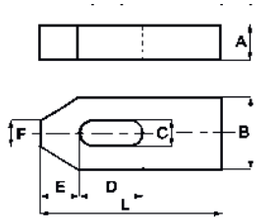


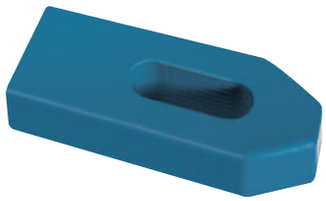
Tech. Code	A mm	B mm	C mm	D mm	d mm
C731045	23	32	8	45	12
C731065	38	56	8	65	12

STANDARD CLAMPS

ITEM: C7400

Hardened painted steel. R > 700 N/mm².



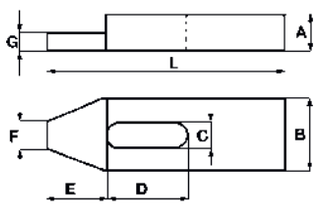


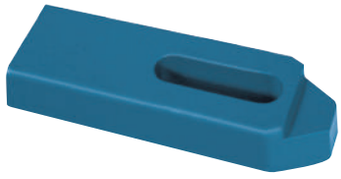
Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	L mm	For screw M
C740007050	10	20	7	20	10	8	50	6
C740011080	15	30	11	30	15	12	80	10
C740014100	20	40	14	40	21	14	100	12 - 14
C740014125	20	40	14	50	21	14	125	12 - 14
C740014160	20	40	14	65	21	14	160	12 - 14
C740018125	25	50	18	45	26	18	125	16 - 18
C740018160	25	50	18	65	26	18	160	16 - 18
C740022160	30	60	22	60	30	22	160	20 - 22
C740022200	30	60	22	80	30	22	200	20 - 22
C740026250	30	70	26	105	35	26	250	24

SHAPED STANDARD CLAMPS

ITEM: C7415

Hardened painted steel. R > 700 N/mm².



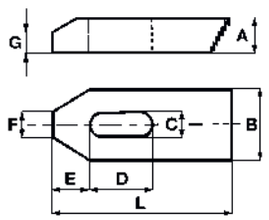


Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	L mm	For screw M
C741509060	12	25	9	22	13	10	7	60	8
C741511080	15	30	11	30	15	12	9	80	10
C741514100	20	40	14	40	21	14	12	100	12 - 14
C741514125	20	40	14	50	21	14	12	125	12 - 14
C741514160	20	40	14	65	26	14	12	160	12 - 14
C741518125	25	50	18	45	26	18	15	125	16 - 18
C741518160	25	50	18	65	26	18	15	160	16 - 18
C741518200	25	50	18	80	26	18	15	200	16 - 18
C741522160	30	60	22	60	30	22	20	160	20 - 22
C741522200	30	60	22	80	30	22	20	200	20 - 22
C741526250	30	70	26	105	35	26	20	250	24

TOOTHED CLAMPS

ITEM: C7424

Hardened painted steel. R > 700 N/mm².



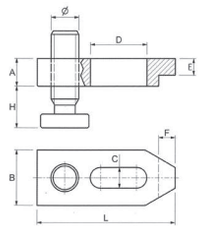


Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	L mm	For screw M
C742407050	10	20	7	20	10	8	6	50	6
C742409060	12	25	9	22	13	10	8	60	8
C742414100	20	40	14	40	21	14	12	100	12 - 14
C742418125	25	50	18	45	26	18	15	125	16 - 18
C742422160	30	60	22	60	30	22	18	160	20 - 22
C742426200	30	70	26	80	35	26	18	200	24

ADJUSTABLE CLAMPS WITH SQUARE THREAD SCREW

ITEM: C7430

Hardened painted steel. R > 700 N/mm².



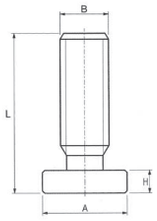


Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	L mm	H mm	Ø mm	For screw M
C743015100	20	40	15	40	12	12	100	15 - 50	20 x 4	12 - 14
C743015125	20	40	15	45	12	12	125	15 - 50	20 x 4	12 - 14
C743015160	20	40	15	60	12	12	160	15 - 50	20 x 4	12 - 14
C743019125	25	50	19	45	15	15	125	15 - 70	20 x 4	16 - 18
C743019160	25	50	19	60	15	15	160	15 - 70	30 x 6	16 - 18
C743019200	25	50	19	80	15	15	200	15 - 70	30 x 6	16 - 18
C743023160	30	60	23	60	15	20	160	15 - 70	30 x 6	20 - 22
C743023200	30	60	23	80	15	20	200	15 - 70	30 x 6	20 - 22
C743027200	40	70	27	80	25	23	200	15 - 70	30 x 6	24
C743027250	40	70	27	100	25	23	250	15 - 70	30 x 6	24
C743027300	40	70	27	100	25	23	300	15 - 70	30 x 6	24

SPARE SCREWS FOR ADJUSTABLE CLAMPS

ITEM: C7440

Spare screws for adjustable clamps.



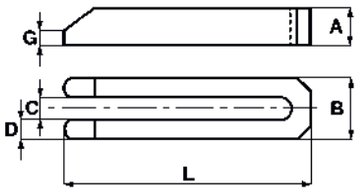


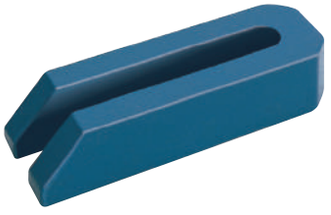
Tech. Code	A mm	B mm	H mm	L mm
C744020070	35	20 x 4	10	70
C744030100	45	30 x 6	15	100
C744030125	70	30 x 6	15	125

FORKED CLAMPS WITH BEVEL

ITEM: C7460

Hardened painted steel. R > 600 N/mm². This item is produced by milling a steel block.



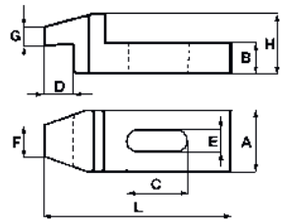


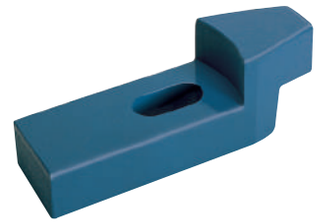
Tech. Code	A mm	B mm	C mm	D mm	G mm	L mm	For screw M
C746011100	20	30	11	5	5	100	10
C746014160	25	40	14	6	6	160	12-14
C746014200	25	40	14	6	6	200	12-14
C746018160	30	50	18	8	8	160	16-18
C746018200	30	50	18	8	8	200	16-18
C746018250	40	50	18	10	10	250	16-18
C746022200	40	50	22	10	10	200	20-22
C746022250	40	60	22	10	10	250	20-22
C746022315	40	60	22	10	10	315	20-22
C746026200	40	70	26	10	10	200	24
C746026250	40	70	26	10	10	250	24
C746026315	40	70	26	10	10	315	24
C746040600	60	100	40	12	12	600	36

CRANKED CLAMPS

ITEM: C7470

Hardened painted steel. R > 700 N/mm². This item is produced by milling a steel block.





Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	For screw M
C747014125	40	20	30	20	14	20	23	40	125	12-14
C747018160	50	25	40	25	18	25	28	50	160	16-18
C747022200	60	30	60	30	22	30	35	60	200	20-22
C747026200	70	35	50	35	26	35	38	70	200	24
C747026250	70	35	75	35	26	35	38	70	250	24

CLAMP SET T-SLOT 16MM

ITEM: C7490

Composition:
Toothed support: C720031.5 - 2pcs.
Toothed support: C720064.5 - 4pcs.
Toothed support: C7200128 - 2pcs.
Standard clamps: C740018125 - 4pcs.
Toothed clamps: C742418125 - 4pcs.
Complete hammered bolts: C751016X100 - 4pcs.
Complete hammered bolts: C751016X150 - 2pcs.
Complete stud: C752014x100 - 2pcs.
Complete stud: C752014X160 - 2pcs.
Extension nuts: C754014 - 4pcs.
Tall nuts: C753516 - 6pcs.
Nuts for slot: C75501416 - 4pcs.
Washers: C757017 - 6pcs.

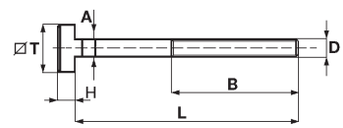


Tech. Code	Pieces n°
C7490SET16	46

HAMMERHEAD BOLTS

ITEM: C7510

Din 787 - UNI 42CrMo4. In accordance with ASTM A193-B7, class 10.9.



Tech. Code	D mm	L mm	B mm	A mm	C mm	H mm	Slotting mm
C751010X40	M10	40	30	9.7	15	6	10
C751010X63	M10	63	45	9.7	15	6	10
C751010X80	M10	80	55	9.7	15	6	10
C751010X100	M10	100	60	9.7	15	6	10
C751012X50	M12	50	35	11.7	18	7	12
C751012X63	M12	63	45	11.7	18	7	12
C751012X80	M12	80	55	11.7	18	7	12
C751012X100	M12	100	60	11.7	18	7	12
C751012X125	M12	125	75	11.7	18	7	12
C751012X150	M12	150	100	11.7	18	7	12
C751012X170	M12	170	100	11.7	18	7	12
C751012X200	M12	200	120	11.7	18	7	12
C751014X63	M14	63	40	13.7	22	8	14
C751014X80	M14	80	55	13.7	22	8	14
C751014X100	M14	100	65	13.7	22	8	14
C751014X125	M14	125	75	13.7	22	8	14
C751014X150	M14	150	100	13.7	22	8	14
C751016X63	M16	63	45	15.7	25	9	16
C751016X80	M16	80	55	15.7	25	9	16
C751016X100	M16	100	63	15.7	25	9	16
C751016X125	M16	125	75	15.7	25	9	16
C751016X150	M16	150	100	15.7	25	9	16
C751016X160	M16	160	100	15.7	25	9	16

Tech. Code	D mm	L mm	B mm	A mm	C mm	H mm	Slotting mm
C751016X170	M16	170	100	15.7	25	9	16
C751016X200	M16	200	125	15.7	25	9	16
C751018X80	M18	80	55	17.7	28	10	18
C751018X100	M18	100	65	17.7	28	10	18
C751018X125	M18	125	85	17.7	28	10	18
C751018X150	M18	150	100	17.7	28	10	18
C751018X170	M18	170	100	17.7	28	10	18
C751018X200	M18	200	125	17.7	28	10	18
C751018X230	M18	230	150	17.7	28	10	18
C751020X80	M20	80	55	19.7	32	12	20
C751020X100	M20	100	63	19.7	32	12	20
C751020X125	M20	125	85	19.7	32	12	20
C751020X150	M20	150	100	19.7	32	12	20
C751020X160	M20	160	100	19.7	32	12	20
C751020X170	M20	170	100	19.7	32	12	20
C751020X200	M20	200	125	19.7	32	12	20
C751020X230	M20	230	150	19.7	32	12	20
C751020X315	M20	315	190	19.7	32	12	20
C751024X160	M24	160	100	23.7	40	16	24
C751024X170	M24	170	100	23.7	40	16	24
C751024X200	M24	200	125	23.7	40	16	24
C751024X230	M24	230	150	23.7	40	16	24
C751024X250	M24	250	150	23.7	40	16	24

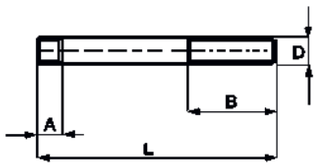
SINGLE STUDS

ITEM: C7520

Din 6379 - UNI 42CrMo4. In accordance with ASTM A193-B7, class 10.9.

Tech. Code	D mm	L mm	A mm	B mm
C75208X40	M8	40	11	20
C75208X63	M8	63	11	40
C75208X80	M8	80	11	50
C75208X100	M8	100	11	63
C752010X50	M10	50	13	25
C752010X63	M10	63	13	35
C752010X80	M10	80	13	50
C752010X100	M10	100	13	75
C752010X125	M10	125	13	75
C752010X160	M10	160	13	100
C752012X50	M12	50	15	25
C752012X63	M12	63	15	32
C752012X80	M12	80	15	50
C752012X100	M12	100	15	63
C752012X125	M12	125	15	75
C752012X160	M12	160	15	100
C752012X200	M12	200	15	125
C752012X225	M12	225	15	160
C752012X250	M12	250	15	160
C752014X63	M14	63	17	32
C752014X160	M14	160	17	100
C752014X200	M14	200	17	125
C752014X225	M14	225	17	160
C752016X63	M16	63	19	35
C752016X80	M16	80	19	50
C752016X100	M16	100	19	63
C752016X125	M16	125	19	75
C752016X160	M16	160	19	100
C752016X200	M16	200	19	125
C752016X225	M16	225	19	160
C752016X250	M16	250	19	160

Tech. Code	D mm	L mm	A mm	B mm
C752016X315	M16	315	19	180
C752018X100	M18	100	23	50
C752018X125	M18	125	23	75
C752018X160	M18	160	23	100
C752018X200	M18	200	23	125
C752018X225	M18	225	23	150
C752018X250	M18	250	23	150
C752018X315	M18	315	23	180
C752020X80	M20	80	27	32
C752020X100	M20	100	27	50
C752020X125	M20	125	27	70
C752020X160	M20	160	27	100
C752020X200	M20	200	27	125
C752020X225	M20	225	27	160
C752020X250	M20	250	27	160
C752020X315	M20	315	27	200
C752022X100	M22	100	31	45
C752022X160	M22	160	31	100
C752022X200	M22	200	31	125
C752022X250	M22	250	31	160
C752022X315	M22	315	31	250
C752024X160	M24	160	35	100
C752024X200	M24	200	35	125
C752024X225	M24	225	35	125
C752024X250	M24	250	35	160
C752024X315	M24	315	35	180
C752027X200	M27	200	39	125
C752027X225	M27	225	39	160
C752027X250	M27	250	39	160
C752030X150	M30	150	43	80
C752030X200	M30	200	43	125



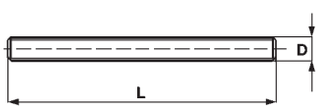
THREADED BARS

ITEM: C7525

UNI 42CrMo4. In accordance with ASTM A193-B7, class 10.9.

Tech. Code	D mm	L mm
C75256	M6	1000
C75258	M8	1000
C752510	M10	1000
C752512	M12	1000
C752514	M14	1000
C752516	M16	1000

Tech. Code	D mm	L mm
C752518	M18	1000
C752520	M20	1000
C752522	M22	1000
C752524	M24	1000
C752527	M27	1000
C752530	M30	1000



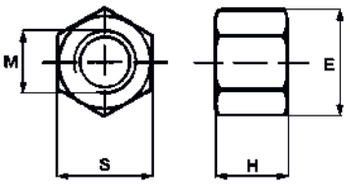
TURNED SHORT NUTS

ITEM: C7530

Automatic Alloy Steel.

Tech. Code	M mm	S mm	E mm	H mm
C753010	10	17	19.6	10
C753012	12	19	21.5	12
C753014	14	22	25	14
C753016	16	24	27.5	16
C753018	18	27	31	18

Tech. Code	M mm	S mm	E mm	H mm
C753020	20	30	34.6	20
C753022	22	32	36.9	22
C753024	24	36	41.6	24
C753027	27	41	47.3	27
C753030	30	46	53.1	30



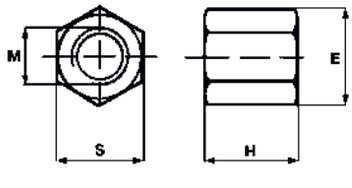
TURNED TALL NUTS

ITEM: C7535

Automatic Alloy Steel.

Tech. Code	M mm	S mm	E mm	H mm
C75356	6	10	11.5	9
C75358	8	13	14.8	12
C753510	10	17	19.6	15
C753512	12	19	21.5	18
C753514	14	22	25	21
C753516	16	24	27.5	24

Tech. Code	M mm	S mm	E mm	H mm
C753518	18	27	31	27
C753520	20	30	34.6	30
C753522	22	32	36.9	33
C753524	24	36	41.6	36
C753527	27	41	47.3	40
C753530	30	46	53.1	45



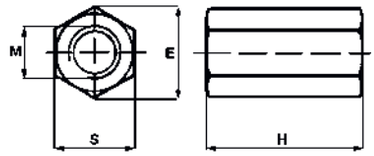
EXTENSION NUTS

ITEM: C7540

Automatic Alloy Steel.

Tech. Code	M mm	S mm	E mm	H mm
C75406	6	10	11.5	18
C75408	8	13	14.8	24
C754010	10	17	19.6	30
C754012	12	19	21.5	36
C754014	14	22	25	42

Tech. Code	M mm	S mm	E mm	H mm
C754016	16	24	27.5	48
C754018	18	27	31	54
C754020	20	30	34.6	60
C754022	22	32	36.9	66



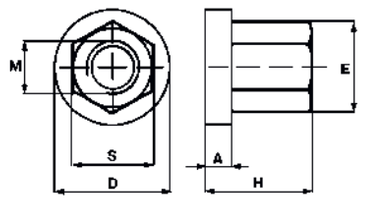
NUTS WITH WASHER

ITEM: C7545

Automatic Alloy Steel.

Tech. Code	M mm	S mm	E mm	H mm	A mm	D mm
C75458	8	13	14.8	12	3.5	18
C754510	10	17	19.6	15	4	22
C754512	12	19	21.5	18	4	25
C754514	14	22	25	21	4.5	28
C754516	16	24	27.5	24	5	31
C754518	18	27	31	27	5	34

Tech. Code	M mm	S mm	E mm	H mm	A mm	D mm
C754520	20	30	34.6	30	6	37
C754522	22	32	36.9	33	6	40
C754524	24	36	41.6	36	6	45
C754527	27	41	47.3	40	8	51
C754530	30	46	53.1	45	8	58



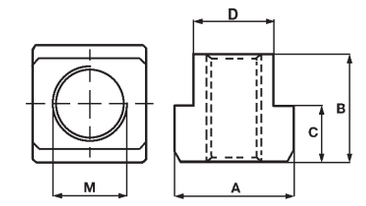
NUTS FOR T-SLOTS

ITEM: C7550

Alloy Steel.

Tech. Code	M mm	D mm	A mm	B mm	C mm	Slotting mm
C75500608	6	7.7	13	10	6	8
C75500810	8	9.7	15	12	6	10
C75500812	8	11.7	18	14	7	12
C75501012	10	11.7	18	14	7	12
C75500814	8	13.7	22	16	8	14
C75501014	10	13.7	22	16	8	14
C75501214	12	13.7	22	16	8	14
C75500816	8	15.7	25	18	9	16
C75501016	10	15.7	25	18	9	16
C75501216	12	15.7	25	18	9	16
C75501416	14	15.7	25	18	9	16
C75500818	8	17.7	28	20	10	18
C75501018	10	17.7	28	20	10	18
C75501218	12	17.7	28	20	10	18
C75501418	14	17.7	28	20	10	18
C75501618	16	17.7	28	20	10	18

Tech. Code	M mm	D mm	A mm	B mm	C mm	Slotting mm
C75501620	16	19.7	32	24	12	20
C75501820	18	19.7	32	24	12	20
C75501622	16	21.7	35	28	14	22
C75501822	18	21.7	35	28	14	22
C75502022	20	21.7	35	28	14	22
C75501624	16	23.7	40	32	16	24
C75502024	20	23.7	40	32	16	24
C75502224	22	23.7	40	32	16	24
C75501628	16	27.7	44	36	18	28
C75502028	20	27.7	44	36	18	28
C75502228	22	27.7	44	36	18	28
C75502428	24	27.7	44	36	18	28
C75502430	24	29.7	48	38	19	30
C75502732	27	31.6	50	40	20	32
C75503036	30	35.6	54	44	22	36
C75503642	36	41.6	65	52	26	42



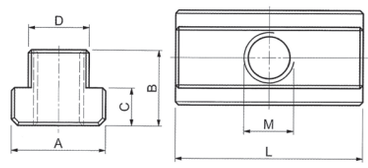
EXTENDED NUTS FOR T-SLOTS

ITEM: C7555

Alloy Steel.

Tech. Code	M mm	D mm	L mm	A mm	B mm	C mm	Slotting mm
C75550608	6	7.7	26	13	10	5	8
C75550810	8	9.7	30	15	12	6	10
C75551012	10	11.7	36	18	14	7	12

Tech. Code	M mm	D mm	L mm	A mm	B mm	C mm	Slotting mm
C75551214	12	13.7	44	22	16	8	14
C75551618	16	17.7	56	28	20	10	18
C75551820	18	19.7	64	32	24	12	20



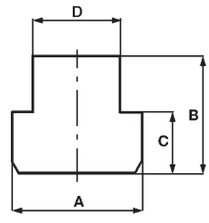
BLANK T-NUTS

ITEM: C7560

Alloy Steel.

Tech. Code	D mm	A mm	B mm	C mm	Slotting mm
C75608	7.7	13	10	6	8
C756010	9.7	15	12	6	10
C756012	11.7	18	14	7	12
C756014	13.7	22	16	8	14

Tech. Code	D mm	A mm	B mm	C mm	Slotting mm
C756016	15.7	25	18	9	16
C756018	17.7	28	20	10	18
C756020	19.7	32	24	12	20
C756022	21.7	35	28	14	22



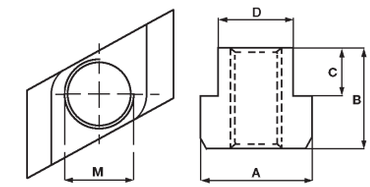
RHOMBOIDAL NUTS FOR T-SLOTS

ITEM: C7565

Alloy Steel.

Tech. Code	M mm	D mm	A mm	B mm	C mm	Slotting mm
C75651014	10	13.7	22	16	8	14
C75651018	10	17.7	28	20	10	18
C75651416	14	15.7	25	18	9	16
C75651618	16	17.7	28	20	10	18

Tech. Code	M mm	D mm	A mm	B mm	C mm	Slotting mm
C75651820	18	19.7	32	24	12	20
C75652022	20	21.7	35	28	14	22
C75651628	16	27.7	44	36	18	28



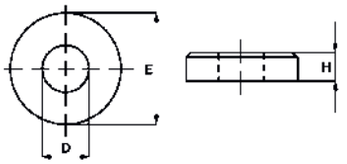
FLAT WASHERS

ITEM: C7570

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	H mm
C75706,6	6	6,6	13	3,5
C75708,4	8	8,4	18	4
C757010,5	10	10,5	22	4
C757013	12	13	28	5
C757015	14	15	35	6
C757017	16	17	35	6

Tech. Code	Screw Ø	D mm	E mm	H mm
C757019	18	19	40	6
C757021	20	21	40	6
C757023	22	23	45	8
C757025	24	25	45	8
C757028	27	28	60	10
C757031	30	31	60	10



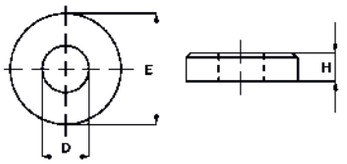
THICK WASHERS

ITEM: C7575

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	H mm
C75758,4	8	8,4	35	8
C757510,5	10	10,5	35	8
C757513	12	13	40	8
C757515	14	15	40	10
C757517	16	17	45	10

Tech. Code	Screw Ø	D mm	E mm	H mm
C757519	18	19	45	10
C757521	20	21	50	12
C757523	22	23	50	12
C757525	24	25	50	12
C757528	27	28	60	14



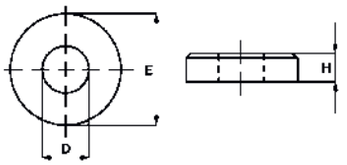
BROAD WASHERS

ITEM: C7580

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	H mm
C75806,6	6	6,6	17	3,5
C75808,4	8	8,4	23	4
C758010,5	10	10,5	28	4
C758013	12	13	35	5
C758015	14	15	40	5

Tech. Code	Screw Ø	D mm	E mm	H mm
C758017	16	17	45	6
C758019	18	19	45	6
C758021	20	21	50	6
C758023	22	23	50	8
C758025	24	25	60	8



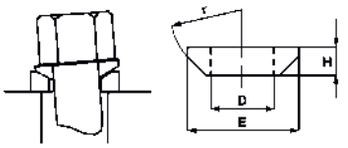
SPHERICAL SEAT WASHERS

ITEM: C7585

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	r mm	H mm
C75856,4	6	6,4	12	9	2,3
C75858,4	8	8,4	17	12	3,2
C758510,5	10	10,5	21	15	4
C758513	12	13	24	17	4,6

Tech. Code	Screw Ø	D mm	E mm	r mm	H mm
C758515	14	15	28	22	5
C758517	16	17	30	22	5,3
C758521	20	21	36	27	6,3
C758525	24	25	44	32	8,2



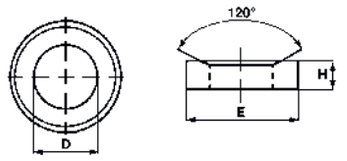
DISHED WASHERS

ITEM: C7590

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	H mm
C75907,1	6	7,1	12	2,8
C75909,6	8	9,6	17	3,5
C759012	10	12	21	4,2
C759014,2	12	14,2	24	5

Tech. Code	Screw Ø	D mm	E mm	H mm
C759016,5	14	16,5	28	5,6
C759019	16	19	30	6,2
C759023,2	20	23,2	36	7,5



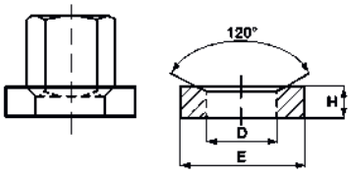
DISHED WASHERS

ITEM: C7595

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	H mm
C75957,1	6	7,1	17	4
C75959,6	8	9,6	23	4
C759512	10	12	28	5
C759514,2	12	14,2	35	5

Tech. Code	Screw Ø	D mm	E mm	H mm
C759516,5	14	16,5	40	5
C759519	16	19	45	6
C759523,2	20	23,2	50	8





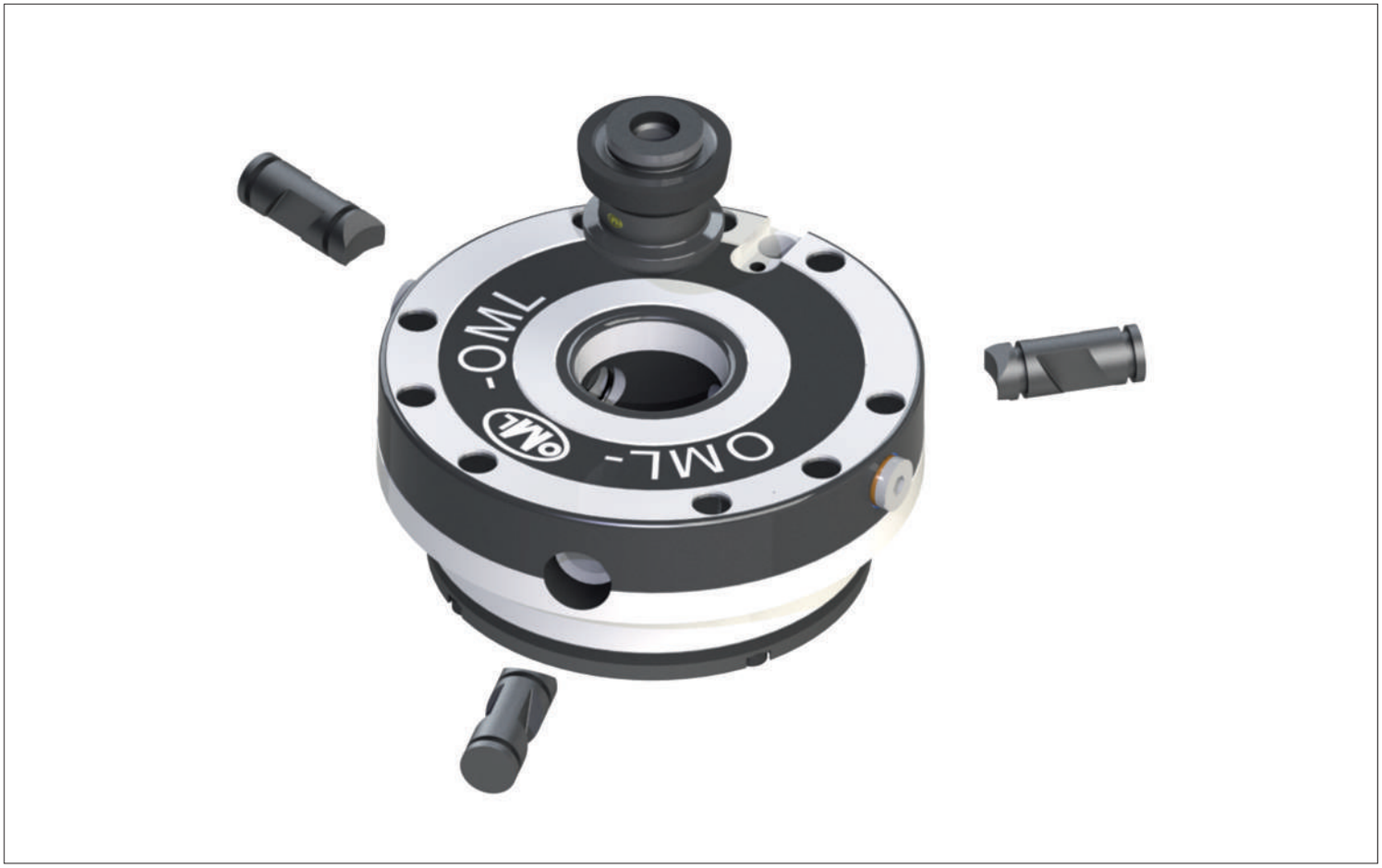
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AUTOMATIC POSITIONING SYSTEM WITH 3 JAWS AT 120°

APS is the only ZERO POINT locking system with 3 jaws at 120° thanks to the special anti-friction and anti-corrosion treatment of the pins and the clamping jaws. (Already preliminarily treated to 62 HRC) which further improves its performance.



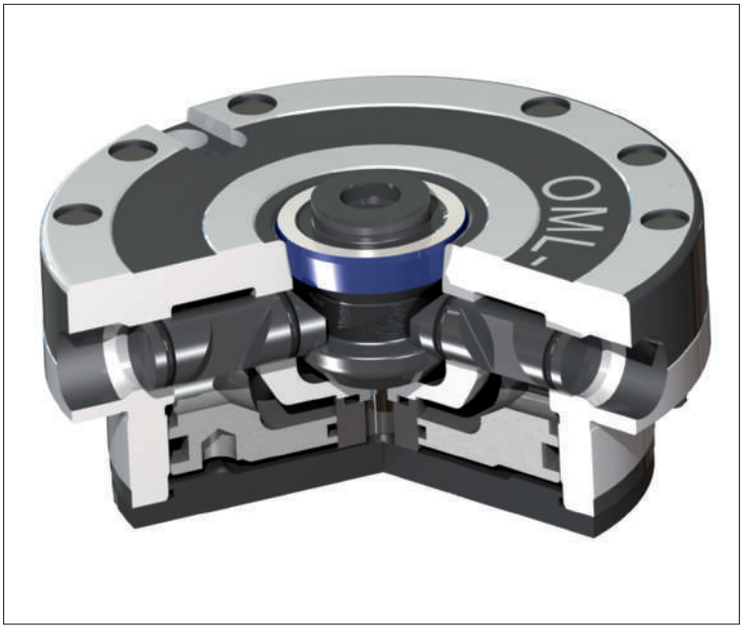
MAXIMUM RIGIDITY!

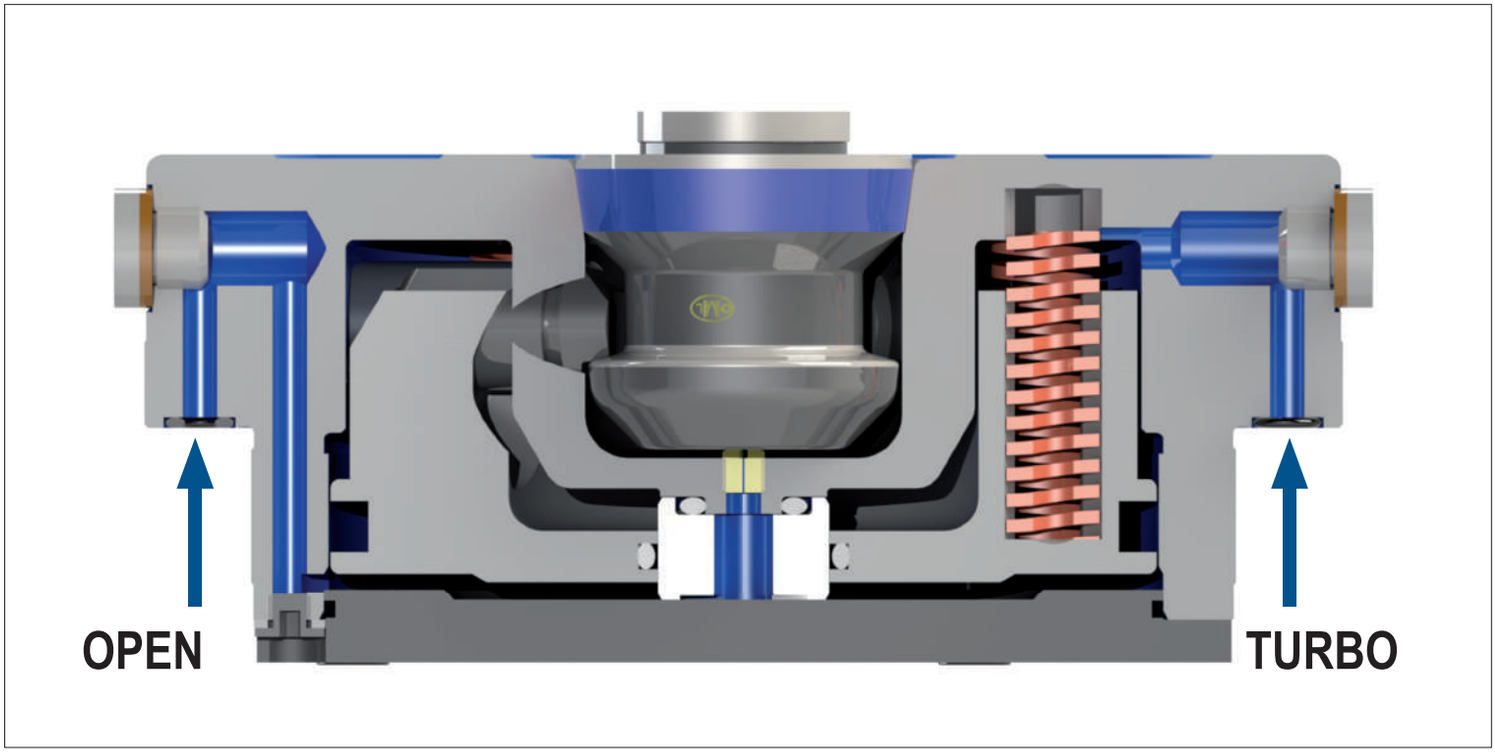
- Monolithic piston with inclined planes
- Jaws with double inclined plane that generates the “PULL DOWN” effect.

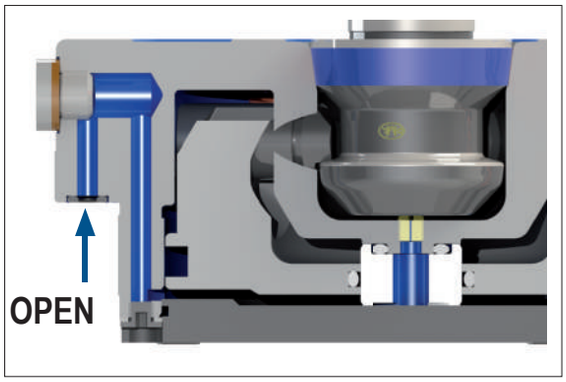


MAXIMUM ACCURACY!

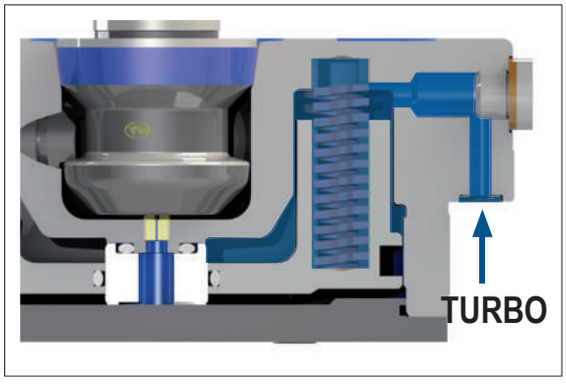
Maximum accuracy of the tapered coupling between the pin and the module.





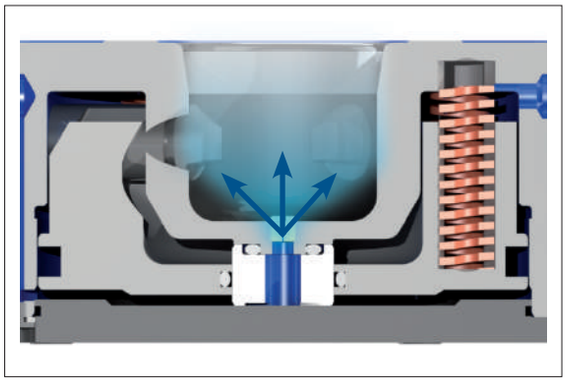


UNLOCKING FUNCTION AT 6 BAR



TURBO FUNCTION

The turbo function is always intergrated in the module APS PREMIUM. Turbo is the function by means of which the compressed air increases the clamping force applied by the springs (12.000 N) until reaching the "PULL DOWN" clamping force of 30,000 N.



AUTOMATIC CLEANING FUNCTION (APS PREMIUM)

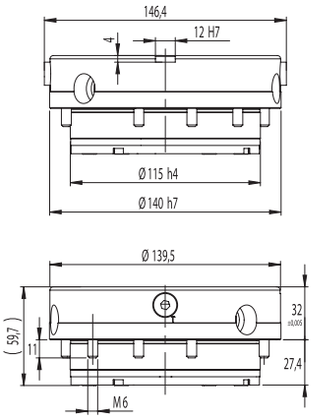
MODULES APS-140 E - PREMIUM

ITEM: C8010

For external mounting with turbo effect.

Tech. Code		C8010140E
Clamping force**	N	30.000
Holding force*	N	M10/35.000 - M12/50.000 - M16/75.000
Unlocking pressure	bar	6
Repeatability	mm	< 0,005
Weight	kg	4,5

* With screws DIN EN ISO 4762 - 12.9
** With turbo effect





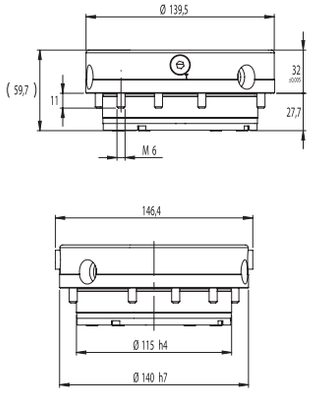
MODULES APS-140 E - PREMIUM LIGHT

ITEM: C8015

For external mounting with turbo effect.

Tech. Code		C8015140EL
Clamping force**	N	30.000
Holding force*	N	M10/35.000 - M12/50.000 - M16/75.000
Unlocking pressure	bar	6
Repeatability	mm	< 0,005
Weight	kg	4,5

* With screws DIN EN ISO 4762 - 12.9
** With turbo effect





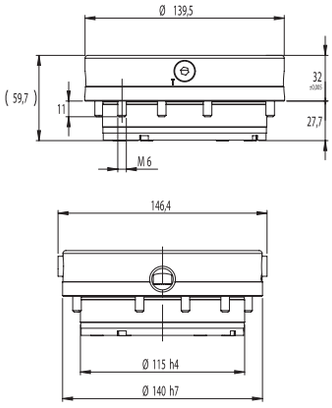
MODULES APS-140 E BASIC

ITEM: C8020

For external mounting.

Tech. Code		C8020140B
Clamping force	N	12.000
Holding force*	N	M10/35.000 - M12/50.000 - M16/75.000
Unlocking pressure	bar	6
Repeatability	mm	< 0,005
Weight	kg	4,5

* With screws DIN EN ISO 4762 - 12.9





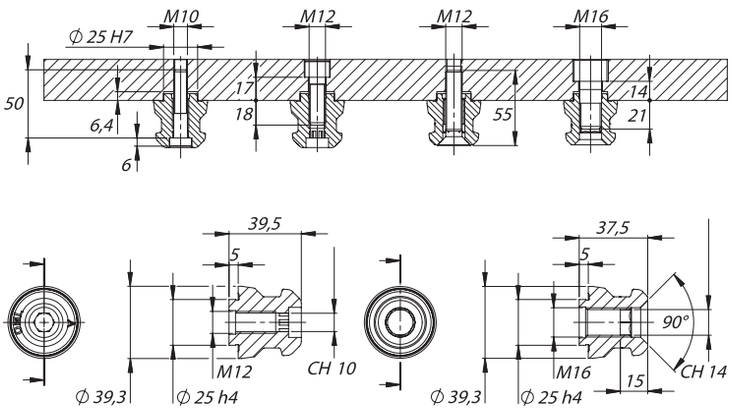
CLAMPING PINS APS-140

ITEM: C8030

With special anti-corrosion and anti-friction treatment.

Tech. Code		C8030M12A	C8030M12B	C8030M12C
Model		M12-A	M12-B	M12-C
Weight	kg	0,3	0,3	0,3

Tech. Code		C8030M16A	C8030M16B	C8030M16C
Model		M16-A	M16-B	M16-C
Weight	kg	0,3	0,3	0,3

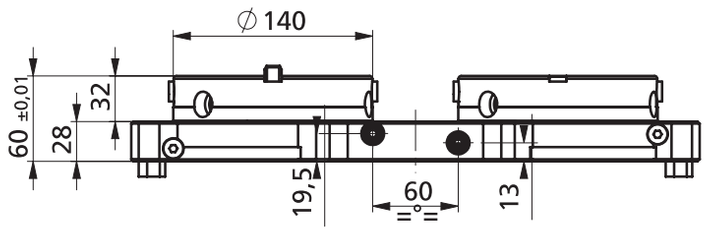


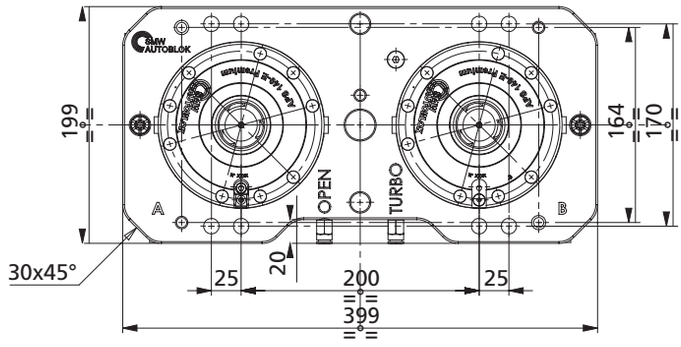
PLATES A 2 MODULES APS-140 E

ITEM: C8040

Tech. Code		C8040140B	C8040140E
Model		BASIC	PREMIUM LIGHT
Weight	kg	21	21

With "TURBO" effect





VACUUM PLATES

SOLFORMEC

ITEM: MULTI HOLES

Vacuum plates are a flexible alternative to traditional clamping systems, for those processes that require a type of vacuum clamping. They are made entirely of aluminium and allow a simple repositioning of the workpieces. They do not require any type of preparation and allow you to clamp one or more pieces anywhere on the plate.



Included:
1 On/Off device
1 perforated rubber mat
1 smooth rubber mat
1 set of connecting tubes
2 sliding stops

Tech. Code		C8016300200	C8016400300	C8016600400
Vacuum areas		2	3	4
External dim.	mm	316 x 216 x 26	416 x 316 x 26	616x416x26
Clamping dim.	mm	300 x 200	400 x 300	400 x 300
Hole positioning	mm	10 x 10	10 x 10	10 x 10
Position of fixed stops		6 holes M6	12 holes M6	24 holes M6
Clamping edge	mm	8	8	8

VACUUM PUMP FOR COOLANT OR DRY MACHINING

SOLFORMEC

ITEM: P550L

Hydraulic pump for use with the Multi Hole plate when machining with both liquid coolant and dry.



Tech. Code		C801750L
Capacity	L/h	50

ITEM: P350ES/P510ES

Hydraulic pump for use with the Multi Hole plate for dry machining only



Tech. Code		C801850M3/H
Capacity	m3/h	50

CLAMPING TECHNOLOGY BY RÖHM



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MANDRELS ∘ TOOL CLAMPING SYSTEMS

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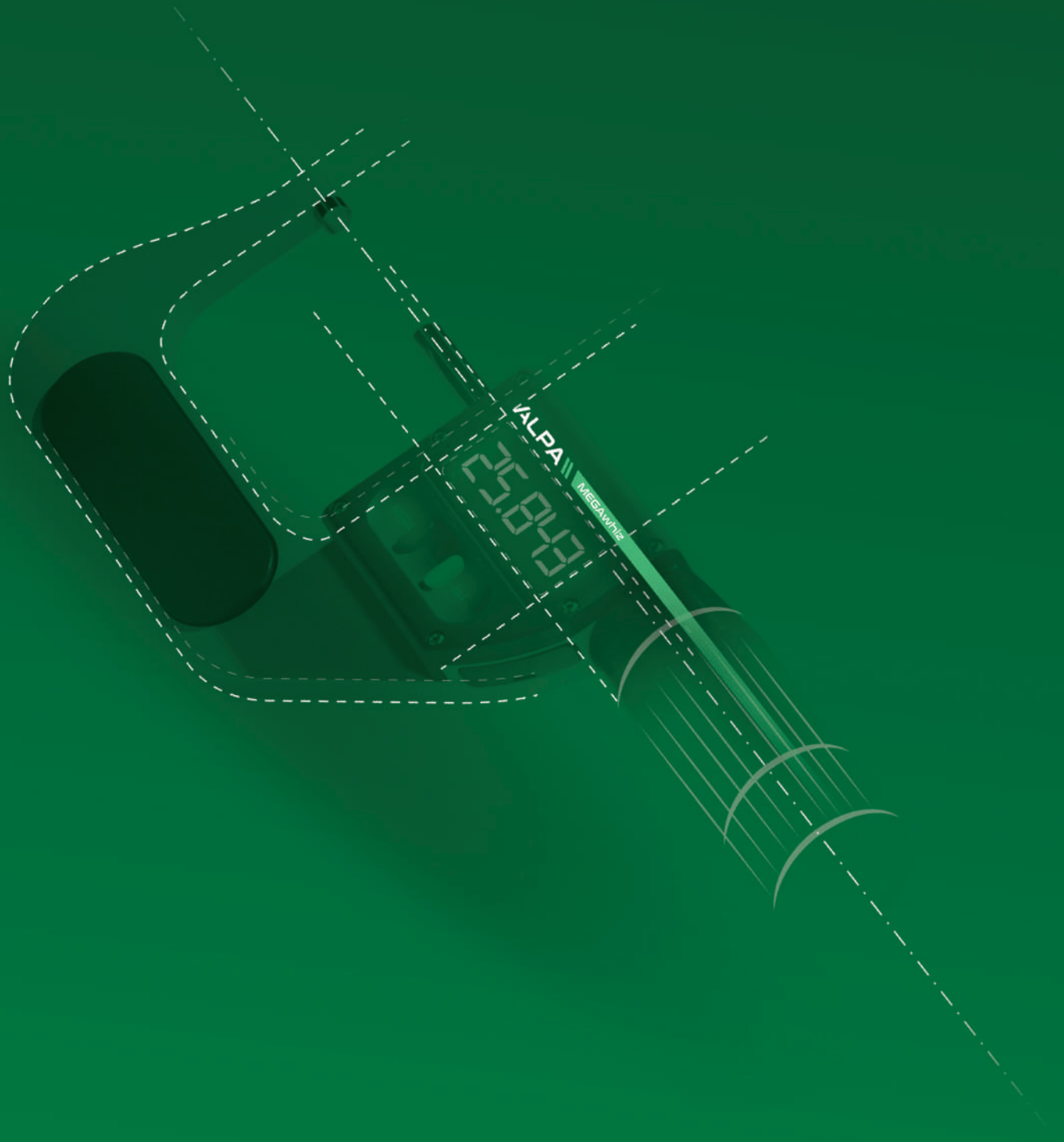
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ALPA

" underline precision "



MEASURING INSTRUMENTS

D



ALPA Mitutoyo sylvac

1 - 19

Digital and vernier calipers



ALPA Mitutoyo BOWERS

19 - 31

Digital and analogue micrometers



ALPA Mitutoyo sylvac

32 - 47

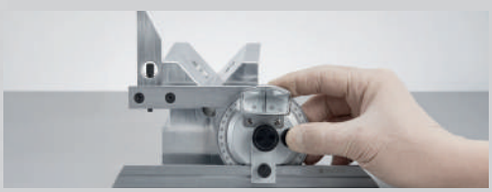
Dial gauges, bore gauges



ALPA KERFOLG HAIMER

48 - 51

Digital probes analogic sensors, centering devices, zero setters, inspection plates



ALPA Mitutoyo sylvac TRIMOS WYLER

52 - 62

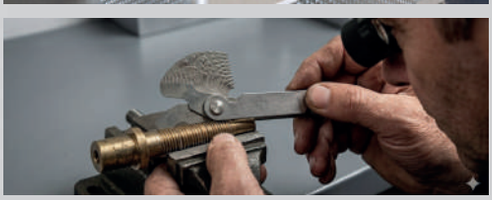
Protractors, height gauges, dividers, prisms, parallels, squares, rulers and levels



ALPA

63 - 70

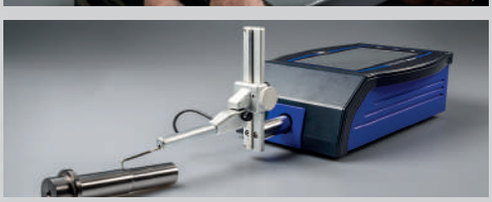
Threaded plug guages, pin gauges, gauge blocks calibrated plugs



ALPA

71 - 73

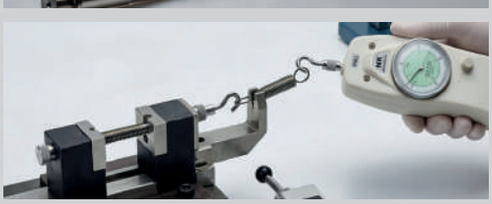
Screws pitch gauges, thickness gauges



ALPA Mitutoyo TRIMOS

73 - 84

Hardness testers microscopes, lenses, profile projectors, measuring machines



ALPA KERN

85 - 87

Dynamometers and scales



KERN Milwaukee elcometer

87 - 93

Electronic meters non-destructive, thermometers, speedometers, anemometers

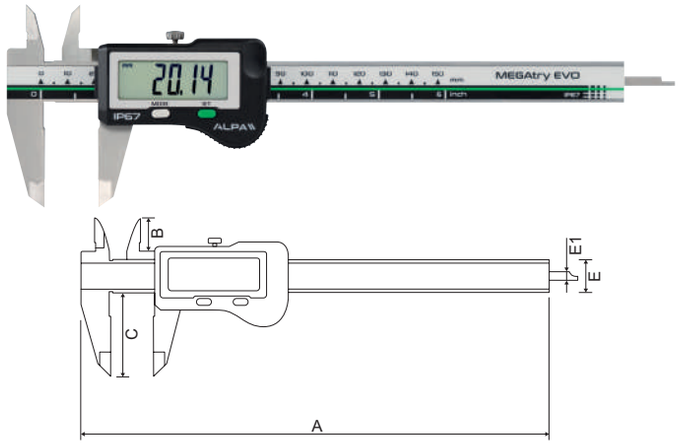
DIGITAL CALIPER IP67 WITH PRESETS

ITEM: AA014

FEATURES
Accuracy ± 0.02 mm.
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Auto switch-off after 10 min inactivity.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic shape.

FUNCTIONS
- Preset
- Zero
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm	g
D0010150NDP	■	0 ÷ 150	235	16	40	16	3,8 x 1,3	170
D0010150NDT	●	0 ÷ 150	235	16	40	16	Ø 1,5	170
D0010200ND	■	0 ÷ 200	290	19	50	16	3,8 x 1,3	200
D0010300ND	-	0 ÷ 300	388	19	64	16	-	270

Tech. Code	Model
D99113V	3V Battery - CR2032

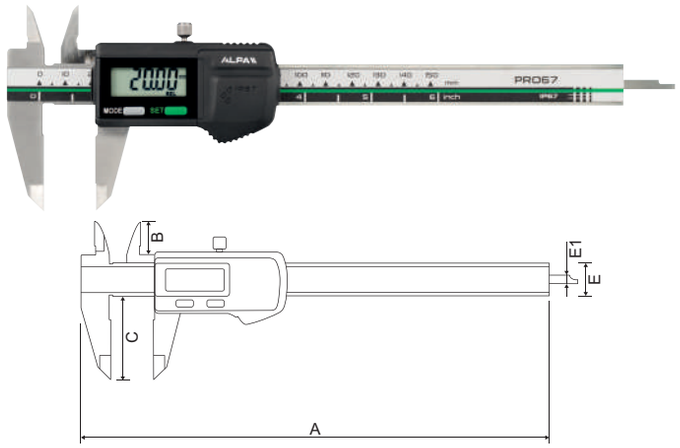
DIGITAL CALIPERS IP67

ITEM: AA017

FEATURES
Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP67.
Electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.

FUNCTIONS
- Zero
- Hold

Supplied with calibration certificate.



Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm	g
D0007150T	●	0 ÷ 150	235	16	40	16	Ø 1,5	170
D0007150P	■	0 ÷ 150	235	16	40	16	3,7 x 1,3	170
D0007200	■	0 ÷ 200	285	19	50	16	3,7 x 1,3	200
D0007300	■	0 ÷ 300	400	21	60	17	3,7 x 1,3	270

Tech. Code	Model
D99113V	3V Battery - CR2032

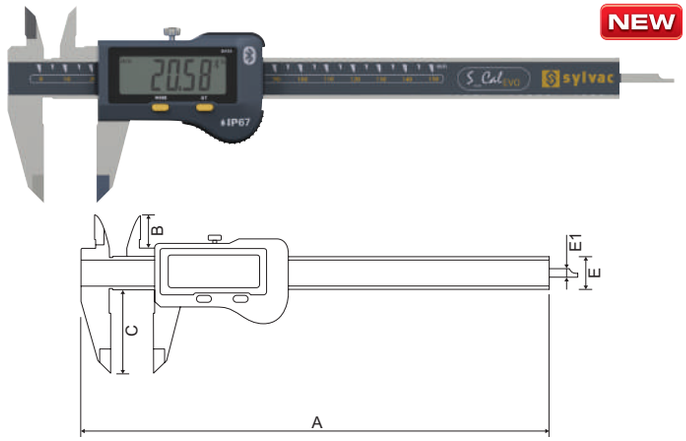
IP67 DIGITAL CALIPER WITH BLUETOOTH® AND PRESETS

ITEM: AA013

FEATURES
Accuracy ± 0.02 mm.
Resolution 0.01 mm.
Protection IP67.
Electronics protected against dust and brief immersion in water.
Auto switch-off after 10 min inactivity.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling due to ergonomic shape.

FUNCTIONS
- Bluetooth®
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm
D0008150BTP	■	0 ÷ 150	234,5	16	40	16 x 3,5	4 x 1,4
D0008150BTT	●	0 ÷ 150	234,5	16	40	16 x 3,5	Ø 1,5
D0008200BT	■	0 ÷ 200	290,5	19	50	16 x 3,5	4 x 1,4
D0008300BT	-	0 ÷ 300	388	19	64	16 x 4	-

DIGITAL CALIPERS IP67

Mitutoyo

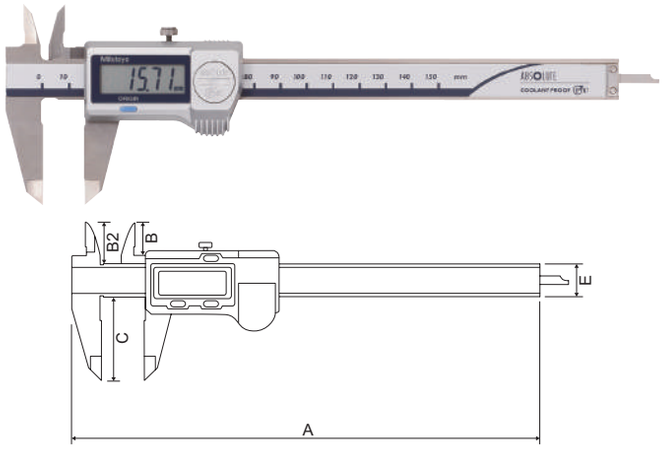
ITEM: SERIE 500

FEATURES

Resolution 0.01 mm Caliper in robust design for use in a wide range of applications. The IP67 degree of protection allows it to be used in the presence of lubricants, dust and coolants. Extremely long battery life.

Tech. Code	Rod	Range mm	A mm	B mm	B2 mm	C mm	E mm	Data output
D0012150PND	■	0 ÷ 150	233	16,5	21	40	16	No
D0012150TND	●	0 ÷ 150	233	16,5	21	40	16	No
D0012150	■	0 ÷ 150	233	16,5	21	40	16	Si
D0012200ND	■	0 ÷ 200	290	20	24,5	50	16	No
D0012200	■	0 ÷ 200	290	20	24,5	50	16	Si
D0012300ND	■	0 ÷ 300	404	21,8	27,5	64	20	No
D0012300	■	0 ÷ 300	404	21,8	27,5	64	20	Si

Tech. Code	Model
D99051,5V	Battery 1.5V SR44
D0004USBA	Digimatic cable Input Tool Direct, model IP67, 2 m - USB
D0001RS232A	Digimatic cable with data key, model IP, 1 mt - RS232



DIGITAL CALIPERS IP54

ALPA

ITEM: AA019

FEATURES

Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP54.
Electronics protected against dust and splash water.
Hardened stainless steel construction.
Slide with locking screw.

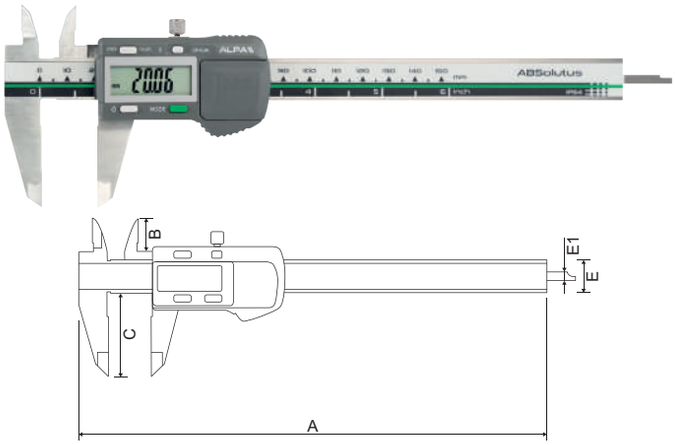
FUNCTIONS

- Zero
- ABS
- mm/inch

Supplied with calibration certificate.

Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm	g
D0009150P	■	0 ÷ 150	235	15,5	40	16	3,6 x 1,3	170
D0009150T	●	0 ÷ 150	235	15,5	40	16	Ø 1,5	170
D0009200	■	0 ÷ 200	287	19,5	50	16	3,6 x 1,3	200
D0009300	■	0 ÷ 300	390	21,5	60	16	3,6 x 1,3	270

Tech. Code	Model
D99113V	3V Battery - CR2032



DIGITAL CALIPERS IP40

ALPA

ITEM: AA020

FEATURES

Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP40.
Hardened stainless steel construction.
Slide with adjustment roller and locking screw.
On/off button.

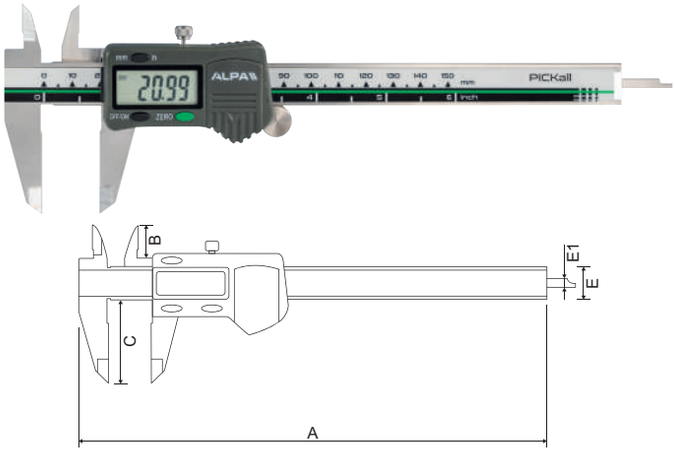
FUNCTIONS

- Zero
- mm/inch

Supplied with calibration certificate.

Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm	g
D0026150T	●	0 ÷ 150	234,5	16,6	40	16	Ø 1,6	170
D0026150P	■	0 ÷ 150	234,5	16,6	40	16	3,7 x 1,3	170
D0026200	■	0 ÷ 200	290	19	50	16	3,7 x 1,4	200
D0026300	■	0 ÷ 300	388	18	64	16	3,7 x 1,4	270

Tech. Code	Model
D99113V	3V Battery - CR2032



IP67 DIGITAL CALIPER WITH BLUETOOTH® AND PRESETS

sylvac

NEW

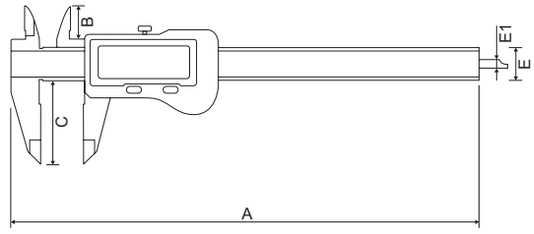
ITEM: AA011

FEATURES
Accuracy ± 0.015 mm.
Resolution 0.001 mm.
Protection IP67.
Electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic shape.

FUNCTIONS
- Bluetooth®
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.





Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm
D0027150BTP	■	0 ÷ 150	234,5	16	40	16 x 3,5	4 x 1,4
D0027150BTT	●	0 ÷ 150	234,5	16	40	16 x 3,5	Ø 1,5
D0027200BT	■	0 ÷ 200	290,5	19	50	16 x 3,5	4 x 1,4

DIGITAL CALIPER IP67 WITH PRESETS

sylvac

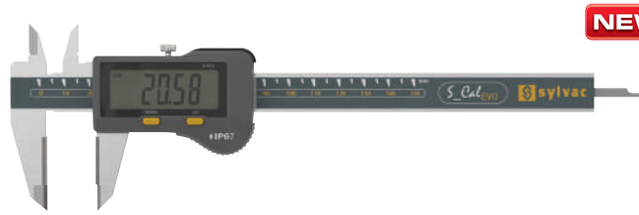
NEW

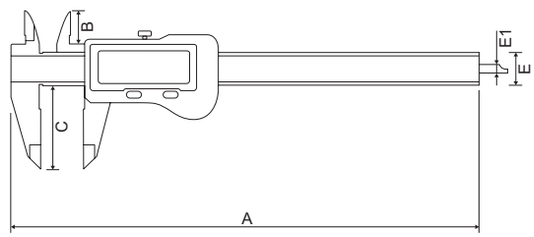
ITEM: AA038

FEATURES
Accuracy ± 0.02 mm.
Resolution 0.01 mm.
Protection IP67.
Electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic shape.
Carbide-coated tips.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.





Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm
D0030150MDND	●	0 ÷ 150	234,5	16	40	16 x 3,5	Ø 1,5

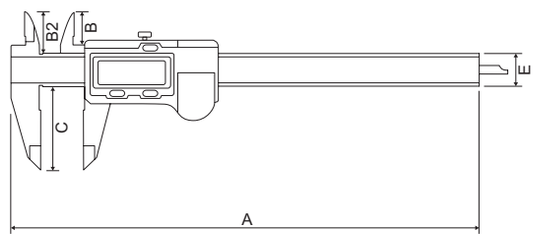
DIGITAL CALIPERS WITH ABSOLUTE FUNCTION

Mitutoyo

ITEM: SERIE 500

FEATURES
Resolution 0.01 mm Digimatic AOS calipers for fast and accurate measurements:
Equipped with the new AOS (Advance Onsite Sensor) induction encoder already found on waterproof calipers.
Thanks to the adoption of the ABS electromagnetic induction encoder, these calibres are not affected by the presence of oil or water (except in the 300 mm range) on the scale surface.
The ABSOLUTE system eliminates the need to zero the instrument each time it is switched on. The high quality finish of the sliding surfaces results in smooth and accurate sliding.
Character height 9 mm for easy reading. Long-life battery.





Tech. Code	Rod	Range mm	A mm	B mm	B2 mm	C mm	E mm	Data output
D0034150PND	■	0 ÷ 150	233	16,5	21	40	16	No
D0034150TND	●	0 ÷ 150	233	16,5	21	40	16	No
D0034150P	■	0 ÷ 150	233	16,5	21	40	16	Si
D0034200ND	■	0 ÷ 200	290	20	24,5	50	16	No
D0034200	■	0 ÷ 200	290	20	24,5	50	16	Si
D0034300	■	0 ÷ 300	404	22	27,5	64	20	Si

Tech. Code	Model
D99051,5V	Battery 1.5V SR44
D0004USBC	Digimatic cable Input Tool Direct, 2 m - USB

DIGITAL CALIPER IP40 WITH PRESETS

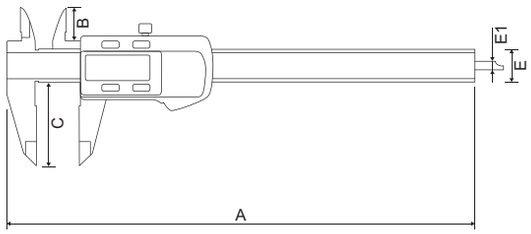
ITEM: AA021

FEATURES
Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP40.
Hardened stainless steel construction.
Slide with locking screw.
On/off button.

FUNCTIONS
- Zero
- Preset

Supplied with calibration certificate.





Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	g
D0024100	0 ÷ 100	186	16,5	30	16	3,7 x 1,3	150
D0024150	0 ÷ 150	186	16,5	40	16	3,7 x 1,3	170
D0024200	0 ÷ 200	285	19,5	50	16	3,7 x 1,3	200
D0024300	0 ÷ 300	400	21,5	50	16	3,7 x 1,3	270

Tech. Code	Model
D99113V	3V Battery - CR2032

IP67 DIGITAL CALIPER WITH BLUETOOTH® AND PRESETS

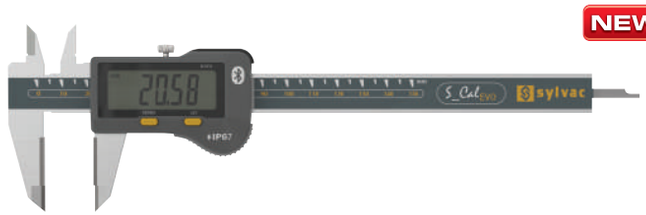
ITEM: AA037

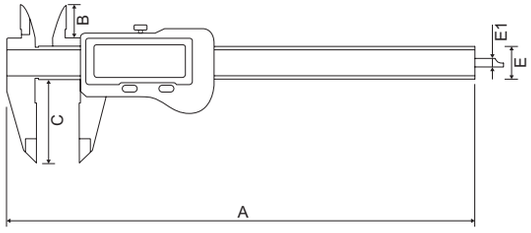
NEW

FEATURES
Accuracy ± 0.02 mm.
Resolution 0.01 mm.
Protection IP67.
Electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic shape.
Carbide-coated tips.

FUNCTIONS
- Bluetooth®
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.





Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm
D0031150MDBT	■	0 ÷ 150	234,5	16	40	16 x 3,5	4 x 1,4
D0031200MDBT	■	0 ÷ 200	290	19	50	16 x 3,5	4 x 1,4

IP67 DIGITAL CALIPER WITH BLUETOOTH® AND PRESETS

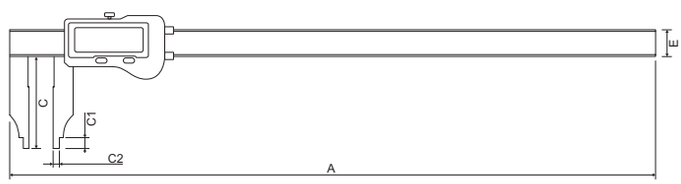
ITEM: AA028

NEW

FEATURES
Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP67.
Electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling due to ergonomic shape.

FUNCTIONS
- Bluetooth®
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

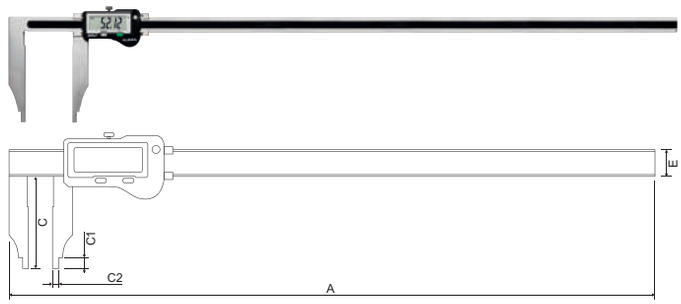




Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	E mm
D0048300BT	0 ÷ 300	425	100	11,5	5	17 x 5

DIGITAL CALIPER IP67 WITH PRESETS

ITEM: AA029



FEATURES
Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

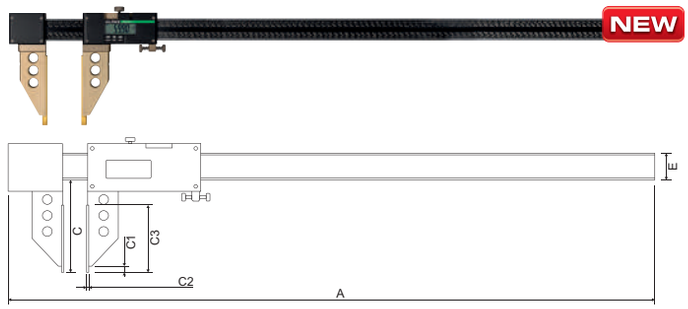
Supplied with calibration certificate.

Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	E mm	g
D0049300	0 ÷ 300	425	100	11,5	5	17 x 5	720
D0049400	0 ÷ 400	525	100	11,5	5	17 x 5	820
D0049500	0 ÷ 500	625	100	11,5	5	17 x 5	920
D0049600	0 ÷ 600	725	100	11,5	5	17 x 5	1020

Tech. Code	Model
D99113V	3V Battery - CR2032

IP67 CARBON FIBRE DIGITAL CALIPER WITH PRESETS

ITEM: AA043



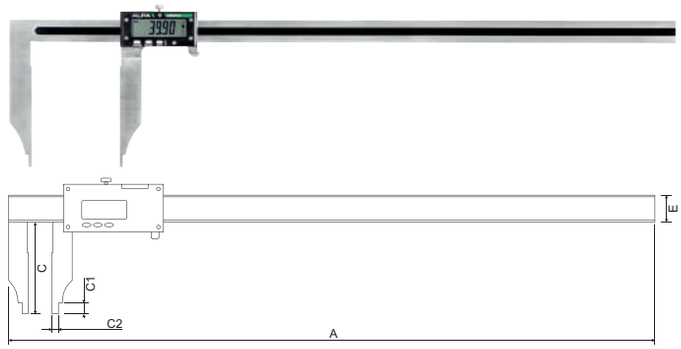
FEATURES
Accuracy ± 0.04 mm (1000).
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Carbon fibre construction.
TiN-coated stainless steel tips.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	C3 mm	E mm	kg
D00531000150	0 ÷ 1000	1250	150	18	10	125	40	1,85
D00531000200	0 ÷ 1000	1250	200	18	10	160	40	1,98
D00531500150	0 ÷ 1500	1750	150	18	10	125	40	2,20
D00531500200	0 ÷ 1500	1750	200	18	10	160	40	2,33
D00532000150	0 ÷ 2000	2250	150	18	10	125	40	2,60
D00532000200	0 ÷ 2000	2250	200	18	10	160	40	2,73

DIGITAL CALIPER IP67 WITH PRESETS

ITEM: AA033



FEATURES
Accuracy ± 0.04 mm.
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic design.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

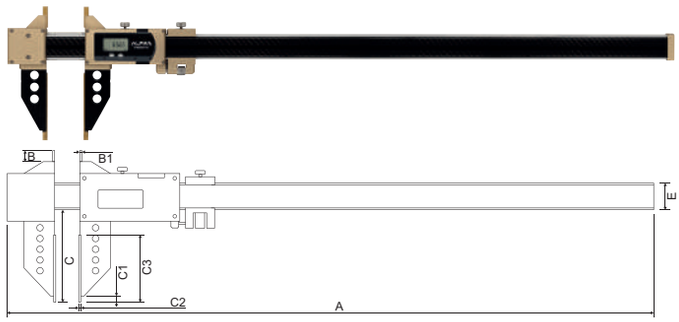
Supplied with calibration certificate.

Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	E mm	kg
D0057500/125	0 ÷ 500	660	125	11,5	5	23 x 6	2,05
D0057500/150	0 ÷ 500	660	150	11,5	5	27 x 7	2,25
D0057600/125	0 ÷ 600	800	125	11,5	5	23 x 6	2,45
D0057600/150	0 ÷ 600	800	150	11,5	5	27 x 7	2,65
D0057800	0 ÷ 800	1000	150	11,5	5	27 x 7	2,95
D00571000	0 ÷ 1000	1200	150	11,5	10	27 x 7	3,15

Tech. Code	Model
D99113V	3V Battery - CR2032

IP54 CARBON FIBRE DIGITAL CALIPER WITH PRESETS

ITEM: AA040



FEATURES
Accuracy ± 0.03 mm (1000).
Resolution 0.01 mm.
Protection IP54.
Swiss electronics protected from dust and water spray.
Carbon fibre construction with locking screw and micrometric adjustment.
TiN-coated stainless steel beaks.

FUNCTIONS
- Zero
- Preset
- ABS
- Hold
- mm/inch

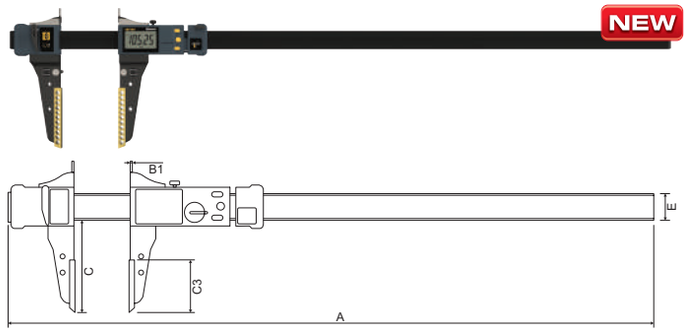
Supplied with calibration certificate.

Tech. Code	Range mm	A mm	B mm	B1 mm	C mm	C1 mm	C2 mm	C3 mm	E mm	kg
D00541000/150	0 ÷ 1000	1310	18	10	150	18	10	125	47 x 16	2,5
D00541000/300	0 ÷ 1000	1310	18	10	300	18	10	240	47 x 16	3,8
D00541000/500	0 ÷ 1000	1310	18	10	500	18	10	440	47 x 16	3,2
D00541500/150	0 ÷ 1500	1810	18	10	150	18	10	125	47 x 16	3,2
D00541500/200	0 ÷ 1500	1810	18	10	200	18	10	160	47 x 16	3,3
D00541500/300	0 ÷ 1500	1810	18	10	300	18	10	240	47 x 16	3,5
D00541500/500	0 ÷ 1500	1810	18	10	500	18	10	440	47 x 16	3,9
D00542000/150	0 ÷ 2000	2310	18	10	150	18	10	125	47 x 16	3,3
D00542000/200	0 ÷ 2000	2310	18	10	200	18	10	160	47 x 16	3,5
D00542000/300	0 ÷ 2000	2310	18	10	300	18	10	240	47 x 16	3,7
D00542000/500	0 ÷ 2000	2310	18	10	500	18	10	440	47 x 16	4,1
D00542500/200	0 ÷ 2500	2810	18	10	200	18	10	160	47 x 16	3,7
D00542500/300	0 ÷ 2500	2810	18	10	300	18	10	240	47 x 16	3,9
D00543000/200	0 ÷ 3000	3310	18	10	200	18	10	160	47 x 16	4
D00543000/300	0 ÷ 3000	3310	18	10	300	18	10	240	47 x 16	4,2
D00543500/200	0 ÷ 3500	3810	18	10	200	18	10	160	47 x 16	4,9
D00543500/300	0 ÷ 3500	3810	18	10	300	18	10	240	47 x 16	5,1
D00544000/200	0 ÷ 4000	4310	18	10	200	18	10	160	47 x 38	5,8
D00544000/300	0 ÷ 4000	4310	18	10	300	18	10	240	47 x 38	6
D00544500/200	0 ÷ 4500	4810	18	10	200	18	10	160	47 x 38	6,5
D00544500/300	0 ÷ 4500	4810	18	10	300	18	10	240	47 x 38	7
D00545000/200	0 ÷ 5000	5310	18	10	200	18	10	160	47 x 38	7,2
D00545000/300	0 ÷ 5000	5310	18	10	300	18	10	240	47 x 38	7,4

Tech. Code	Model
D99113V	3V Battery - CR2032

IP67 ALUMINIUM DIGITAL CALIPERS WITH BLUETOOTH® PRESETS AND MOVING BEAKS

ITEM: AA046



FEATURES
Resolution 0.01 mm.
IP67 protection.
Electronics protected against dust and brief immersion in water.
Reinforced aluminium construction.
Slide with locking screw.
Stainless steel nozzles with TiN coating.
Reinforced housing with internal prismatic guides.
Measuring force displayed in both pull and push.

FUNCTIONS
- Bluetooth®
- Preset
- ABS
- Hold

Supplied with calibration certificate.

Tech. Code	Range mm	A mm	B1 mm	C mm	C3 mm	E mm	kg
D0028400BT	0 ÷ 400	796	Ø 5	202	124	38	1,5
D0028600BT	0 ÷ 600	1001	Ø 5	202	124	38	1,6
D00281000BT	0 ÷ 1000	1411	Ø 5	202	124	38	1,9
D00281500BT	0 ÷ 1500	1926	Ø 5	202	124	38	2,3
D00282000BT	0 ÷ 2000	2441	Ø 5	202	124	38	2,6
D00282500BT	0 ÷ 2500	2956	Ø 5	202	124	38	2,9
D00283000BT	0 ÷ 3000	3471	Ø 5	202	124	38	3,3

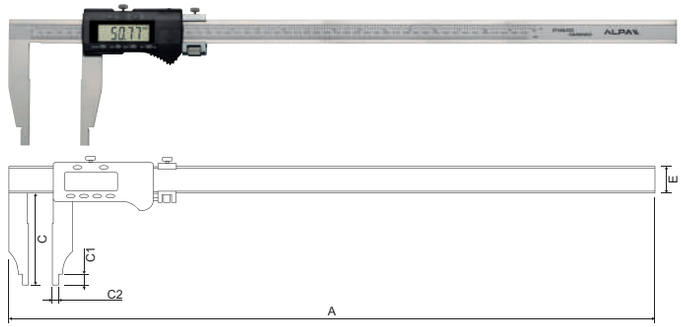
DIGITAL CALIPERS IP40 WITH MICROMETER ADJUSTMENT AND PRESETS

ITEM: AA050

FEATURES
Accuracy ± 0.05 mm (300).
Resolution 0.01 mm.
Protection IP40.
Hardened stainless steel construction.
Slide with locking screw and micrometric adjustment.
On/off button.

FUNCTIONS
- Zero
- Preset
- ABS
- mm/inch

Supplied with calibration certificate.



Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	E mm	kg
D0050300	0 ÷ 300	440	100	18	10	24 x 5,5	0,8
D0050500	0 ÷ 500	680	150	18	10	24 x 5,5	1
D0050500/100	0 ÷ 500	680	100	18	10	24 x 5,5	1
D0050500/200	0 ÷ 500	730	200	18	10	31 x 10,5	2
D0050600	0 ÷ 600	800	150	180	10	24 x 5,5	1,5
D0050600/300	0 ÷ 600	800	300	18	10	43 x 10	4,5
D0050800/150	0 ÷ 800	1000	150	24	10	31 x 10,5	2
D00501000	0 ÷ 1000	1230	150	24	10	31 x 10,5	2,5
D00501000/300	0 ÷ 1000	1230	300	24	10	43 x 10	6
D00501500	0 ÷ 1500	1800	300	24	10	43 x 10	6,5
D00501500/200	0 ÷ 1500	1800	200	24	10	43 x 10	6
D00502000	0 ÷ 2000	2300	300	24	10	43 x 10	8
D00503000	0 ÷ 3000	3300	300	24	10	43 x 10	10,5

Tech. Code	Model
D99113V	3V Battery - CR2032

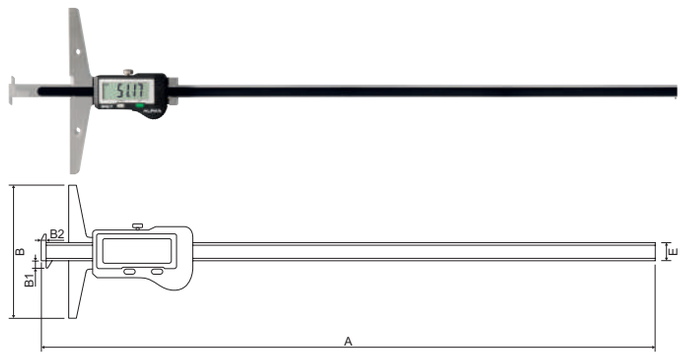
IP67 DIGITAL CALIPER WITH PRESETS

ITEM: AA059

FEATURES
Accuracy ± 0.02 mm (300).
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic design.
Interchangeable pull/push in the same plane.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	g
D0104300	0 ÷ 300	410	150 x 12	7	2,5	12 x 4	430
D0104400	0 ÷ 400	510	150 x 12	7	2,5	12 x 4	460
D0104500	0 ÷ 500	610	150 x 12	7	2,5	12 x 4	500
D0104600	0 ÷ 600	710	150 x 12	7	2,5	12 x 4	530

Tech. Code	Model
D99113V	3V Battery - CR2032

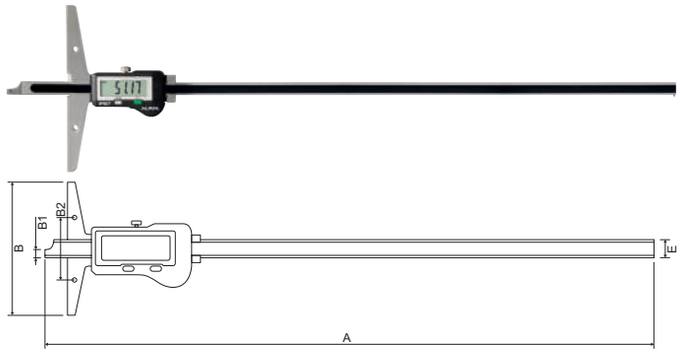
IP67 DIGITAL CALIPER WITH PRESETS

ITEM: AA054

FEATURES
Accuracy ± 0.02 mm (200).
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic shape.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	g
D0106300	0 ÷ 300	410	150 x 12	5,5	70	70	330
D0106400	0 ÷ 400	510	150 x 12	5,5	70	70	350
D0106500	0 ÷ 500	610	150 x 12	5,5	70	70	390
D0106600	0 ÷ 600	710	150 x 12	5,5	70	70	430

Tech. Code	Model
D99113V	3V Battery - CR2032

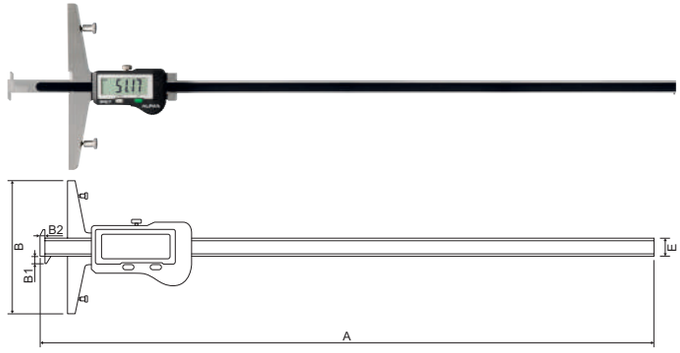
IP67 DIGITAL CALIPER WITH PRESETS

ITEM: AA064

FEATURES
Accuracy ± 0.03 mm (300).
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic shape.
Interchangeable pull/push in the same plane.
Ready for mobile bridge.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



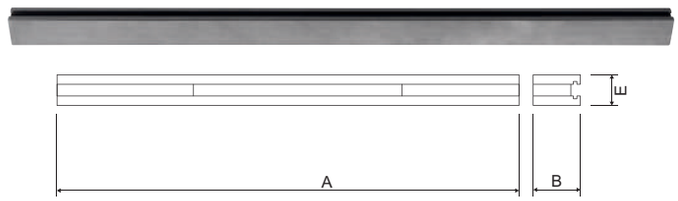
Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	g
D0103300	0 ÷ 300	410	150 x 12	7	2,5	12 x 4	430
D0103400	0 ÷ 400	510	150 x 12	7	2,5	12 x 4	465
D0103500	0 ÷ 500	610	150 x 12	7	2,5	12 x 4	495
D0103600	0 ÷ 600	710	150 x 12	7	2,5	12 x 4	530
D0103800	0 ÷ 800	910	150 x 12	7	2,5	12 x 4	580
D01031000	0 ÷ 1000	1110	150 x 12	7	2,5	12 x 4	630

Tech. Code	Model
D99113V	3V Battery - CR2032

MOBILE BRIDGE FOR DEPTH GAUGES

ITEM: ACC08

FEATURES
Mobile bridge for depth gauges code AA064.



Tech. Code	A mm	B mm	E mm	Weight g
D0112400	400	20	13	570
D0112500	500	20	13	690
D0112600	600	20	13	830

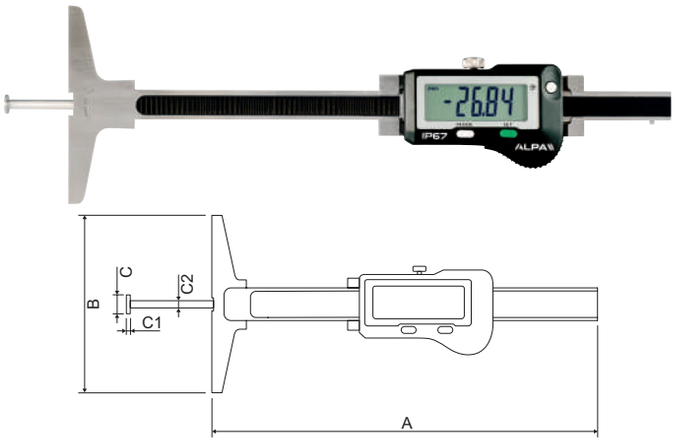
DIGITAL CALIPERS FOR IP67 SMALL BORE DEPTH WITH PRESETS

ITEM: AA083

FEATURES
Accuracy ± 0.02 mm.
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic shape.
Minimum bore diameter of 6 mm.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



Tech. Code	Range mm	A mm	B mm	C mm	C1 mm	C2 mm	g
D0111120	0 ÷ 120	220	80	ø 7,8	0,9	ø 4	270
D0111120S	0 ÷ 120	220	80	ø 5,8	0,6	ø 4	270

Tech. Code	Model
D99113V	3V Battery - CR2032

IP67 DIGITAL CALIPER WITH PRESETS

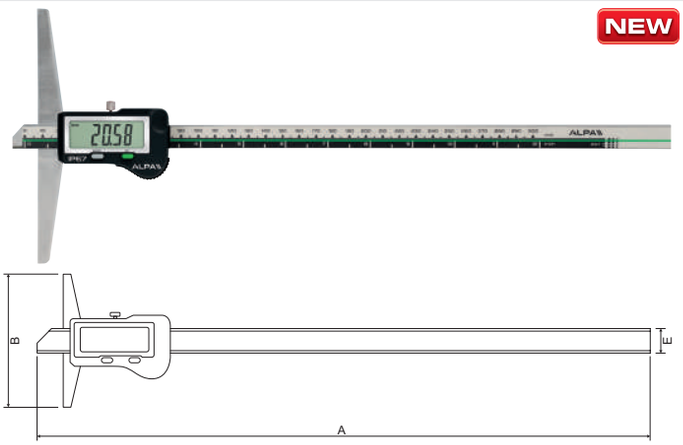
ITEM: AA107

NEW

FEATURES
Accuracy ± 0.02 mm.
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic design.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



Tech. Code	Range mm	A mm	B mm	E mm	g
D0025200	0 ÷ 200	285	100	14,5	200
D0025300	0 ÷ 300	390	150	14,5	270

Tech. Code	Model
D99113V	3V Battery - CR2032

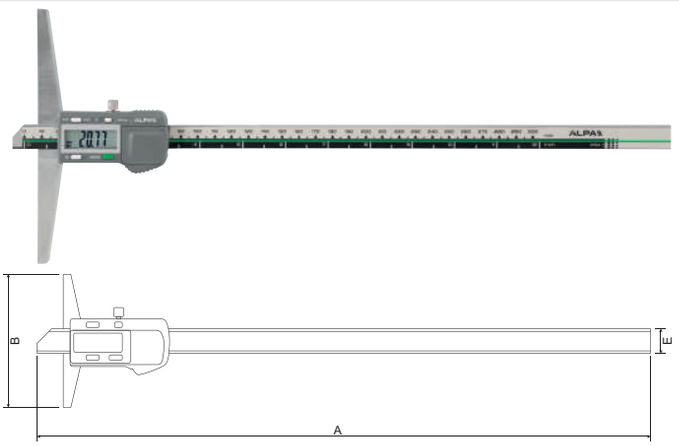
DIGITAL CALIPERS FOR DEPTH IP54

ITEM: AA101

FEATURES
Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP54.
Electronics protected against dust and splash water.
Slide with locking screw.
On/off button.

FUNCTIONS
- Zero
- ABS
- mm/inch

Supplied with calibration certificate.



Tech. Code	Range mm	A mm	B mm	E mm	g
D0021200	0 ÷ 200	285	100	14,5	200
D0021300	0 ÷ 300	390	150	14,5	270

Tech. Code	Model
D99113V	3V Battery - CR2032

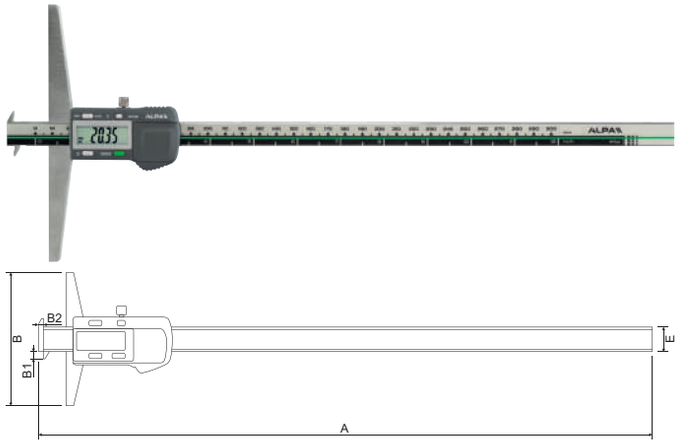
IP54 DIGITAL CALIPERS WITH DOUBLE FEET

ITEM: AA103

FEATURES
Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP54.
Electronics protected against dust and splash water.
Slide with locking screw.
On/off button.

FUNCTIONS
- Zero
- ABS
- mm/inch

Supplied with calibration certificate.



Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	g
D0022200	0 ÷ 200	285	100	4	4	14,5	200
D0022300	0 ÷ 300	390	150	4	4	14,5	270

Tech. Code	Model
D99113V	3V Battery - CR2032

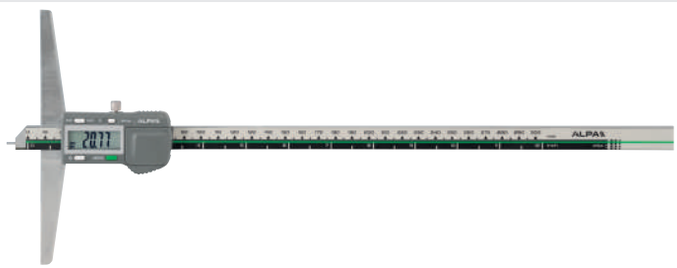
IP54 DIGITAL CALIPERS WITH PLUNGERS

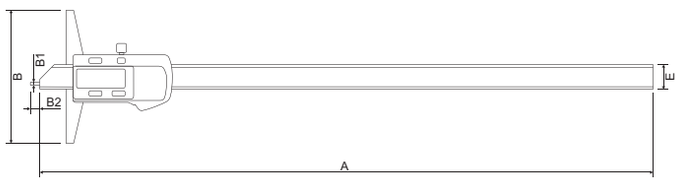
ITEM: AA105

FEATURES
Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP54.
Electronics protected against dust and splash water.
Slide with locking screw.
On/off button.

FUNCTIONS
- Zero
- ABS
- mm/inch

Supplied with calibration certificate.





Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	g
D0023200	0 ÷ 200	285	100	ø 1,5	6	14,5	200
D0023300	0 ÷ 300	390	150	ø 1,5	6	14,5	270

Tech. Code	Model
D99113V	3V Battery - CR2032

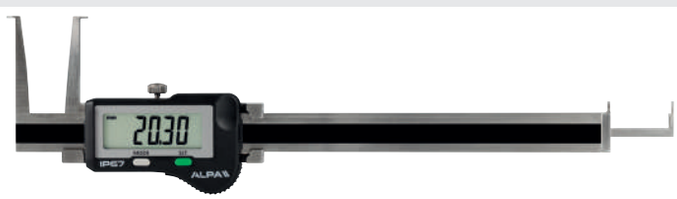
DIGITAL CALIPERS FOR IP67 GROOVES AND CHANNELS WITH PRESETS

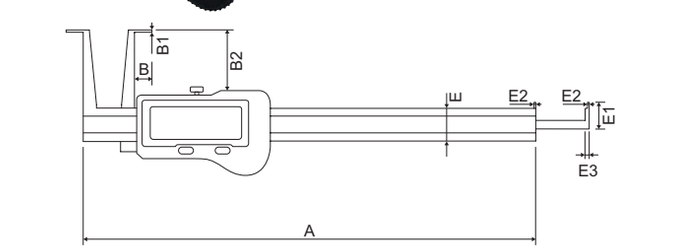
ITEM: AA086

FEATURES
Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic design.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



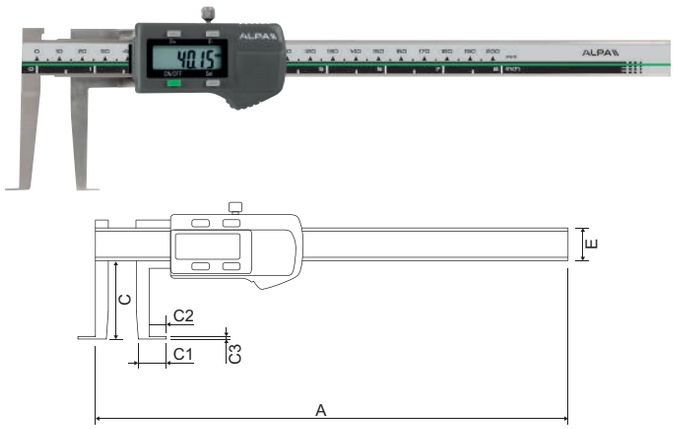


Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	E1 mm	E2 mm	E3 mm	g
D014610170	10 ÷ 170	230	3,5	0,95	32	16,5 x 4	15	1	2	195
D014620180	20 ÷ 180	230	8,5	0,95	32	16,5 x 4	15	1	2	200

Tech. Code	Model
D99113V	3V Battery - CR2032

DIGITAL CALIPERS FOR INTERNAL GROOVES IP40

ITEM: AA179



FEATURES
Accuracy ± 0.05 mm.
Resolution 0.01 mm.
Protection IP40.
Slide with locking screw.
On/off button.

FUNCTIONS
- Zero
- Preset

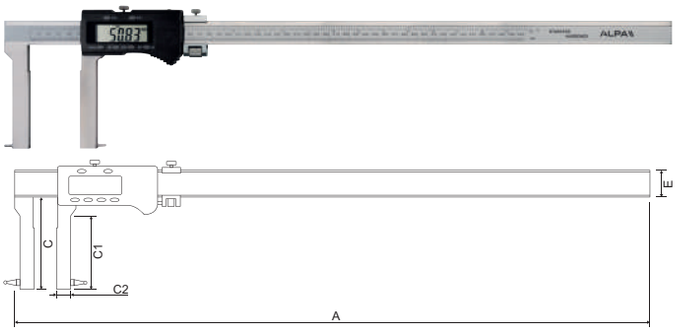
Supplied with calibration certificate.

Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	C3 mm	E mm	kg
D0156150	14 ÷ 150	235	30	12	5	1	16	0,2
D0156200	15 ÷ 200	285	40	13	5	1	16	0,25
D0156300	17 ÷ 300	400	50	15	5	1,5	16	0,5
D0156500	35 ÷ 500	670	120	33	8	1,5	24	1

Tech. Code	Model
D99113V	3V Battery - CR2032

IP40 DIGITAL CALIPERS WITH INTERCHANGEABLE TIPS AND MICROMETRIC ADJUSTMENT

ITEM: AA077



FEATURES
Accuracy ± 0.05 mm.
Resolution 0.01 mm.
Protection IP40.
Hardened stainless steel construction.
Slide with locking screw and micrometric adjustment.
On/off button.
Supplied with a pair of cylindrical tips with M2.5 thread.
Other tips to be ordered separately.

FUNCTIONS
- Zero
- Preset
- ABS
- mm/inch

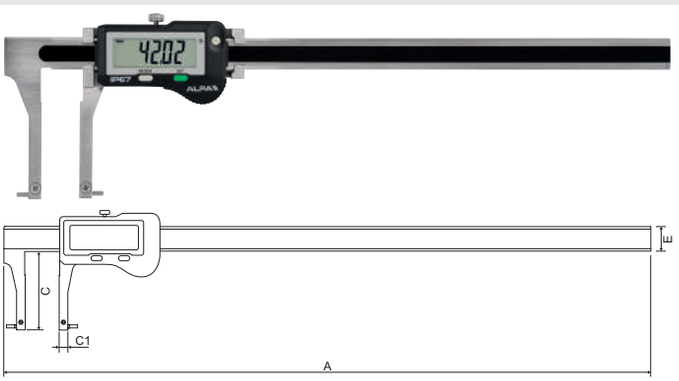
Supplied with calibration certificate.

Tech. Code	Internal range mm	External range mm	A mm	C mm	C1 mm	C2 mm	E mm	kg
D0160300	40 ÷ 300	0 ÷ 300	430	93	75	12	19 x 5	0,8
D0160500	50 ÷ 500	0 ÷ 500	680	103	88	16	23 x 5,5	1

Tech. Code	Model
D99113V	3V Battery - CR2032

DIGITAL CALIPERS FOR IP67 INTERNAL/EXTERNAL GROOVES WITH PRESETS

ITEM: AA084



FEATURES
Accuracy ± 0.02 mm (250).
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected from dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Easy handling thanks to ergonomic shape.
Interchangeable tips.
Supplied with Ø 3 mm ball tip and M 2 thread5 (code AA084350 and AA084450).
Supplied with hardened dowels Ø 2.5 mm (code AA084250).
Supplied with adapter Ø 3.5 mm and thread M2.5.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.

Tech. Code	Internal range mm	External range mm	A mm	C mm	C1 mm	E mm	g
D0182250	24 ÷ 250	0 ÷ 210	332	64	6,5	16,5 x 4,5	260
D0182350	44 ÷ 400	0 ÷ 320	470	103	10	17 x 5	560
D0182450	44 ÷ 500	0 ÷ 420	570	103	10	17 x 5	650

Tech. Code	Model
D99113V	3V Battery - CR2032

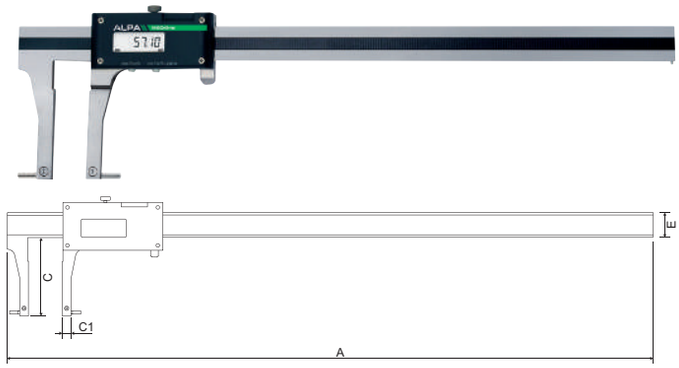
DIGITAL CALIPERS FOR INTERNAL/EXTERNAL GROOVES IP54 WITH PRESETS

ITEM: AA081

FEATURES
Accuracy ± 0.04 mm.
Resolution 0.01 mm.
Protection IP54.
Swiss electronics protected against dust and splash water.
Hardened stainless steel construction.
Slide with locking screw.
Interchangeable tips.
Supplied with Ø 3.5 mm plug-in tips.
Supplied with Ø 3.5 mm adapter and M 2.5 thread.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



Tech. Code	Internal range mm	External range mm	A mm	C mm	C1 mm	E mm	g
D0181650	44 ÷ 650	0 ÷ 570	720	103	10	22 x 5	740

Tech. Code	Model
D99113V	3V Battery - CR2032

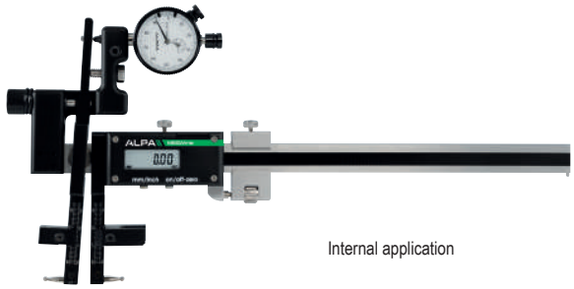
IP67 INDOOR/OUTDOOR COMPARATOR GAUGE WITH PRESET

ITEM: AA120

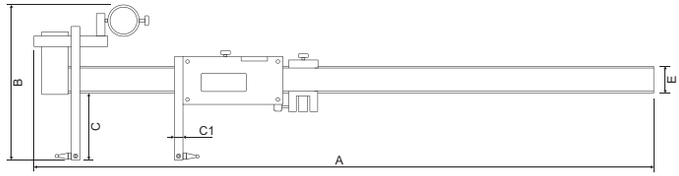
FEATURES
Accuracy ± 0.02 mm.
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Hardened stainless steel construction.
Slide with locking screw.
Interchangeable tips for grooves and threads.
Supplied with dial indicator 0.01 Ø 40 mm.
Analogue version also available on request.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



Internal application



Tech. Code	Range mm	A mm	B mm	C mm	C1 mm	E mm	g
D0325200	20 ÷ 200 x 60	325	142,5	55	8	18 x 4	600
D0325300	24 ÷ 300 x 80	435	182,5	75	10	22 x 5	950
D0325500	24 ÷ 500 x 80	635	182,5	75	10	22 x 5	1150

Tech. Code	Model
D99113V	3V Battery - CR2032

DIGITAL CALIPERS WITH LONG BEAKS FOR INDOOR USE WITH PRESETS

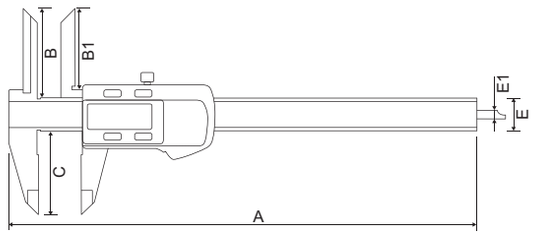
ITEM: AA104

FEATURES
Accuracy ± 0.04 mm.
Resolution 0.01 mm.
Protection IP40.
Hardened stainless steel construction.
Slide with locking screw.
On/off button.

FUNCTIONS
- Zero
- Preset

Supplied with calibration certificate.





Tech. Code	Range mm	A mm	B mm	B1 mm	C mm	E mm	E1 mm	g
D0061150	0 ÷ 150	236	49,5	45	40	16	3,7 x 1,5	170
D0061200	0 ÷ 200	286	54,5	50	50	16	3,7 x 1,5	200
D0061300	0 ÷ 300	400	49,5	45	60	17	3,7 x 1,5	270

Tech. Code	Model
D99113V	3V Battery - CR2032

IP40 DIGITAL CALIPERS WITH INTERCHANGEABLE TIPS AND PRESETS

ALPA

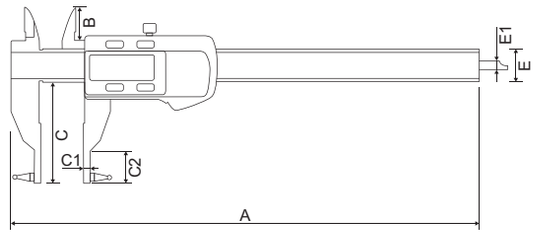
ITEM: AA176

FEATURES
Accuracy ± 0.05 mm.
Resolution 0.01 mm.
Protection IP40.
Hardened stainless steel construction.
Slide with locking screw.
On/off button.
Other tips to be ordered separately.

FUNCTIONS
- Zero
- Preset

Supplied with calibration certificate.





Tech. Code	Campo Ø1 - Ø6,5 mm	Campo Ø7 - Ø12 mm	A mm	B mm	C mm	C1 mm	C2 mm	E mm	E1 mm	g
D0151150	34 ÷ 150	46 ÷ 150	235	16,5	50	5	23	23	3,7 x 1,3	170
D0151200	34 ÷ 200	46 ÷ 200	285	19,5	50	5	23	23	3,7 x 1,3	200

Tech. Code	Model
D99113V	3V Battery - CR2032

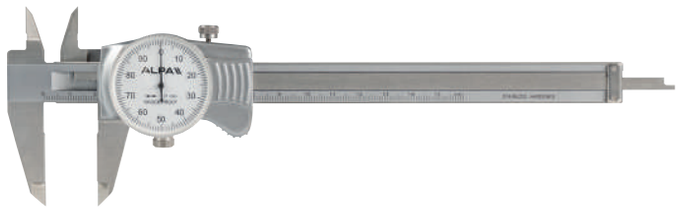
DIAL CALIPER

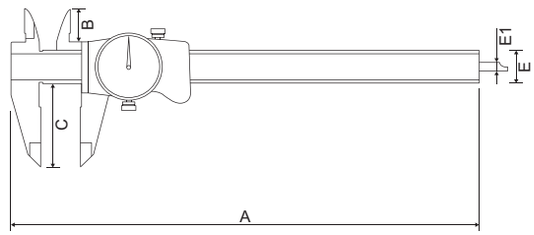
ALPA

ITEM: AC010

FEATURES
Accuracy ± 0.03 mm (150).
Resolution 0.01 mm.
Metal case.
Dial 39 mm.
1 hand revolution = 1 mm.

Supplied with calibration certificate.





Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	g
D021015002	0 ÷ 150	236	16,5	40	16	7 x 1,7	200
D021015001	0 ÷ 150	235	14	40	16	7 x 1,7	200
D021020002	0 ÷ 200	286	19,5	50	16	7 x 1,7	250
D021020001	0 ÷ 200	285	17	50	16	7 x 1,7	250
D021030002	0 ÷ 300	400	18,5	60	17	7 x 1,7	300
D021030001	0 ÷ 300	400	19	62	16,5	7 x 1,7	300

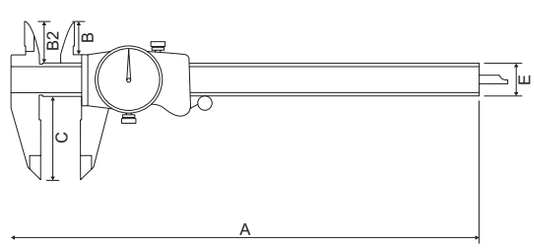
DIAL CALIPERS

Mitutoyo

ITEM: SERIE 505

FEATURES
Resolution 0.01 mm.
Rotating dial with locking screw and new, more readable character font.
Rack made of hardened and ground steel.
Slide with locking screw.



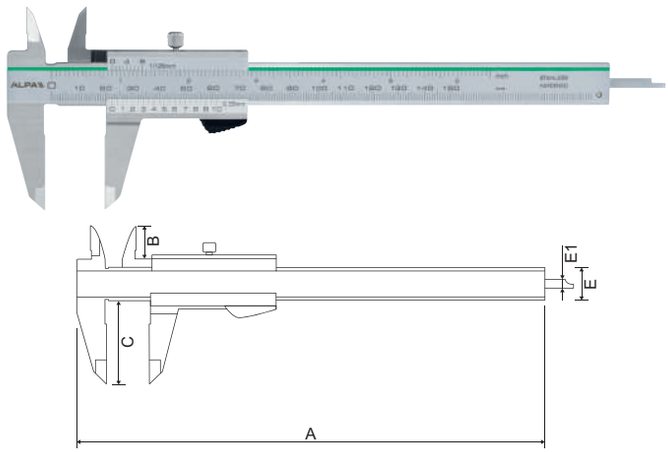


Tech. Code	Range mm	A mm	B mm	B2 mm	C mm	E mm
D0213150001	0 ÷ 150	231	16,5	21	40	16
D0213200001	0 ÷ 200	288	20	24,5	50	16

ONE-PIECE SLIDE CALIPER

ITEM: AB012

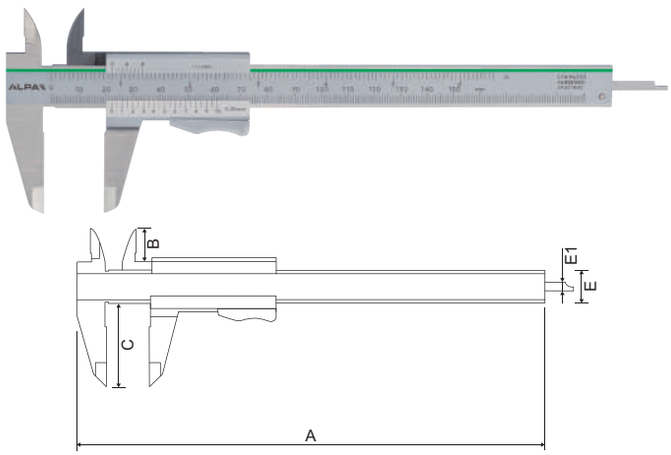
FEATURES
Nonio 1/20.
Readout 0.05 mm.
Hardened stainless steel construction.
Slide with locking screw.
Matt chrome-plated scale.
High precision.
Supplied with calibration certificate.



Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	g
D0205100	0 ÷ 100	170	13	30	13	3,7 x 1,3	90
D0205150	0 ÷ 150	228	16,5	40	16	3,7 x 1,3	170
D0205200	0 ÷ 200	286	19,5	50	16	3,7 x 1,3	200
D0205300	0 ÷ 300	400	21,5	60	16	3,7 x 1,3	280

ITEM: AB011

FEATURES
Nonio 1/20.
Readout 0.05 mm.
Hardened stainless steel construction.
Slide with locking button.
Matt chrome-plated scale.
High precision.
Supplied with calibration certificate.

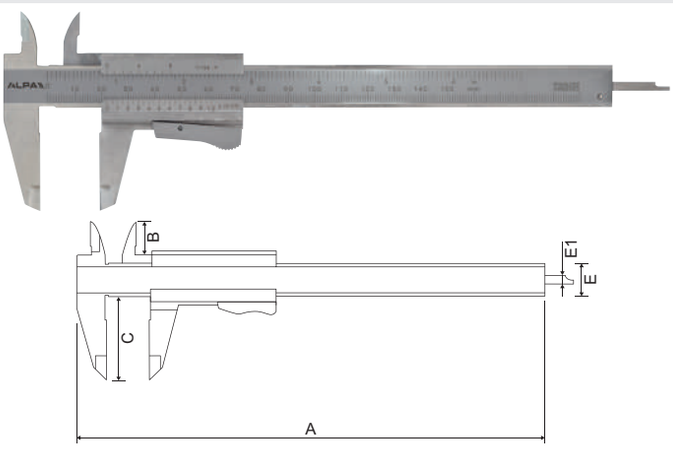


Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	g
D0206150	0 ÷ 150	228	16,5	40	16	3,5 x 1,3	170
D0206200	0 ÷ 200	290	19	50	17	3,5 x 1,3	200

ONE-PIECE SLIDE CALIPER

ITEM: AB025

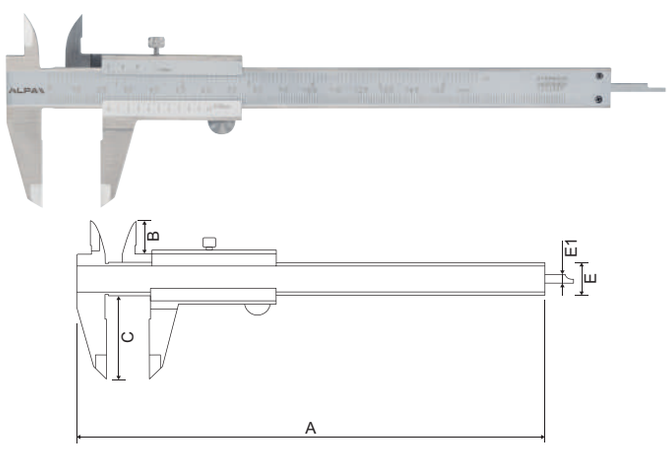
FEATURES
Nonius 1/20.
Readout 0.05 mm.
Hardened stainless steel construction.
Slide with locking button.
Matt chrome-plated scale.
High precision.
AB02515050 version with 1/50 nonius and 0.02 reading.
Supplied with calibration certificate.



Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	g
D0225150	0 ÷ 150	230	16,5	40	16	3,85 x 1,45	170
D0225200	0 ÷ 200	280	19,5	50	16	3,85 x 1,45	270
D0225300	0 ÷ 300	400	27	62	16	4,9 x 1,7	340

ITEM: AB017

FEATURES
Nonio 1/20.
Readout 0.05 mm.
Hardened stainless steel construction.
Slide with adjustment roller and locking screw.
Matt chrome-plated scale.
Supplied with calibration certificate.



Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	g
D0235100	0 ÷ 100	160	14,5	40	12	3,85 x 1,45	90
D0235150	0 ÷ 150	230	16,5	40	16	3,85 x 1,45	170
D0235200	0 ÷ 200	280	19,5	50	16	3,85 x 1,45	200
D0235300	0 ÷ 300	400	27	60	19	4,9 x 1,7	270

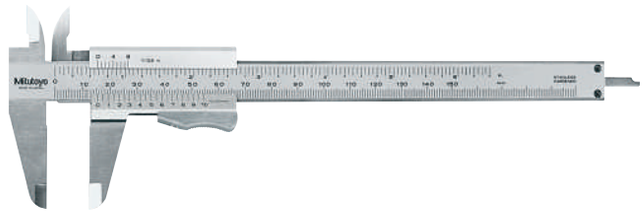
MONOBLOC VERNIER CALIPERS

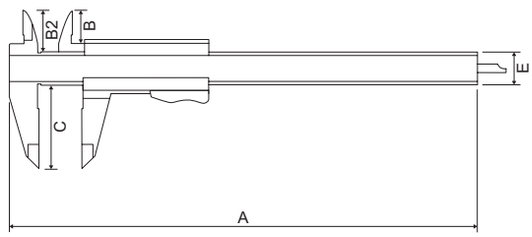
Mitutoyo

ITEM: SERIE 531

FEATURES
Vernier 1/20 reading 0.05 mm.
Matt chrome-plated scale.
Slide with lever lock.
Standard execution..

Tech. Code	Range mm	A mm	B mm	B2 mm	C mm	E mm
D0226150	0 ÷ 150	229	17	21,5	40	16

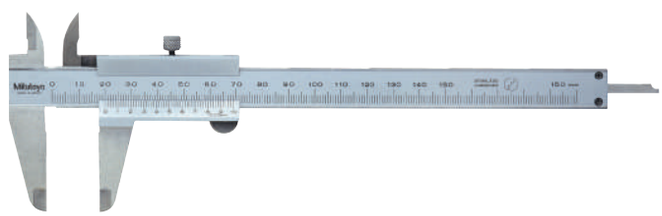


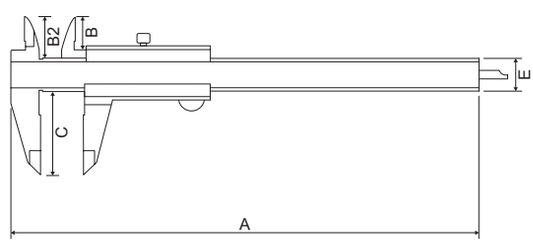


ITEM: SERIE 530

FEATURES
Vernier 1/50 reading 0.02 mm.
High accuracy, hardened steel caliper and slide.
Matt chrome-plated scale.
Slide with locking screw..

Tech. Code	Range mm	A mm	B mm	B2 mm	C mm	E mm
D0227150	0 ÷ 150	229	17	21	40	16
D0227200	0 ÷ 200	288	20,5	24,5	50	16
D0227300	0 ÷ 300	404	22	27,5	64	20

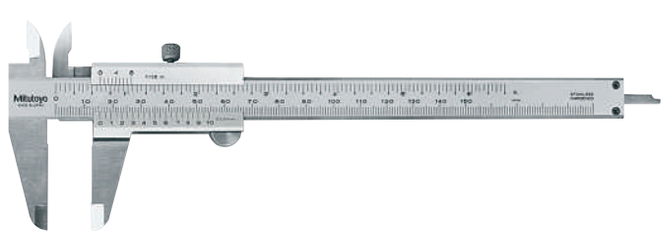


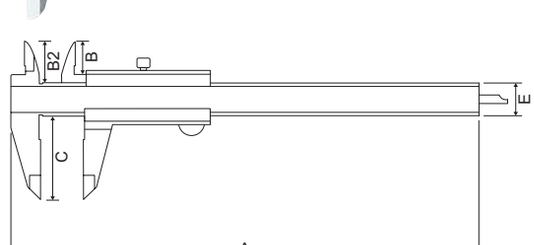


ITEM: SERIE 530

FEATURES
Vernier 1/20 reading 0.05 mm.
Caliper and slide in hardened steel.
Matt chrome-plated scale.
Slide with locking screw..

Tech. Code	Range mm	A mm	B mm	B2 mm	C mm	E mm
D0228150	0 ÷ 150	229	17	21	40	16
D0228200	0 ÷ 200	288	20,5	24,5	50	16

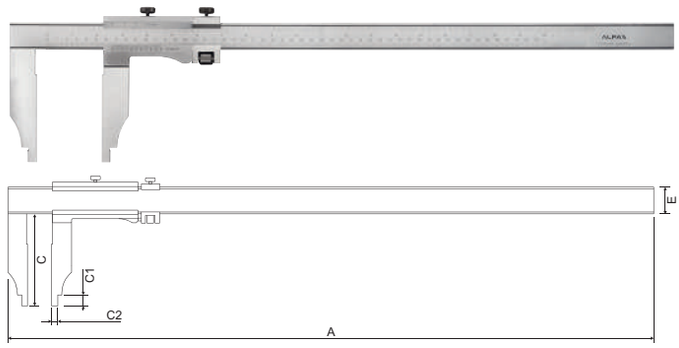




ONE-PIECE GAUGE FOR LARGE DIMENSIONS WITH MICROMETRIC ADJUSTMENT

ITEM: AB035

FEATURES
Nonio 1/50.
Readout 0.02 mm.
Stainless steel construction.
Slide with locking screw and micrometric adjustment.
Matt chrome-plated scale.
Supplied with calibration certificate.

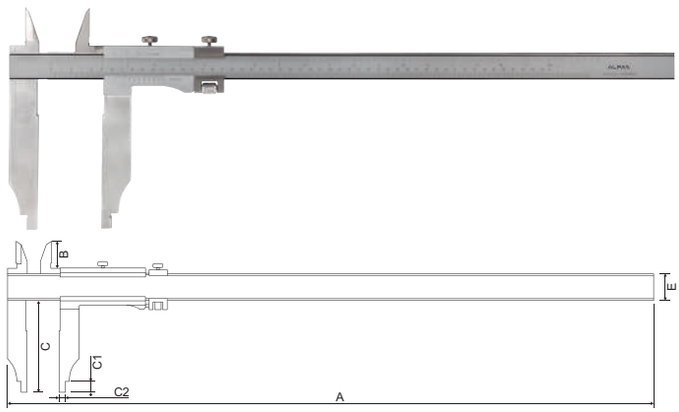


Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	E mm	kg
D0240300/90	0 ÷ 300	440	90	12	5	25 x 4	0,27
D0240300/150	0 ÷ 300	470	150	12	5	25 x 4	0,35
D0240400/125	0 ÷ 400	570	125	15	10	25 x 5,5	0,44
D0240500/150	0 ÷ 500	680	150	15	10	28 x 6,5	1,3
D0240600/150	0 ÷ 600	780	150	15	10	28 x 6,5	1,6
D0240600/200	0 ÷ 600	780	200	15	10	28 x 6,5	1,8
D0240600/300	0 ÷ 600	840	300	15	10	28 x 6,5	2,3
D0240800/150	0 ÷ 800	1070	150	20	10	32 x 7,5	1,8
D02401000/150	0 ÷ 1000	1270	150	20	10	32 x 7,5	2
D02401000/300	0 ÷ 1000	1270	300	20	10	32 x 7,5	4
D02401000/500	0 ÷ 1000	1270	500	20	10	32 x 7,5	4,5
D02401500/200	0 ÷ 1500	1800	200	20	10	40 x 10	6,3
D02401500/300	0 ÷ 1500	1800	300	20	10	40 x 10	6,9
D02402000/300	0 ÷ 2000	2300	300	20	10	40 x 10	8,4
D02403000/300	0 ÷ 3000	3400	300	20	10	50 x 16	11

ONE-PIECE GAUGE WITH TOP BEAKS FOR INDOOR USE WITH MICROMETRIC ADJUSTMENT

ITEM: AB045

FEATURES
Nonius 1/50.
Readout 0.02 mm.
Stainless steel construction.
Slide with locking screw and micrometric adjustment.
Supplied with calibration certificate.

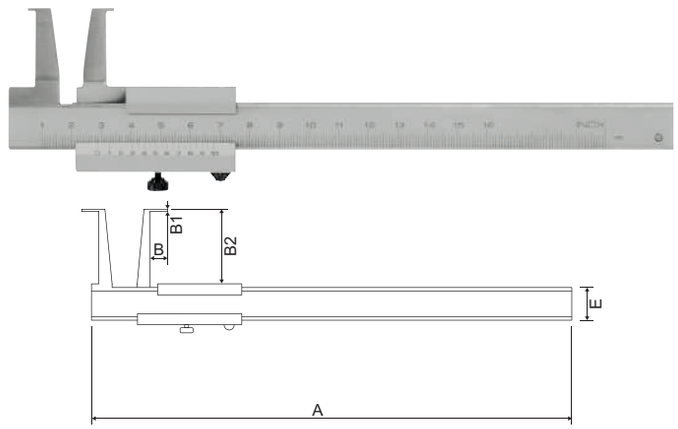


Tech. Code	Range mm	A mm	B mm	C mm	C1 mm	C2 mm	E mm	kg
D02520300	0 ÷ 300	440	30	90	12	5	20 x 5	0,6
D02520500	0 ÷ 500	680	39	150	18	10	24 x 5,5	1,5
D02520600	0 ÷ 600	780	39	150	18	10	24 x 5,5	1,8
D02521000	0 ÷ 1000	1270	51,5	150	24	10	31 x 10,5	3,5

INTERNAL GROOVE GAUGES

ITEM: AB067

FEATURES
Nonio 1/20.
Readout 0.05 mm.
Slide with locking screw.
Matt chrome-plated scale.
Supplied with calibration certificate.



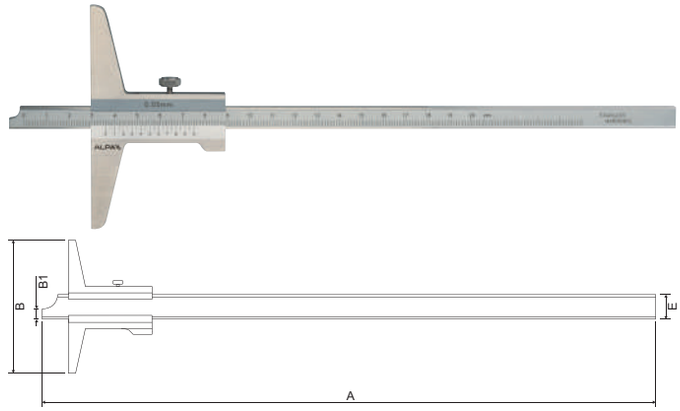
Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	g
D0270160	9,5 ÷ 160	225	3	0,9	25	15,8	190
D0270200	26 ÷ 200	285	7	3	60	18	200
D0270300	60 ÷ 300	385	10	5	100	24	250

ONE-PIECE DEPTH GAUGE

ITEM: AB055

FEATURES
Nonius 1/20.
Readout 0.05 mm.
Slide with locking screw.
Supplied with calibration certificate.

Tech. Code	Range mm	A mm	B mm	B1 mm	E mm	kg
D0310150	0 ÷ 150	250	100	5	10	0,2
D0310200	0 ÷ 200	300	100	5	10	0,2
D0310300	0 ÷ 300	400	150	5	10	0,3
D0310400	0 ÷ 400	505	150	4	11	0,4
D0310500	0 ÷ 500	605	150	4	11	0,6
D03101000	0 ÷ 1000	1160	200	7	18	2

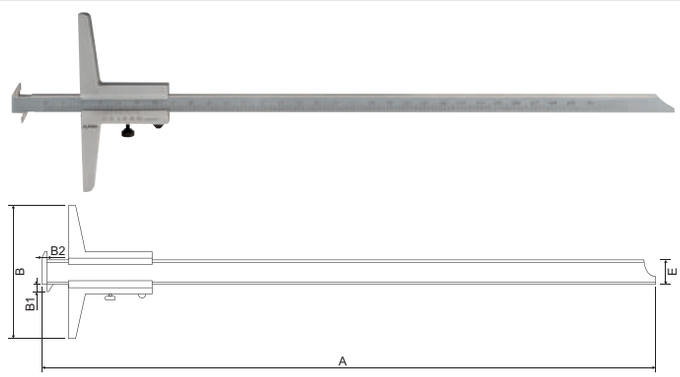


MONOBLOC DEPTH GAUGE WITH DOUBLE FOOT

ITEM: AB062

FEATURES
Nonius 1/20.
Readout 0.05 mm.
Slide with locking screw.
Supplied with calibration certificate.

Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	g
D0320200	0 ÷ 200	260	100	6	5	10	265
D0320300	0 ÷ 300	370	100	6	5	10	315



DIGITAL CALIPERS FOR GEARS WITH MICROMETRIC ADJUSTMENT

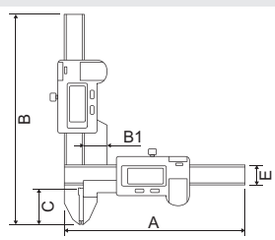
ITEM: AA140

FEATURES
Accuracy ± 0.04 mm.
Resolution 0.01 mm.
Protection IP40.
Calipers with locking screw and micrometric adjustment.
Stainless steel construction.
Hardened measuring surfaces.
FUNCTIONS
- Zero
Supplied with calibration certificate.

Tech. Code	Module	A mm	B mm	B1 mm	C mm	E mm	g
D03311/25DIG	1 - 25	166	166	21	30,5	13	400
D03315/50DIG	5 - 50	166	166	21	30,5	13	400

Tech. Code	Model
D99051,5V	Battery 1.5V SR44



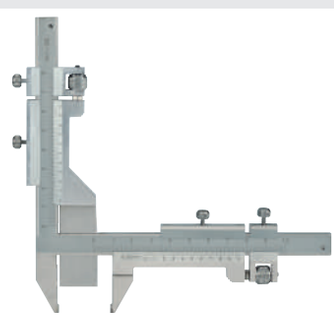


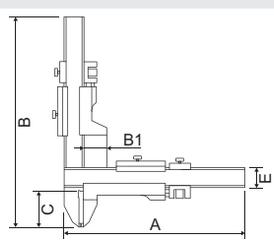
GEAR CALIPER WITH MICROMETRIC ADJUSTMENT

ITEM: AB140

FEATURES
Accuracy ± 0.04 mm.
Resolution 0.02 mm.
Calipers with clamping screw and micrometric adjustment.
Stainless steel construction.
Hardened measuring surfaces.
Supplied with calibration certificate.

Tech. Code	Module	A mm	B mm	B1 mm	C mm	E mm	g
D03301/25	1 - 25	166	155	20,5	30	12	400
D03305/50	5 - 50	166	155	20,5	30	12	400

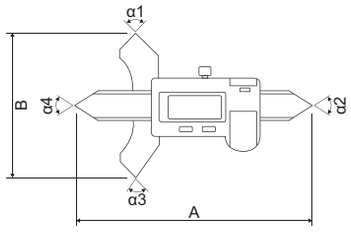




DIGITAL CALIPERS FOR WELDING

ITEM: AA145





FEATURES
Accuracy ± 0.03 mm.
Resolution 0.01 mm.
Protection IP40.
Courser with locking screw.
Chrome-plated stainless steel frame.
On/off button.
Nonius 1/10.
Angles 60°, 70°, 80°, 90°.

FUNCTIONS
- Zero
- mm/inch

Supplied with calibration certificate.

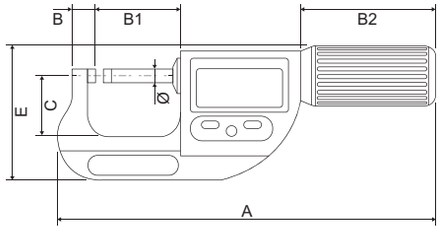
Tech. Code	Range mm	A mm	B mm	α1	α2	α3	α4	g
D03350/20DIG	0 ÷ 20	100	60	90°	70°	80°	60°	130
D03350/20MEC	0 ÷ 20	100	60	90°	70°	80°	60°	80

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

IP67 DIGITAL MICROMETER WITH FAST FEED AND PRESET

ITEM: BA010





FEATURES
Resolution 0.001 mm.
IP67 protection.
Swiss electronics protected against dust and brief immersion in water.
Automatic switch-on by moving the drum.
Stand-by position memory.
Drum stroke (10 mm/revolution).
Selectable measuring force 5N / 10N (BA01030 version).
Non-rotating stem.
Tungsten carbide contacts.
6.5 mm diameter stem.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.

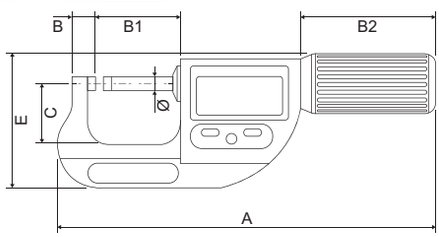
Tech. Code	Range mm	Accuracy mm	A mm	B mm	B1 mm	B2 mm	C mm	E mm	Ø mm
D1111000030	0 ÷ 30	± 0,003	181	12,5	37,3	68x28,5	27,5	63	6,5
D1111030060	30 ÷ 66	± 0,004	230	13,5	73,3	74x28,5	43	86	6,5
D1111066102	66 ÷ 102	± 0,005	269	14,5	109,3	74x28,5	60	106	6,5
D1111100136	100 ÷ 136	± 0,005	306	19,5	143,3	74x28,5	95	151	6,5
D1111125161	125 ÷ 161	± 0,005	339	19,5	168,3	74x28,5	110	169	6,5

Tech. Code	Model
D99113V	3V Battery - CR2032

IP67 DIGITAL MICROMETER WITH FAST FEED, BLUETOOTH® AND PRESETS

ITEM: BA012





FEATURES
Resolution 0.001 mm.
IP67 protection.
Electronics protected against dust and brief immersion in water.
Automatic switch-on by moving the drum.
Stand-by position memory.
Drum stroke (10 mm/revolution).
Selectable measuring force 5N / 10N (BA012030BT version).
Non-rotating stem.
Tungsten carbide contacts.
6.5 mm diameter stem.

FUNCTIONS
- Bluetooth®
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	A mm	B mm	B1 mm	B2 mm	C mm	E mm	Ø mm
D1114030BT	0 ÷ 30	± 0,003	181	12,5	37,3	68	27,5	63	6,5
D1114066BT	30 ÷ 66	± 0,004	230	13,5	73,3	74	43	86	6,5
D1114102BT	66 ÷ 102	± 0,005	269	14,5	109,3	74	60	106	6,5

IP65 DIGITAL MICROMETER WITH RAPID FEED

ALPA

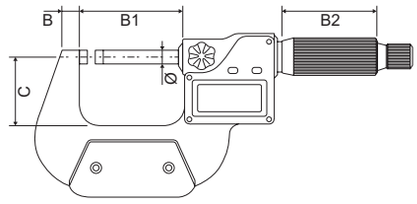
ITEM: BA020

FEATURES
Resolution 0.001 mm.
IP65 protection.
Electronics protected against dust and water jets.
Fast feed (2 mm/revolution).
Tungsten carbide contacts.
Painted arc.

FUNCTIONS
- Zero
- ABS
- Sleep
- mm/inch

Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	B mm	B1 mm	B2 mm	C mm	Ø mm
D1105025	0 ÷ 25	± 0,002	6	34,5	46x20	25	6,5
D11052550	25 ÷ 50	± 0,003	8	84,5	46x20	44,5	6,5
D11055075	50 ÷ 75	± 0,003	8	109,5	46x20	57	6,5
D110575100	75 ÷ 100	± 0,002	8	59,5	46x20	32	6,5

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

IP65 DIGITAL MICROMETER

ALPA

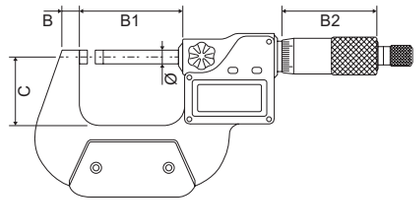
ITEM: BA025

FEATURES
Resolution 0.001 mm.
IP65 protection.
Electronics protected against dust and water jets.
Contacts hard metal.
Painted arc.
On/off button.

FUNCTIONS
- Zero
- ABS
- Sleep
- mm/inch

Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	B mm	B1 mm	B2 mm	C mm	Ø mm
D1110000025	0 ÷ 25	± 0,002	6	34,5	47x18	25	6,5
D1110025050	25 ÷ 50	± 0,002	8	59,5	47x18	32	6,5
D1110050075	50 ÷ 75	± 0,002	8	84,5	47x18	44,5	6,5
D1110075100	75 ÷ 100	± 0,002	8	109,5	47x18	57	6,5
D1110100125	100 ÷ 125	± 0,002	10	135	47x18	70	6,5
D1110125150	125 ÷ 150	± 0,002	10	160,5	47x18	82	6,5
D1110150175	150 ÷ 175	± 0,003	12	186	47x18	94,5	6,5
D1110175200	175 ÷ 200	± 0,003	12	211,5	47x18	107	6,5
D1110200225	200 ÷ 225	± 0,004	23	236	47x18	129	6,5
D1110225250	225 ÷ 250	± 0,004	23	261,5	47x18	142,5	6,5
D1110250275	250 ÷ 275	± 0,005	23	287	47x18	155	6,5
D1110275300	275 ÷ 300	± 0,005	23	310	47x18	170	6,5

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

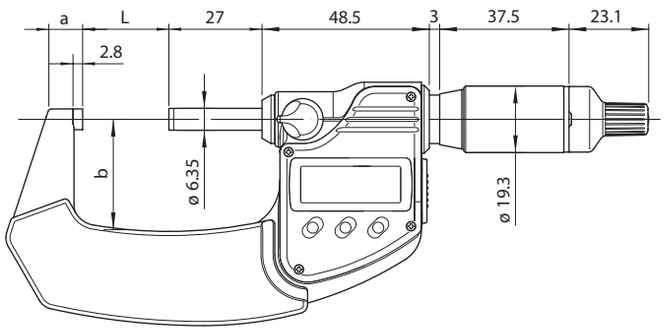
MICROMETRI DIGITALI IP65

Mitutoyo

ITEM: SERIE 293 - QUANTUMIKE

FEATURES
This micrometer, with a screw pitch of 2mm/rev, offers a speed of displacement of the stem four times higher than that of a common micrometer. The QuantuMike offers an Instrumental error of only ±1µm (for models with 75mm or less).The double clutch allows the use of the Instrument with one hand. The IP65 protection grants an excellent resistance to liquids and powders. Data output.





Tech. Code	Range mm	a mm	b mm	L min. mm
D110700025	0 ÷ 25	9	25	0

Tech. Code	Model
D99051,5V	Battery 1.5V SR44
D0004USBB	Digimatic cable Input Tool Direct, model IP65, 2 mt - USB
D0001RS232B	Digimatic cable with data key model IP6x, 1 mt-RS232

DIGITAL MICROMETERS IP65

Mitutoyo

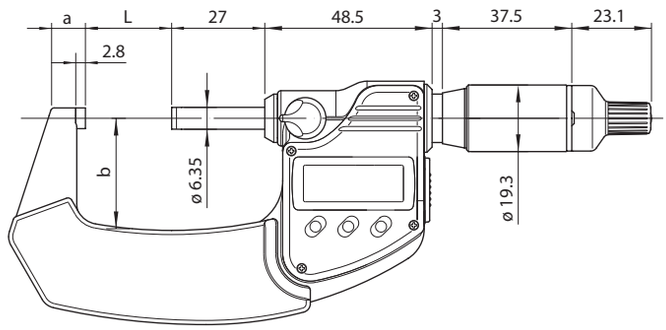
ITEM: SERIE 293

FEATURES
High-accuracy micrometer. Offers high-strength construction and IP65 protection.
Incredible accuracy with ±1µm instrumental error (models with measuring range 75 mm or less). Clutch on tang.



Tech. Code	Range mm	a mm	b mm	L min. mm
D1109000025	0 ÷ 25	6,5	25	0
D1109025050	25 ÷ 50	7,5	32,5	25
D1109050075	50 ÷ 75	10,1	47	50
D1109075100	75 ÷ 100	11,5	60	75

Tech. Code	Model
D99051,5V	Battery 1.5V SR44



IP40 DIGITAL MICROMETER

ALPA

ITEM: BA027

FEATURES
Resolution 0.001 mm.
IP40 protection.
Contacts hard metal.
Painted arc.
On/off button.

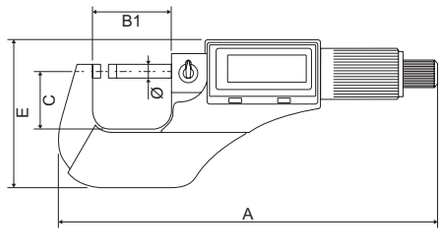
FUNCTIONS
- Zero
- ABS
- Hold
- mm/inch

Supplied with calibration certificate.



Tech. Code	Range mm	Accuracy mm	A mm	B1 mm	C mm	E mm	Ø mm
D111225	0 ÷ 25	± 0,003	60,2	22,5	155	27,3	6,5
D111250	25 ÷ 50	± 0,003	77,9	31	185,4	27,3	6,5

Tech. Code	Model
D99113V	3V Battery - CR2032



MILLESIMAL MICROMETER WITH ANALOGUE INDICATOR IP54

ALPA

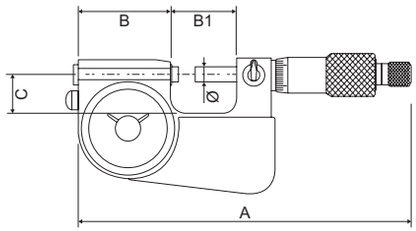
ITEM: BB040

FEATURES
Resolution 0.001 mm.
IP54 protection.
Electronics protected against dust and splash water.
Tungsten carbide contacts.
Painted arc.
Non-rotating stem.
Retractable anvil.
Indicator for precision measurements in series inspections.

Supplied with calibration certificate.



Tech. Code	Range mm	Accuracy mm	A mm	B mm	B1 mm	C mm
D1120000025	0 ÷ 25	± 0,003	28,5	43	36,5	19
D1120025050	25 ÷ 50	± 0,003	53,5	43	36,5	30



OUTDOOR MICROMETER

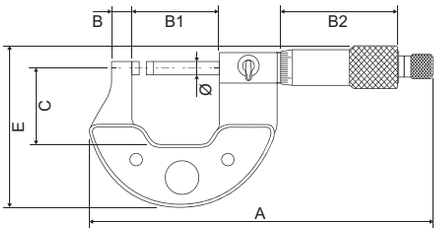
ALPA

ITEM: BB002

FEATURES
Resolution 0.01 mm.
Tungsten carbide contacts.
Painted arc with heat-insulating pads.
Sensitive clutch on drum.
Matt chrome-plated graduated drum.
Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	A mm	B mm	B1 mm	B2 mm	C mm
D1125000025	0 ÷ 25	± 0,004	61	7,1	32,5	47,5	25,5
D1125025050	25 ÷ 50	± 0,004	75	7,1	57,5	47,5	30,5
D1125050075	50 ÷ 75	± 0,005	95	8	83	47,5	45
D1125075100	75 ÷ 100	± 0,005	112	8	108	47,5	58
D1125100125	100 ÷ 125	± 0,006	128	8	133	47,5	67,5
D1125125150	125 ÷ 150	± 0,006	140	8	158	47,5	82
D1125150175	150 ÷ 175	± 0,007	160	8	183	47,5	93
D1125175200	175 ÷ 200	± 0,007	190	8	208	47,5	108





CENTESIMAL MICROMETER

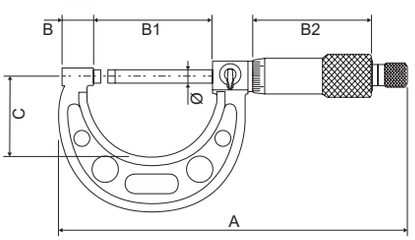
ALPA

ITEM: BB015

FEATURES
Resolution 0.01 mm.
Contacts tungsten carbide.
Painted arc.
Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	A mm	B mm	B1 mm	B2 mm	C mm
D1160000025	0 ÷ 25	± 0,004	125	9	32	47x18	28
D1160025050	25 ÷ 50	± 0,004	155	14	57	47x18	38
D1160050075	50 ÷ 75	± 0,005	181	15	82	47x18	49
D1160075100	75 ÷ 100	± 0,005	206	15	107	47x18	60
D1160100125	100 ÷ 125	± 0,006	233,5	16,5	133	47x18	73
D1160125150	125 ÷ 150	± 0,006	258,5	16,5	158	47x18	85
D1160150175	150 ÷ 175	± 0,007	286,4	19,4	183	47x18	104
D1160175200	175 ÷ 200	± 0,007	312,4	19,4	209	47x18	117
D1160200225	200 ÷ 225	± 0,008	337,4	19,4	234	47x18	130
D1160225250	225 ÷ 250	± 0,008	363,4	19,4	260	47x18	142
D1160250275	250 ÷ 275	± 0,009	388,4	19,4	285	47x18	155
D1160275300	275 ÷ 300	± 0,009	413,4	19,4	310	47x18	168





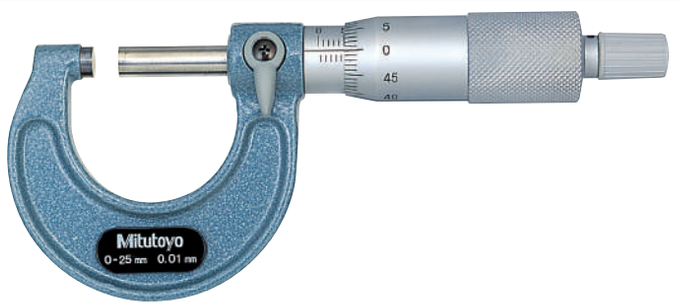
EXTERNAL MICROMETERS

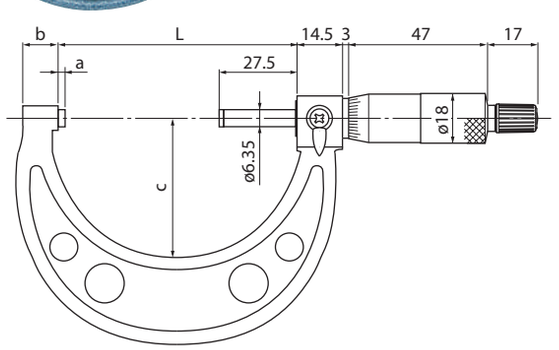
Mitutoyo

ITEM: SERIE 103

FEATURES
Resolution 0,01 mm spindle diameter 6,35mm. Matt graduated thimble, sensitive friction, locking lever, painted frame.

Tech. Code	Range mm	a mm	b mm	c mm	L mm
D1165000025	0 ÷ 25	2.8	9	28	30.3
D1165025050	25 ÷ 50	2.8	10	38	55.3
D1165050075	50 ÷ 75	2.8	12	46	80.3
D1165075100	75 ÷ 100	2.8	14	57	105.3
D1165100125	100 ÷ 125	5.3	17	76	132.8
D1165125150	125 ÷ 150	5.7	19	90	158.2
D1165150175	150 ÷ 175	6.1	20	102	183.6
D1165175200	175 ÷ 200	6.7	19	115	208.8





CENTESIMAL MICROMETER WITH COUNTER

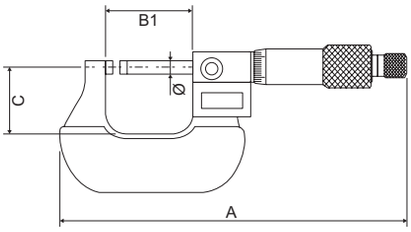
ALPA

ITEM: BB010

FEATURES
Resolution 0.01 mm.
Tungsten carbide contacts.
Painted arc.
Mechanical counter for fast reading.
Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm
D1170025	0 ÷ 25	± 0,004
D1170050	25 ÷ 50	± 0,004
D1170075	50 ÷ 75	± 0,005
D11700100	75 ÷ 100	± 0,005





CENTESIMAL MICROMETER SET

ALPA

ITEM: BB020

FEATURES
Resolution 0.01 mm.
Contacts tungsten carbide.
Painted arc.
Supplied with calibration certificate.

Tech. Code	Range mm	Composition
D1175SET4	Set 0 ÷ 100	BB01525 - BB01550 - BB01575 - BB015100
D1175SET6	Set 0 ÷ 150	BB01525 - BB01550 - BB01575 - BB015100 BB015125 - BB01550
D1175SET12	Set 0 ÷ 300	BB01525 - BB01550 - BB01575 - BB015100 BB015125 - BB015150 - BB015175 BB015200 - BB015225 - BB015250 BB015275 - BB015300



EXTERNAL MICROMETERS IN SET

Mitutoyo

ITEM: SERIE 103

FEATURES
Resolution 0.01 mm.
Stem diameter 6.35 mm
Opaque graduated thimble, sensitive clutch, locking lever, painted bow.

Tech. Code	Range mm	Instruments n°
D1177SET6	0 ÷ 150	6



CENTESIMAL MICROMETER WITH LARGE DRUM

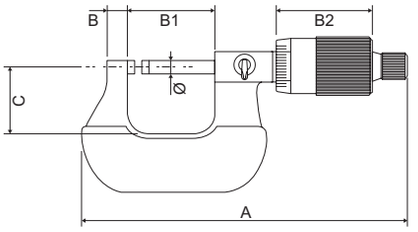
ITEM: BB030

FEATURES
Resolution 0.01 mm.
Drum stroke (1 mm/revolution).
Tungsten carbide contacts.
Painted arc.
Drum friction.

Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	A mm	B mm	B1 mm	B2 mm	C mm
D1140000025	0 ÷ 25	± 0,004	122	6	32	48x30	24
D1140025050	25 ÷ 50	± 0,004	149	8	57	48x30	32
D1140050075	50 ÷ 70	± 0,005	174	8	82	48x30	45
D1140075100	75 ÷ 100	± 0,005	199	8	107	48x30	57
D1140100125	100 ÷ 125	± 0,006	225	8	133	48x30	70
D1140125150	125 ÷ 150	± 0,006	265	8	173	48x30	82
D1140150175	150 ÷ 175	± 0,007	275	8	183	48x30	95
D1140175200	175 ÷ 200	± 0,007	301	8	209	48x30	107





MICROMETER HOLDER

ITEM: BC060

FEATURES
Stand with cast iron oval base and interchangeable light alloy clamp.

Tech. Code	Dimensions mm	kg
D12501	170 x 120 x 120 h	1



ALPA metrology

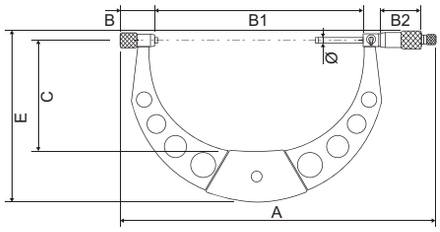
Accuracy
Repeatability
Reliability

CENTESIMAL MICROMETER

ITEM: BB004

FEATURES
Resolution 0.01 mm.
Tungsten carbide contacts.
Painted arc with heat-insulating pads.
Clutch on drum.
Matt chrome-plated graduated drum.

Supplied with calibration certificate.





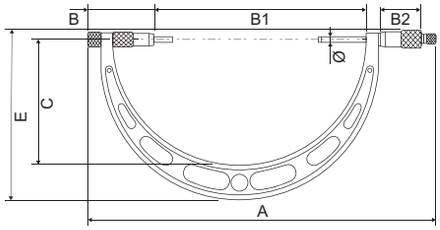
Tech. Code	Range mm	Accuracy mm	A mm	B mm	B1 mm	B2 mm	C mm	E mm	Ø mm
D1123200300	200 ÷ 300	± 0,009	450	48,5	337	47,5	175	262	8
D1123300400	300 ÷ 400	± 0,011	450	43,5	437	47,5	225	262	8
D1123400500	400 ÷ 500	± 0,013	450	43,5	537	47,5	275	262	8

LIGHT ALLOY CENTESIMAL MICROMETER

ITEM: BB008

FEATURES
Resolution 0.01 mm.
Tungsten carbide contacts.
Forged aluminium arc with heat-insulating cheeks.
Opaque graduated drum.

Supplied with calibration certificate.





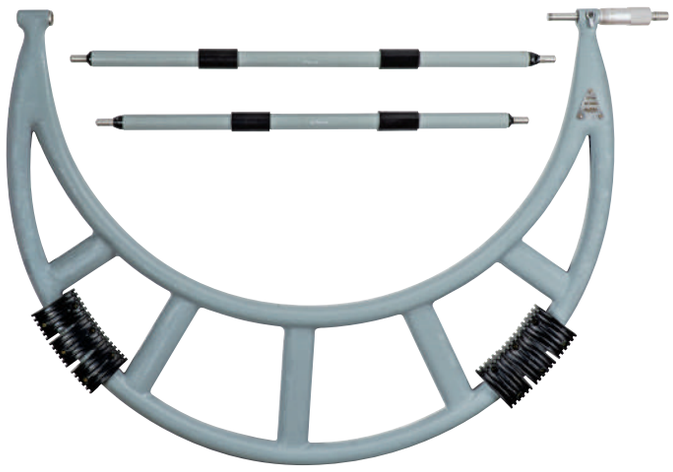
Tech. Code	Range mm	Accuracy mm	A mm	B mm	B1 mm	B2 mm	C mm	E mm	Ø mm
D1124500600	500 ÷ 600	± 0,014	644	105	582	74	325	450	10
D1124600700	600 ÷ 700	± 0,016	745	105	682	74	375	500	10
D1124700800	700 ÷ 800	± 0,018	846	105	782	74	425	550	10
D1124800900	800 ÷ 900	± 0,020	948	105	882	74	475	600	10
D11249001000	900 ÷ 1000	± 0,022	1050	105	982	74	525	650	10

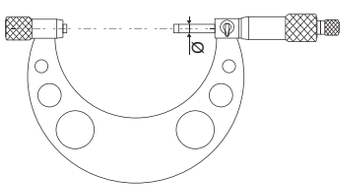
CENTESIMAL MICROMETER

ITEM: BB006

FEATURES
Resolution 0.01 mm.
Tungsten carbide contacts.
Painted arc.
Clutch on drum.
Matt chrome-plated graduated drum.
Locking lever.
Supplied with zeroing stops.

Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	Arch
D12100100	0 ÷ 100	± 0,007	Solid
D1210100200	100 ÷ 200	± 0,008	Solid
D1210200300	200 ÷ 300	± 0,009	Solid

Tech. Code	Range mm	Accuracy mm	Arch
D1210300400	300 ÷ 400	± 0,011	Tubular
D1210400500	400 ÷ 500	± 0,013	Tubular
D1210500600	500 ÷ 600	± 0,015	Tubular
D1210600700	600 ÷ 700	± 0,016	Tubular
D1210700800	700 ÷ 800	± 0,018	Tubular
D1210800900	800 ÷ 900	± 0,020	Tubular
D12109001000	900 ÷ 1000	± 0,020	Tubular
D121010001200	1000 ÷ 1200	± 0,020	Tubular
D121012001400	1200 ÷ 1400	± 0,024	Tubular
D121014001600	1400 ÷ 1600	± 0,028	Tubular
D121016001800	1600 ÷ 1800	± 0,031	Tubular
D121018002000	1800 ÷ 2000	± 0,034	Tubular

IP67 INDOOR DIGITAL MICROMETER WITH BLUETOOTH® AND PRESET

ITEM: BA211



FEATURES
Resolution 0.001 mm.
IP67 protection.
Electronics protected against dust and brief immersion in water.
Supplied with UKAS certificate of measuring heads and calibration rings.
Measuring heads for threads, grooves, deep bores and many other applications available on request.

FUNCTIONS
- Bluetooth®
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	Depth mm	Ring mm	Display BT	Head
D1269025035	25 ÷ 35	0,004	66	35	BA20750	BB29035
D1269035050	35 ÷ 50	0,004	80	35	BA20750	BB29050
D1269050065	50 ÷ 65	0,005	80	65	BA207100	BB29065
D1269065080	65 ÷ 80	0,005	80	65	BA207100	BB29080
D1269080100	80 ÷ 100	0,005	100	80	BA207100	BB290100

Tech. Code	Model
D99113V	3V Battery - CR2032

IP67 INDOOR DIGITAL MICROMETER SET WITH BLUETOOTH® AND PRESETS

ITEM: BA212



FEATURES
Resolution 0.001 mm.
IP67 protection.
Electronics protected against dust and brief immersion in water.
Supplied with UKAS certificate of measuring heads and calibration rings.
Measuring heads for threads, grooves, deep bores and many other applications available on request.

FUNCTIONS
- Bluetooth®
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.

Tech. Code	Range mm	Measuring heads Pcs.	Setting rings Pcs.
D1277006010SET	6 ÷ 10	2	1
D1277010020SET	10 ÷ 20	3	2
D1277020050SET	20 ÷ 50	3	2
D1277050100SET	50 ÷ 100	3	2
D1277100150SET	100 ÷ 150	2	1
D1277100200SET	100 ÷ 200	4	2
D1277150200SET	150 ÷ 200	2	1

Tech. Code	Model
D99113V	3V Battery - CR2032

IP67 DIGITAL MICROMETER FOR INDOOR USE WITH BLUETOOTH® AND PRESETS

ITEM: BA225



FEATURES
Resolution 0.001 mm.
IP67 protection.
Electronics protected against dust and brief immersion in water.
4 Presets.
Supplied with UKAS certificate of measuring heads and calibration rings.
High repeatability pistol trigger.
Ideal for series inspection.
Carbide contacts.
Measuring blind holes from Ø 12.5 mm.
Measuring heads for threads, grooves, deep holes and many other applications available on request.

FUNCTIONS
- Bluetooth®
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	Depth mm	Ring mm	Display BT	Head
D1276025035	25 ÷ 35	0,004	66	35	BA232100	BB29035
D1276035050	35 ÷ 50	0,004	80	35	BA232100	BB29050
D1276050065	50 ÷ 65	0,005	80	65	BA232100	BB29065
D1276065080	65 ÷ 80	0,005	80	65	BA232100	BB29080
D1276080100	80 ÷ 100	0,005	85	80	BA232100	BB290100

Tech. Code	Model
D99113V	3V Battery - CR2032

IP67 QUICK-ACTING INDOOR DIGITAL MICROMETER SET WITH BLUETOOTH® AND PRESETS

ITEM: BA242



FEATURES
Resolution 0.001 mm.
IP67 protection.
Electronics protected against dust and brief immersion in water.
4 Presets.
Supplied with UKAS certificate of measuring heads and calibration rings.
High repeatability pistol trigger.
Ideal for series testing.
Tungsten carbide contacts.
Measuring blind holes from Ø 12.5 mm.
Supplied in wooden case complete with calibration rings.

FUNCTIONS
- Bluetooth®
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.

Tech. Code	Range mm	Measuring heads Pcs.	Setting rings Pcs.
D1286006010SET	6 ÷ 10	2	1
D1286006020SET	6 ÷ 20	5	3
D1286010020SET	10 ÷ 20	3	2
D1286020050SET	20 ÷ 50	3	2
D1286020100SET	20 ÷ 100	6	2
D1286050100SET	50 ÷ 100	3	2
D1286100150SET	100 ÷ 150	2	1
D1286100200SET	100 ÷ 200	4	2
D1286150200SET	150 ÷ 200	2	1

Tech. Code	Model
D99113V	3V Battery - CR2032

SET OF DIGITAL MICROMETERS FOR SMALL BORES

ITEM: BA270

FEATURES
Set supplied with reading unit, head, ring and UKAS certificate.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.



Tech. Code	Range mm	Measuring heads Pcs.	Setting rings Pcs.
D1288150245	1,50 ÷ 2,45	3	3
D1288365635	3,65 ÷ 6,35	5	5
D1288225635	2,25 ÷ 6,35	11	11

Tech. Code	Model
D99113V	3V Battery - CR2032

ANALOGUE INDOOR MICROMETER

ITEM: BB300

FEATURES
Supplied with UKAS certificate of XTA measuring heads and calibration rings.
Large measuring travel.
Wide range 2-300 mm.
Easily readable scale.
* 2-6 mm measurement on 2 points.

Supplied with calibration certificate.



Tech. Code	Range mm	Accuracy mm	Depth mm
D1290006008	6 ÷ 8	0,004	58
D1290008010	8 ÷ 10	0,004	58
D1290010012,5	10 ÷ 12,5	0,004	58
D1290012,5016	12,5 ÷ 16	0,004	62
D1290016020	16 ÷ 20	0,004	62
D1290020025	20 ÷ 25	0,004	66
D1290025030	25 ÷ 35	0,004	66
D1290035050	35 ÷ 50	0,004	80
D1290050065	50 ÷ 65	0,005	80
D1290065080	65 ÷ 80	0,005	80
D1290080100	80 ÷ 100	0,005	100
D1290100125	100 ÷ 125	0,006	115
D1290125150	125 ÷ 150	0,006	115
D1290150175	150 ÷ 175	0,007	115
D1290175200	175 ÷ 200	0,007	115
D1290200225	200 ÷ 225	0,008	118
D1290225250	225 ÷ 250	0,008	118
D1290250275	250 ÷ 275	0,009	118
D1290275300	275 ÷ 300	0,009	118

ANALOGUE MICROMETER SET FOR INDOOR USE

ITEM: BB310

FEATURES
Supplied with UKAS certificate of XTA measuring heads and calibration rings.
Large measuring range 2-300 mm.
Easy-to-read scale.

Supplied with calibration certificate.

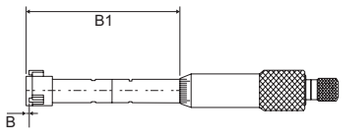


Tech. Code	Range mm	Measuring heads Pcs.	Setting rings Pcs.
D1295006010SET	6 ÷ 10	2	1
D1295010020SET	10 ÷ 20	3	2
D1295020050SET	20 ÷ 50	3	2
D1295050100SET	50 ÷ 100	3	2
D1295100150SET	100 ÷ 150	2	1

CENTESIMAL THREE-POINT INDOOR MICROMETER

ITEM: BB270

FEATURES
Resolution 0.01 mm.
Graduated drum with sensitive friction.
Supplied with ring and extension.
Reading range 6-12 mm 0.001, over 0.005 mm.
Supplied with calibration certificate.



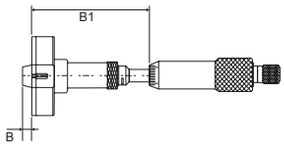


Tech. Code	Range mm	Accuracy mm	B mm	B1 mm
D1310006008	6 ÷ 8	± 0,004	1,5	54,5
D1310008010	8 ÷ 10	± 0,004	1,5	54,5
D1310010012	10 ÷ 12	± 0,004	1,5	54,5
D1310012016	12 ÷ 16	± 0,004	0,5	80
D1310016020	16 ÷ 20	± 0,004	0,5	80
D1310020025	20 ÷ 25	± 0,004	0,5	90
D1310025030	25 ÷ 30	± 0,004	0,5	90
D1310030040	30 ÷ 40	± 0,004	0,5	97
D1310040050	40 ÷ 50	± 0,005	0,5	97
D1310050063	50 ÷ 63	± 0,005	0,5	114
D1310062075	62 ÷ 75	± 0,005	0,5	114
D1310075088	75 ÷ 88	± 0,005	0,5	114
D1310087100	87 ÷ 100	± 0,005	0,5	114

THREE-PRONGED INDOOR MICROMETER

ITEM: BB271

FEATURES
Resolution 0.005 mm.
Graduated drum with sensitive friction.
Supplied without ring and extension.
Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	Extension mm	B mm	B1 mm
D1311100125	100 ÷ 125	± 0,005	150	16	145
D1311125150	125 ÷ 150	± 0,005	150	16	145
D1311150175	150 ÷ 175	± 0,005	150	16	145
D1311175200	175 ÷ 200	± 0,005	150	16	145
D1311200225	200 ÷ 225	± 0,010	150	16	145
D1311225250	225 ÷ 250	± 0,010	150	16	145
D1311250275	250 ÷ 275	± 0,010	150	16	145
D1311275300	275 ÷ 300	± 0,010	150	16	145

CENTESIMAL THREE-POINT INDOOR MICROMETERS IN SETS

ITEM: BB272

FEATURES
Resolution 0.01 mm.
Graduated drum with sensitive friction.
Supplied with ring and extension.
Reading range 6-12 mm 0.001, over 0.005 mm.
Supplied with calibration certificate.



Tech. Code	Range mm	Extension mm	Dimensions mm	Ring Ø mm
D1315006012	6 ÷ 12	100	6-8/8-10/10-12	6/8/10
D1315012020	12 ÷ 20	150	12-16/16-20	16
D1315020040	20 ÷ 40	150	20-25/25-30/30-40	25/40
D1315040100	40 ÷ 100	150	40-50/50-63/62-75/75-88/87-100	40/62/87

CENTESIMAL MICROMETER FOR INDOOR USE WITH MODULAR EXTENSIONS

ALPA

ITEM: BB250

FEATURES
Centesimal micrometer for indoor use with modular extensions.
Supplied with calibration certificate.



Tech. Code	Range mm	Extension Ø mm	Composition mm
D137550300	50 ÷ 300	16	13 - 25 - 50 (2 pcs) - 100
D137550600	50 ÷ 600	16	13 - 25 - 50 - 100 - 150 - 200
D1375501000	50 ÷ 1000	16	13 - 25 - 50 - 100 (2 pcs.) 150 - 200 - 300
D1375501500	50 ÷ 1500	16	13 - 25 - 50 - 100 (2 pcs.) 150 - 200 (2 pcs.) 300 (2 pcs.)
D13751502000	150 ÷ 2000	23	25 - 50 (2 pcs.) 100 - 200 (2 pcs.) 400 (3 pcs.)
D137510003000	1000 ÷ 3000	28	50 - 100 (2 pcs.) 200 - 500 - 1000

Extensions up to 1000 mm available.

DIGITAL MICROMETER FOR IP65 THREADS WITH PRESET

ALPA

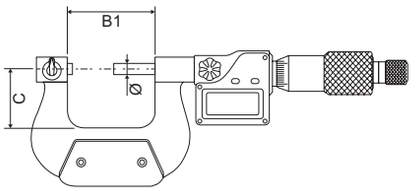
ITEM: BA080

FEATURES
Resolution 0.001 mm.
IP65 protection.
Electronics protected against dust and water jets.
Contacts tungsten carbide.
Painted arc.
Locking screw.
Rotating stem.
60° anvils for measuring average diameters of external metric threads.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- mm/inch

Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	Included set anvils 60°	B1 mm	C mm	Ø mm
D1340025	0 ÷ 25	± 0,002	1-2-3-4-5	32	26	6,5
D13402550	25 ÷ 50	± 0,002	2-3-4-5-6	57	32	6,5
D13405075	50 ÷ 75	± 0,002	3-4-5-6	82	44	6,5
D134075100	75 ÷ 100	± 0,003	3-4-5-6	107	57	6,5
D1340100125	100 ÷ 125	± 0,003	4-5-6	132	72	6,5
D1340125150	125 ÷ 150	± 0,003	4-5-6	158	84	6,5

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

ANVILS SET 55° - 60°

ALPA

ITEM: BC010

FEATURES
Anvils set with multiple dimensions for checking Metric 60° (BC010SETMU) and Withworth 55° (BC010SETW) threads.



Tech. Code	Composition	Thread
D1350SET	0,4 ÷ 0,5 - 0,6 ÷ 0,9 - 1,0 ÷ 1,75 2,0 ÷ 3,0 - 3,5 ÷ 5,0 - 5,5 ÷ 7,0	Metric 60°
D1355SET	60 BIS 48 TPI - 48 BIS 40 TPI - 40 BIS 32 TPI - 32 BIS 24 TPI 24 BIS 18 TPI - 18 BIS 14 TPI - 14 BIS 10 TPI 10 BIS 7 DPP - 7 BIS 4,5 DPP - 4,5 BIS 3,5 DPP	Withworth 55°

CENTESIMAL THREAD MICROMETER

ITEM: BB105

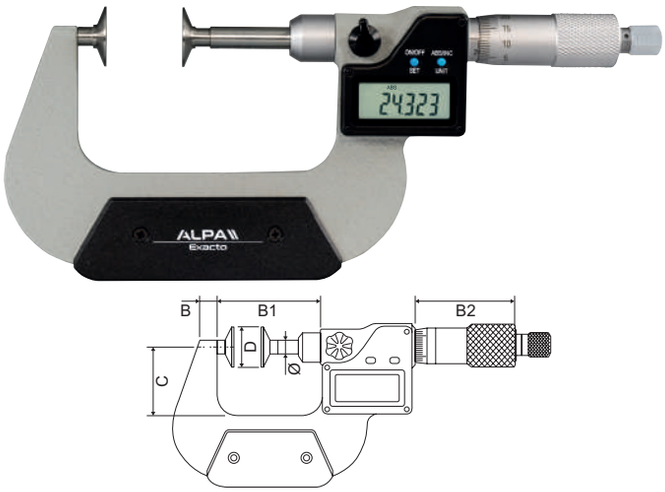


FEATURES
Resolution 0.01 mm.
Contacts tungsten carbide.
Coated arc.
Non-rotating stem.
Hardened stainless steel.
Locking screw.
Rotating stem.
Supplied with 60° anvils and striker rod.
Micrometer for measuring the average diameter of 60° (metric and UN) or 55° (Withworth) threads.
Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	Included set anvils 60°
D1345025	0 ÷ 25	± 0,004	1-2-3-4-5
D13452550	25 ÷ 50	± 0,004	2-3-4-5-6
D13455075	50 ÷ 75	± 0,004	3-4-5-6
D134575100	75 ÷ 100	± 0,005	3-4-5-6
D1345100125	100 ÷ 125	± 0,005	4-5-6
D1345125150	125 ÷ 150	± 0,005	4-5-6
D1345150175	150 ÷ 175	± 0,006	4-5-6
D1345175200	175 ÷ 200	± 0,006	4-5-6

IP65 DIGITAL MICROMETER WITH DISK KOŃCÓWKA AND PRESETS

ITEM: BA050



FEATURES
Resolution 0.001 mm.
IP65 protection.
Electronics protected against dust and water jets.
Painted arc.
Non-rotating stem.
Suitable for gear measurement.
FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- mm/inch

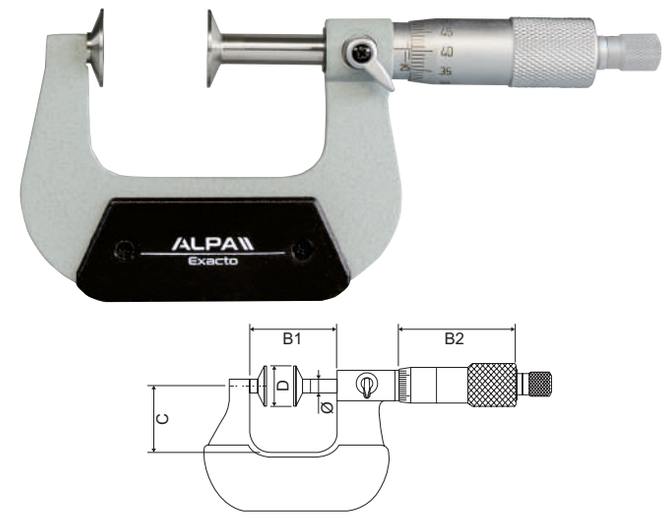
Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	B mm	B1 mm	B2 mm	C mm	D mm	Ø mm
D1365025	0 ÷ 25	± 0,004	8	59,5	65	32	20x0,7	8
D13652550	25 ÷ 50	± 0,004	8	85,5	65	44,5	20x0,7	8
D13655075	50 ÷ 75	± 0,005	8	109,5	65	57	20x0,7	8
D136575100	75 ÷ 100	± 0,005	10	134,5	65	70	20x0,7	8

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

CENTESIMAL MICROMETER WITH DISK KOŃCÓWKA

ITEM: BB075



FEATURES
Resolution 0.01 mm.
Painted arc.
Suitable for measuring gears.
Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	B1 mm	B2 mm	C mm	D mm
D1370025	0 ÷ 25	± 0,004	32	50x18	32	20x0,7
D13702550	25 ÷ 50	± 0,004	57	50x18	44,5	20x0,7
D13705075	50 ÷ 75	± 0,005	82	50x18	57	20x0,7
D137075100	75 ÷ 100	± 0,005	107	50x18	70	20x0,7
D1370100125	100 ÷ 125	± 0,006	133	50x18	82	20x0,7
D1370125150	125 ÷ 150	± 0,006	158	50x18	94,5	20x0,7
D1370150175	150 ÷ 175	± 0,007	183	50x18	107	20x0,7
D1370175200	175 ÷ 200	± 0,007	209	50x18	120	20x0,7

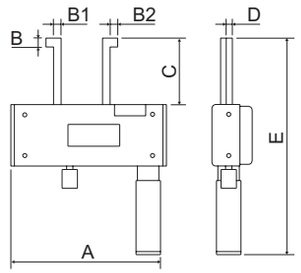
DIGITAL CENTESIMAL INSTRUMENT FOR INTERNAL MEASUREMENTS OF BORES AND WALLS IP67

ITEM: BA390

FEATURES
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Data output.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	Max Run mm	A mm	B mm	B1 mm	B2 mm	C mm	D mm	E mm
D21002246	22 ÷ 114	± 0,01	25	103	4,7	4,5	6	50	3,5	150

Tech. Code	Model
D99113V	3V Battery - CR2032

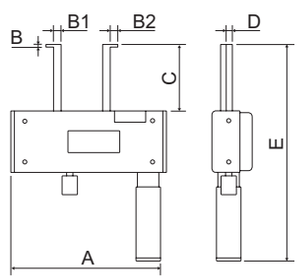
DIGITAL CENTESIMAL INSTRUMENT FOR INTERNAL SEEGER MEASUREMENTS WITH IP67 OFFSET BEAKS

ITEM: BA370

FEATURES
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Data output.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	Ø Bore Min mm	A mm	B mm	B1 mm	B2 mm	C mm	D mm	E mm
D21010630	6 ÷ 29	± 0,01	8	103	0,9	4	2	50	3	150
D21010832	8 ÷ 32	± 0,01	10	103	0,9	4,5	3,5	50	3	150
D21011236	12 ÷ 36	± 0,01	12	103	0,9	4,5	5,5	50	3,5	150
D21013256	32 ÷ 56	± 0,01	32	103	0,9	4,5	5,5	50	3,5	150
D21014266	42 ÷ 66	± 0,01	42	103	0,9	4,5	5,5	50	3,5	150

Tech. Code	Model
D99113V	3V Battery - CR2032

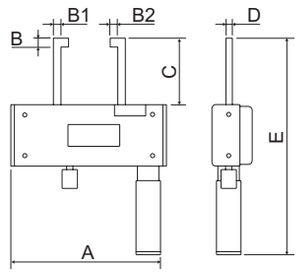
DIGITAL CENTESIMAL INSTRUMENT FOR EXTERNAL MEASUREMENTS IP67

ITEM: BA380

FEATURES
Resolution 0.01 mm.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Data output.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	A mm	B mm	B1 mm	B2 mm	C mm	D mm	E mm
D21040024	0 ÷ 22	± 0,01	103	4,7	4,5	3,5	50	3,5	150
D21041741	19 ÷ 44	± 0,01	103	4,7	4,5	3,5	50	3,5	150

Tech. Code	Model
D99113V	3V Battery - CR2032

HIGH-PRECISION, INDOOR QUICK GAUGES

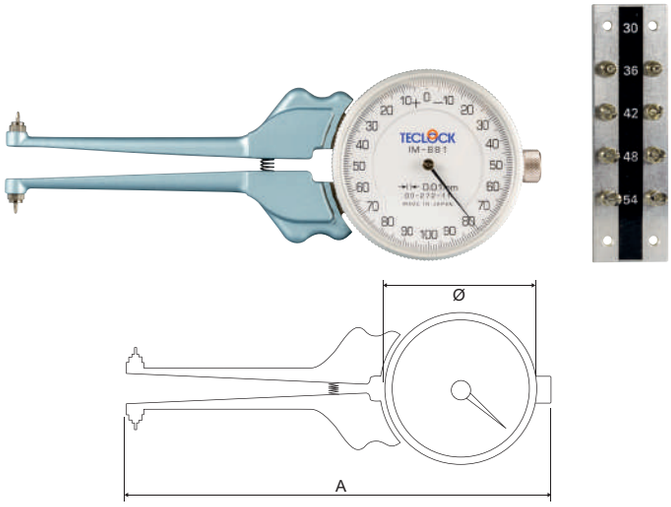
TECLOCK

ITEM: BB365

FEATURES
Resolution 0.01 mm.
Patented shock-absorbing movement with only 2 mm travel for high-precision measurements.
Cast iron instrument body and arms.
Maximum thermal stability and repeatability.
Interchangeable conical-profile probes for entry into deep and narrow grooves.

Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	Spare contact points	A mm	Ø mm
D2115020034	20 ÷ 35	± 0,01	7 pairs M2.5	165	62
D2115030060	30 ÷ 62	± 0,01	5 pairs M3.5	170	62
D2115055150	55 ÷ 153	± 0,01	6 pairs M3.5	183	62



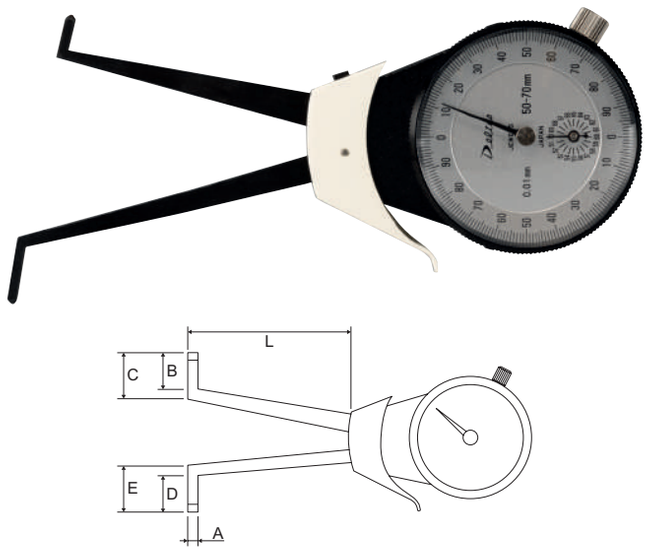
QUICK GAUGE FOR INDOOR USE

Deltas

ITEM: BB362

FEATURES
Resolution 0.01 mm.
Light alloy instrument body and arms.
Rotating dial, carbide spherical contacts.
Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	A mm	B mm	C mm	D mm	E mm	L mm
D2116003009	3 ÷ 9	± 0,04	2,3	1,1	2,8	1,1	2,8	40
D2116006018	6 ÷ 18	± 0,04	2,3	1,1	2,8	1,1	2,8	40
D2116010030	10 ÷ 30	± 0,04	2,3	2,2	4,5	2,2	4,5	64
D2116030050	30 ÷ 50	± 0,04	2,3	14,5	17	8	10,5	64
D2116050070	50 ÷ 70	± 0,04	2,3	11,5	14	8	10,5	64



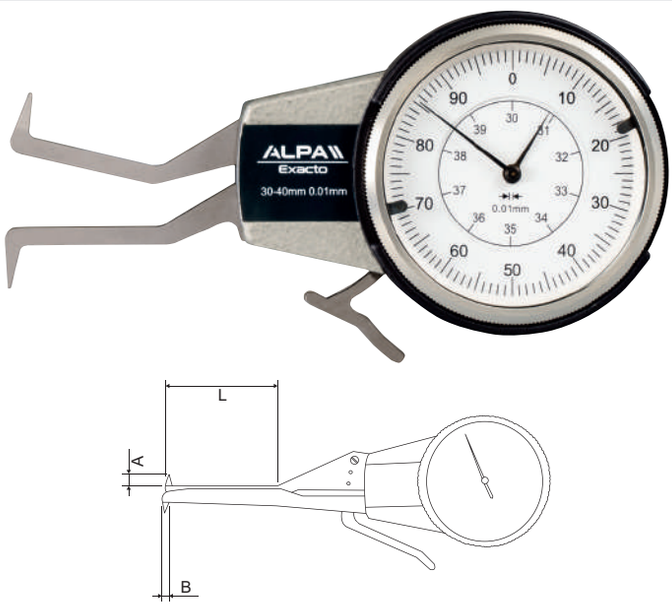
QUICK GAUGE FOR INDOOR USE

ALPA

ITEM: BB367

FEATURES
Resolution 0.01 mm.
Specially designed arms for difficult-to-access measurements.
Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	A mm	B mm	L mm
D21100515	5 ÷ 15	± 0,02	1	1,5	20
D21101020	10 ÷ 20	± 0,02	1,5	3	25
D21101030	10 ÷ 30	± 0,03	2	3,5	55
D21102030	20 ÷ 30	± 0,02	2	6,5	30
D21103040	30 ÷ 40	± 0,02	2,5	9	30
D21104050	40 ÷ 50	± 0,02	2,5	9	30
D21104060	40 ÷ 60	± 0,03	3	8,5	80



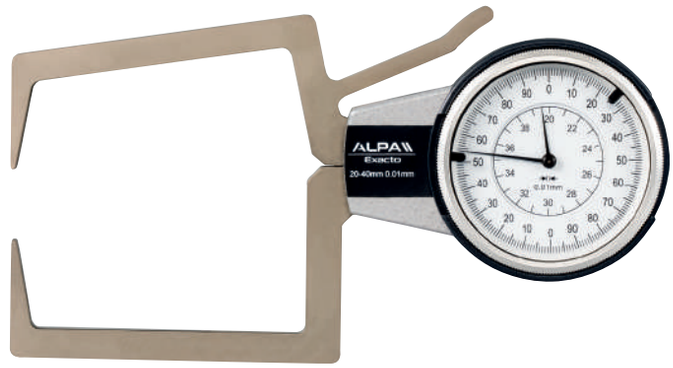
OUTDOOR QUICK GAUGE

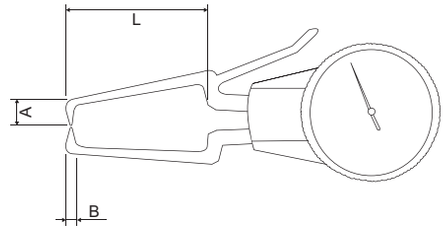
ALPA

ITEM: BB377

FEATURES
Resolution 0.01 mm.
Guaranteed measuring pressure over the entire stroke.
Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy mm	A mm	B mm	L mm
D21200020	0 ÷ 20	± 0,03	25	6,5	80
D21202040	20 ÷ 40	± 0,03	25	6,5	80
D21204060	40 ÷ 60	± 0,03	25	6,5	80





BORE GAUGE

ALPA

ITEM: DA010

FEATURES
Tungsten carbide moving rod.
Dial gauge attachment Ø 8 mm.
Highly robust and reliable.
For heavy-duty use in the workshop and testing.
Supplied with calibration certificate.



Tech. Code	Range mm	Accuracy µm	Max depth mm	Contacts
D22251535	15 ÷ 35	± 3	175	Steel
D222530100	30 ÷ 100	± 3	250	Steel
D222550160	50 ÷ 160	± 3	250	Steel
D222550210	50 ÷ 210	± 3	380	Steel
D2225100300	100 ÷ 300	± 3	350	Steel
D2225100500	100 ÷ 500	± 3	650	Steel
D2225100500S	100 ÷ 500	± 3	350	Steel
D22261535	15 ÷ 35	± 3	175	Hard metal
D222630100	30 ÷ 100	± 3	250	Hard metal
D222650160	50 ÷ 160	± 3	250	Hard metal
D222650210	50 ÷ 210	± 3	380	Hard metal
D2226100300	100 ÷ 300	± 3	350	Hard metal
D2226100500	100 ÷ 500	± 3	650	Hard metal
D2226100500S	100 ÷ 500	± 3	350	Hard metal

BORE GAUGE FOR DIAL INDICATOR

TECLOCK

ITEM: DA042

FEATURES
Tungsten carbide moving rod.
Interchangeable rod with hardened steel ball.
Dial gauge connection Ø 8 mm.
Light alloy rod with low expansion.
Handle made of insulating material.
Highest precision and repeatability for testing with millesimal tolerances (Japanese class A).
Conventional system with moving rod and rod drive.
Dial gauge not supplied.

Supplied with calibration certificate.



Tech. Code	Range mm	Accuracy µm	Maximum depth mm	No. of keys
D22221835	18 ÷ 35	± 2	103	9
D22223560	35 ÷ 60	± 2	150	6
D222250150	50 ÷ 150	± 2	150	11

BORE GAUGES FOR BLIND BORES

TECLOCK

ITEM: DA045

FEATURES
Tungsten carbide moving probe.
Interchangeable probe tips with hardened steel ball.
Dial gauge connection Ø 8 mm.
Light alloy rod with low expansion.
Handle made of insulating material.
Special head allows testing of holes at a distance of 2.5 mm from the bottom.
Maximum precision and reliability for testing with millesimal tolerance (Japanese class A).
Maximum precision and repeatability.
Traditional system with moving probe and slide transmission.
Dial gauge not supplied.



Supplied with calibration certificate.

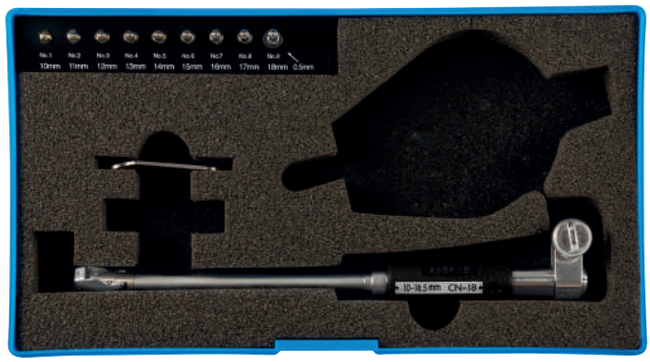
Tech. Code	Range mm	Accuracy µm	Maximum depth mm	No. of keys
D22241535	15 ÷ 35	± 2	150	9
D22243560	35 ÷ 60	± 2	150	6
D222450150	50 ÷ 150	± 2	150	11

BORE GAUGE FOR DIAL INDICATOR

TECLOCK

ITEM: DA040

FEATURES
Movable tungsten carbide rod.
Interchangeable hardened steel ball bearings (9 pcs.).
Dial gauge connection Ø 8 mm.
Light alloy rod with low expansion.
Handle made of insulating material.
Highest precision and reliability for testing with millesimal tolerance (Japanese class A).
Hinged measuring head system.
Dial gauge not supplied.



Supplied with calibration certificate.

Tech. Code	Range mm	Accuracy µm	Maximum depth mm	No. of keys
D22210610	6 ÷ 10	± 2	50	9
D22211018	10 ÷ 18	± 2	100	9

DIAL BORE GAUGES

ITEM: D2210

FEATURES
Steel head and contacts, heat-insulating handle, dial gauge connection Ø 8 mm, supplied with 0.01 centesimal dial gauge.



Tech. Code	Range mm	Depth mm
D2210018035	18 ÷ 35	125
D2210035050	35 ÷ 50	150
D2210050160	50 ÷ 160	150
D22100160250	160 ÷ 250	400
D22100250450	250 ÷ 450	400

BORE GAUGES SET

Mitutoyo

ITEM: D2233

NEW

FEATURES
Supplied with digital dial indicator millesimal.



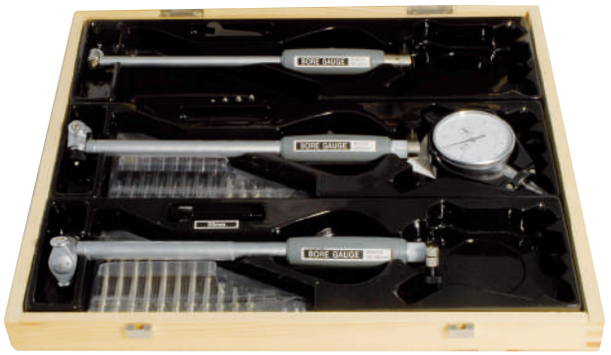
Tech. Code	Range mm	Single tools mm
D2233018150	18 ÷ 150	18-35 / 35-50 / 50-150

BORE GAUGES SET

ITEM: D2215

FEATURES
Dial holder ø 8mm. 0,01 dial gauge included.

Tech. Code	Range mm	Single tools mm
D2215018160	18 ÷ 160	18-35 / 35-50 / 50-160



DIGITAL DIAL INDICATOR IP67 WITH PRESET Ø 59.5

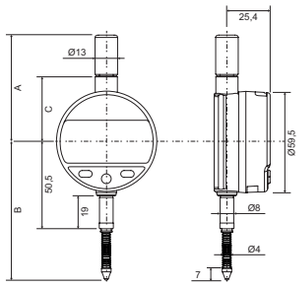
ALPA

ITEM: CA010

FEATURES
Resolution 0.001.
Protection IP67.
Swiss electronics protected against dust and brief immersion in water.
Connection Ø 8 h 6 mm.
Interchangeable measuring pin M2.5 (DIN878).
Proximity data output.
USB or RS connection.

FUNCTIONS
- Preset
- Tolerances
- min/max
- Hold
- Sleep
- mm/inch

Supplied with calibration certificate.





Tech. Code	Range mm	Resolution mm	Accuracy µm	A mm	B mm	C mm	g
D23291250001	0 ÷ 12,5	0,001	± 3	59,6	78,4	36,6	90
D2329250001	0 ÷ 25	0,001	± 4	85,4	100,2	49,4	94
D2329500001	0 ÷ 50	0,001	± 5	104,4	175,4	-	175

Tech. Code	Model
D99113V	3V Battery - CR2032

DIGITAL DIAL INDICATOR IP54 WITH PRESET Ø 59.5

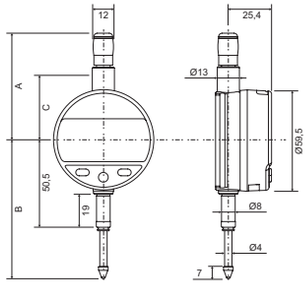
ALPA

ITEM: CA015

FEATURES
IP54 protection.
Swiss electronics protected against dust and splash water.
Ø 8 h 6 mm connection.
Interchangeable tip M2.5 (DIN878).
Proximity data output.
USB or RS connection.

FUNCTIONS
- Preset
- Tolerances
- min/max
- Hold
- Sleep
- mm/inch

Supplied with calibration certificate.





Tech. Code	Range mm	Resolution mm	Accuracy µm	A mm	B mm	C mm	g
D23311250001	0 ÷ 12,5	0,001	3	56,6	66,1	36,6	90
D2331125001	0 ÷ 12,5	0,01	10 (± Ziffer)	56,6	66,1	36,6	90
D2331250001	0 ÷ 25	0,001	4	69,3	79	49,9	94
D233125001	0 ÷ 25	0,01	10 (± Ziffer)	69,3	79	49,9	94
D2331500001	0 ÷ 50	0,001	5	121	142	88	175
D233150001	0 ÷ 50	0,01	20 (± Ziffer)	121	142	88	175

Tech. Code	Model
D99113V	3V Battery - CR2032

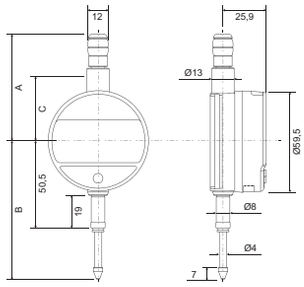
DIGITAL DIAL INDICATOR IP54 Ø 59.5

ITEM: CA018

FEATURES
IP54 protection.
Swiss electronics protected against dust and splash water.
Ø 8 h 6 mm connection.
Interchangeable measuring button M2.5 (DIN878).
Proximity data output.
USB or RS connection.

FUNCTIONS
- Zero
- mm/inch
- Sleep

Supplied with calibration certificate.





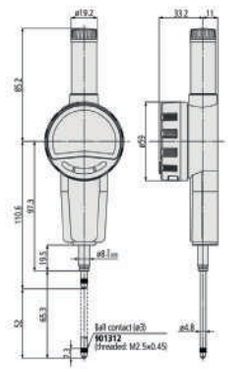
Tech. Code	Range mm	Resolution mm	Accuracy µm	A mm	B mm	C mm	g
D23301250001	0 ÷ 12,5	0,001	4	56,7	66,1	36,6	107
D2330125001	0 ÷ 12,5	0,01	10 (± Ziffer)	56,7	66,1	36,6	107
D2330250001	0 ÷ 25	0,001	5	69,4	79	49,4	111
D233025001	0 ÷ 25	0,01	10 (± Ziffer)	69,4	79	49,4	111
D2330500001	0 ÷ 50	0,001	7	121	142	88	149
D233050001	0 ÷ 50	0,01	20 (± Ziffer)	121	142	88	149

Tech. Code	Model
D99113V	3V Battery - CR2032

DIGITAL COMPARATORS

ITEM: SERIE 543

FEATURES
ABSOLUTE Digimatic multifunctional dial gauges with 0.0005mm resolution, rugged and easy to use.
ABSOLUTE scale so the instrument does not need to be reset every time it is switched on.
Large font size for easy reading.
Specific functions for calibration programming and deadline management.
Customisable keys.
Display lock function against unwanted use and 330° rotatable display.
New bi-directional S1 data output.





Tech. Code	Range mm	Resolution mm
D23471270005	0 - 12,7	0,0005
D23472540005	0 - 25.4	0.0005
D23475080005	0 - 50,8	0,0005

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

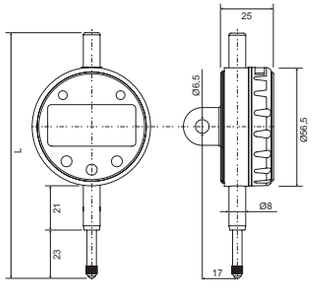
IP40 DIGITAL DIAL INDICATOR WITH LARGE DISPLAY Ø 56.5

ITEM: CA020

FEATURES
Protection IP40.
Cylindrical connection Ø 8 mm.

FUNCTIONS
- Tolerances

Supplied with calibration certificate.





Tech. Code	Range mm	Resolution mm	L mm
D222912,5	0 ÷ 12,5	0,01	123,5
D222912,50,001	0 ÷ 12,5	0,001	123,5
D222925	0 ÷ 25	0,01	151
D222950	0 ÷ 50	0,01	257

Tech. Code	Model
D99133V	Battery 3V CR2025

DIGITAL DIAL INDICATOR IP54 Ø 45

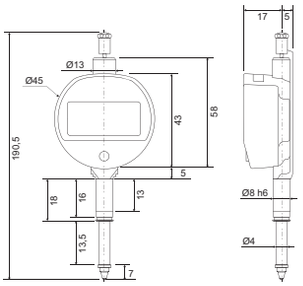
ALPA

ITEM: CA024

FEATURES
IP54 protection.
Swiss electronics protected against dust and splash water.
Fixed dial.
Ø 8 h 6 mm connection.
Hardened stainless steel shank and stem.

FUNCTIONS
- Zero
- mm/inch
- Sleep

Supplied with calibration certificate.





Tech. Code	Range mm	Resolution mm	Measuring force N	Version
D23432412,5C	12,5	0,01	0,5 - 0,90	Standard
D23432412,5M	12,5	0,001	0,5 - 0,90	Standard

DIGITAL DIAL INDICATOR IP67 Ø 45

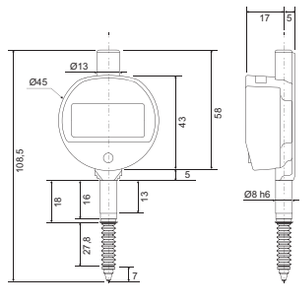
ALPA

ITEM: CA025

FEATURES
IP67 protection.
Swiss electronics protected against dust and brief immersion in water.
Fixed dial.
8 h 6 mm dia. connection.
Hardened stainless steel shank and stem.

FUNCTIONS
- Zero
- mm/inch
- Sleep

Supplied with calibration certificate.





Tech. Code	Range mm	Resolution mm	Measuring force N	Version
D23382512,5C	12,5	0,01	0,5 - 0,90	Protected
D23382512,5M	12,5	0,001	0,5 - 0,90	Protected

IP67 DIGITAL DIAL INDICATOR Ø 45 WITH BLUETOOTH® AND PRESETS

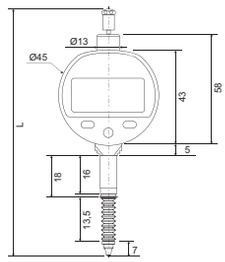
sylvac

ITEM: CA022

FEATURES
Resolution 0.01 mm.
IP67 protection.
Electronics protected against dust and brief immersion in water.
Fixed dial.
Analogue scale with programmable resolution.
Compact display.
Hardened stainless steel shank and stem.
Tungsten carbide contacts with M2.5 thread.
Programmable third button.
IP67 protected version.
IP54 standard version.

FUNCTIONS
- Bluetooth®
- mm/inch
- Preset
- min/max
- Hold
- Sleep

Supplied with calibration certificate.



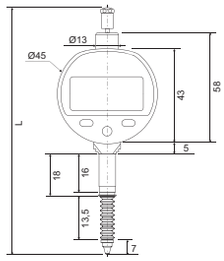


Tech. Code	Range mm	Resolution mm	L mm	Lifting cap	Version
D2332AUBT	12,5	0,01	108,5	-	Protected
D2332STBT	12,5	0,01	108,5	✓	Standard
D2332TPBT	12,5	0,01	108,5	-	Flat head

DIGITAL DIAL INDICATOR IP67 Ø 45 WITH BLUETOOTH® AND PRESETS

sylvac

ITEM: CA023





FEATURES
Resolution 0.001 mm.
IP67 protection.
Electronics protected against dust and brief immersion in water.
Fixed dial.
Analogue scale with programmable resolution.
Compact display.
Hardened stainless steel shank and stem.
Tungsten carbide contacts with M2.5 thread.
Programmable third button.
IP67 protected version.
IP54 standard version.

FUNCTIONS
- Bluetooth®
- mm/inch
- Preset
- min/max
- Hold
- Sleep

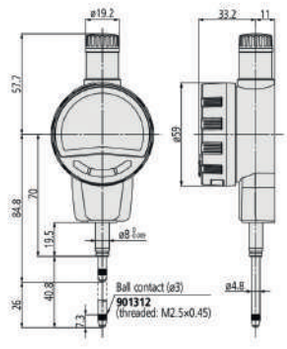
Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	L mm	Lifting cap	Version
D2342AUBT	12,5	0,001	108,5	-	Protected
D2342STBT	12,5	0,001	108,5	✓	Standard
D2342TPBT	12,5	0,001	108,5	-	Flat head

DIGITAL COMPARATORS

Mitutoyo

ITEM: SERIE 543



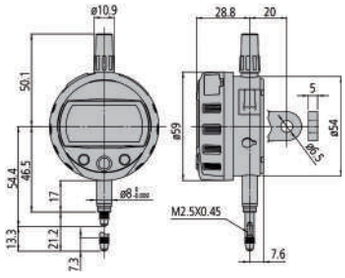


FEATURES
ABSOLUTE Digimatic multifunctional dial gauges with 0.01mm resolution, rugged and easy to use.
ABSOLUTE scale so the instrument does not need to be reset every time it is switched on.
Large font size for easy reading.
Specific functions for calibration programming and deadline management.
Customisable keys.
Display lock function against unwanted use and 330° rotatable display.
New bi-directional S1 data output.

Tech. Code	Range mm	Resolution mm
D234612701	0 - 12.7	0.01
D234625401	0 - 25.4	0.01
D234650801	0 - 50.8	0.01

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

ITEM: SERIE 543





FEATURES
ABSOLUTE Digital dial indicators. The zero setting takes place only once with storage until the next battery replacement. Measurement accuracy even at maximum speeds. Large display with easy to read characters.
Stem Ø 8 mm.

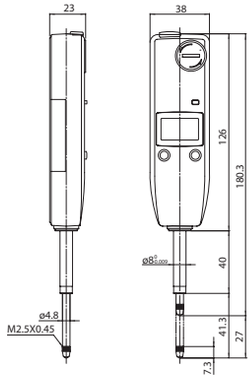
Tech. Code	Range mm	Resolution mm
D2354127001	0 - 12,7	0,01

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

DIGITAL DIAL INDICATORS

Mitutoyo

ITEM: SERIE 575





FEATURES
Robust and easy-to-use ABSOLUTE Digimatic dial indicator. Zero setting is done once with storage until the next battery change. Measuring accuracy even at maximum speeds. Easy-to-read large character display.
Ø 8 mm shaft.

Tech. Code	Range mm	Resolution mm
D2349254001	0 - 25,4	0,01

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

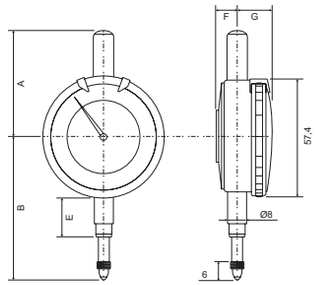
DIAL INDICATOR DIAL GAUGE Ø 58 MM

ALPA

ITEM: CB026

FEATURES
Accuracy according to UNI 4180.
Resolution 0.001.
Cylindrical shank Ø 8 mm.
Stainless steel shank.
Tungsten carbide tip.

Supplied with calibration certificate.





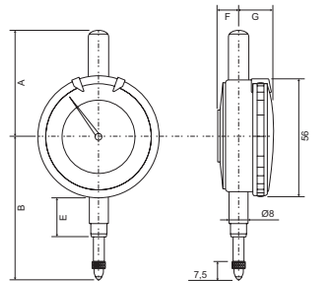
Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm	F mm	G mm
D23611	0 ÷ 1	0,001	42,8	60,7	19,8	0,4	18,5

DIAL INDICATOR DIAL GAUGE Ø 56 MM

TECLOCK

ITEM: CB022

FEATURES
Accuracy according to UNI 4180.
Resolution 0.001.
Cylindrical shank Ø 8 mm.
Stainless steel stem and shank.
Satin-finished aluminium body.
Movement mounted on rubies.





Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm	F mm
D23631	0 ÷ 1	0,001	40	62	15,5	20

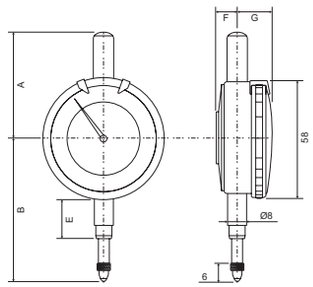
DIAL INDICATOR DIAL GAUGE Ø 58 MM

ALPA

ITEM: CB023

FEATURES
Accuracy according to UNI 4180.
Resolution 0.001.
Cylindrical shank Ø 8 mm.
Stainless steel shaft and shank.
Satin-finished aluminium body.
Shock-proof movement mounted on rubies.

Supplied with calibration certificate.





Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm	F mm	G mm
D23551	0 ÷ 1	0,001	40	59	20	6,5	16

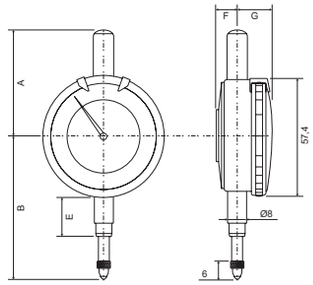
TWIN DIAL INDICATOR Ø 58 MM

ALPA

ITEM: CB008

FEATURES
Accuracy according to UNI 4180.
Resolution 0.002.
Cylindrical shank Ø 8 mm.
Metal case and ferrule.
Tolerance indicators according to DIN 879.

Supplied with calibration certificate.





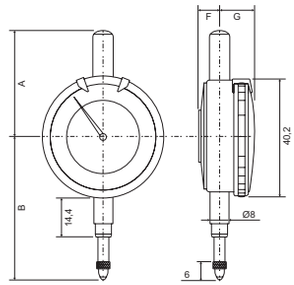
Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm	F mm	G mm
D235912	0 ÷ 12	0,002	42,8	68,5	19,8	8,6	18,5

DIAL INDICATOR Ø 40 MM

ITEM: CB006

FEATURES
Accuracy according to UNI 4180.
Resolution 0.01.
Cylindrical shank Ø 8 mm.
Stainless steel shaft and shank.
Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	A mm	B mm	F mm	G mm
D23525	0 ÷ 5	0,01	28,6	48,5	7,1	14,4



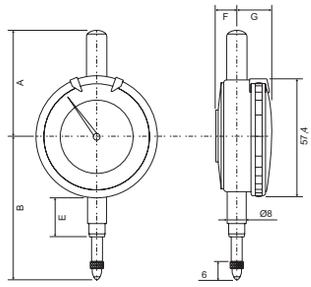


DIAL INDICATOR Ø 58 MM

ITEM: CB005

FEATURES
Accuracy according to UNI 4180.
Resolution 0.01.
Cylindrical shank Ø 8 mm.
Metal case and bezel.
Shock-proof movement only for CB00510.
Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm	F mm	G mm
D235110	0 ÷ 10	0,01	42,8	68,5	19,8	8,6	18,5
D235125	0 ÷ 25	0,01	42,8	80,9	19,8	8,6	18,5
D235130	0 ÷ 30	0,01	42,8	80,9	19,8	8,6	18,5



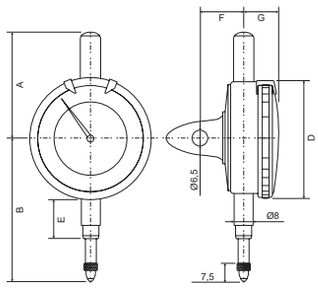


DIAL INDICATOR Ø 60 MM

ITEM: CB010

FEATURES
Accuracy according to UNI 4180.
Resolution 0.01.
Cylindrical connection Ø 8 mm.
Shockproof movement.
ST = Standard.
WP = Waterproof.
STF = Flat bottom.

Tech. Code	Range mm	Resolution mm	A mm	B mm	D mm	E mm	F mm	G mm
D236210	0 ÷ 10	0,01	48	65	56	18	15,8	20
D236210FP	0 ÷ 10	0,01	48	65	55	18	15,5	20



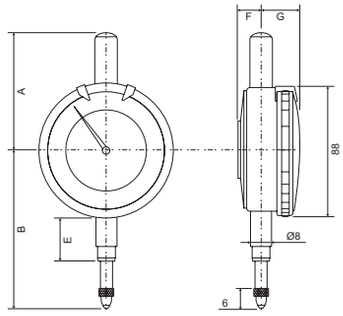


DIAL INDICATOR Ø 88 MM LONG-STROKE

ITEM: CB007

FEATURES
Accuracy according to UNI 4180.
Resolution 0.01.
Cylindrical shank Ø 8 mm.
Stainless steel shaft and shank.
Ruby-mounted movement.
Index of millimetres concentric with that of hundredths.
Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm	F mm	G mm
D235350	0 ÷ 50	0,01	61,1	130,7	29,3	9,8	17,1





DIAL INDICATOR Ø 80 MM

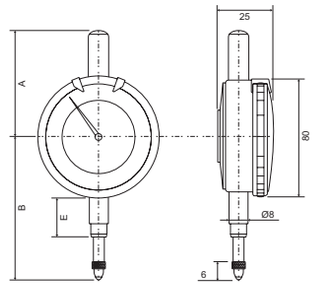
ALPA

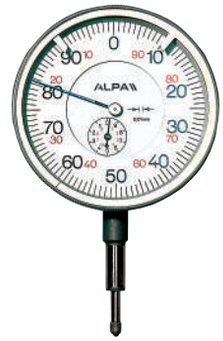
ITEM: CB020

FEATURES
Accuracy according to UNI 4180.
Resolution 0.01.
Cylindrical shank Ø 8 mm.
Stainless steel shaft and shank.
Ruby-mounted movement.

Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm
D235710	0 ÷ 10	0,01	41	85	31,5
D235730	0 ÷ 30	0,01	60	110	31,5
D235750	0 ÷ 50	0,01	105	127	24
D2357100	0 ÷ 100	0,01	164	218	64,5





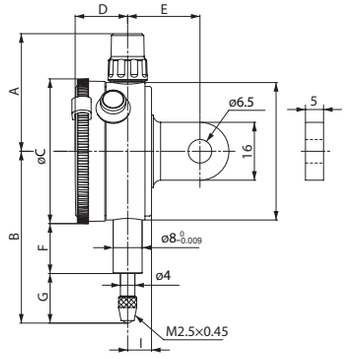
DIAL INDICATORS Ø 40 MM

Mitutoyo

ITEM: SERIE 1

FEATURES
Metric model in compact size, dial Ø 40 mm, stainless steel shaft and shank, cylindrical shank Ø 8. Accuracy to DIN 878.

Tech. Code	Excursion mm	A mm	B mm	C mm	D mm	F mm	G mm	I mm
D23695	0 ÷ 5	32,5	47,5	40	14,5	13,8	13,7	6,6





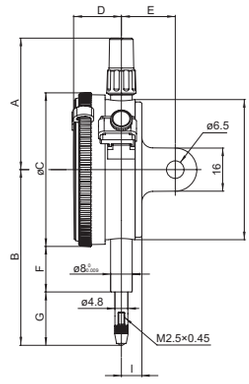
DIAL INDICATORS Ø 57 MM

Mitutoyo

ITEM: SERIE 2

FEATURES
Standard metric model Ø 57mm,stainless steel stem, cylindrical connection , Ø 8mm.
Accuracy according to DIN 878.

Tech. Code	Excursion mm	B mm	C mm	D mm	E mm	F mm	G mm	I mm	I mm
D236810	0 ÷ 10	47,2	65,2	57	18,1	20	16,9	19,8	7,6





DIAL INDICATOR Ø 40 MM

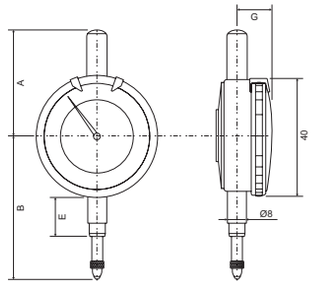
ALPA

ITEM: CB013

FEATURES
Accuracy according to UNI 4180.
Resolution 0.01.
Cylindrical shank Ø 8 mm.
Metal case and ferrule.
Steel ferrule.

Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm	G mm
D237005	0 ÷ 5	0,01	33,8	49	13	13





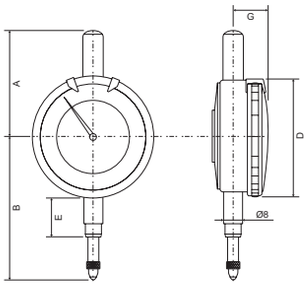
CENTESIMAL DIAL INDICATOR

ITEM: CB014

FEATURES
Accuracy according to UNI 4180.
Resolution 0.01.
Cylindrical shank Ø 8 mm.
Metal case and ferrule.
Steel ferrule.

Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	A mm	B mm	D mm	E mm	G mm
D237110	0 ÷ 10	0,01	45	71	57	20	16
D237125	0 ÷ 25	0,01	40	85	60	17	16
D237130	0 ÷ 30	0,01	44,5	90	60	18	16





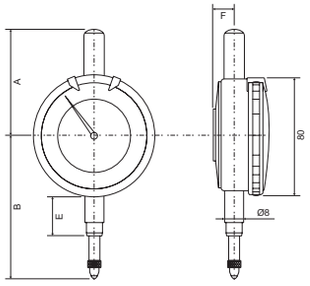
DIAL INDICATOR Ø 40 MM

ITEM: CB021

FEATURES
Accuracy according to UNI 4180.
Resolution 0.01.
Cylindrical shank Ø 8 mm.
Metal case and ferrule.
Steel ferrule.

Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm	F mm
D237250	0 ÷ 50	0,01	50	129,5	30,5	16





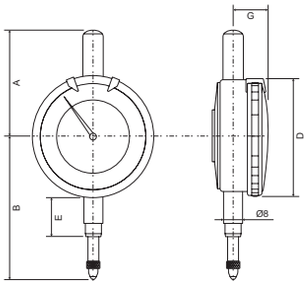
SHOCK-PROOF CENTESIMAL DIAL INDICATOR

ITEM: CB012

FEATURES
Metal case and bezel.
Tolerance indicators.

Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm	G mm
D237310ST	0 ÷ 10	0,01	45	71	20	16





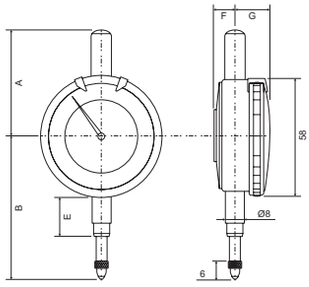
DIAL INDICATOR DIAL GAUGE Ø 58 MM

ITEM: CB056

FEATURES
Accuracy according to UNI 4180.
Resolution 0.001.
Cylindrical shank Ø 8 mm.
Stroke 5 mm.
Stainless steel shank.
Tungsten carbide tip.

Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	A mm	B mm	E mm	F mm	G mm
D2374560	0 ÷ 5	0,001	40	60	23	6,5	16





COMPARATOR HOLDER BASE

ITEM: BC045

FEATURES
Chromed hardened steel dial indicator base.

Tech. Code	Dimensions mm
D2390BASE	80 x 16



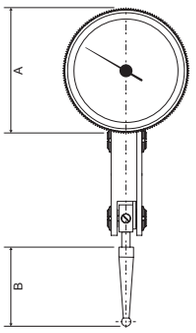
LEVER-OPERATED DIAL INDICATOR

ALPA

ITEM: CB050

FEATURES

Conforms to DIN 2270A.
Dovetail connection Ø 8 mm.
Chrome-plated one-piece case.
Shock-proof movement mounted on rubies.
Automatic reversal of measuring direction.
Rotatable zeroing dial.
Interchangeable dial indicator.
Tungsten carbide ball.
270° adjustable.
Mounted on micro-ball bearings.
M1.4 thread.
CB051 interchangeable tips.
Supplied with calibration certificate.





Tech. Code	Range mm	Resolution mm	A mm	B mm
D2290022812	0 ÷ 0,2	0,002	27,4	12
D2290023712	0 ÷ 0,2	0,002	37	12
D2290052836	0 ÷ 0,5	0,01	27,4	36
D2290053736	0 ÷ 0,5	0,01	37	36
D2290082812	0 ÷ 0,8	0,01	27,4	12
D2290083712	0 ÷ 0,8	0,01	37	12

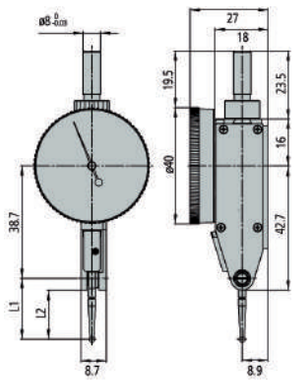
LEVER TEST INDICATORS

Mitutoyo

ITEM: SERIE 513

FEATURES

Quality mechanical probe (in accordance with DIN 2270). The frictionless design allows automatic reversal of the measuring direction. The bezel and crystal, made in one piece, increase resistance to water and dust.
Anti-reflective crystal with scratch-resistant coating.
Rotating dial allows easy zero setting.
Precision-engineered ruby-mounted bearings, gears and pinions
guarantee smooth, silent movements and fast, accurate measurements.
Carbide ball Ø 2mm. Dovetail connection Ø 8mm.





Tech. Code	Excursion mm	Measurement force N	Ø mm	Resolution mm	L1 mm	L2 mm
D2320084021	0,8	0,01 ÷ 0,3	40	0,01	20,9	17,4

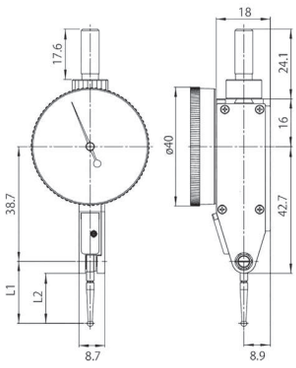
LEVER TEST INDICATORS

Mitutoyo

ITEM: SERIE 513

FEATURES

Drastically improved durability, sensitivity and visibility. The flat glare-free dial face allows the graduations to be read easily. The O-ring seal on the bezel has provides a smooth rotation and prevents dust and oil from getting into the instrument. Multi-layer scratch resistant coating on the dial.





Tech. Code	Range mm	Measuring force N	Ø mm	Resolution mm	L1 mm	L2 mm
D232114045	1	0.01-0.2	40	0.01	44.5	41

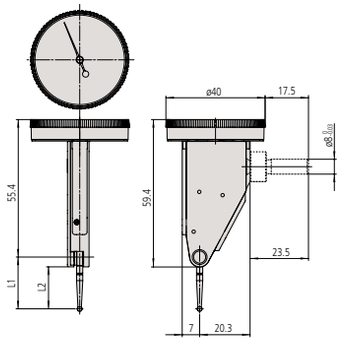
VERTICAL LEVER TEST INDICATORS

Mitutoyo

ITEM: SERIE 513

FEATURES

Quality mechanical probe (in accordance with DIN 2270). The frictionless design allows automatic reversal of the measuring direction. The bezel and crystal, made in one piece, increase resistance to water and dust.
Anti-reflective crystal with scratch-resistant coating.
Rotating dial allows easy zero setting.
Precision-engineered ruby-mounted bearings, gears and pinions
guarantee smooth, silent movements and fast, accurate measurements.
Carbide ball Ø 2mm. Dovetail connection Ø 8mm.





Tech. Code	Excursion mm	Measurement force N	Diameter mm	Resolution mm	L1 mm	L2 mm
D2325084021	0,8	0,01 ÷ 0,3	40	0,01	20,9	17,4

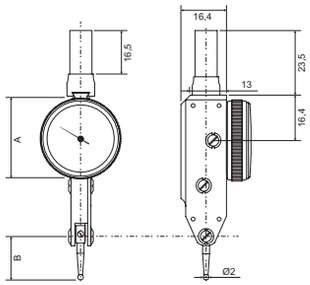
LEVER-OPERATED DIAL INDICATOR

ITEM: CB052

FEATURES
Automatic inversion.
Revolving zeroing dial.
Dovetail and cylindrical connection Ø 8 mm.
Thread M1.6.
Interchangeable CB053 tips.

Supplied with calibration certificate.

Tech. Code	Range mm	Resolution mm	A mm	B mm
D2316022913	0 ÷ 0,2	0,002	29	16
D2316023813	0 ÷ 0,2	0,002	38	16
D2316082912	0 ÷ 0,8	0,01	29	16,5
D2316082934	0 ÷ 0,8	0,01	29	30,5
D2316083812	0 ÷ 0,8	0,01	38	16,5
D2316083834	0 ÷ 0,8	0,01	38	30,5





ACCESSORIES FOR DIAL GAUGES

ITEM: CC070

FEATURES
Accessories for clamping different types of dial gauges.

Tech. Code	Fig.	Description
D2312A1	1	Mounting rod, dovetail connection ø 4mm
D2312A2	2	Mounting rod, dovetail connection ø 8mm
D2312A3	3	Long articulated stand, cylindrical body dovetail connection ø 8 x 90mm
D2312A4	4	Centring support for perpendicular models, with cylindrical body ø 8 x 25 mm. Clamping point for clamping rod and attachment dovetail ø 4mm.
D2312A5	5	Long articulated stand with cylindrical body dovetail connection and fine adjustment ø 8 x 125mm

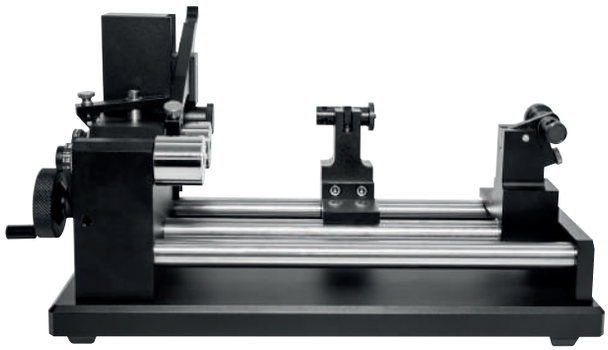


CONCENTRICITY CHECK BENCHES

ITEM: CT030

FEATURES
Instrument for checking concentricity and roundness of shafts up to 100 mm diameter with a high degree of accuracy.
Resolution 0.005 mm.
Possibility of mounting 2 dial gauges.
Manual operation.

Tech. Code	Workpiece diameter mm	Dimensions mm	kg
D240001025	1 - 25	267 x 165 x 152	5,2
D240020100	20 - 100	368 x 203 x 203	8,4



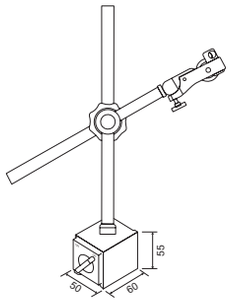
MAGNETIC DIAL INDICATOR HOLDER

ITEM: CD010

FEATURES
Prismatic base.
Pure cobalt magnet.
Chrome-plated rods.
Ø 8 mm connection.
Tensile force 80 kg.

Tech. Code	Fine adjustment	Arm lenght mm
D250580160	-	160



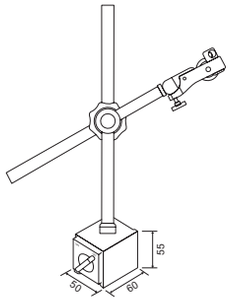


ITEM: CD010

FEATURES
Prismatic base.
Pure cobalt magnet.
Chrome-plated rods.
Ø 8 mm connection.
Tensile force 80 kg.

Tech. Code	Fine adjustment	Arm lenght mm
D250680180	✓	180





MAGNETIC DIAL INDICATOR HOLDER

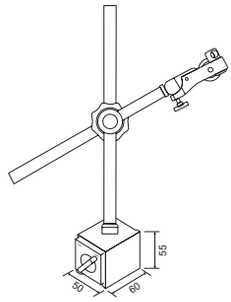
KANETEC

ITEM: CD010

FEATURES
Prismatic base.
Pure cobalt magnet.
Chrome-plated rods.
Ø 8 mm connection.
Tensile force 80 kg.

Tech. Code	Fine adjustment	Arm lenght mm
D250780194	-	194





MAGNETIC DIAL INDICATOR HOLDER WITH CENTRAL LOCKING

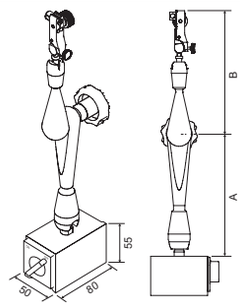
ALPA

ITEM: CD016

FEATURES
Magnetic base.
Fully articulated rods.
Ø 8 mm connection.
Centralised locking.
Micrometric adjustment.
Ground flat and V-shaped support surfaces.

Tech. Code	Locking	Holding power kg	A mm	B mm	Arm lenght mm	Description
D2512MEC100	Mechanic	100	172	173	345	-
D2512MEC100L	Mechanical	100	208	218	426	-
D2512R100	-	-	-	-	-	Base
D2512BR	-	-	-	-	-	Arm



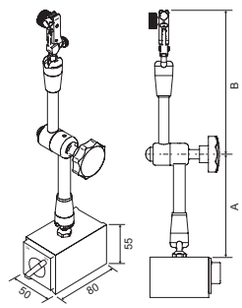


ITEM: CD018

FEATURES
Magnetic base.
Fully articulated rods.
Ø 8 mm connection.
Centralised hydraulic clamping.
Micrometric adjustment.
Ground flat and V-shaped support surfaces.

Tech. Code	Locking	Holding power kg	A mm	B mm	Arm lenght mm	Description
D2513IDR100	Hydraulic	100	140	196	336	-
D2513IDR100L	Hydraulic	100	193	241	434	-
D2512R100	-	-	-	-	-	Base





JOINTED KEY DIAL INDICATOR HOLDER

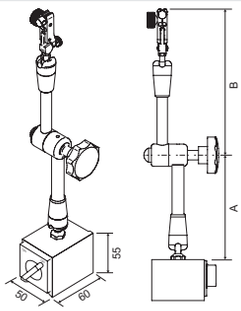
ALPA

ITEM: CD021

FEATURES
Magnetic base M8.
Fully jointed rods Ø 14 mm.
Shank Ø 8 mm.
Central locking.
Micrometric adjustment.

Tech. Code	Locking	Holding power kg	A mm	B mm	C mm	Arm lenght mm
D2516MEC80	Complete	80	135	110	65	340
D2516R80	Base only	80	-	-	-	-





KEY COMPARATOR HOLDER

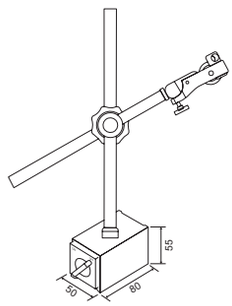
ALPA

ITEM: CD022

FEATURES
Supplied with micrometric dial indicator adjustment screw.
Suitable for heavy dial indicators.
8 mm dia. connection.
Micrometric adjustment.

Tech. Code	Locking	Holding power kg	Arm lenght mm
D2522MECC490	Mechanic	100	490
D2522MECC1000	Mechanic	100	1000 rods (500 x 500)





MAGNETIC DIAL GAUGE STANDS

ITEM: D2520

FEATURES
Magnetic base with flat and V-shaped surfaces and ø 8 mm dial gauge coupling..

Tech. Code	Base mm	Magnetic force kg	Max. extension mm
D2520MEC60	50 x 65 x 70	60	340



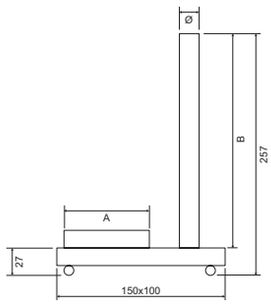
COLUMN DIAL INDICATOR HOLDER

ITEM: CD027

FEATURES
Hardened and ground steel.
Verification table with fixed table.
Horizontal arm 75 mm.

Tech. Code	Ø mm	A mm	B mm
D2530070200	25	ø 78	230





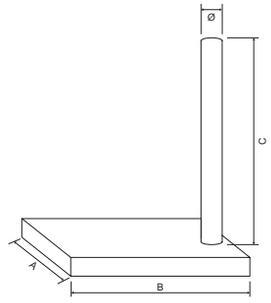
COMPARATOR STAND WITH GRANITE TOP

ITEM: CD040

FEATURES
Flatness and accuracy to DIN 876/00.
Shank Ø 8 mm.
Hardened and ground steel column.
Finely lapped top.
Supplied without dial indicator.

Tech. Code	Ø mm	A mm	B mm	C mm	Arm lenght mm	Fine adjustment	Description
D253520	30	200	300	300	180	✓	normal column
D253530	25	160	250	200	75	-	normal column
D253540	30	200	300	300	180	✓	threaded column





JOINTED DIAL INDICATOR STAND WITH GRANITE TOP

ITEM: CD024

FEATURES
Flatness and accuracy to DIN 876/00.
Dovetail and Ø 8 mm.
Fully articulated column.
Centralised clamping.
Micrometric adjustment.

Tech. Code	Locking	Base mm	Arm lenght mm
D2536MEC	Mechanic	300 x 200	340



ANALOG 3D DIAL TASTERS IP67

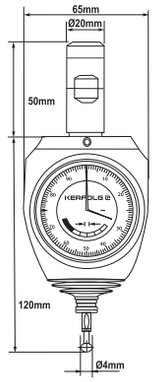
KERFOLG

ITEM: D3006

FEATURES

Highly accurate and versatile instrument for workstations, milling machines and electrical discharge machines. Engineered to make it easy to position the axes of the mandrel precisely and to quickly determine the "zero" point of the workpiece. Works on all axes (x y z). The indicator always moves in the same direction, displaying the distance from the workpiece without having to make any calculations. Easy to read dial, sturdy structure; it can be stored next to the machine along with other tools.

Tech. Code	Indication accuracy mm	Shank Ø mm
D30061	0.01	20





ANALOG 3D DIAL INDICATORS IP67

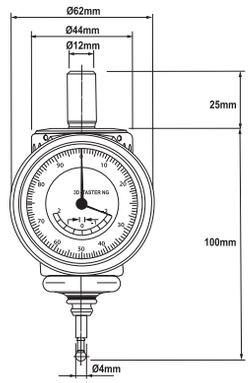
HAIMER

ITEM: D3016

FEATURES

The 3D New Generation dial indicators represents the evolution of the 3D Universal probe, characterized by improved mechanics and a new, more compact design.

Tech. Code	Indication accuracy mm	Shank Ø mm
D30161	0,01	12





PROBE TIPS SPARE PARTS

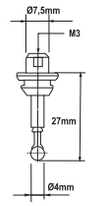
HAIMER

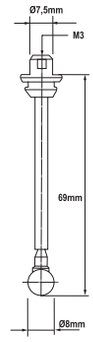
ITEM: D3018

FEATURES

Replacement stems for Haimer and D3006 probes.

Tech. Code	Ø mm	Length mm	Material
D30184	4	27	Ceramic
D30188	8	69	Ceramic





ANALOG 3D DIAL TASTERS

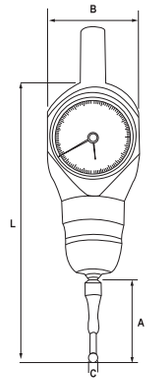
TSCHORN Mess- und Spannmittel

ITEM: P00163D012

FEATURES

The Tschorn 3D-tester is characterised by its robust construction and particularly compact and attractive design.
Its special mechanism guarantees great versatility in point measurements of the workpiece. Measurement is possible in all axis directions (X / Y / Z) with a simple reading on the same indicator. With the indicator at "0", the vertical axis is exactly at the edge of the workpiece. Indication accuracy mm 0.01.

Tech. Code	A mm	B mm	C mm	L mm	Shank Ø mm
D30172	27	44	3	118	12





PROBE TIPS - SPARE PARTS

ITEM: D3019

FEATURES
Replacement stems for TSCHORN D3017 probes.

Tech. Code	Sup. art.	Material	Ø x L mm
D30193C	P00163C003	Ceramic	3 x 27
D30196C	P00163C006	Ceramic	6 x 62

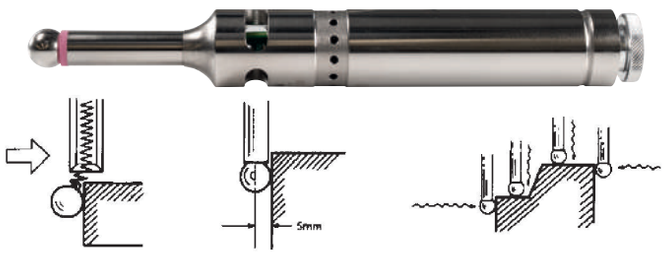


ELECTRONIC EDGE FINDERS

ITEM: D3020

FEATURES
360° illuminated display and audible beep allow centring or aligning the workpiece in relation to the tool-holder spindle axis and measuring heights and depths, particularly suitable for finding a starting 'zero' point for machining on machine tools, power supply two micro batteries type SUM5 R1 1.5V (included).

Tech. Code	Shank Ø mm	Contact ball Ø mm
D30201	20	10
D3020R1	Spring	-



ELECTRONIC EDGE FINDERS LUMINOUS

ITEM: D3023

FEATURES
Accurate measurement with probing accuracy of less than 5µm in all three axes.360° illuminated display. Battery power supply type 23A 12V (included).

Tech. Code	Shank Ø mm	Contact ball Ø mm
D30231	20	10

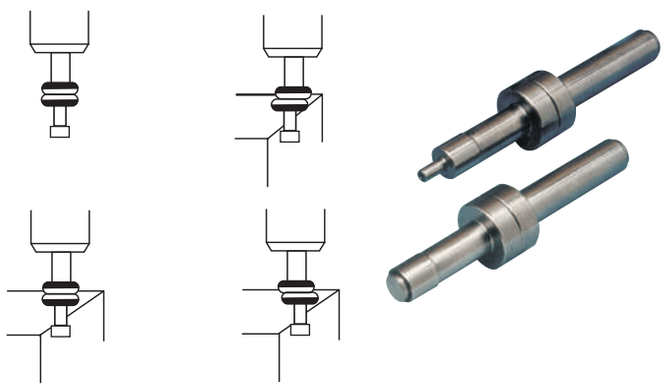


HIGH ACCURACY MECHANICAL EDGE FINDERS

ITEM: D3021

FEATURES
High precision visual centering system (+/0,005) (through lower face movement upon workpiece contact), suitable for typical centering operations (recommended speed 600/800 rpm).

Tech. Code	Shank Ø mm	Contact ball Ø mm
D30211	10	10
D30212	10	10 / 4
D3021R1	Spring	Spare part Ø 10
D3021R2	Spring	Spare part Ø 10/4

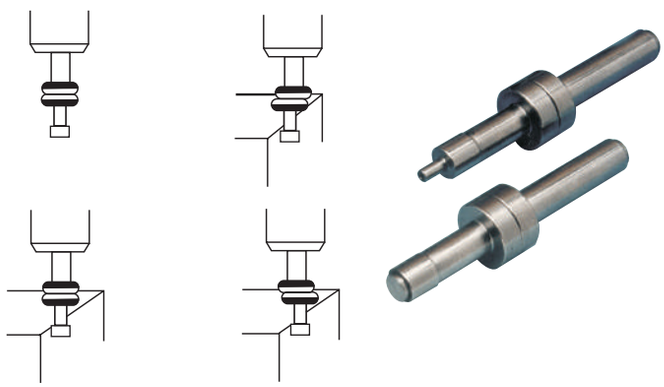


MECHANICAL EDGE FINDERS

ITEM: D3025

FEATURES
Simple and fast visual centering system (through lower face movement upon workpiece contact), suitable for typical centering operations (recommended speed 400/600 rpm).

Tech. Code	Shank Ø mm	Contact ball Ø mm
D30251	10	10
D30252	10	10 / 4

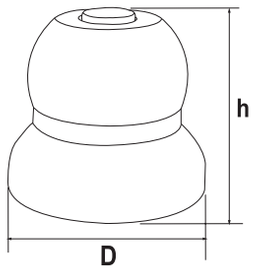


ZERO SETTERS WITH LED

ITEM: D3030

FEATURES

A fast and accurate device for zero setting procedures of tools on standard and CNC machines. After positioning the setting instrument onto the machine bench, approach tool until it lightly touches the plate, a luminous LED will be turned on upon all throughout its range. Chromed steel stand with magnetic insert block for horizontal-position.





Tech. Code	D mm	h mm	Tolerance mm
D30301	55	50	± 0.005

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

TOOL SETTER

ALPA

ITEM: HA200

FEATURES

Durable aluminium structure.
Hardened ground steel plate.
Magnetic support base for use also horizontal.
Tolerance on zeroing height: ± 0.005 mm.
Fast and precise tool for zeroing tools on traditional and CNC machines.
Once the zeroer is positioned on the machine table, approach it with the tool and press down on the plate until the set zeroing height is reached.



Tech. Code	Readout mm	Stroke mm	Zeroing mm
D31351	0,01	5	50
D31352	0,01	5	100

PRUSSIAN BLUE STRIKER PASTE

ALPA

ITEM: HA154

FEATURES

Ideal for locating high areas during scraping operations or contact points between parts to achieve assembly precision.
It is used by contacting the reference surface that is blue and the surface to be checked.
The blue parts highlight the areas to be scraped.
Does not dry.
Does not harden.
Long life.



Tech. Code	g
D3250200	200

BLACK GRANITE TRIVET TABLE

ALPA

ITEM: HA122

FEATURES

Non-magnetic, non-conducting granite tabletop.
Made of stainless material.
African Black Grade "0".
Complete with painted rectangular steel frame.
Levelling pins and adjustable feet.
Supplied with test certificate DIN 876/0.
On request tabletops in absolute black or African Black Grade "00" diabase.
Supplied with calibration certificate.



Tech. Code	Plan dimensions mm	Accuracy mm
D3205630	630 x 400	± 0,004
D3205800	800 x 500	± 0,004
D32051000	1000 x 630	± 0,004
D32051200	1200 x 800	± 0,005
D32051600	1600 x 1000	± 0,006
D32052000	2000 x 1000	± 0,006

BLACK GRANITE COUNTERTOP

ITEM: HA120

FEATURES
Amagnetic, non-conducting.
Made of stainless material.
African Black Grade "0".
Supplied with test certificate DIN 876/0.
Supplied with calibration certificate.



Tech. Code	Dimensions mm	Accuracy mm	kg
D3200250	250 x 160 x 40	± 0,003	5
D3200300	300 x 200 x 50	± 0,003	9
D3200400	400 x 400 x 60	± 0,003	32
D3200630	630 x 400 x 80	± 0,004	62
D3200800	800 x 500 x 100	± 0,004	130
D32001000	1000 x 630 x 140	± 0,004	260
D32001200	1200 x 800 x 160	± 0,005	460
D32001600	1600 x 1000 x 180	± 0,006	900
D32002000	2000 x 1000 x 220	± 0,006	1300

SUPPORT TABLE FOR GRANITE TOP

ITEM: HA125

FEATURES
Rectangular painted steel construction.
Suitable for granite tops.
Levelling pins.
Adjustable feet.
Suitable for use in metrology rooms only.
Supplied with calibration certificate.



Tech. Code	Dimensions mm	kg
D3210600*	600 x 400	30
D32101000	1000 x 630	55
D32101200	1200 x 800	80
D32101500	1500 x 1000	100
D32102000	2000 x 1000	120

CLEANER FOR LAPPED SURFACES

ITEM: HA155

FEATURES
Special cleaning liquid for lapped surfaces.



Tech. Code	L
D3252500	0,5
D32525KG	5

POLISHING OIL FOR GRANITE

ITEM: BLACK LIGHT

FEATURES
BLACK LIGHT is a product designed and formulated to protect, revitalise, preserve and polish diabase granite tops.
The product can be used on any granite surface, even outside controlled environments; it can therefore be used in any metal workshop.
BLACK LIGHT contains only chemically enhanced components of plant origin to maximise the protective, brightening and safety characteristics of the product.
Since the product is formulated only with compounds of vegetable origin, it has no safety data sheet and is therefore not dangerous to humans.
The product does not contain substances classified as hazardous to health or the environment according to the provisions of Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and adjustments) in quantities that require declaration.



Tech. Code	Package	Quantity ml
D32570500	Jar	500
D32575000	Can	5000

DIGITAL GONIOMETER MADE OF STAINLESS MATERIAL

ITEM: EA012

FEATURES
Hardened scales.
Accuracy ± 2'.
Supplied with 150 mm and 300 mm moving scales.
Supplied with calibration certificate.

Tech. Code	Campo	Resolution	Moving blade mm
D4110300	0° ÷ 360°	1' - 1/100°	150 - 300

Tech. Code	Model
D99113V	3V Battery - CR2032

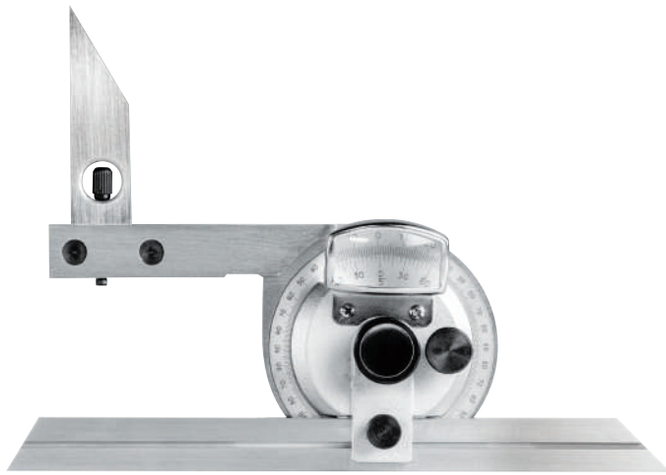


RAPPORTOR WITH LENS

ITEM: EB022

FEATURES
Hardened stainless steel construction.
Economical, high-precision scale.
Parallax error-free reading scale.
Supplied with calibration certificate.

Tech. Code	Range	Resolution	Fixed line mm	Movable rule mm
D4115300	0 - 360°	5'	100	200 - 300



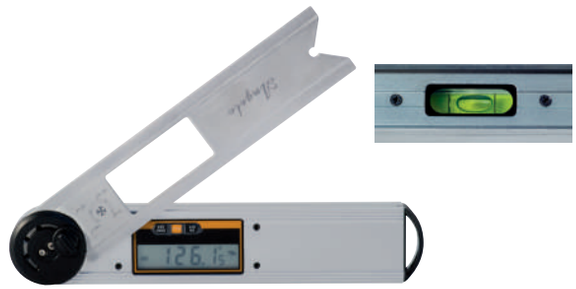
DIGITAL UNIVERSAL PROTRACTORS WITH SPIRIT LEVEL

ITEM: D4130

FEATURES
0.05° resolutionAluminium body, ON/OFF button.

Tech. Code	Range	Accuracy	Dimension mm
D4130360	360°	± 0,2°	254 x 50 x 36

Tech. Code	Model
D99113V	3V Battery - CR2032





MEASURING LAB

Our experience in the field of measuring instruments goes back a long way to when companies started talking about ISO 9000 quality certification and the consequent need to periodically calibrate measuring and testing instruments.
This increasingly pressing need of our customers led to the A+B Group provides a calibration and certification laboratory, which guarantees a high reliability and speed of the services provided.
Our laboratory is able to calibrate instruments for the most varied applications in the various industrial sectors such as aerospace, automotive, medical, food and beverage and mechanical engineering in general.

INSPECTION CERTIFICATE UNI EN ISO 9001:2008

Document issued by which reference to primary national standards is ensured.

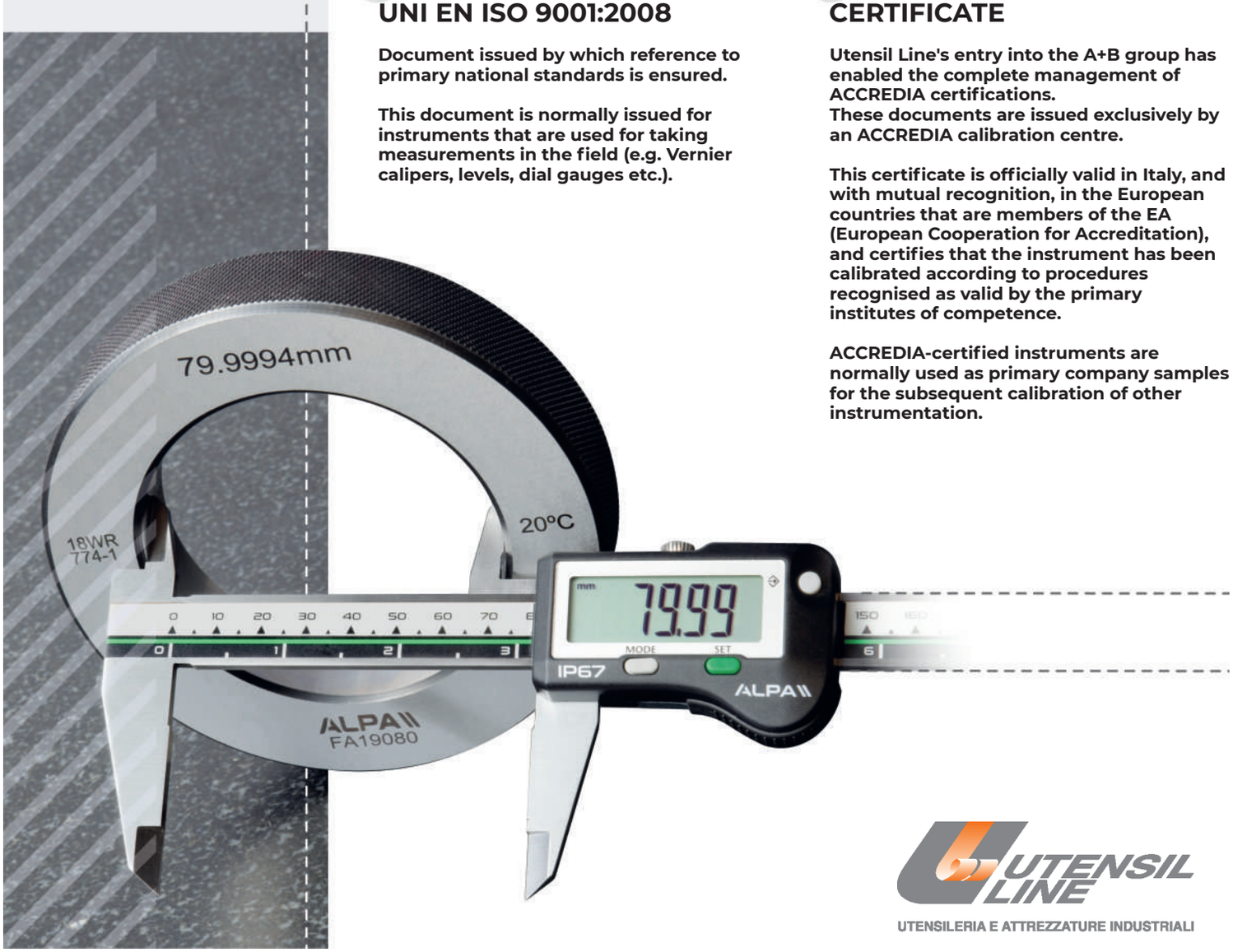
This document is normally issued for instruments that are used for taking measurements in the field (e.g. Vernier calipers, levels, dial gauges etc.).

ACCREDIA CALIBRATION CERTIFICATE

Utensil Line's entry into the A+B group has enabled the complete management of ACCREDIA certifications.
These documents are issued exclusively by an ACCREDIA calibration centre.

This certificate is officially valid in Italy, and with mutual recognition, in the European countries that are members of the EA (European Cooperation for Accreditation), and certifies that the instrument has been calibrated according to procedures recognised as valid by the primary institutes of competence.

ACCREDIA-certified instruments are normally used as primary company samples for the subsequent calibration of other instrumentation.



UTENSIL LINE
UTENSILERIA E ATTREZZATURE INDUSTRIALI

ALTIMETER

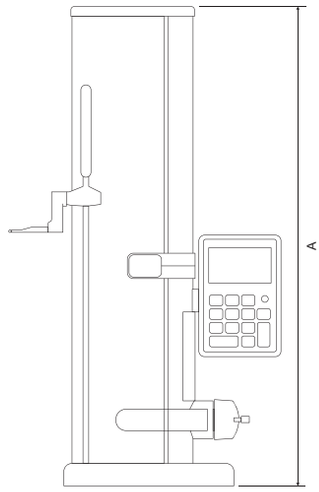
ITEM: GA050

FEATURES
Resolution 0.001 mm.
Electronically adjustable measuring force.
Touch probe balancing system.
Swiss-built, robust, accurate and reliable altimeter.
High-contrast, easy-to-use display unit.
RS232 and USB interface.
Equipped with air cushion for easy handling on the plane.
Supplied with 4 mm dia. ruby touch probe, calibration sample and protective cloth.

FUNCTIONS
- 2 (Ø:4) µm
- N 0,75 ÷ 1,5
- 40 h
- IP67
- 5 µm
- 10 µm (GA050400)

15 µm (GA050700)

Supplied with calibration certificate.





Tech. Code	Range mm	Base mm	A mm
D4200400	400	278 x 270	780
D4200700	700	278 x 270	1084

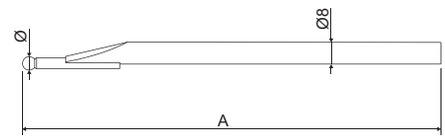
Tech. Code	Description
D4201USB	Mini USB connection cable

REPLACEMENT TOUCH PROBE FOR ALTIMETERS

ITEM: GA052

FEATURES
Ruby and carbide ball probes.





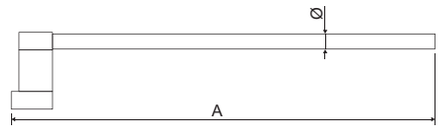
Tech. Code	A mm	Ø mm	Sphere
D4203MD175	75	1	Hard metal
D4203MD280	80	2	Hard metal
D4203MD2130	130	2	Hard metal
D4206RB490	90	4	Ruby
D4206RB5129	129	5	Ruby

CERAMIC PROBE HOLDER FOR ALTIMETERS

ITEM: GA051

FEATURES
Ceramic probe holder for altimeters.





Tech. Code	A mm	Ø mm
D4202PROL	330	8

ALTIMETERS - ACCESSORIES IN SETS

ITEM: GA053

comprising: Ball stylus Ø4mm L=80mm, 90° stylus Ø4mm L=65mm, Plug stylus Ø2mm L=97mm, Ball stylus holder L=124mm M2,5, Ball stylus Ø2mm M2,5, Disk insert Ø18mm, Hexagonal tap 2,5.



Tech. Code	Pieces
D4204KIT7	7
D4204KIT16	16
D4204KIT20	20

HEIGHT GAUGES WITH 2D ELECTRONIC

ITEM: D4215

NEW



FEATURES
Totally manufactured in Switzerland extremely accurate and reliable.
Manual and two speed motorized handlings integrated into the same control.
2D New electronic with interface touch-screen intuitive easy and simple to use.
Air cushion for easy displacement.

Functionality:
Measuring ranges: 400 700 1100 mm
Resolution: 0,0001 mm
Repeatability:pm 1 (Ø : 2)
Measuring force: N 0,75 ÷ 1,5
Extremely easy to use
Electronically adjustable measuring force
Autonomy 12 ore (battery lithium-ion)
Interfaces RS232 e USB

Supplied with:
Probe in ruby Ø4 mm L90 mm (D4206RB490)
RDT on master
RDT on measurement line
RDT on ortogonlità
Protective cover.

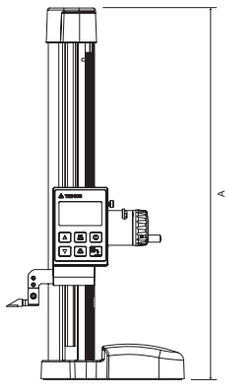
Tech. Code	Measuring range extended mm	Max error mm	Perpendicularity error mm
D4215400	719	2 + L/400	5
D4215700	1023	2 + L/400	8
D42151100	1422	2 + L/400	11

AVAILABILITY LIMITED TO CERTAIN COUNTRIES ONLY

ALTIMETER

ITEM: GA005

NEW





FEATURES
Ideal for those taking their first steps in precision measurement.
The V1 model simplifies one-way measurement and plotting with remarkable ease.
It offers a smooth transition for users accustomed to manual plotters, upgrading their instrument set without sacrificing simplicity and robustness.
This instrument is designed to last, embodying the Swiss philosophy of durability and precision, with features designed for immediate application.
Robust and easily transportable.
Clear and simple user interface.
Integrated counterweight in the column.
Fast and smooth carriage movement.
Designed and manufactured in Switzerland.
RS232 connectivity.

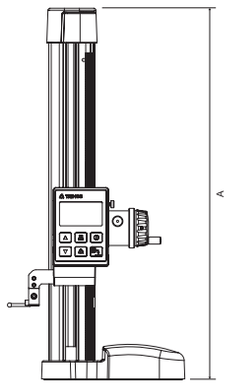
FUNCTIONS
- Repeatability: 10 µm
- Measuring force: N -
- Autonomy: 2000 h
- Maximum error: 18 µm (GA0050300) 30 µm (GA0050600)

Supplied with calibration certificate.

Tech. Code	Range mm	Base mm	A mm
D4250300	306	203 x 129	526
D4250600	611	205 x 156	831

ITEM: GA010

NEW





FEATURES
This model exceeds the core features of the V1 model, meeting the needs of those who wish to expand their measuring capabilities.
It implements bi-directional measurement, which increases versatility without requiring additional accessories, and the V1+ is also perfect for measuring diameters, both internal and external.
It also offers advanced fine adjustment and constant measuring force, both essential for improving measurement accuracy and repeatability.
Robust and easily transportable.
Clear and simple user interface.
Integrated counterweight in the column.
Fast and smooth carriage movement.
Designed and manufactured in Switzerland.
Diameter measuring capability.
Measuring force management.
RS232 connectivity.
The +GR specification in the technical code indicates granite base.

FUNCTIONS
- Repeatability: 5 µm
- Measuring force: N 3
- Autonomy: 2000 h
- Maximum error: 15 µm (GA0100300+) 25 µm (GA0100600+)

Supplied with calibration certificate.

Tech. Code	Range mm	Base mm	A mm
D4251300P	306	203 x 129	526
D4251600P	611	205 x 156	831

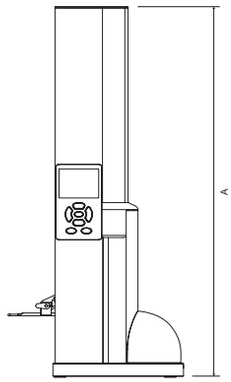
ALTIMETER WITH BLUETOOTH®

sylvac

NEW

ITEM: GA030

FEATURES
Resolution 0.001mm.
Accuracy 2.5+L/175mm.
Completely redesigned mechanics.
Compact and handy.
Switch on and measure, maximum simplicity.
Measurement of heights, thicknesses, depths, inside/outside diameters and wheelbases.
Integrated Bluetooth data transmission technology.
Mini-USB and serial connectors for data transmission via cable.
New generation progressive motorisation.
Extremely low measuring force (adjustable 0.2-0.3N).
Simultaneous display of diameter and wheelbase.
Quick probe change.
Wide range of accessories.
Small "A4 size" working surface.





FUNCTIONS
- Repeatability: 1 µm
- Measuring force: N 0.25 ÷ 0.35
- Autonomy: <40² h
- Maximum error: 2.0 + L/200 µm

Supplied with calibration certificate.

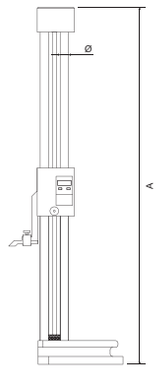
Tech. Code	Range mm	Base mm	A mm
D4255155	0 ÷ 155	92 x 147	381
D4255320	0 ÷ 320	92 x 147	531
D4255470	0 ÷ 470	112 x 172	681

IP54 DOUBLE-COLUMN DIGITAL TRUSKING

ALPA

ITEM: GA075

FEATURES
Resolution 0.01mm.
IP54 protection.
Electronics protected against dust and water sprays.
Cast iron base rectified at all four points.
Polished chrome-plated steel columns.
LCD display.
Stainless steel square tracer supplied, adjustable on housing key.
Made with Sylvac electronics with preset and data output.
With quick-change button.





Tech. Code	Range mm	Accuracy mm	Base mm	A mm	Ø mm
D4205300	0 ÷ 300	± 0,03	204 x 117	595	20
D4205600	0 ÷ 600	± 0,03	204 x 117	858	20
D42051000	0 ÷ 1000	± 0,04	204 x 117	1058	20

Tech. Code	Model
D99113V	3V Battery - CR2032
D4205AC	Dial and probe snug

DOUBLE COLUMN DIGITAL HEIGHT GAUGES

Mitutoyo

ITEM: SERIE 192

FEATURES
Resolution 0.01 / 0.005 mm Digital height guages, high accuracy performance but simple to use. The double column structure ensures high measurement accuracy. Supplied with micrometri adjustment , carbide tip scriber.
Data Output.



Tech. Code	Range mm
D4209300	0 ÷ 300
D4209600	0 ÷ 600

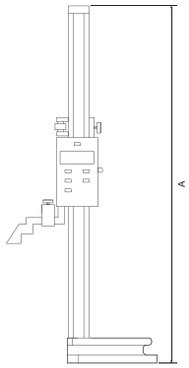
Tech. Code	Model
D99051,5V	Battery 1.5V SR44

MULTIFUNCTION DIGITAL TRUSKING

ALPA

ITEM: GA080

FEATURES
Resolution 0.01 mm.
LCD display.
Hardened stainless steel.
Accessories available on request.
Feeler attachment Ø 8 mm included.
Feeler attachment and spare scribing tips available on request depending on model.
Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	Base mm	A mm	Section mm	Tip mm
D4210300	0 ÷ 300	± 0,04	132 x 91 x 44	470	23 x 6	8 x 6
D4210500	0 ÷ 500	± 0,05	180 x 120 x 54	720	31 x 11	10 x 12
D42101000	0 ÷ 1000	± 0,07	250 x 150 x 75	1280	50 x 16	15 x 10
D42101500	0 ÷ 1500	± 0,11	280 x 180 x 100	1800	50 x 16	15 x 10

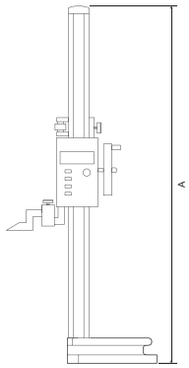
Tech. Code	Model
D99051,5V	Battery 1.5V SR44
D4211AC	Indicator holder

DIGITAL TRUSKING

ALPA

ITEM: GA095

FEATURES
Resolution 0.01 mm.
LCD display.
Hardened stainless steel.
With crank and rack.
8 mm dia. probe holder included.
Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	Base mm	A mm	Section mm	Drill mm
D4220300	0 ÷ 300	± 0,04	132 x 91 x 54	550	35 x 15	10 x 12
D4220600	0 ÷ 600	± 0,05	180 x 120 x 54	830	35 x 15	10 x 12

Tech. Code	Model
D99051,5V	Battery 1.5V SR44
D4221AC	Comparator holder
D4221AT	Probe attachment

DIGITAL GAUGES

Mitutoyo

ITEM: SERIE 570

FEATURES
High-accuracy ABS surface gauges with 0.01 mm resolution and data output.
High rigidity column for high measurement accuracy.
High-visibility display.
Carbide plotting tip included.



Tech. Code	Range mm
D4222300	0 ÷ 300
D4222600	0 ÷ 600

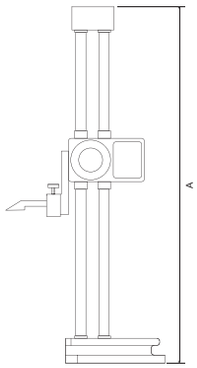
Tech. Code	Model
D99051,5V	Battery 1.5V SR44

DOUBLE-COLUMN CLOCKWORK SURFACE GAUGE

ALPA

ITEM: GB010

FEATURES
Resolution 0.01 mm.
Hardened stainless steel.
Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	Base mm	A mm	Ø mm	Comparator section mm
D4230300	0 ÷ 300	± 0,04	135 x 90	480	15	12 x 9
D4230600	0 ÷ 600	± 0,05	180 x 120	810	20	12 x 9

Tech. Code	Model
D4230AC	Touch probe holder attachment
D4230PR	Replacement drill bit
D4202PROL	Ceramic probe holder Ø 8 L=330 mm

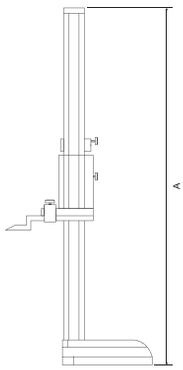
SURFACE GAUGE

ALPA

ITEM: GB020

FEATURES
Resolution 0.02 mm.
Cast iron base.
Stainless steel measuring rod.
Stroke with millimetre adjustment.
Carbide scribing tip.

Supplied with calibration certificate.





Tech. Code	Range mm	Accuracy mm	Base mm	A mm	Section mm
D4240300	0 ÷ 300	± 0,03	135 x 90	540	35 x 12
D4240600	0 ÷ 600	± 0,06	180 x 120	880	35 x 12

Tech. Code	Description
D4240RP300	300 mm drill bit 10x9 mm shank
D4240RP600	600 mm drill bit 10x9 mm shank

V-SHAPED PARALLEL STEEL BLOCKS

ALPA

ITEM: HA035

FEATURES
Machined and supplied in pairs.
90° hollow-forming surfaces.
Accuracy 0.01 mm.
0.10 mm on request.

Supplied with calibration certificate.



Tech. Code	Dimensions mm	Accuracy mm
D45106565	60 x 60 x 50	± 0,01
D4510075075	75 x 75 x 60	± 0,01
D45109595	95 x 70 x 35	± 0,01
D4510100080	100 x 80 x 60	± 0,01
D4510120090	120 x 90 x 60	± 0,01
D4510150100	150 x 100 x 60	± 0,01

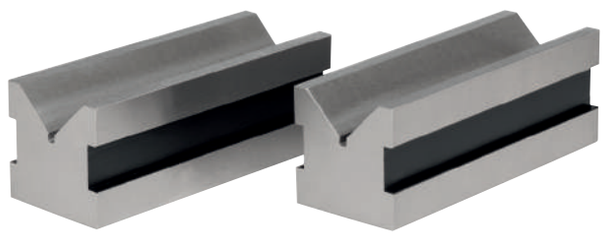
PAIR OF PARALLEL V-SHAPED STEEL PRISMS

ALPA

ITEM: HA050

FEATURES
Accuracy 0.01 mm.
On request with accuracy 0.10 mm.
Machined in pairs.
Rectified.

Supplied with calibration certificate.



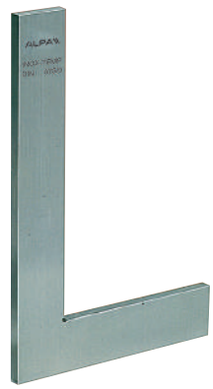
Tech. Code	Dimensions mm	Accuracy mm
D452007540	75 x 40 x 40	± 0,01
D452010045	100 x 45 x 45	± 0,01
D4520150055	150 x 55 x 55	± 0,01
D4520200070	200 x 70 x 70	± 0,01
D452025085	250 x 85 x 85	± 0,01

SIMPLE SQUARE IN HARDENED STAINLESS STEEL

ITEM: HA085

FEATURES
Fully ground on faces.
High-precision.
Manufactured and tested to high quality standards according to DIN 875/0.
With serial number.
Supplied with calibration certificate.

Tech. Code	Dimensions mm
D46115040	50 x 40
D4611075050	75 x 50
D4611100070	100 x 70
D4611150100	150 x 100
D4611200130	200 x 130
D4611250165	250 x 165
D4611300200	300 x 200



SIMPLE BEVELLED SQUARE IN HARDENED STAINLESS STEEL

ITEM: HA090

FEATURES
The two chamfered and lapped sides allow for more accurate visual inspection.
Fully ground high-precision square being manufactured and tested according to strict procedures, following DIN 875/00.
Equipped with serial number.
Supplied with calibration certificate.

Tech. Code	Dimensions mm
D46135040	50 x 40
D4613075050	75 x 50
D4613100070	100 x 70
D4613150100	150 x 100
D4613200130	200 x 130
D4613250165	250 x 165
D4613300200	300 x 200



HARDENED STAINLESS STEEL HAT SQUARE

ITEM: HA075

FEATURES
Fully ground on faces.
High-precision.
Manufactured and tested to high quality standards according to DIN 875/0.
With serial number.
Supplied with calibration certificate.

Tech. Code	Dimensions mm
D46165040	50 x 40
D4616075050	75 x 50
D4616100070	100 x 70
D4616150100	150 x 100
D4616200130	200 x 130
D4616250165	250 x 165
D4616300200	300 x 200

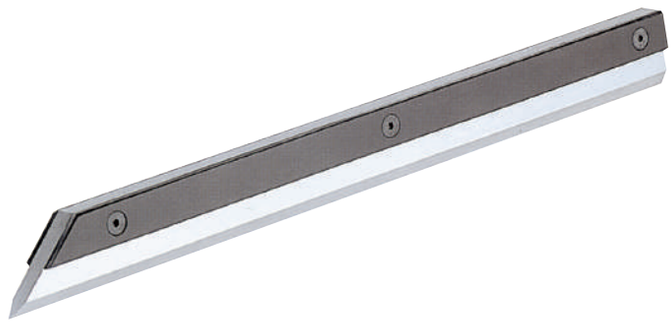


BEVELED STRAIGHT EDGES

ITEM: D4620

FEATURES
Ruler to control flatness. In stainless steel with insulated handle.
In compliance with DIN 874/00 standards.

Tech. Code	Dimension mm
D462050	50
D462075	75
D4620100	100
D4620125	125
D4620150	150
D4620200	200
D4620250	250
D4620300	300
D4620400	400
D4620500	500



DIGITAL PRECISION LEVELS WITH BLUETOOTH

WYLER

ITEM: EA055

NEW



FEATURES
Accuracy 0.055% (> 15").
Wireless functionality for Android™ devices.
High-visibility, low-power, backlit display.
User-friendly with completely redesigned, highly intuitive graphical user interface.
Adjusted to local gravity for highest possible accuracy.
Increased accuracy: 0.04% of measured value minimum 5" (arc seconds).
Extreme versatility, allows measurement of both parallelism and perpendicularity, e.g. vertical rails or presses.

FUNCTIONS
- Bluetooth®
- ABS
- Sleep
- Hold
- mm/inch

Supplied with calibration certificate.

Tech. Code	Range	Resolution	Version
D47230055ST	± 45°	5"	Standard

SCRAPED LINEAR SPIRIT LEVEL SENSITIVITY 0.02 MM/M

ALPA

ITEM: EB051



FEATURES
Base with V-groove, for checking flat and cylindrical surfaces.

Supplied with calibration certificate.

Tech. Code	Length mm	Sensitivity mm/m
D4701150	150	0,02
D4701200	200	0,02
D4701250	250	0,02

RECTIFIED LINEAR SPIRIT LEVEL SENSITIVITY 0.02 MM/M

ALPA

ITEM: EB055



FEATURES
Base with V-groove, for checking flat and cylindrical surfaces.

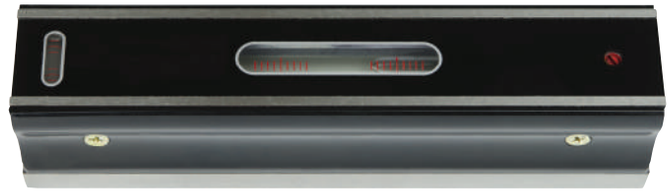
Supplied with calibration certificate.

Tech. Code	Length mm	Sensitivity mm/m
D4700150002	150	0,02
D4700200002	200	0,02
D4700250002	250	0,02
D4700300002	300	0,02

RECTIFIED LINEAR SPIRIT LEVEL SENSITIVITY 0.05 MM/M

ALPA

ITEM: EB060



FEATURES
Base with V-groove, for checking flat and cylindrical surfaces.

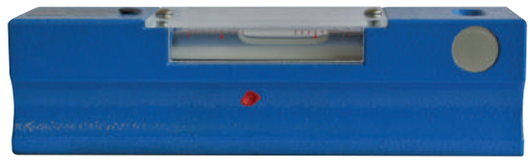
Supplied with calibration certificate.

Tech. Code	Length mm	Sensitivity mm/m
D4702100	100	0,05
D4702150	150	0,05
D4702200	200	0,05
D4702250	250	0,05
D4702300	300	0,05

LINEAR SPIRIT LEVEL

ITEM: EB035

FEATURES
Constructed of chrome-nickel cast iron with reinforcing ribs.
Ground surfaces.
Flat base with V-groove.
With serial number.
Built to DIN877.
The vial is visible from above and from the side.
Supplied with calibration certificate.

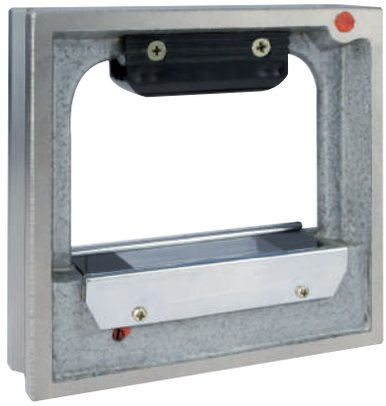


Tech. Code	Length mm	Sensitivity mm/m
D4703150	150	0.02
D4703200	200	0,02
D4703300	300	0,02

SCRAPED SQUARE SPIRIT LEVEL SENSITIVITY 0.02 MM/M

ITEM: EB040

FEATURES
Four right-angled support surfaces, two of which are flat and two with V-grooves for checking flat and cylindrical, horizontal and vertical surfaces.
Handle for thermal insulation and vial protection.
Supplied with calibration certificate.

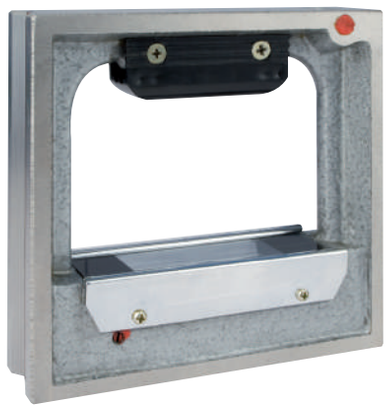


Tech. Code	Length mm	Sensitivity mm/m
D4706150	150	0,02
D4706200	200	0,02

RECTIFIED SQUARE SPIRIT LEVEL SENSITIVITY 0.02 MM/M

ITEM: EB045

FEATURES
Four right-angled support surfaces, two of which are flat and two with V-grooves for checking flat and cylindrical, horizontal and vertical surfaces.
Handle for thermal insulation and vial protection.
Supplied with calibration certificate.



Tech. Code	Length mm	Sensitivity mm/m
D4705100005	100	0,05
D4705150005	150	0,05
D4705200005	200	0,05
D4705250005	250	0,05
D4705150002	150	0,02
D4705200002	200	0,02
D4705250002	250	0,02

SQUARE SPIRIT LEVELS

ITEM: EB030

FEATURES
Manufactured in nichel-chrome cast iron frame.
Fine grinded surface, 2 plane and 2 prismatic faces.
Serial number, manufactured according to DIN 877.
Thermal-insulated grip.
The vial is visible both from above and laterally.



Tech. Code	Dimension mm	Sensitivity mm/m
D4707150	150 x 150	0,02
D4707200	200 x 200	0,02

DIGITAL INCLINOMETER

ITEM: EA021

FEATURES
360° goniometer (4 x 90°) and inclinometer.
On/off button.
Reset to any position.
3V transistor-type battery power supply included.

FUNCTIONS
- Hold

Supplied with calibration certificate.



Tech. Code	Resolution	Dimensions mm
D47101	0,1°	150 x 30 x 50

Tech. Code	Model
D99113V	3V Battery - CR2032

SQUARE DIGITAL MINI-LEVEL WITH MAGNETIC BASE

ITEM: EA070

NEW

FEATURES
Hand-held angle testing instrument.
Zeroing in any position.
Supplied with case.

Supplied with calibration certificate.



Tech. Code	Range	Dimensions mm	Resolution	Accuracy	Repeatability
D471501	± 180°	50 x 50 x 32	0,1°	± 0,20°	± 10°

Tech. Code	Model
D99113V	3V Battery - CR2032



SMOOTH P/NP PADS IN SETS

ITEM: FA188

FEATURES
Hardened steel.
H7 tolerance.
Supplied in wooden case.
Supplied with calibration certificate.



Tech. Code	Set composition Ø mm	Pieces
D551615	32-34-35-36-38-40-42-44-46-48-50-52-55-58-60	15
D551626	3-4-5-6-7-8-10-11-12-13-14-15-16-17-18-20 21-22-23-24-25-26-27-28-29-30	26

SMOOTH PAD P/NP

ITEM: FA187

FEATURES
Hardened steel.
H7 tolerance.
Up to Ø65 1 plug gauge, over 2 plug gauges (P or NP).
Supplied with calibration certificate.



Tech. Code	Ø mm	Tolerance
D55103	3	H7
D55104	4	H7
D55105	5	H7
D55106	6	H7
D55107	7	H7
D55108	8	H7
D55109	9	H7
D551010	10	H7
D551011	11	H7
D551012	12	H7
D551013	13	H7
D551014	14	H7
D551015	15	H7
D551016	16	H7
D551017	17	H7
D551018	18	H7
D551019	19	H7
D551020	20	H7
D551021	21	H7
D551022	22	H7
D551023	23	H7
D551024	24	H7

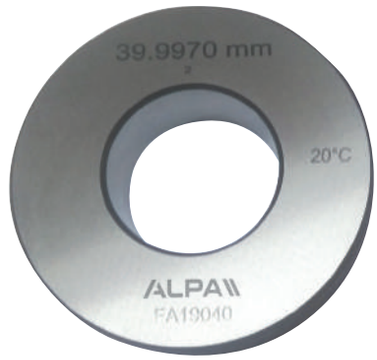
Tech. Code	Ø mm	Tolerance
D551025	25	H7
D551026	26	H7
D551027	27	H7
D551028	28	H7
D551029	29	H7
D551030	30	H7
D551032	32	H7
D551033	33	H7
D551034	34	H7
D551035	35	H7
D551036	36	H7
D551037	37	H7
D551038	38	H7
D551040	40	H7
D551042	42	H7
D551044	44	H7
D551045	45	H7
D551046	46	H7
D551047	47	H7
D551048	48	H7
D551050	50	H7
D551052	52	H7

Tech. Code	Ø mm	Tolerance
D551055	55	H7
D551056	56	H7
D551058	58	H7
D551060	60	H7
D551062	62	H7
D551065	65	H7
D551068	68	H7
D551070	70	H7
D551072	72	H7
D551075	75	H7
D551078	78	H7
D551080	80	H7
D551082	82	H7
D551085	85	H7
D551088	88	H7
D551090	90	H7
D551092	92	H7
D551095	95	H7
D551098	98	H7
D5510100	100	H7

RESETTING RING

ITEM: FA190

FEATURES
Conforms to DIN 2250.
Supplied with calibration certificate.



Tech. Code	Ø mm
D551704	4
D551705	5
D551706	6
D551707	7
D551708	8
D551709	9
D551710	10
D551711	11
D551712	12
D551713	13
D551714	14
D551715	15
D551716	16
D551717	17
D551718	18
D551719	19
D551720	20
D551721	21
D551722	22
D551723	23
D551724	24
D551725	25
D551726	26
D551727	27
D551728	28

Tech. Code	Ø mm
D551729	29
D551730	30
D551732	32
D551733	33
D551734	34
D551735	35
D551736	36
D551737	37
D551738	38
D551740	40
D551742	42
D551744	44
D551745	45
D551746	46
D551747	47
D551748	48
D551750	50
D551752	52
D551755	55
D551756	56
D551758	58
D551760	60
D551762	62
D551765	65
D551768	68

Tech. Code	Ø mm
D551770	70
D551772	72
D551775	75
D551778	78
D551780	80
D551782	82
D551785	85
D551788	88
D551790	90
D551792	92
D551795	95
D551798	98
D5517100	100
D5517110	110
D5517120	120
D5517125	125
D5517130	130
D5517140	140
D5517150	150
D5517175	175
D5517225	225
D5517250	250
D5517275	275

P/NP METRIC COARSE THREADED PAD (M)

ITEM: FA225

FEATURES
Hardened steel.
Tolerance 6H.
Supplied with calibration certificate.



Tech. Code	Ø and pitch	Tolerance
D5520T204	2 x 0,4	6H
D5520T2,5045	2,5 x 0,45	6H
D5520T305	3 x 0,5	6H
D5520T407	4 x 0,7	6H
D5520T508	5 x 0,8	6H
D5520T61	6 x 1	6H
D5520T8125	8 x 1,25	6H
D5520T1015	10 x 1,5	6H
D5520T12175	12 x 1,75	6H

Tech. Code	Ø and pitch	Tolerance
D5520T142	14 x 2	6H
D5520T162	16 x 2	6H
D5520T1825	18 x 2,5	6H
D5520T2025	20 x 2,5	6H
D5520T2225	22 x 2,5	6H
D5520T243	24 x 3	6H
D5520T273	27 x 3	6H
D5520T3035	30 x 3,5	6H

THREADED RING P METRIC COARSE THREAD (M)

ITEM: FA230

FEATURES
Hardened steel.
Tolerance 6g.
Supplied with calibration certificate.



Tech. Code	Ø and pitch	Tolerance
D5521AP204	2 x 0,4	6g
D5521ANP204	2 x 0,4	6g
D5521AP2,5045	2,5 x 0,45	6g
D5521AP305	3 x 0,5	6g
D5521AP407	4 x 0,7	6g
D5521AP508	5 x 0,8	6g
D5521AP61	6 x 1	6g
D5521AP8125	8 x 1,25	6g
D5521AP1015	10 x 1,5	6g
D5521AP12175	12 x 1,75	6g
D5521AP142	14 x 2	6g
D5521AP162	16 x 2	6g
D5521AP1825	18 x 2,5	6g
D5521AP2025	20 x 2,5	6g
D5521AP2225	22 x 2,5	6g
D5521AP243	24 x 3	6g
D5521AP273	27 x 3	6g

Tech. Code	Ø and pitch	Tolerance
D5521AP3035	30 x 3,5	6g
D5521ANP2,5045	2,5 x 0,45	6g
D5521ANP305	3 x 0,5	6g
D5521ANP407	4 x 0,7	6g
D5521ANP508	5 x 0,8	6g
D5521ANP61	6 x 1	6g
D5521ANP8125	8 x 1,25	6g
D5521ANP1015	10 x 1,5	6g
D5521ANP12175	12 x 1,75	6g
D5521ANP142	14 x 2	6g
D5521ANP162	16 x 2	6g
D5521ANP1825	18 x 2,5	6g
D5521ANP2025	20 x 2,5	6g
D5521ANP2225	22 x 2,5	6g
D5521ANP243	24 x 3	6g
D5521ANP273	27 x 3	6g
D5521ANP3035	30 x 3,5	6g

P/NP UNC THREADED PAD

ITEM: FA255

FEATURES
Hardened steel.
Tolerance 2B.
Supplied with calibration certificate.



Tech. Code	Ø and pitch	Tolerance
D5525348	#3-48	2B
D5525440	#4-40	2B
D5525540	#5-40	2B
D5525632	#6-32	2B
D5525832	#8-32	2B
D55251024	#10-24	2B
D55251224	#12-24	2B
D55251420	1/4"-20	2B
D55251618	5/16"-18	2B
D55253816	3/8"-16	2B

Tech. Code	Ø and pitch	Tolerance
D552571614	7/16"-14	2B
D55251213	1/2"-13	2B
D552591612	9/16"-12	2B
D55255811	5/8"-11	2B
D55253410	3/4"-10	2B
D5525789	7/8"-9	2B
D552518	1"-8	2B
D55251147	1"1/4-7	2B
D55251126	1"1/2-6	2B

METRIC FINE PITCH THREADED GAUGE (MF)

ITEM: FA210

FEATURES
Hardened steel.
Buffer passes no passes.
Tolerance 6H.
Supplied with calibration certificate.



Tech. Code	Ø and pitch	Tolerance
D5530T81	8 x 1	6H
D5530T10075	10 x 0,75	6H
D5530T101	10 x 1	6H
D5530T10125	10 x 1,25	6H
D5530T121	12 x 1	6H
D5530T12125	12 x 1,25	6H
D5530T1215	12 x 1,5	6H
D5530T141	14 x 1	6H
D5530T14125	14 x 1,25	6H
D5530T1415	14 x 1,5	6H
D5530T161	16 x 1	6H
D5530T1615	16 x 1,5	6H
D5530T181	18 x 1	6H
D5530T1815	18 x 1,5	6H
D5530T201	20 x 1	6H
D5530T2015	20 x 1,5	6H

Tech. Code	Ø and pitch	Tolerance
D5530T221	22 x 1	6H
D5530T2215	22 x 1,5	6H
D5530T241	24 x 1	6H
D5530T2415	24 x 1,5	6H
D5530T242	24 x 2	6H
D5530T2515	25 x 1,5	6H
D5530T2615	26 x 1,5	6H
D5530T2715	27 x 1,5	6H
D5530T2815	28 x 1,5	6H
D5530T301	30 x 1	6H
D5530T3015	30 x 1,5	6H
D5530T3215	32 x 1,5	6H
D5530T3415	34 x 1,5	6H
D5530T3615	36 x 1,5	6H
D5530T362	36 x 2	6H
D5530T4015	40 x 1,5	6H

THREADED RING P METRIC FINE PITCH (MF)

ITEM: FA215

FEATURES
Hardened steel.
Tolerance 6g.

Supplied with calibration certificate.



Tech. Code	Ø and pitch	Tolerance
D5532AP81	8 x 1	6g
D5532AP10075	10 x 0,75	6g
D5532AP101	10 x 1	6g
D5532AP10125	10 x 1,25	6g
D5532AP121	12 x 1	6g
D5532AP12125	12 x 1,25	6g
D5532AP1215	12 x 1,5	6g
D5532AP141	14 x 1	6g
D5532AP14125	14 x 1,25	6g
D5532AP1415	14 x 1,5	6g
D5532AP161	16 x 1	6g
D5532AP1615	16 x 1,5	6g
D5532AP181	18 x 1	6g
D5532AP1815	18 x 1,5	6g
D5532AP201	20 x 1	6g
D5532AP2015	20 x 1,5	6g
D5532AP2215	22 x 1,5	6g
D5532AP241	24 x 1	6g
D5532AP2415	24 x 1,5	6g
D5532AP242	24 x 2	6g
D5532AP2515	25 x 1,5	6g
D5532AP2615	26 x 1,5	6g
D5532AP2715	27 x 1,5	6g
D5532AP2815	28 x 1,5	6g
D5532AP301	30 x 1	6g
D5532AP3015	30 x 1,5	6g
D5532AP3215	32 x 1,5	6g
D5532AP3415	34 x 1,5	6g
D5532AP3615	36 x 1,5	6g
D5532AP362	36 x 2	6g
D5532AP4015	40 x 1,5	6g

Tech. Code	Ø and pitch	Tolerance
D5532ANP81	8 x 1	6g
D5532ANP10075	10 x 0,75	6g
D5532ANP101	10 x 1	6g
D5532ANP10125	10 x 1,25	6g
D5532ANP121	12 x 1	6g
D5532ANP12125	12 x 1,25	6g
D5532ANP1215	12 x 1,5	6g
D5532ANP141	14 x 1	6g
D5532ANP14125	14 x 1,25	6g
D5532ANP1415	14 x 1,5	6g
D5532ANP161	16 x 1	6g
D5532ANP1615	16 x 1,5	6g
D5532ANP181	18 x 1	6g
D5532ANP1815	18 x 1,5	6g
D5532ANP201	20 x 1	6g
D5532ANP2015	20 x 1,5	6g
D5532ANP2215	22 x 1,5	6g
D5532ANP241	24 x 1	6g
D5532ANP2415	24 x 1,5	6g
D5532ANP242	24 x 2	6g
D5532ANP2515	25 x 1,5	6g
D5532ANP2615	26 x 1,5	6g
D5532ANP2715	27 x 1,5	6g
D5532ANP2815	28 x 1,5	6g
D5532ANP301	30 x 1	6g
D5532ANP3015	30 x 1,5	6g
D5532ANP3215	32 x 1,5	6g
D5532ANP3415	34 x 1,5	6g
D5532ANP3615	36 x 1,5	6g
D5532ANP362	36 x 2	6g
D5532ANP4015	40 x 1,5	6g

THREADED RING P UNC

ITEM: FA260

FEATURES
Hardened steel.
Tolerance 2A.

Supplied with calibration certificate.



Tech. Code	Ø and pitch	Tolerance
D5526348	#3-48	2A
D5526440	#4-40	2A
D5526540	#5-40	2A
D5526632	#6-32	2A
D5526832	#8-32	2A
D55261024	#10-24	2A
D55261224	#12-24	2A
D55261420	1/4"-20	2A
D552651618	5/16"-18	2A
D55263816	3/8"-16	2A

Tech. Code	Ø and pitch	Tolerance
D552671614	7/16"-14	2A
D55261213	1/2"-13	2A
D552691612	9/16"-12	2A
D55265811	5/8"-11	2A
D55263410	3/4"-10	2A
D5526789	7/8"-9	2A
D5526018	1"-8	2A
D55261147	1"1/4-7	2A
D55261126	1"1/2-6	2A

THREADED RING NP UNC

ITEM: FA265

FEATURES
Hardened steel.
Tolerance 2A.

Supplied with calibration certificate.



Tech. Code	Ø and pitch	Tolerance
D5527348	#3-48	2A
D5527440	#4-40	2A
D5527540	#5-40	2A
D5527632	#6-32	2A
D5527832	#8-32	2A
D55271024	#10-24	2A
D55271224	#12-24	2A
D55271420	1/4"-20	2A
D552751618	5/16"-18	2A
D55273816	3/8"-16	2A

Tech. Code	Ø and pitch	Tolerance
D552771614	7/16"-14	2A
D55271213	1/2"-13	2A
D552791612	9/16"-12	2A
D55275811	5/8"-11	2A
D55273410	3/4"-10	2A
D5527789	7/8"-9	2A
D552718	1"-8	2A
D55271147	1"1/4-7	2A
D55271126	1"1/2-6	2A

P/NP UNF THREADED PAD

ITEM: FA240

FEATURES
Hardened steel.
Tolerance 2B.

Supplied with calibration certificate.



Tech. Code	Ø and pitch	Tolerance
D5528356	#3-56	2B
D5528448	#4-48	2B
D5528544	#5-44	2B
D5528640	#6-40	2B
D5528836	#8-36	2B
D55281032	#10-32	2B
D55281228	#12-28	2B
D55281428	1/4"-28	2B
D552851624	5/16"-24	2B
D55283824	3/8"-24	2B

Tech. Code	Ø and pitch	Tolerance
D552871620	7/16"-20	2B
D55281220	1/2"-20	2B
D552891618	9/16"-18	2B
D55285818	5/8"-18	2B
D55283416	3/4"-16	2B
D55287814	7/8"-14	2B
D5528112	1"-12	2B
D552811412	1"1/4-12	2B
D552811212	1"1/2-12	2B

THREADED RING P UNF

ITEM: FA245

FEATURES
Hardened steel.
Tolerance 2A.

Supplied with calibration certificate.



Tech. Code	Ø and pitch	Tolerance
D5529356	#3-56	2A
D5529448	#4-48	2A
D5529544	#5-44	2A
D5529640	#6-40	2A
D5529836	#8-36	2A
D55291032	#10-32	2A
D55291228	#12-28	2A
D55291428	1/4"-28	2A
D552951624	5/16"-24	2A
D55293824	3/8"-24	2A

Tech. Code	Ø and pitch	Tolerance
D552971620	7/16"-20	2A
D55291220	1/2"-20	2A
D552991618	9/16"-18	2A
D55295818	5/8"-18	2A
D55293416	3/4"-16	2A
D55297814	7/8"-14	2A
D55290112	1"-12	2A
D552911412	1"1/4-12	2A
D552911212	1"1/2-12	2A

THREADED RING NP UNF

ITEM: FA250

FEATURES
Hardened steel.
Tolerance 2A.

Supplied with calibration certificate.



Tech. Code	Ø and pitch	Tolerance
D55310356	#3-56	2A
D55310448	#4-48	2A
D55310544	#5-44	2A
D55310640	#6-40	2A
D55310836	#8-36	2A
D553101032	#10-32	2A
D553101228	#12-28	2A
D553101428	1/4"-28	2A
D5531051624	5/16"-24	2A
D553103824	3/8"-24	2A

Tech. Code	Ø and pitch	Tolerance
D5531071620	7/16"-20	2A
D553101220	1/2"-20	2A
D5531091618	9/16"-18	2A
D553105818	5/8"-18	2A
D553103416	3/4"-16	2A
D553107814	7/8"-14	2A
D55310112	1"-12	2A
D5531011412	1"1/4-12	2A
D5531011212	1"1/2-12	2A

P/NP GAS ISO 228 THREADED PAD

ITEM: FA270

FEATURES
Cylindrical thread.

Supplied with calibration certificate.



Tech. Code	Ø and pitch
D5540T1/8	1/8" - 28
D5540T1/4	1/4" - 19
D5540T3/8	3/8" - 19

Tech. Code	Ø and pitch
D5540T1/2	1/2" - 14
D5540T3/4	3/4" - 14
D5540T1	1" - 11

Tech. Code	Ø and pitch
D5540T11/8	1" 1/8 - 11

THREADED RING P GAS ISO 228

ITEM: FA275

FEATURES
Cylindrical thread.

Supplied with calibration certificate.



Tech. Code	Ø and pitch
D5541AP1/8	1/8" - 28
D5541AP1/4	1/4" - 19
D5541AP3/8	3/8" - 19
D5541AP1/2	1/2" - 14
D5541AP3/4	3/4" - 14

Tech. Code	Ø and pitch
D5541AP1	1" - 11
D5541AP11/8	1" 1/8 - 11
D5541ANP1/8	1/8" - 28
D5541ANP1/4	1/4" - 19
D5541ANP3/8	3/8" - 19

Tech. Code	Ø and pitch
D5541ANP1/2	1/2" - 14
D5541ANP3/4	3/4" - 14
D5541ANP1	1" - 11
D5541ANP11/8	1" 1/8 - 11

NPT THREADED PAD

ITEM: FA285

FEATURES
Conical thread.

Supplied with calibration certificate.



Tech. Code	Ø and pitch
D553511627	1/16" x 27
D553501827	1/8" - 27
D553501418	1/4" - 18
D553503818	3/8" - 18
D553501214	1/2" - 14
D553503414	3/4" - 14

Tech. Code	Ø and pitch
D553501115	1" - 11,5
D5535114115	1" 1/4 - 11,5
D5535112115	1" 1/2 - 11,5
D553502115	2" - 11,5
D553502128	2" 1/2 - 8
D5535038	3" - 8

NPT THREADED RING

ITEM: FA286

FEATURES
Conical thread.

Supplied with calibration certificate.



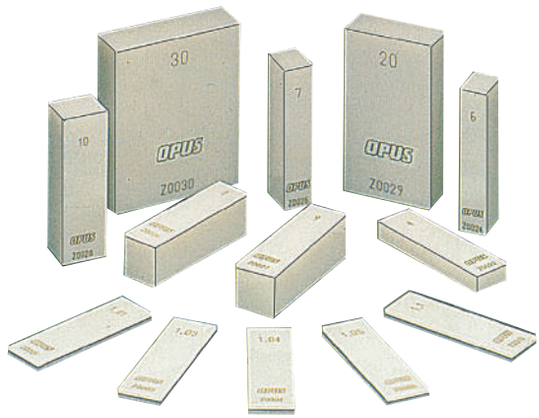
Tech. Code	Ø and pitch
D553611627	1/16" - 27
D553601827	1/8" - 27
D553601418	1/4" - 18
D553603818	3/8" - 18
D553601214	1/2" - 14
D553603414	3/4" - 14

Tech. Code	Ø and pitch
D553601115	1" - 11,5
D5536114115	1" 1/4 - 11,5
D5536112115	1" 1/2 - 11,5
D553602115	2" - 11,5
D55362128	2" 1/2 - 8
D5536038	3" - 8

CERAMIC FLAT-PARALLEL STRIKER BLOCKS

ITEM: FA100

FEATURES
Excellent abrasion resistance, with up to 10 times less wear than hardened steel.
Excellent corrosion resistance.
Low thermal conductivity.
Very high dimensional stability.
Hand-lapped measuring surfaces.
Each block is identified by a serial number.
Dimensional tolerances in accordance with DIN 861, ISO 3650 and BS 4311.
Thanks to a unique molecular transformation process, ceramic zircon offers a mechanical resistance that preserves its integrity in the event of an accidental drop.
Available in a fine wood box or as a single piece, always accompanied by a UKAS Class C calibration certificate on 5 points.



Supplied with calibration certificate.

Tech. Code	Grade	Pcs per size	Dimensions mm	Progression mm
D5690470	0	1	1,005	-
		9	1,01 ~ 1,09	0,01
		9	1,1 ~ 1,9	0,1
		24	1 ~ 24	1
		4	25 ~ 100	25
D5690471	1	1	1,005	-
		9	1,01 ~ 1,09	0,01
		9	1,1 ~ 1,9	0,1
		24	1 ~ 24	1
		4	25 ~ 100	25



SET OF CALIBRATED PINS

ITEM: FA185

NEW

FEATURES
Tolerance: ± 0.002 mm.
Hardness 61 64 Rockwell C.
Can be supplied individually on request.
Supplied with calibration certificate.



Tech. Code	Pieces	Range mm	Progression mm	Height mm
D561100501001	51	0,50 ÷ 1,00	0,01	50
D56110102001	101	1,00 ÷ 2,00	0,01	50
D56110203001	101	2,00 ÷ 3,00	0,01	50
D56110304001	101	3,00 ÷ 4,00	0,01	50
D56110405001	101	4,00 ÷ 5,00	0,01	50
D56110506001	101	5,00 ÷ 6,00	0,01	50
D56110607001	101	6,00 ÷ 7,00	0,01	50
D56110708001	101	7,00 ÷ 8,00	0,01	50
D56110809001	101	8,00 ÷ 9,00	0,01	50
D56110910001	101	9,00 ÷ 10,00	0,01	50
D56111011001	101	10 ÷ 11	0,01	50
D56111112001	101	11 ÷ 12	0,01	50
D56111213001	101	12 ÷ 13	0,01	50
D56111314001	101	13 ÷ 14	0,01	50
D56111415001	101	14 ÷ 15	0,01	50
D56111516001	101	15 ÷ 16	0,01	50
D56111617001	101	16 ÷ 17	0,01	50
D56111718001	101	17 ÷ 18	0,01	50
D56111819001	101	18 ÷ 19	0,01	50
D56111920001	101	19 ÷ 20	0,01	50

ITEM: FA186

NEW

FEATURES
Tolerance: ± 0.002 mm.
Hardness 61 64 Rockwell C.
Can be supplied individually on request..
Supplied with calibration certificate.

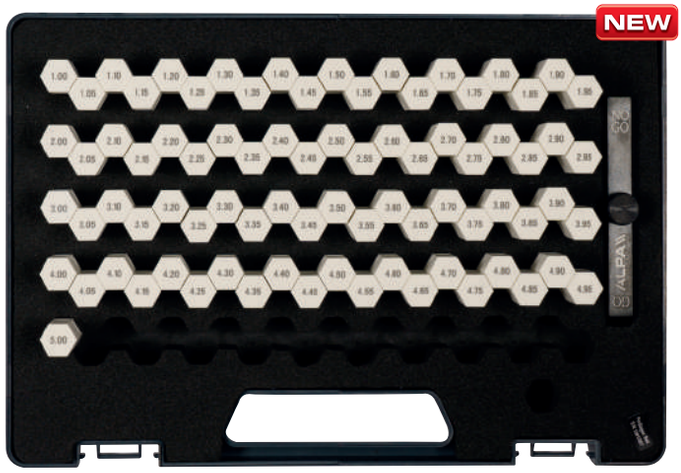


Tech. Code	Pieces	Range mm	Progression mm	Height mm
D5612011001	91	1,00 ÷ 10,00	0,10	50
D5612102001	101	10,00 ÷ 20,00	0,10	50

ITEM: FA191

NEW

FEATURES
Tolerance: ± 0.002 mm.
Roughness: less than 0.025 µm Ra.
Roundness: less than 0.0005 mm.
Taper: less than 0.001 mm.
Hardness 61 64 Rockwell C.
Can be supplied individually on request.
Supplied with calibration certificate.



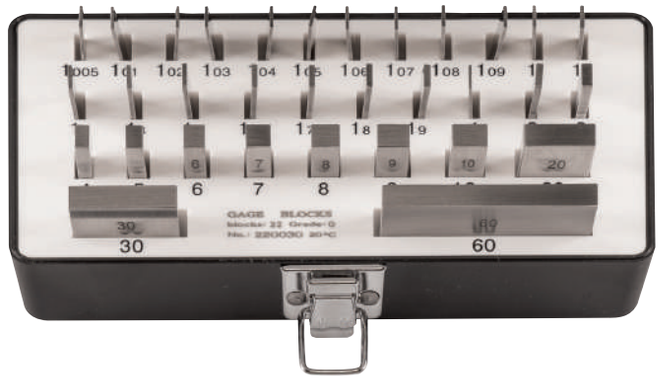
Tech. Code	Pieces	Range mm	Progression mm	Height mm
D56130105005	81	1,00 ÷ 5,00	0,05	50
D56130510005	101	5,00 ÷ 10,00	0,05	50

SET OF STEEL STRIKER BLOCKS

ALPA

ITEM: FA010

FEATURES
Conforms to ISO 3650 DIN 861.
Supplied with calibration certificate.



Tech. Code	Classes	Pieces	Set pcs.	Dimensions mm	Progression mm
D57101030	0	103	1	1,005	-
			49	1,01 ~ 1,49	0,01
			49	0,5 ~ 24,5	0,5
			4	25 ~ 100	25
D57101031	1	103	1	1,005	-
			49	1,01 ~ 1,49	0,01
			49	0,5 ~ 24,5	0,5
			4	25 ~ 100	25
D57101032	2	103	1	1,005	-
			49	1,01 ~ 1,49	0,01
			49	0,5 ~ 24,5	0,5
			4	25 ~ 100	25
D5710870	0	87	9	1,001~1,009	0,001
			49	1,01 ~ 1,49	0,01
			19	0,5 ~ 9,5	0,5
			10	10 ~ 100	10
D5710871	1	87	9	1,001~1,009	0,001
			49	1,01 ~ 1,49	0,01
			19	0,5 ~ 9,5	0,5
			10	10 ~ 100	10
D5710872	2	87	9	1,001~1,009	0,001
			49	1,01 ~ 1,49	0,01
			19	0,5 ~ 9,5	0,5
			10	10 ~ 100	10
D5710470	0	47	1	1,005	-
			9	1,01 ~ 1,09	0,01
			9	1,1 ~ 1,9	0,1
			24	1 ~ 24	1
			4	25 ~ 100	25
D5710471	1	47	1	1,005	-
			9	1,01 ~ 1,09	0,01
			9	1,1 ~ 1,9	0,1
			24	1 ~ 24	1
			4	25 ~ 100	25
D5710472	2	47	1	1,005	-
			9	1,01 ~ 1,09	0,01
			9	1,1 ~ 1,9	0,1
			24	1 ~ 24	1
			4	25 ~ 100	25
D5710320	0	32	1	1,005	-
			9	1,01 ~ 1,09	0,01
			9	1,1 ~ 1,9	0,1
			9	1 ~ 9	1
			3	10 ~ 30	10
			1	60	-
D5710321	1	32	1	1,005	-
			9	1,01 ~ 1,09	0,01
			9	1,1 ~ 1,9	0,1
			9	1 ~ 9	1
			3	10 ~ 30	10
			1	60	-
D5710322	2	32	1	1,005	-
			9	1,01 ~ 1,09	0,01
			9	1,1 ~ 1,9	0,1
			9	1 ~ 9	1
			3	10 ~ 30	10
			1	60	-

SET OF LARGE STEEL STRIKER BLOCKS

ALPA

ITEM: FA050

FEATURES
Accuracy class ISO 3650/0.
All blocks have two mating holes at the ends for clamping with a clamp.
Hardness: 63 HRC.
Cross-section: 35 x 9 mm.
Supplied in wooden box with manufacturer's test certificate.

Supplied with calibration certificate.



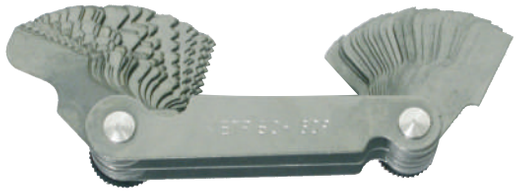
Tech. Code	Pieces	Dimensions mm	Grade
D571581	8	125 - 150 - 175 - 200 - 250 - 300 - 400 - 500	1

THREAD PITCH GAUGES

ITEM: D6150

FEATURES
Steel blades..

Tech. Code	Type	Checkable threads
D61501	52 blades	METRIC - WHIT. 55°
D61502	Triple	METRIC - GAS - WHIT. 55°



RADIUS GAUGES FOR CONCAVE AND CONVEX MEASUREMENTS

ITEM: D6160

FEATURES
Steel blades..

Tech. Code	Radius
D616017	1 - 7
D61607,515	7.5 - 15
D616015,525	15.5 - 25



WELDING GAUGES

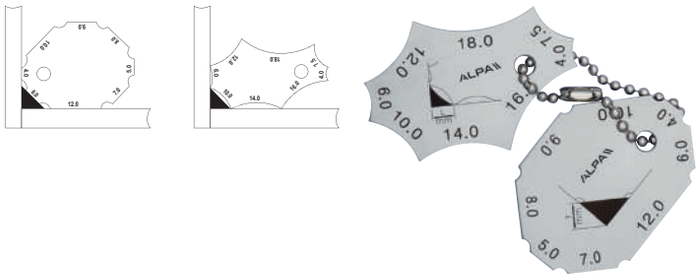
ALPA

ITEM: AB149

FEATURES
Accuracy ± 0.5 mm.
Stainless steel construction.
Marked on both faces.
Ideal for angle weld seam height and length control.

Supplied with calibration certificate.

Tech. Code	Thread mm	g
D616510	4, 5, 6, 7, 8, 9, 10, 12	50



WELDING GAUGE 7 BLADES

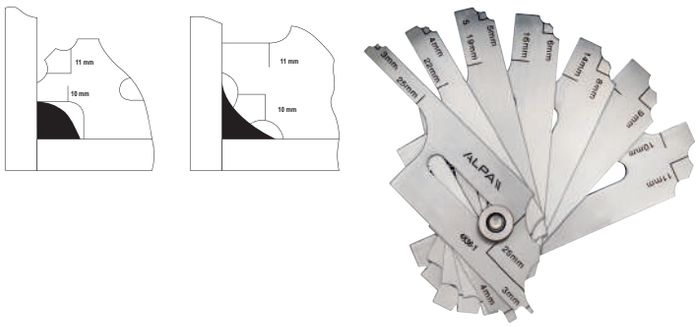
ALPA

ITEM: AB150

FEATURES
Accuracy ± 0.5 mm.
Stainless steel construction.
Measures concave and convex welds.
Each blade measures 2 weld sizes.
Marked on both sides.

Supplied with calibration certificate.

Tech. Code	Thread mm	g
D616725	3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 16, 19, 22, 25	200



JET GAUGES WITH STEEL PINS

ITEM: D6180

FEATURES
Steel pins, resin stands..

Tech. Code	Pin no.	Ø mm	Progression mm
D618020	20	0.45 - 1.5	0.05
D618016	16	1.5 - 3.0	0.10



THICKNESS GAUGES

ITEM: D6170

FEATURES
Hardened and grounded steel blades, metal housing..

Tech. Code	Blade no.	Thickness mm
D617013	13	0.05 - 0.10 - 0.15 - 0.20 - 0.25 - 0.30 - 0.40 0.50 - 0.60 - 0.70 - 0.80 - 0.90 - 1.00



BRASS SHIM ROLLS MS 63

ITEM: D6210

FEATURES
Plastic housing..



Tech. Code	Thickness mm	Width mm	Length m
D62100,025	0.025	150	2.5
D62100,050	0.050	150	2.5
D62100,075	0.075	150	2.5
D62100,100	0.100	150	2.5
D62100,150	0.150	150	2.5

Tech. Code	Thickness mm	Width mm	Length m
D62100,200	0.200	150	2.5
D62100,250	0.250	150	2.5
D62100,300	0.300	150	2.5
D62100,400	0.400	150	2.5
D62100,500	0.500	150	2.5

STAINLESS STEEL SHIM ROLLS 18CR 9 NI

ITEM: D6215

FEATURES
Plastic housing..



Tech. Code	Thickness mm	Width mm	Length m
D62150,050	0.050	150	2.5
D62150,100	0.100	150	2.5
D62150,150	0.150	150	2.5

Tech. Code	Thickness mm	Width mm	Length m
D62150,200	0.200	150	2.5
D62150,300	0.300	150	2.5

CARBON STEEL TAPES

FASTBAND

ITEM: D6220

FEATURES
Tapes in 1,1274 carbon steel, width 13 mm (* thickness 0,01 and 0,02 mm in stainless steel).
Tape length 5 metres. Plastic housing case..



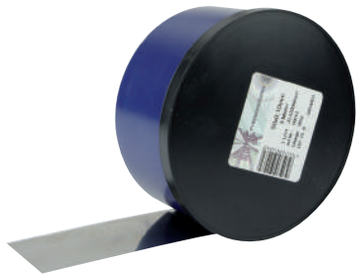
Tech. Code	Thickness mm	Width mm	Length m
D62200,01*	0.01	13	5
D62200,02*	0.02	13	5
D62200,03	0.03	13	5
D62200,04	0.04	13	5
D62200,05	0.05	13	5
D62200,06	0.06	13	5
D62200,07	0.07	13	5
D62200,08	0.08	13	5
D62200,09	0.09	13	5
D62200,10	0.10	13	5
D62200,15	0.15	13	5
D62200,20	0.20	13	5
D62200,25	0.25	13	5
D62200,30	0.30	13	5

Tech. Code	Thickness mm	Width mm	Length m
D62200,35	0.35	13	5
D62200,40	0.40	13	5
D62200,45	0.45	13	5
D62200,50	0.50	13	5
D62200,55	0.55	13	5
D62200,60	0.60	13	5
D62200,65	0.65	13	5
D62200,70	0.70	13	5
D62200,80	0.80	13	5
D62200,85	0.85	13	5
D62200,90	0.90	13	5
D62200,95	0.95	13	5
D62201,00	1.00	13	5

CALIBRATED CARBON STEEL TAPES

ITEM: D6226

FEATURES
Precision carbon steel tape rolls 1,1274 50 mm width and 5 meters length..



Tech. Code	Thickness mm	Width mm	Length m
D62260,03	0.03	50	5
D62260,04	0.04	50	5
D62260,05	0.05	50	5
D62260,06	0.06	50	5
D62260,07	0.07	50	5
D62260,08	0.08	50	5
D62260,09	0.09	50	5
D62260,10	0.10	50	5
D62260,12	0.12	50	5
D62260,15	0.15	50	5
D62260,18	0.18	50	5
D62260,20	0.20	50	5

Tech. Code	Thickness mm	Width mm	Length m
D62260,25	0.25	50	5
D62260,30	0.30	50	5
D62260,35	0.35	50	5
D62260,40	0.40	50	5
D62260,45	0.45	50	5
D62260,50	0.50	50	5
D62260,60	0.60	50	5
D62260,70	0.70	50	5
D62260,80	0.80	50	5
D62260,90	0.90	50	5
D62261,00	1.00	50	5

CALIBRATED STAINLESS STEEL TAPES

ITEM: D6230

FEATURES

Precision stainless steel tape rolls 1,4310 100 mm width and 5 meters length..



Tech. Code	Thickness mm	Width mm	Length m
D62300,01	0.01	100	5
D62300,02	0.02	100	5
D62300,03	0.03	100	5
D62300,04	0.04	100	5
D62300,05	0.05	100	5
D62300,06	0.06	100	5
D62300,07	0.07	100	5
D62300,08	0.08	100	5
D62300,09	0.09	100	5
D62300,10	0.10	100	5
D62300,12	0.12	100	5
D62300,15	0.15	100	5
D62300,20	0.20	100	5
D62300,25	0.25	100	5
D62300,30	0.30	100	5

Tech. Code	Thickness mm	Width mm	Length m
D62300,35	0.35	100	5
D62300,40	0.40	100	5
D62300,45	0.45	100	5
D62300,50	0.50	100	5
D62300,55	0.55	100	5
D62300,60	0.60	100	5
D62300,65	0.65	100	5
D62300,70	0.70	100	5
D62300,75	0.75	100	5
D62300,80	0.80	100	5
D62300,85	0.85	100	5
D62300,90	0.90	100	5
D62300,95	0.95	100	5
D62301,00	1.00	100	5

CALIBRATED CARBON STEEL STRIPS

ITEM: D6236

FEATURES

Precision strips in carbon steel 1.1274 1.2003 in packs of 10 pieces, width 50 mm and length 300 mm..



Tech. Code	Thickness mm	Width mm	Length mm
D62360,03	0.03	50	300
D62360,04	0.04	50	300
D62360,05	0.05	50	300
D62360,06	0.06	50	300
D62360,07	0.07	50	300
D62360,08	0.08	50	300
D62360,09	0.09	50	300
D62360,10	0.10	50	300
D62360,12	0.12	50	300
D62360,15	0.15	50	300
D62360,18	0.18	50	300
D62360,20	0.20	50	300

Tech. Code	Thickness mm	Width mm	Length mm
D62360,25	0.25	50	300
D62360,30	0.30	50	300
D62360,35	0.35	50	300
D62360,40	0.40	50	300
D62360,45	0.45	50	300
D62360,50	0.50	50	300
D62360,60	0.60	50	300
D62360,70	0.70	50	300
D62360,80	0.80	50	300
D62360,90	0.90	50	300
D62361,00	1.00	50	300

CALIBRATED CARBON STEEL STRIPS KIT

ITEM: D6245

FEATURES

Carbon steel precision strips 1.1274 1.2003 in convenient assorted packages..



Tech. Code	Assortment mm	Width mm	Length mm
D6245KIT1	21 pieces from 0,01 to 1,00	25	300
D6245KIT2	25 pieces from 0,01 to 1,00	50	300

Tech. Code	Assortment mm	Width mm	Length mm
D6245KIT3	23 pieces from 0,03 to 1,00	50	300
D6245KIT4	11 pieces from 0,02 to 1,00	50	300

MANUAL STANDS FOR SHORE ANALOG HARDNESS TESTERS

ITEM: D7140

FEATURES

Shore hardness tester stands (analogue) the measuring method is just as important as the instruments used.
This stands series allows to operate in optimal conditions to ensure realistic readings with the max repeatability..



Tech. Code	Dimension mm	For models	kg
D7140A	100 x 212 x 2 x 250	A - C	5

ROCKWELL MANUAL ANALOGUE BENCH HARDNESS TESTER

ITEM: LB060

FEATURES
Hardness tester for measuring hardness on metals on the ROCKWELL scales.
Supporting structure made of cast iron.
Max. test height 170 mm, depth 165 mm.
Hydraulic load application system with weight method, compliant with UNI-DIN-ASTM standards, with loads of kgf 60/100/150 for Rockwell scales A, B and C.
Workpiece support equipped with 1 flat table Ø 150 mm, 1 flat table Ø 55 mm and 1 table with V-prism for measuring cylindrical parts.

FUNCTIONS
- Diamond Cone Penetrator
- Ball indenter Ø 1/16" Rockwell B scale
- Replacement balls
- Specimen HRC 20-30
- Specimen HRC 60-70
- Specimen HRB 20-30
- Positioning plate Ø 60 mm

Supplied with calibration certificate.

Tech. Code	Dimensions mm	kg
D722001	520 x 240 x 700	80



DIGITAL MANUAL ROCKWELL BENCH HARDNESS TESTER

ITEM: LA720

FEATURES
Hardness tester for measuring the hardness of metals on the ROCKWELL scales.
Supporting structure made of cast iron.
Max. test height 170 mm, depth 165 mm.
Hydraulic load application system with weight method, compliant with UNI-DIN-ASTM standards with loads of kgf 60/100/150 for Rockwell scales A, B and C.
Readout on digital display.
Workpiece support equipped with 1 flat table Ø 150 mm, 1 flat table Ø 55 mm and 1 table with V prism for measuring cylindrical parts.

FUNCTIONS
- Diamond Cone Penetrator
- Ball indenter Ø 1/16" Rockwell B scale
- Specimen HRC 20-30
- Specimen HRC 60-70
- Specimen HRB 80-95
- Positioning plate Ø 60 mm
- Positioning plate Ø 150 mm

Supplied with calibration certificate.

Tech. Code	Dimensions mm	kg
D722101	500 x 150 x 700	87



UNIVERSAL BENCH HARDNESS TESTER

ITEM: LB151

FEATURES
Universal benchtop hardness tester with cast iron supporting structure, maximum test height 170 mm, depth 165 mm.
Load application with motorised and timed mechanism.
Loads 60-100-150 kgf for Rockwell A, B and C scales.
Loads of 31.2-62.5-187,5 kgf for Brinell scales.
Loads of 30 and 100 kgf for Vickers scales.
Rockwell scale readout on dial indicator.
Brinell and Vickers scales readout using built-in microscope.
Workpiece support equipped with 1 x Ø 150 mm flat table, 1 x Ø 55 mm flat table and 1 x V-prism table for measuring cylindrical parts.

FUNCTIONS
- Diamond Cone Penetrator for Rockwell scales
- Diamond pyramid indenter for Vickers scales
- Ball indenter Ø 1/16" Rockwell B scale
- Brinell ball indenter Ø 2.5 mm
- Brinell ball indenter Ø 5 mm
- Specimen HRC 20-33
- Specimen HRC 57-70

Supplied with calibration certificate.

Tech. Code	Dimensions mm	kg
D723101	520 x 215 x 700	96



PORTABLE ULTRASONIC HARDNESS TESTER

ITEM: LA756

FEATURES
The portable ultrasonic hardness tester solves the classic problem of portable rebound hardness testers (Leeb) which need components with a mass of at least approx. 5 kg to guarantee reliable hardness measurements.
With this universal instrument you can either use the classic rebound probe or the ultrasonic probe for smaller components or surface hardnesses making it a very versatile instrument.
The scope of delivery includes instrument, rebound probe, ultrasonic probe and hardness specimen.
Up to 100 readings can be stored and 20 materials can be stored to avoid recalibration each time the instrument is used.

Supplied with calibration certificate.

Tech. Code	Hardnesses	Range	Resolution	Dimensions mm	g
D72181	HV - HB - HRC HB - HRB HRA - HSHL HLD - HL	HV: 50-1599 HRC: 20-68 HB: 76-650 HRB: 41-105 HLD: 170-960	HV: ±3% HRC: ±1.5%. HB: ±3%	160 x 80 x 31	500



LEEB PORTABLE REBOUND HARDNESS TESTER

ITEM: LA758

FEATURES
Measuring range: HLD (200-960) / HRC (19.8-68.5) / HRB (13.5-100) / HB (30-651) / HV (80-976) / HS (26.4-99.5) with Type D probe (Standard).
Accuracy ± 6 HLD (HLD=800), repeatability < 6 HLD (HLD=800).
Impact direction 360° manually settable.
Materials: steel, cast iron, stainless steel, aluminium alloys, copper-tin alloys, brass.
Minimum sample weight: 5 Kg.
Display: LED backlit LCD in English.
Memory 100 groups (each group includes 1-7 results and 1 average value), USB communication (Standard) with software included and 2 x 1.5V AA batteries.
Standard GB/T 17394-1998, ASTM A956.
Suitable for large parts and comparative measurements.

Supplied with calibration certificate.

Tech. Code	Hardnesses	Dimensions mm
D7216STR	HLD - HRC - HRB HB - HV - HS	76 x 37 x 153 h

Equipment: D-probe, hardness specimen, USB cable.

Tech. Code	Model
D99051,5V	Battery 1.5V SR44



LEEB COMPACT PORTABLE REBOUND HARDNESS TESTER

ITEM: LA759

FEATURES
Measuring range: HLD (200-960) / HRC (19.8-68.5) / HRB (13.5-100) / HB (30-651) / HV (80-976) / HS (26.4-99.5) with Type D probe (Standard).
Accuracy: ± 6 HLD (HLD=800), repeatability < 6 HLD (HLD=800).
360° impact direction manually settable.
Materials steel, cast iron, stainless steel, aluminium alloys, copper-tin alloys, brass.
Minimum sample weight: 5 kg.
45 mm OLED display with 160 x 128 pixel resolution in English.
Memory: 1000 groups, each group includes 6 results and 1 average value, USB communication, used for charging and data transmission, uses software for transmission, archiving and printing.
Lithium AAA battery, equipped with Auto Power Off system for automatic switch-off after 3 minutes of inactivity.
Standard: GB/T 17394-1998, ASTM A956.
Suitable for large parts and comparative measurements.

Supplied with calibration certificate.

Tech. Code	Dimensions mm
D7217INT	46 x 23 x 150 h

Equipment: D-probe, hardness specimen, USB cable.

Tech. Code	Model
D99251,5V	Ministyl type AAA 1.5V



ULTRASONIC THICKNESS GAUGE

ALPA

NEW

ITEM: LA620

FEATURES

With its design and functionality, it easily and accurately measures the thickness of a wide range of materials (steel, iron, cast iron, plastic, aluminium, etc.).
Thanks to the different measuring modes, it can also measure the thickness of materials through a coating.
High-contrast backlit display.
Selectable resolution: 0.1mm or 0.01mm.
Measuring range: 1-300 mm.
Internal memory for saving measurements.
Standard 5 MHz probe with 10mm contacts diameter.
Auto-off function.



Tech. Code	Range mm	Resolution mm
D9340UTG	1 ÷ 300	0,1 - 0,01

SHORE A/D HARDNESS TESTER

ALPA

ITEM: LB202

FEATURES

Analogue hardness tester for measuring hardness on rubber, plastic, sponges and related materials. This instrument directly measures hardness ShA and ShD.

Supplied with calibration certificate.



Tech. Code	Shore mm	Dimensions	kg	Range mm	Stroke mm
D7110A	A	115 x 60 x 25	0,5	0 ÷ 100	0 - 2,5
D7110D	D	115 x 60 x 25	0,5	0 ÷ 100	0 - 2,5

HARDNESS SHORE TEST BLOCKS

ITEM: D7130

FEATURES

Hardness test plates to be used with Shore A and D Hardness testers in their analogue and digital versions.



Tech. Code	Version	Content set pcs
D7130A	SHORE A	7
D7130D	SHORE D	3

PORTABLE RUGOSIMETER WITH BLUETOOTH

ALPA

ITEM: LA251

FEATURES

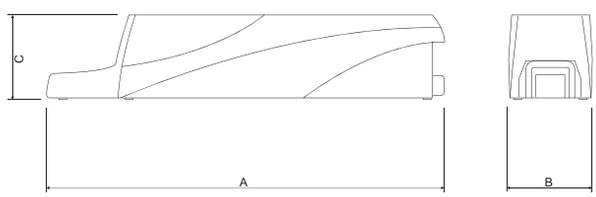
Innovative portable roughness tester with interchangeable touch probe rotatable by 90° ideal for measurements directly in production and in machine tools.
Extremely small dimensions (smallest currently on the market) and fast battery charging via USB cable make this instrument a breakthrough in roughness measuring instrument design.
Data export via cable to Android mobile devices.
Resolution µm 0.001.
Maximum scanning stroke mm 17.5.
Cut-off length mm 0.25 0.8 2.5.

FUNCTIONS

- Bluetooth®

Supplied with calibration certificate.





Tech. Code	A mm	B mm	C mm	g	Bluetooth
D7240LITEBT	160,6	33,6	33,8	200	Si
D7240LITEND	160,6	33,6	33,8	200	NO

PORTABLE RUGOSIMETER WITH GRAPHIC DISPLAY

ALPA

ITEM: LA250

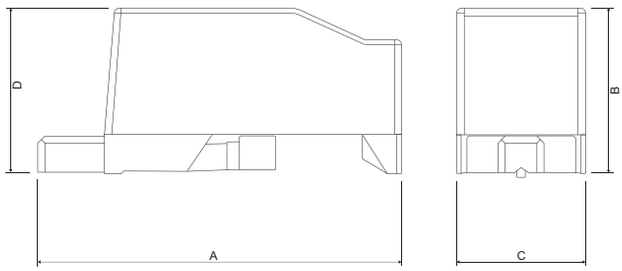
FEATURES

The ALPA FACEtest 25 roughness tester is simple and extremely easy to use.
Ideal for measuring parts even directly on workstations or in production machines.
Thanks to its internal memory, easy handling and integrated battery ALPA FACEtest 25 is suitable for measurements under difficult conditions on large or complex parts.
Allows measurement of 31 parameters with graphical display.
Provides advanced analysis typical of a laboratory instrument.
Immediately displays roughness profile, primary profile and lift profile graphs.
Equipped with 90° rotatable touch probe and 2" TFT graphical display.
Measuring range µm ±300.
Resolution µm 0.001.

Supplied with calibration certificate.

Tech. Code	A mm	B mm	C mm	D mm	Cut-off length mm	g
D7241GRAF	149,5	67,9	53	67,5	0,25 - 0,8 - 2,5	500





SJ-220 ROUGHNESS TESTERS

Mitutoyo

NEW

ITEM: D7238

FEATURES

Portable measuring instrument that allows accurate and easy measurement of surface roughness.
The Surftest SJ-220 offers the following advantages:
Robust yet manageable design.
Skid system allows intuitive and easy menu navigation via touchscreen.
Operates independently of mains power, allowing measurements to be taken on site.
High-resolution 2.8" LCD touchscreen offers excellent readability.
It performs roughness analyses according to various international standards (EN ISO 21920, EN ISO 4287, ISO 13565, ISO 12085, VDA, ASME, JIS).
Several drive units extend the range of applications.
Calculation results, evaluated profiles and curves can be displayed.
Supports 25 languages.
Optional Bluetooth connectivity with PCs and smartphones.
Free downloadable SJ Communication Tool software..

Tech. Code	Detector measurement force M	Angle point stylus	Radius of stylus point µm
D7238220	0,75	60°	2



STANDS FOR ROUGHNESS TESTERS

Mitutoyo

ITEM: SERIE 178

FEATURES

Stand for roughness testers with granite base and column with micrometric positioning..

Tech. Code	Column Ø mm	Column h mm	Granite base mm
D7237STAT	50	506	400 x 250 x 60



STAND FOR RUGOSIMETER

ALPA

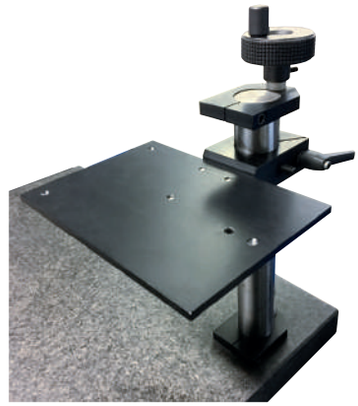
NEW

ITEM: LA256

FEATURES

Stand for rugosimeter with granite base and column with micrometric positioning..

Tech. Code	Column Ø mm	Column h mm	Granite base mm
D7244STAT	40	300	600 x 400 x 40



HIGH-PERFORMANCE RUGOSIMETER

ALPA

ITEM: LA255

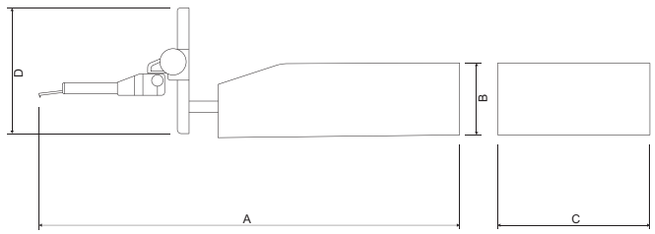
FEATURES

The FACEtest 80 roughness tester, thanks to its compactness and simplicity of use, allows the measurement of even the most complex surfaces in an easy and intuitive way, with the potential of a laboratory instrument.
Maximum scanning travel 50 mm.
Laboratory translator with micrometric friction feed for roughness and profile measurements.
With free diamond enables roughness measurements on curved parts such as spheres and radiused parts I The colour touchscreen display, combined with the minimal and intuitive icon-based interface allows the operator to quickly set measurement parameters, precisely position the part and perform the analysis.
Results and graphs are ready to be printed out immediately thanks to the integrated thermal printer.
Graphs and parameters are interactive to allow the operator to quickly and easily customise the presentation of results.
The new lightweight and compact TL90 shifter features a micrometric slide for easy and precise part positioning.
Touch probes are free diamond with magnetic engagement.
FACEtest 80 is suitable for production or metrology room environments.

Supplied with calibration certificate.

Tech. Code	A mm	B mm	C mm	D mm	kg
D724302	490	50	70	140	3,10





BLUETOOTH® PORTABLE RUGOPROBE

ALPA

ITEM: LA253

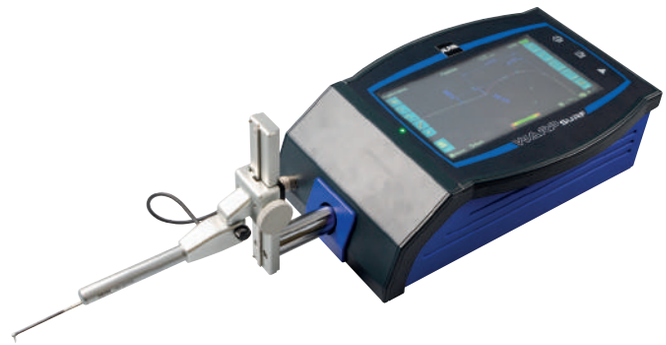
FEATURES

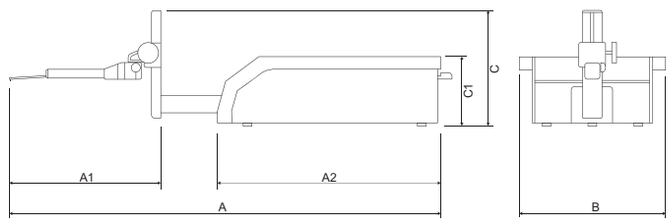
This new Roughness and profilometer revolutionises roughness and profile measurement and thanks to its compact size and easy handling can be used in a wide variety of measuring conditions.
Interchangeable magnetic-mounted touch probes for fast switching between modes.
Features a large 7" tochscreen display with 16 million colours and thanks to the 81 measurable roughness parameters meets the current main international standards.
Integrated software for profile analysis.
Wide measuring range in roughness and profilometry.
Automatic storage of the last 6 measurements.
Manual storage of up to 1000 profilometry measurements and 4000 roughness measurements (graphs + parameters).
Configurable report export directly from the instrument via USB stick.
Measuring range µm ±2500.
Resolution µm 0.0001.
Cut-off length 0.08 / 0.25 / 0.8 / 2.5 / 8.
Number of cut-offs selectable from 1 to 20 (for 8mm cut-off 1 to 6).
Maximum scanning range 60.

Supplied with calibration certificate.

Tech. Code	A mm	A1 mm	A2 mm	B mm	C mm	C1 mm	kg
D7246RP	520,2	182,4	272,5	176	141,7	86,2	3,65

Tech. Code	A mm	A1 mm
D7246KITP	3 mm profile kit (calibration sample)	-





ROUGHNESS SAMPLE SETS (FOR VISUAL COMPARISON ONLY)

ITEM: LA265

FEATURES
This set consists of 30 samples of metal surfaces produced by 6 different machining methods widely used in industry.
The label shows the Ra values of each sample according to both the metric and imperial system.
(Label for Rz available on request).
Nominal values of samples Ra µm 0.05 0.1 0.2 for lapping and boring Ra µm 0.4 0.8 1.6 for grinding Ra µm 0.4 0.8 1.6 3.2 6.3 12.5 for horizontal and vertical milling, turning.

Tech. Code	Description
D724530	Set of No. 30 sample plates



MAGNIFYING GLASSES

ITEM: D7266

FEATURES
Ergonomic rubber grip, wire table stand.

Tech. Code	Magnification	Dimension mm
D72668550	2x - 6x - 10x	85 x 50



MAGNIFYING GLASSES

ITEM: D7262

FEATURES
Acrylic plastic lenses.

Tech. Code	Magnification	Dimension mm
D726250	3x - 6x	50
D726275	2,5x - 5x	75



MAGNIFYING GLASSES

ITEM: D7269

FEATURES
Plastic magnifiers.

Tech. Code	Magnification	Ø lens mm	External dimension mm
D726925	10x	25	Ø 50 x 45



STANDING MAGNIFIERS 10X

ITEM: D7270

FEATURES
A high-magnification capacity coupled with a large viewing area, shock-proof cylindrical plastic body, transparent base.

Tech. Code	Magnifications	Visual field mm	Ø lens mm
D7270302510X	10x	30	25



ADJUSTABLE FOCUS MAGNIFYING GLASSES

ITEM: D7271

FEATURES
Achromatic lens system, scale measuring reticle in mm, shock-proof plastic body, focus adjustment function, transparent, removable reticle holder base.
* Additional reticles for different scale measurements can be supplied.

Tech. Code	Magnifications	Visual field mm	Ø lens mm
D7271282010X	10x	28	46



MAGNIFYING GLASSES

ITEM: D7272

FEATURES
Plastic magnifying glasses..

Tech. Code	Magnification	Ø lens mm
D727230	5x - 10x - 15x	30



LED MAGNIFIERS

ITEM: D7273

FEATURES
With LED-light and glass lens batteries included (2 x LR14).

Tech. Code	Magnification	Ø lens mm	Total length mm
D727350	3,5x	50	195
D727390	2,5x	90	230



LIGHT MAGNIFIERS 10X

ITEM: D7275

FEATURES
A model that combines the excellent power of magnification and the field of view with the possibility to illuminate when the point to be examined is needed,
body in shock-proof plastic body, transparent base. Power supply 2 C-type 1.5 V batteries (not included).

Tech. Code	Magnifications	Visual field mm	Ø lens mm
D7275302510X	10x	30	25



PEN MICROSCOPES

ITEM: D7278

FEATURES
A limited dimension, practical microscope, also supplied complete with measuring reticles.

Tech. Code	Magnification
D727825X	25x



SCALE MAGNIFIER KIT 10X

ITEM: D7277

FEATURES
Achromatic lens system, shock-proof plastic body, focus adjustment function, transparent, removable reticle holder base.

Tech. Code	Magnifications	Visual field mm	Ø lens mm
D7277262010X	10x	26	20




Radius, lengths and holes reticle


Thicknesses reticle


holes and polar grid


Lengths mm/in


Metric pitch

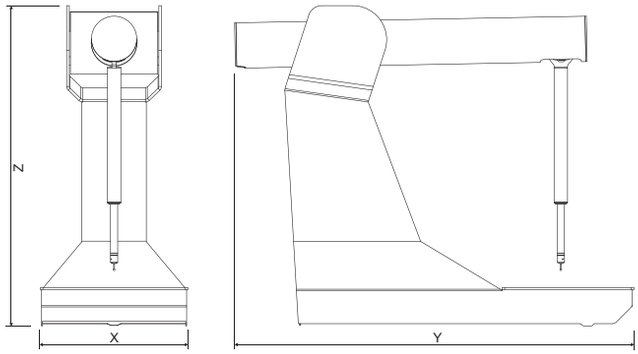
MANUAL SHOP-FLOOR MEASURING MACHINE

ITEM: LA145

Fulcrum is a manual CMM that uses 3 rotary axes to optimise inspection time and improve the production process without having to wait for feedback from final quality control, thus avoiding production bottlenecks.
The software has been made even simpler, while retaining the full functionality of traditional CMMs.
After manual inspection of the part in point-to-point or continuous scanning mode, features are immediately recognised by automatically displaying the measured dimensions.
The intuitive software, ease of use and innovative design allow even less experienced operators to quickly check the parts to be measured.



FEATURES
Accuracy µm (5.0 + L/1000).
Line resolution µrad 1.15.
Operating temperature °C 5 45.
Optimum temperature °C 18 22.
Compressed air No.
Manual movement.



Tech. Code	Dimensions X - Y - Z mm	Axis travel X - Y - Z mm	Accuracy µm	Encoder resolution µm	Operating temperature °C	Reference temperature °C	Compressed air
D7705280	335 x 830 x 725	280 x 280 x 150	5.0	0,04	5 - 45	18 - 22	No

The machine must not be subjected to abrupt changes in temperature and a maximum variation of 1°/hour.

3D MEASURING ARM

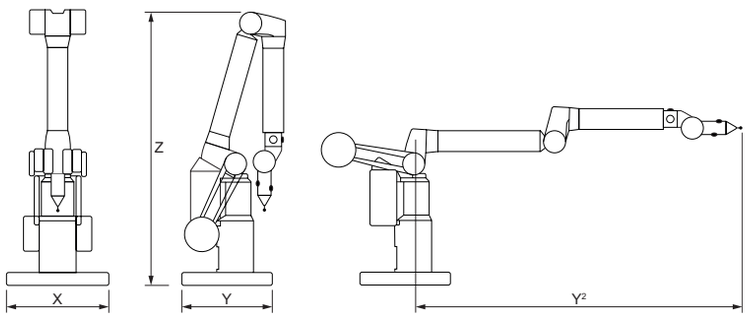
ITEM: LA144

NEW

Innovative compact 6-axis measuring arm for extremely simple and precise 3D measurement.
The A3 series is the most precise measuring arm range on the market.
Its special feature is its small size, which allows it to be carried and used virtually anywhere.
The arm in 6-axis configuration is available with a measuring range of 1.3m and 1,8m.
Carbon fibre tubes and an aluminium mounting base give the A3 arm an extremely stable and lightweight construction.
Its external counterweight provides excellent ergonomics and manoeuvrability.
A3 measuring arms can be connected to any type of measurement software, for most shop floor applications we offer Aberlink 3D software.



FEATURES
Volumetric accuracy µm (5 + L/50) (4 + L/40).
Operating temperature °C 5 ÷ 40.
Protection class IP54.



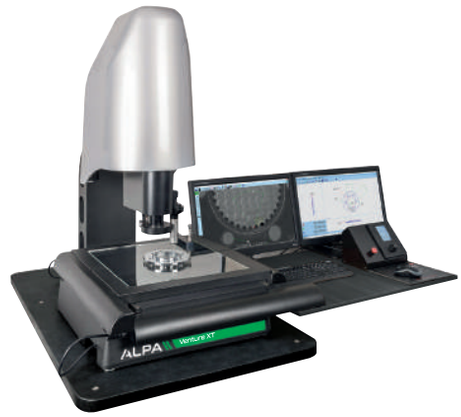
Tech. Code	Dimensions X - Y - Y² - Z mm	Measuring range mm	Accuracy µm	Operating temperature °C
D77111300	239 x 214 x 650 x 639	1300	(5 + L/50) µm (5 + L/40) µm	5 - 40
D77111800	239 x 214 x 900 x 760	1800	(5 + L/50) µm (5 + L/40) µm	5 - 40

AUTOMATIC 3D OPTICAL MACHINE

ALPA

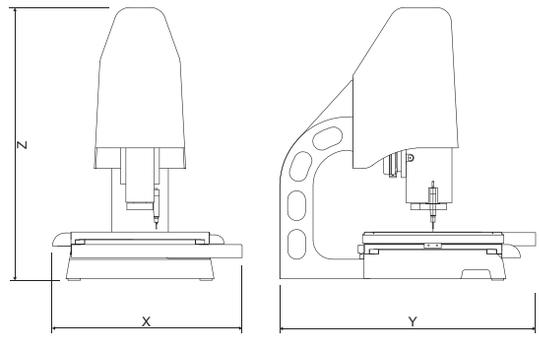
ITEM: LA110

Optical and tactile 3D measuring machine (optional) with motorised movement.
Enables fully automated inspection processes managed by the innovative Fusion software.
Highest quality microzoom.
The innovative Fusion software measures geometric shapes, lines, arcs and points quickly and easily All inspections are recorded and automatically replicated with the same parameters set on the first part. The advanced error mapping system uses a special calibration grid as a reference, allowing measurements with maximum accuracy.
Results can be displayed and printed in both graphical and tabular versions.
They can also be exported in Excel, DXF and PDF formats.
The software can perform SPC (Statistical Process Control) analyses and calculate CP and CPK values.
The integrated LED lights diascopic, episcopic and epicoaxial, are fully programmable.



FEATURES
Accuracy µm (2 + L/100).
Row Resolution µm 0.5.
Zoom Lenses 6:51 in 6 steps (from 35x to 200x optical).
FOV (Field od View) mm 2 to 10.
Camera Pixel 2048 x 1590, Colour USB2 with 8 x 9 chip & dynamic latch.
Optimal Temperature °C 16 26.
Operating Temperature °C 540.
Glass Tabletop.
Max. Load kg 25.
Moving Speed mm/sec 200.
Acceleration mm/sec² 150.
Brushless Motors and Cross Roller Bearing Guides.

Supplied with calibration certificate.



Tech. Code	Dimensions X - Y - Z mm	Measuring range mm
D7720250	590 x 680 x 820	250 x 110 x 150
D7720300XT	638 x 860 x 920	300 x 300 x 200

*** Max. permissible error MPEE , subject to optimum temperature between 18°C and 22°C and Δ <1°C/h or <2°C/24h**

SILICONE RESIN CASE

PLASTIFORM

ITEM: LA027

FEATURES
This resin creates an extremely precise replica (+/-1µm) of internal or difficult-to-access parts, allowing them to be measured with optical or contact systems.
Non-destructive process, no need to section parts.
Also suitable for very large parts that are difficult to handle.
Also useful for measuring roughness with P80Ra resin and the surface structure of materials with F30Visual.
Dimensional stability.
Maximum profile hold.
Micron accuracy.
Form memory.
No residue on parts.
Low environmental impact.



Tech. Code	Description
D77951ML040	Standard
D77951ML050	Complete

VISORS

Vision ENGINEERING

ITEM: ERGO

FEATURES
Mantis Ergo is a stereo microscope without eyepieces, with dynamic 3D optics and the possibility of using long working distance (SLWD) objectives, which guarantees high quality images.
Supplied with Verso articulated arm.

3-position lens turret
3X, 4X, 6X, 8X and 10X quick-change lenses (not included)
Dynamic 3D illumination and white/UV illumination option.



Tech. Code	Magnification
D7860ERGOV	3x - 15x

Tech. Code	Magnification
D786103X	3x
D786104X	4x
D786106X	6x
D786108X	8x
D786110X	10x

OPTICAL MEASURING SYSTEM

ITEM: SWIFT PRO CAM

FEATURES

The simplest and most intuitive measuring two-axis system. The most cost-effective alternative to the simplest and most intuitive measuring two-axis system. The most cost-effective alternative to a standard optical profile projector, an outstanding quality price ratio

Measuring range 200 x 100 mm
Transmitted and reflected source of light
Image display on 22" touch-screen
Windows 10 operating system computer

Two-axis measuring, Measures exporting in standard format and Excel, photo included

System installation and assembly
Basic knowledge training for the software and system operators provided.



Tech. Code	Description	Magnifications
D7905K2S11	SWIFT PRO CAM Machine	20x

VERTICAL PROFILE PROJECTOR

ITEM: LA050

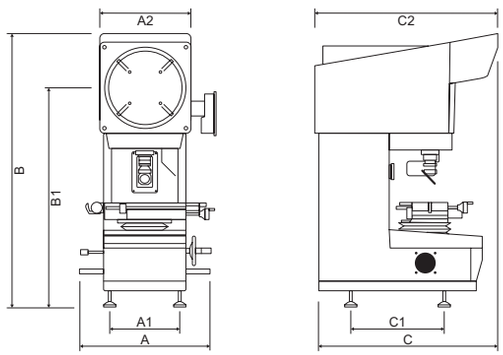
The Alpa Profil V300 vertical profile projector is a precise, versatile and easy-to-use tool. It is equipped with a release mechanism for quick handling, a 3-axis viewer (X, Y, angles) and a geometric processor capable of calculating radii, diameters, angles and centre distances. The images are clear and well defined, allowing accurate measurements even on complex parts.
It is a profile projector that combines good build quality, ease of use and versatility. It is equipped with a finely sandblasted screen that guarantees a sharp, well-contrasted image. It also features a cross-hair reticle, graph stops, diascopic and episcopic illumination..

FEATURES

Measuring range mm 150 x 50.
Working plane mm 340 x 152.
Screen mm 196 x 96.
Straightened image, inverted.
Manual shift.
Halogen lamp illumination.
Magnification error max. 3.0+L/50.
Accuracy µm 0.5.

Supplied with calibration certificate.





Tech. Code	A mm	A1 mm	A2 mm	B mm	B1 mm	C mm	C1 mm	C2 mm	kg
D7952300	550	296	383	1150	924,4	686	390	768	130

Excluding lens

HORIZONTAL PROFILE PROJECTOR

ITEM: LA076

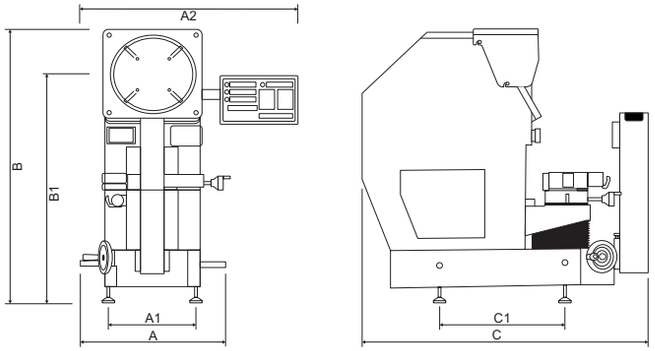
NEW

The 300 mm digital horizontal measuring projector is a precise, excellent and effective measuring instrument that integrates optics, mechanics and electricity. It is widely used in the mechanical, electronic and light industry sectors as well as in laboratories, metrology rooms and workshops, research institutes, inspection and measurement departments, etc. This instrument can adequately inspect various types of surfaces and profiles of complicated parts such as jigs, cams, threads and gears, including machine tool cutters and their components..



FEATURES
Measuring range mm 200 x 100.
Working plane mm 400 x 150.
Rotating screen Ø mm 312.
Inverted image.
Table rotation ±15°.
Line resolution 0.5 µm.
Halogen lighting 24V 150W.
Accuracy (3.5 +L/50) µm.

Supplied with calibration certificate.



Tech. Code	A mm	A1 mm	B mm	B1 mm	A2 mm	C mm	C1 mm	kg
D7953HP	572	345	1026	867	831	1074	469,5	160

HORIZONTAL PROFILE PROJECTOR

ALPA

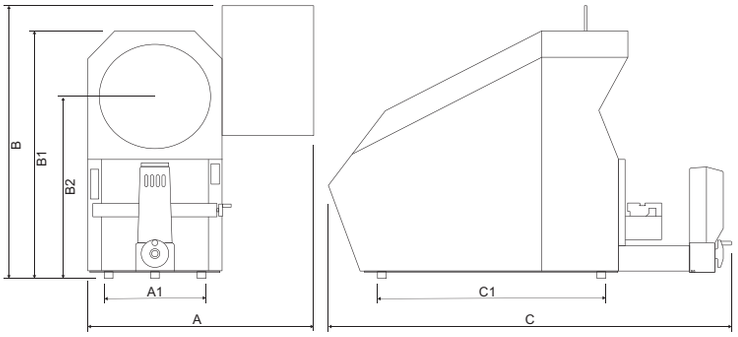
ITEM: LA020

The horizontal profile projector is ideal for inspecting small and medium-sized turned workpieces of cylindrical or other shapes such as screws, small parts, etc.. It can be attached to the work surface using accessories. The robust design makes it suitable for both the workshop and the metrology room. Halogen diascopic and expiscopic lighting with fibre optics..



FEATURES
Measuring range mm 175 x 100.
Working plane mm 325 x 100.
Revolving screen mm 340.
Reverse and inverted image.
Maximum load kg 10.
Manual, micrometric and rapid X-axis movement.
Line resolution mm 0.0005.
Illumination tungsten halogen lamps 12V 100W.
Max. profile magnification error 0.05%, surface 0.1%.
Beam adjustment ± 7°.
Accuracy µm (3 + L/80).

Supplied with calibration certificate.



Tech. Code	A mm	A1 mm	B mm	B1 mm	B2 mm	C mm	C1 mm	kg
D7954FT2E	760	305	770	741	545	1253	682	60

Excluding lens

DIGITAL HANGING SCALES

KERN

ITEM: HDB

FEATURES

Stainless steel hook, LCD display with 12 mm digit height, HOLD key to freeze the weight display for 5 seconds, automatic switch-off without load change after 5 minutes. Power supply: two AAA 1.5V ministyl batteries (included).



Tech. Code	Max capacity kg	Division g
D85105K5	5	5
D851010K10	10	10

Tech. Code	Model
D99251,5V	Ministyl type AAA 1.5V

ITEM: CH

FEATURES

Stainless steel hook, LCD display with 11mm high digits, 100 cm-retractable measuring tape, HOLD mode multi-function button freezing load value for 5 seconds until any key is pressed; automatic shutdown if no load change occurs within 3 minutes (this function can be disabled). Power supply: transistor-type 9V battery (included).



Tech. Code	Max capacity kg	Division g
D852015K20	15	20

Tech. Code	Model
D99159V	Battery 9V Transistor

ITEM: HCN

FEATURES

Practical digital crane scale, ideal for quick checkweighing at incoming and outgoing goods.
Possibility of displaying the peak load.
Stainless steel housing, IP65 dust and splash protection.
Convenient second display on the back of the scale.
Supplied with 2 1.5 V AA batteries, autonomy up to 200 h.



Tech. Code	Max. capacity kg	Division g
D8525050K100	100	200
D8525100K200	50	100

Tech. Code	Model
D99301,5V	AA 1.5V

MECHANICAL DYNAMOMETER

ALPA

ITEM: LB300

FEATURES

Analogue mechanical tension and compression load gauges, suitable for checking springs, levers, elastic belts, buttons, switches, etc..
Two measuring systems: with automatic locking at maximum load, or with continuous free reading.
Double reading scale: N and kgf.
Supplied in a case complete with 1 tensile coupling, 4 compression adapters and 1 extension piece.



Tech. Code	Capacity N	Resolution N
D8550DINAN20N	20	0,1
D8550DINAN50N	50	0,2
D8550DINAN100N	100	0,5
D8550DINAN200N	200	1
D8550DINAN500N	500	2

PRECISION DIGITAL SCALES

KERN

ITEM: EMB

FEATURES

Teaching balance with good performance, large LCD display with 15 mm digit height, ON-TARE key for switching on and resetting the display when the balance is loaded (e.g. to eliminate tare), automatic switch-off without load change after approx. three minutes can be deactivated. Power supply: two AA 1.5V batteries (included), 230 V power supply (optional).



Tech. Code	Max capacity g	Division g	Plate Ø
D86205000,1	500	0.1	150
D86202201	2200	1.0	150

Tech. Code	Model
D99301,5V	AA 1.5V

LABORATORY SCALES

KERN

ITEM: PCD

FEATURES

Precision laboratory scale with separate platform.
PRE-TARE function for manual advance deduction of a known container weight, useful for filling checks. Programmable measuring unit (e.g. direct display in filament length g/m, paper weight or grammage g/m² etc.).
Adjustable level and feet for exact levelling of the scale; for highest precision weighing results.
Wind cage as standard. Hard protective cover included in delivery.
Power supply: 230V/50Hz current.



Tech. Code	Max capacity g	Resolution step g	Plate Ø mm
D8625250	250	0,001	105

ITEM: 440

FEATURES

Suitable for industrial and laboratory purposes, stainless steel weighing platform, large backlit LCD display, featuring 15mm high digits; automatic shutdown if no load change occurs within 3 minutes (this function can be disabled). Power supply: 230V/50 Hz (also powered by 9V batteries, not included).



Tech. Code	Max capacity g	Division g	Plate mm
D86302000	2000	0.1	130 x 130
D86306000	6000	1.0	150 x 170

DIGITAL COUNTING SCALES

KERN

ITEM: CXB

FEATURES

Basic model for professional use, with EC type approval (M) counting resolution of 30,000 points. Certificated by OPTIONAL.

Accurate counting guaranteed by the automatic reference optimization for an improved average value of the single piece weighing; known reference weight and amount of required pieces are configurable from keyboard.
Programmable quantities and weights, fill-to-target acoustic signal upon reaching required value. Sum-by-lot and sum-by-weight totalization function.
Power supply with internal battery, approx 60 hour useful working duration, standard; charging time of approx 8h, charge condition indicator on display. Backlighting turns off after 5 seconds for increased energy saving.
The outer structure is ribbed with grooves for an effective water removal, provided with packing rings on upper inlet holes. PRE-TARE function for manual subtraction of a known container weight.



Tech. Code	Max capacity kg	Division (d) g	Repeatability g	Min piece weight g/piece
D8655K3G02	3	0.2	0.2	1
D8655K6G05	6	0.5	0.5	2
D8655K15G1	15	1	1	5
D8655K30G2	30	2	2	10

PLATFORM SCALE

KERN

ITEM: EOB

FEATURES

Classic model between balances for parcels and for veterinary use. Stainless steel weighing plate with painted steel structure. 4-key command. Wall bracket, standard, for mounting the indicator device. Weighing surface (WxD): 305 x 315 mm.
Net weight approx.: 3.8 Kg

Functions:
ON/OFF: switching on and off
HOLD: allows the calulation of a stable average weight value in case of movement
UNIT: unit measurement switching
TARE: tare reset.



Tech. Code	Max capacity kg	Resolution step g	Reproducibility g	Linearity g
D8660035K10	35	10	10	±10
D8660060K20	60	20	20	±40
D8660150K50	150	50	50	±50

DIGITAL COUNTING SCALES

ITEM: CCS

FEATURES

Professional counting scale, which can also be used individually, thanks to its connection to a weighing bridge meets the most stringent demands on accuracy.
Three displays for weight display, reference weight and total weight.
Automatic reference optimisation makes the average value of the unit weight more accurate.
Stainless steel weighing flat, painted steel substructure.



Tech. Code	Max cap. KFP kg	Max cap. CFS kg	Division (d) g	Min pcs weight g/piece
D8650K30G10	30	6	0.1	1
D8650K60G20	60	3	0.01	0.5
D8650K150G50	150	6	0.1	1
D8650K300G100	300	3	0.01	0.5

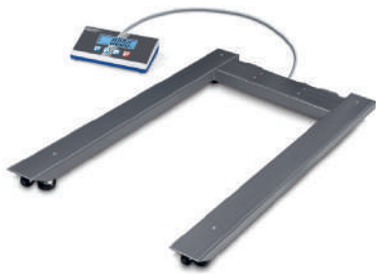
SCALES FOR PALLETS

ITEM: UIB

FEATURES

Pallet scale in powder coated steel, 4 aluminum load cells coated with silicone, IP67 protection. It can be easily transported thanks to the presence of wheels and handles. Rigid protection cover included. Weighing surface (LxP): 1195 X 840 mm.

Large LCD display, digit height 25 mm
Indicator device size: W x D x H 260 x 115 x 70 mm
Indicator cable length 5m
Tamb: 10/+40
Possible battery operation, 4x1.5 V AA (on request).



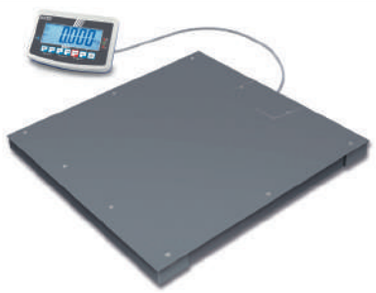
Tech. Code	Max. capacity kg	Resolution step kg	Net weight approx. kg
D86800600	600	0,2	55
D86801500	1500	0,5	55
D86803000	3000	1	55

FLOOR SCALES

ITEM: BFB

FEATURES

Ideal for crates, boxes and small pallets, painted anti-slip knurled steel weighing surface with adjustable levelling feet, large backlit LCD display with 52 mm digit height, freely positionable display unit with approx. 5 m cable complete with wall bracket, automatic switch-off without load change after three minutes can be deactivated, division g 500.
Power supply: current 230V/50 Hz.



Tech. Code	Description	Max capacity kg	Dimension mm
D86901500	Platform	1500	1000 x 1000 x 85
D8690AR	Ramp up	-	1000 x 760 x 85
D8690AS	Stand	-	750 h

INFRARED PYROMETER

ITEM: D9790

FEATURES

Infrared pyrometer for remote temperature detection on small surfaces.
4-point laser and 50:1 optics for precise measurements even at long distances.
It is also possible to use a type K probe thanks to the connecto
tioned on the handle.
Included:
Test protocol
3 AA batteries.



Tech. Code	Range	Measurement range	Accuracy
D97901	-50° + 800°C	50:1	±(0,5 °C + 0,5 % del v.m.)

Tech. Code	Model
D99301,5V	AA 1.5V

INFRARED THERMOMETER

ITEM: 2267-40

FEATURES
Infrared thermometer used for non-contact temperature measurement.
Sturdy and easy to use, with 10:1 optical resolution.



Tech. Code	Range	Measurement report
D98001	-30° + 400°C	10:1

Tech. Code	Model
D99159V	Battery 9V Transistor

DIFFERENTIAL THERMOMETER

ITEM: 922

FEATURES
Two-channel rapid temperature measurement instrument with differential temperature calculation system.
Free downloadable Testo Smart app for instrument fleet management directly from smartphones.



Tech. Code	Measuring range	Resolution	Precision
D98051	-50°C +1000°C	1 °C (Remaining range) 0.1 °C (-50 to +499.9 °C)	±(0,5 °C + 0,3 % del v.m.)

Tech. Code	Model
D99301,5V	AA 1.5V

THERMOMETERS BY PROBE

ITEM: D7651

FEATURES
One channel instrument for rapid temperature detection, provides continuous display of min/max values, acoustic alarm indicates when the threshold values are exceeded, HOLD button to lock the instantaneous measurement on the display. Large backlit LCD display.
Testo Smart App can be downloaded for free for managing the fleet of instruments directly from your smartphone.
Provided with:
Carrying case
1 type K probe
Test protocol
3 AA batteries.



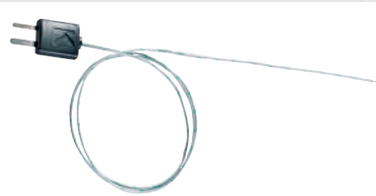
Tech. Code	Temperature range °C	Resolution °C	Readout accuracy °C
D76511	-50 +1000	1 °C (Remaining range) 0.1 °C (-50 to +499.9 °C)	±(0,5 °C + 0,3 % del v.m.)

Tech. Code	Model
D99301,5V	AA 1.5V

PROBE THERMOMETERS - REPLACEMENT PROBE

ITEM: D9652

FEATURES
Flexible thermocouples compatible with all type K thermometers.



Tech. Code	Temperature range °C	Precision class	Probe tube length mm
D96520800	-50 ~ +400	2	800
D96521500	-50 ~ +400	2	1500

ITEM: 0602 - 1993

FEATURES
Watertight probe with enlarged measuring tip suitable for flat surfaces.



Tech. Code	Temperature range °C	Accuracy class
D76521	-60 ~ +400	2

PROBE THERMOMETERS - REPLACEMENT PROBE

ITEM: 0602 - 0393



FEATURES
Spring loaded thermocouple rapid probe suited to provide positive contact also with irregular surfaces.

Tech. Code	Temperature range °C	Accuracy class
D76541	-60 ~ +300	2

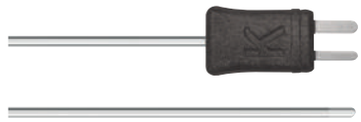
ITEM: 0602 - 1293



FEATURES
Watertight immersion/penetration probe suitable for semi-solid materials.
Ideal in the plastics industry.

Tech. Code	Temperature range °C	Accuracy class
D76561	-60 ~ +400	2

ITEM: D9654



FEATURES
Probes watertight Immersion.

Tech. Code	Temperature range °C	Precision class
D96541000	-40 ~ +1000	1

ITEM: D9656



FEATURES
Probes watertight Immersion.

Tech. Code	Temperature range °C	Precision class
D9656300	-60 ~ +1000	1

DIGITAL THERMOHYGROMETER

ITEM: D9815



FEATURES
Compact and simple to use thermohygrometer.
Ideal for measuring temperature and relative humidity.
Testo Smart App can be downloaded for free for managing your toolkit directly from your smartphone.
Supplied with:
Carrying case
Test protocol
3 AA batteries.

Tech. Code	Measuring range Humidity	Measuring range Temperature	Precision Humidity	Precision Temperature
D98151	0 ~ 100 %UR	-20 ~ +60°C	2,5 %UR (5 ~ 95 %UR)	±0,5 °C

Tech. Code	Model
D99301,5V	AA 1.5V

DIGITAL MULTIMETERS

ITEM: D9111



Professional all-purpose multimeter able to perform many measurements that are not possible with traditional instruments. CE marked, compliant with standards IEC EN 61010-1 CAT. III 1000V - CAT. IV 600V. Backlit LCD display, light shows which connections to use.
Auto power off after 15 min.
Power supply: 1 x 9V battery (not included).

Tech. Code		D91111
Tension (AC/DC)	V	600
Current (AC/DC)	A	10
Frequency	Hz	500
Continuity	Ω	<50
Resistance	Ω	400
Brightness	Lux	4000 - 40000
Capacity	F	50n, 500n, 5µ, 50µ, 100µ
Noise level	dB	35 - 100
RH Humidity		33 - 99
Temperature	°C	-20 +1300 (Thermocouple)
Temperature	°C	-20 +40 (Internal sensor)

Tech. Code	D99159V
Model	Battery 9V Transistor

DIGITAL AMPEROMETRIC PLIERS

ITEM: D9216



Amperometric pliers/Multimeter, allow to perform current measuremnts (up to 1000A) without disconnecting the user.
CE, CAT. III 600V. 16 mm LCD display with back-lightening illuminated pliers. Supplied with custody case.
Auto-off function after 30 min.
Power supply 3 batteries x 1,5V AAA (not Included).

Tech. Code		D921601
Tension (DC)	V	4V - 40V - 400V - 600V - 1000V
Tension (AC)	V	4V - 40V - 400V - 600V - 700V
Current (ac/dc)	Ah	400A - 600A - 1000A
Duty cycle		0,1 - 99,9%
Resistance	Ω	400 - 4K - 40K - 400K - 4M - 40M

Tech. Code	D99251,5V
Model	Ministyl type AAA 1.5V

ITEM: D9217



Amperometric pliers specific for precise measurements at low current values. Ideal for measuring leakage current or absorptions on cars without having to disconnect the load. CE marked, CAT. III 600V, CAT. III 300V. It is equipped with a useful forch function for working in dark areas.The large LCD display with LED eases reading. Supplied with custody case.
Auto-off function after 7 min.
Power supply: 2 x 1,5V AAA (not included).

Tech. Code		D921701
Current (dc)	Ah	1mA - 80 A
Current (ac)	Ah	1mA - 80 A

Tech. Code	D99251,5V
Model	Ministyl type AAA 1.5V

THICKNESS GAUGES WITH EXTERNAL PROBE

elcometer

ITEM: LA525



FEATURES
Portable guages with high-contrast colour auto-rotating display and external probe.
Accuracy starting from +/-1%, measuring range 0-1500 µm, high degree of protection against dust and liquids and USB data output.
It allows you to measure the thickness of coatings on ferrous metals (F version) or on non-ferrous metals (NF version) and to keep the last 5 measurements in memory.Basic statistical functions, calibration films, probe and certificate of conformity are standard.

Tech. Code	Base
D9305FEES	Digital coating thickness gauges with external probe
D9305FENFES	Separate probe ferrous/non ferrous coating thickness gauge
D9305NFES	on-ferrous based coating thickness meter with external probe

COAT THICKNESS GAUGE WITH BUILT-IN PROBE - SCALE 1

elcometer

ITEM: LA510



FEATURES
Measuring range 0 to 1500 µm.
Accuracy ±3% or +2.5 µm.
Readout 0.1 µm: 0 to 100 µm; 1 µm: 100 to 1500 µm.
Portable coating thickness gauge with large, high-contrast, self-rotating colour display for easy reading in all conditions.
IP64 protection.
Data output via USB or Bluetooth® (S and T models).
This gauge can measure coatings (chrome, paint, zinc, etc.) on magnetic iron metals (magnetic induction F version) or non-magnetic metals (eddy current N version).) on magnetic iron metals (magnetic induction F version) or non-magnetic metals (eddy current N version).

Tech. Code	Base	Model
D9307NFIN	Non-ferrous	B
D9307FENFIN	Ferrous / Non-ferrous	B
D9307FEIN	Ferrous	B

CALIBRATION SHIM SETS

ITEM: LA563

FEATURES
Set of thickness gauges for calibrating feeler gauges with internal or external probe.



Tech. Code	Number of thicknesses	Range µm
D93150060	6	25 ÷ 1000

GLOSSMETER

ITEM: D9450

FEATURES
Instrument used for non-destructive control. Used to measure gloss of materials such as painted and /or polished surfaces Depending on detection system, measures will be optimal for several degrees of gloss intensity. In order to further enhance their versatility some instruments also feature multiple detection methods. Gloss meters can suit several tasks: furniture manufacturers, automotive and all those industry sectors where surface gloss intensity is essential. Compliant to standards: ISO2813, ASTMD523, DIN-67530, ISO7668, GB9754.



Features:
Automatic calibration
Type A light
20°, 60°, 85° angles
10mm high LCD display
Silicon photodiode sensor
Measurement surface 11 x 54 mm
Measured area 20°=10x10mm 65°=10x20mm 80°=7x24
Power supply: 1 AA type battery

Equipment:
Hard casing Calibration plate
Optional accessories: Calibration ratio

Dimensions: 142 x 32 x 64 mm weight 320 g.

Tech. Code	Repeatability Gloss points	Measuring range Gloss units	Resolution Gloss units	Accuracy Gloss points
D9450GLOSSMT	± 0.4	0 ÷ 199.9	0.1	± 1.5

Tech. Code	Model
D99301,5V	AA 1.5V

CONTACT DIGITAL TACHOMETERS

ITEM: D7325

FEATURES
To measure either rotational or traveling speed. Operating by means of contact sensors. Extremely useful in workshop environments and in the manufacturing industry. Extremely sturdy, energy efficient instrument, ideal for in-field measuring.



Dimensions: 205 x 72 x 36mm Weight 158g.

Tech. Code	Resolution	Speed Rot. Contact
D7325TACHIM03	0.01/0.1/1	0.5 ÷ 19.999

Tech. Code	Model
D99301,5V	AA 1.5V

ROTATIONAL SPEED METERS

ITEM: D9605

FEATURES
Instrument used to measure rotation and/or sliding speed with optical and contact detection, with the possibility of measuring lengths.
Supplied with:
Carrying case
Self-adhesive reflectors for optical detection
Adapter, tip and wheel for mechanical detection
Batteries
Test protocol.



Tech. Code	Measuring range Optical	Measuring range Mechanical	Precision Optical	Precision Mechanical
D96051	1 ~ 99999 U/min	0,1 ~ 19999 U/min	±0,02 % del v.m.	±0,2 % del v.m.

Tech. Code	Model
D99301,5V	AA 1.5V

BATTERIES

ITEM: D9905

- D357/303 SR44 1,5V button cell battery

Tech. Code
D99051,5V



ITEM: D9911

- DL2032 - CR2032 3V button cell battery

Tech. Code
D99113V



ITEM: D9936

- DL1632 - CR1632 3V button cell battery

Tech. Code
D99360,3V



ITEM: D9913

- DL2025 - CR2025 3V button cell battery

Tech. Code
D99133V



ITEM: D9915

- MN1604 Transistor-type 9V battery

Tech. Code
D99159V



BATTERIES

ITEM: D9920

- C-type 1,5V battery

Tech. Code
D99201,5V



BATTERIES

ITEM: D9925

- AAA-type 1,5V battery

Tech. Code
D99251,5V



ITEM: D9930

- AA-type 1,5V battery

Tech. Code
D99301,5V



ITEM: D9935

- D-type 1,5V battery

Tech. Code
D99351,5V



ACCORDING TO IN-STOCK PRODUCT AVAILABILITY, PRODUCTS BRANDS DELIVERED MAY VARY WHILE MAINTAINING THEIR QUALITY UNALTERED.

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Socket wrenches for locknuts
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15 - 26
Hexagonal tap spanners
Hexagonal tap wrenches
T-handle hexagon socket spanners



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26 - 32
Torx spanners
Torx screwdrivers
Torx Tamper Wrenches
Torx Plus Wrenches
Switchgear Wrenches



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STAHLWILLE
WRK

33 - 45
Socket spanners
Accessories for socket spanners
socket wrenches and assortments
Impact Sockets



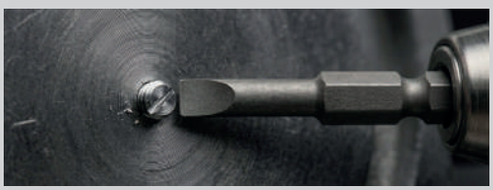
WODEX
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46 - 54
Slotted screwdrivers
Philips Screwdrivers
Pozidriv screwdrivers
Insulated screwdrivers
Screwdriver sets



WODEX
STAHLWILLE
Wera
wiha
GEDORE

54 - 74
Torque screwdrivers
Torque spanners
Calibration devices



WODEX
Wera
wiha

75 - 90
Screwdriver bits
Socket spanners for screwdrivers
Socket spanners
Bit holders for screwdrivers
Screwdrivers and assortments



WODEX

91 - 109
Tool Trolleys
Tool trolley assortments
assortment of tools in foam

COMBINATION WRENCHES



ITEM: WX1060

Standard DIN 3113 form A - ISO 7738 form A

Combination wrenches **PREMIUM QUALITY** with profiled anti-slip body and rounded edges, chrome-vanadium steel, chrome satin finish. The ring side with **Plus-Drive** profile allows high force to be transmitted to the shoulders of screws and nuts without damaging the edges.

Tech. Code	⬣ mm	a mm	a2 mm	L mm
E000505	5	3,4	5,1	90
E0005055	5,5	3,4	5,1	90
E000506	6	3,4	5,1	100
E000507	7	3,6	5,5	110
E000508	8	3,8	5,9	120
E000509	9	4,0	6,3	130
E000510	10	4,3	6,9	140
E000511	11	4,5	7,3	150
E000512	12	4,9	7,7	160
E000513	13	5,2	7,9	170
E000514	14	5,5	8,7	180
E000515	15	5,8	9,1	190
E000516	16	6,1	9,6	200
E000517	17	6,4	9,8	210
E000518	18	6,8	10,4	220

Tech. Code	⬣ mm	a mm	a2 mm	L mm
E000519	19	7,0	11,0	232
E000520	20	7,2	11,4	240
E000521	21	7,4	12,1	250
E000522	22	8,2	12,6	260
E000523	23	8,3	13,0	270
E000524	24	8,5	13,6	280
E000525	25	8,8	14,0	290
E000526	26	9,0	14,8	300
E000527	27	9,3	15,0	310
E000528	28	9,4	15,4	320
E000529	29	10,0	15,6	330
E000530	30	10,3	16,0	340
E000532	32	10,5	16,2	370
E000536	36	13,3	21,8	400

ITEM: WX1060/S10 - WX1060/S12 - WX1060/S21 - WX1060/S27

Standard DIN 3113 form A - ISO 7738 form A

Set of wrenches complete with a practical fabric roll-up tool holder.



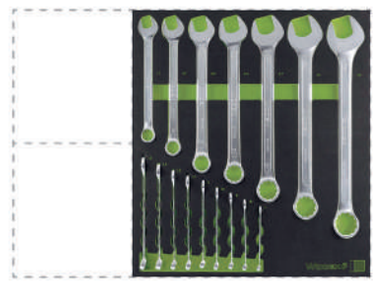
Composition:

WX1060/S10 8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
WX1060/S12 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm
WX1060/S21 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
WX1060/S27 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm

Tech. Code	Pieces
E000610	10
E000612	12
E000621	21
E000627	27

COMBINATION WRENCHES IN FOAM

1/3 V 2/3 WMS



ITEM: WX1060/SE12 - WX1060/SE16

Standard DIN 3113A - ISO 7738A

Set of **PREMIUM QUALITY>** combination wenches with profiled anti-slip body and rounded edges, chrome-vanadium steel with chrome-satin finish. The ring side with **Plus-Drive** profile allows high force to be transmitted to the shoulders of screws and nuts without damaging the edges.

Set complete with Eva Tray module for Wodex trolleys.

Composition:

WX1060/SE12 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
WX1060/SE16 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm

Tech. Code	Pieces	Module size mm
E000712	12	400 x 223,5 - 1/3 Horizontal position
E000716	16	400 x 447 - 2/3 Vertical position

COMBINATION WRENCHES

STAHLWILLE

ITEM: 13

Standard DIN 3113 FORM A - ISO 7738 FORM A

Combination wrenches with profiled anti-slip body and rounded edges, chrome-vanadium steel and chorme finish. he ring side with AS-Drive profile allows high force to be transmitted to the shoulders of screws and nuts without damaging the edges.



Tech. Code	⬣ mm	a1 mm	a2 mm	L mm
E001005,5	5,5	3,5	5,8	100
E001006	6	3,6	6	105
E001007	7	3,9	6	110
E001008	8	4,2	7	115
E001009	9	4,5	7	120
E001010	10	4,8	7	125
E001011	11	4,8	8	135
E001012	12	5,3	8,5	140
E001013	13	5,3	8,5	160
E001014	14	5,3	8,5	165
E001015	15	5,3	8,5	170
E001016	16	5,8	10	180
E001017	17	5,8	10	190
E001018	18	6,7	11,5	200
E001019	19	6,7	11,5	230
E001020	20	7	13	230
E001021	21	7,3	13	260
E001022	22	7,3	13	260

Tech. Code	⬣ mm	a1 mm	a2 mm	L mm
E001023	23	7,8	14	280
E001024	24	7,8	14	280
E001025	25	8,4	14,5	300
E001026	26	8,4	14,5	300
E001027	27	8,4	14,5	300
E001028	28	8,4	14,5	320
E001029	29	8,9	16	330
E001030	30	8,9	16	330
E001032	32	9,4	16,5	360
E001034	34	9,4	17	450
E001036	36	10	18	460
E001038	38	11	19	480
E001041	41	11	19	480
E001046	46	13	20	500
E001050	50	14	21	530
E001055	55	15	22	560
E001060	60	16	24	590

COMBINATION WRENCHES IN KIT

STAHLWILLE

ITEM: 13

Standard DIN 3113A - ISO 7738A

Combination wrenches sets OPEN-BOX with antislip profiled body and rounded edges.The profile AS-Drive (Anti-Slip-Drive) allows the transmission of strong forces on the sides of the screws and nuts without damaging the edges.

Composition:

E0011SET11 8-9-10-11-12-13-14-15-17-19-22 mm

E0011SET26 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32 mm



Tech. Code	Pieces	Package
E0011SET11	11	Roll-up tool envelope
E0011SET26	26	Cardboard box

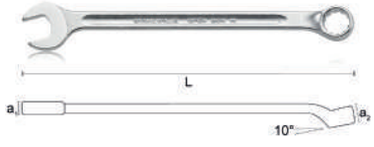
LONG COMBINATION WRENCHES

STAHLWILLE

ITEM: 14

Standard DIN 3113 FORM B - ISO 7738 FORM B

Long combination wrenches with anti-slip profiled body and rounded edges, chrome-vanadium steel and chrome finish. The profile AS-Drive (Anti-Slip-Drive) allows the transmission of force on the sides of the screws and nuts without damaging the edges.



Tech. Code	⬣ mm	a1 mm	a2 mm	L mm
E017210	10	5,5	8	165
E017213	13	6,5	10	195
E017217	17	7,5	12	240
E017219	19	8	13	265
E017222	22	8,5	14	300
E017224	24	9,5	14	330

Tech. Code	⬣ mm	a1 mm	a2 mm	L mm
E017227	27	10,5	16	385
E017230	30	12	18	415
E017232	32	12	18	430
E017236	36	13	19	480
E017241	41	14	20	560

COMBINATION RATCHET WRENCHES 72T

WODEX

ITEM: WX1300

Standard ISO 691

Combination ratchet wrenches with 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC, high torque transmission, 5° return angle, high resistance chrome-satin steel finish. Compliant with RoHS and REACH directives.



Tech. Code	⬣ mm	a mm	L mm
E019008	8	4,7	136
E019010	10	5,5	160
E019011	11	6,1	168
E019012	12	6,4	174
E019013	13	6,5	180
E019014	14	7,0	193
E019015	15	7,5	200

Tech. Code	⬣ mm	a mm	L mm
E019016	16	7,8	216
E019017	17	8,0	233
E019019	19	8,8	250
E019022	22	9,5	285
E019024	24	9,9	325
E019030	30	13,8	425

COMBINATION RATCHET WRENCHES 72T IN SET

ITEM: WX1300/S5

Standard ISO 691

Set of wrenches complete with a practical fabric roll-up tool holder with Velcro closure.

Composition:

WX1300 8 - 10 - 13 - 17 - 19 mm

Tech. Code	Pieces
E019105	5



COMBINATION RATCHET WRENCHES 72T IN FOAM

1/3 H WMS

ITEM: WX1300/SE5

Standard ISO 691

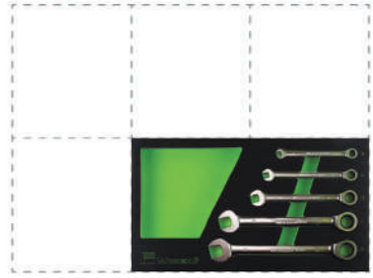
Set of 5 combination ratchet wrenches with 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC, high torque transmission, 5° return angle, high resistance chrome-satin steel finish. Compliant with RoHS and REACH directives.

Set of wrenches complete with Eva Tray module for Wodex trolleys. Module dimensions 400x223.5 mm - Horizontal Position.

Composition:

WX1300 8-10-13-17-19 mm

Tech. Code	Pieces
E019205	5



COMBINATION RATCHET WRENCHES 72T IN SET

ITEM: WX1300/K5 - WX1300/K10 - WX1300/K12

Standard ISO 691

Composition:

WX1300/K5 8 - 10 - 13 - 17 - 19 mm
WX1300/K10 8 - 10 - 13 - 14 - 15 - 16 - 17 - 19 - 22 - 24 mm
WX1300/K12 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 22 - 24 mm

Tech. Code	Pieces
E019305	5
E019310	10
E019312	12

Boxed set



LONG RATCHET WRENCHES

Wera NEW

ITEM: 6007 JOKER SB

Combination wrenches long series ratchet wrench with 80T tooth pitch and fork with retaining plate, the long lever improves accessibility when screwing in deep spaces and allows greater force transmission.

Tech. Code	⬣ mm	L mm
E019408	8	180
E019410	10	209
E019413	13	245
E019417	17	304
E019419	19	334



COMBINATION RATCHET WRENCHES 144T

144SP

ITEM: WX1310

Standard ISO 691

Combination ratchet wrenches with 144T fine teeth in chrome-vanadium steel, hardness 42-48 HRC, high torque transmission, 2.5° return angle, high resistance chrome-satin steel finish. Compliant with RoHS and REACH directives.

Tech. Code	⬣ mm	a mm	L mm
E019508	8	4,7	136
E019510	10	5,5	160
E019513	13	6,0	180

Tech. Code	⬣ mm	a mm	L mm
E019517	17	8,0	233
E019519	19	8,8	250



COMBINATION RATCHET WRENCHES 144T IN SET

ITEM: WX1310/S5

Standard ISO 691
Set of wrenches complete with a practical fabric roll-up tool holder with Velcro closure.

Composition:
WX1310 8 - 10 - 13 - 17 - 19 mm

Tech. Code	Pieces
E019605	5



ITEM: WX1310/K5

Standard ISO 691

Composition:
WX1310 8 - 10 - 13 - 17 - 19 mm

Tech. Code	Pieces
E019705	5

Boxed set



COMBINATION WRENCHES WITH REVERSIBLE RATCHET

ITEM: WX1350

Standard ISO 691
Set of combination wrenches with reversible ratchet and 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC. High torque transmission, 5° return angle, 15° bent polygonal ratchet head for working in hard-to-reach spaces, high resistance chrome-satin finish. Compliant with RoHS and REACH directives.

Tech. Code	⬣ mm	a mm	L mm
E020007	7	4,5	135
E020008	8	4,6	135
E020010	10	5,3	158
E020011	11	5,9	167
E020012	12	6,1	173
E020013	13	6,4	179
E020014	14	7,0	189

Tech. Code	⬣ mm	a mm	L mm
E020015	15	7,3	199
E020016	16	7,5	215
E020017	17	7,7	232
E020022	22	10,2	285
E020024	24	11,1	325
E020018	18	8,4	238
E020019	19	8,8	247



ITEM: WX1350/S5 - WX1350/S9

Standard ISO 691
Set of wrenches complete with a practical fabric roll-up tool holder with Velcro closure.

Composition:
WX1350/S5 8 - 10 - 13 - 17 - 19 mm
WX1350/S9 8 - 10 - 11 - 13 - 14 - 16 - 17 - 18 - 19 mm

Tech. Code	Pieces
E020105	5
E020109	9



COMBINATION WRENCHES WITH REVERSIBLE RATCHET IN FOAM

1/3 H WMS

ITEM: WX1350/SE5 - WX1350/SE9

Standard ISO 691
Set of combination wrenches with reversible ratchet with 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC. High torque transmission, 5° return angle, 15° bent polygonal ratchet head for working in hard-to-reach spaces, high resistance chrome-satin finish. Compliant with RoHS and REACH directives.

Set of wrenches complete with Eva Tray module for Wodex trolleys. Module dimensions 400x223.5 mm - Horizontal Position.

Composition:
WX1350/SE5 8 - 10 - 13 - 17 - 19 mm
WX1350/SE9 8 - 10 - 11 - 13 - 14 - 16 - 17 - 18 - 19 mm

Tech. Code	Pieces
E020205	5
E020209	9



COMBINATION WRENCHES WITH REVERSIBLE RATCHET IN SET

ITEM: WX1350/K5 - WX1350/K11

Standard ISO 691

Composition:

WX1350/K5 8 - 10 - 13 - 17 - 19 mm

WX1350/K11 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm



Tech. Code	Pieces
E020305	5
E020311	11

Boxed set

COMBINATION RATCHET WRENCHES WITH SWIVEL HEAD

ITEM: WX1400

Standard ISO 691

Combination wrenches with articulated ratchet and adjustable working angle of up to 180°. 15° inclined open end, 12-point polygonal ratchet with 72T standard teeth and 5° return angle. Chrome-vanadium steel hardness 42-48 HRC, high resistance chrome-satin finish. Compliant with RoHS and REACH directives.



Tech. Code	⬣ mm	a mm	L mm
E020508	8	4,7	136
E020510	10	5,5	160
E020512	12	6,4	174
E020513	13	6,5	180

Tech. Code	⬣ mm	a mm	L mm
E020514	14	7,0	193
E020517	17	8,0	233
E020519	19	8,8	250

ITEM: WX1400/K7

Standard ISO 691

Composition:

WX1400 8 - 10 - 12 -13 - 14 - 17 - 19 mm



Tech. Code	Pieces
E020607	7

Boxed set

ITEM: WX1400/S5

Standard ISO 691

Set of wrenches complete with a practical fabric roll-up tool holder with Velcro closure.



Composition:

WX1400 8 - 10 - 13 - 17 - 19 mm

Tech. Code	Pieces
E020805	5

REVERSIBLE RATCHET WRENCHES 4 IN 1

ITEM: WX1460

Standard ISO 691

Reversible ratchet wrenches with 4 different sizes in one tool, chrome-vanadium steel, hardness 42-48 HRC. High torque transmission, 72T with 5° return angle and high resistance chrome-satin finish. Compliant with RoHS and REACH directives.



Tech. Code	⬣ mm	⬣ mm	L mm
E021404	17 x 19	10 x 13	230

DOUBLE OPEN ENDED WRENCHES

ITEM: WX1010

Standard DIN 3110 - ISO 10102

Double **PREMIUM QUALITY>** open ended wrenches with profiled anti-slip body and rounded edges, chrome-vanadium steel with chrome-satin finish.



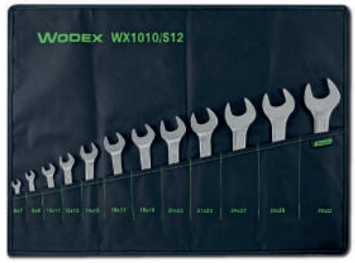
Tech. Code	⬣ mm	a mm	L mm
E02600607	6 x 7	3,5	125
E02600809	8 x 9	4	140
E02600810	8 x 10	4,5	152
E02601011	10 x 11	4,5	155
E02601013	10 x 13	5	170
E02601213	12 x 13	5	172
E02601317	13 x 17	6,3	198
E02601415	14 x 15	5,5	188
E02601617	16 x 17	6,3	205

Tech. Code	⬣ mm	a mm	L mm
E02601719	17 x 19	7	220
E02601819	18 x 19	7	220
E02602022	20 x 22	7,5	235
E02602123	21 x 23	8,3	248
E02602224	22 x 24	8,3	248
E02602427	24 x 27	8,8	265
E02602528	25 x 28	9,3	282
E02603032	30 x 32	9,8	300

DOUBLE OPEN ENDED WRENCHES IN SET

ITEM: WX1010/S8 - WX1010/S12

Standard DIN 3110 - ISO 10102
Set of wrenches complete with a practical fabric roll-up tool holder.



Composition:
WX1010/S8 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm
WX1010/S12 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm

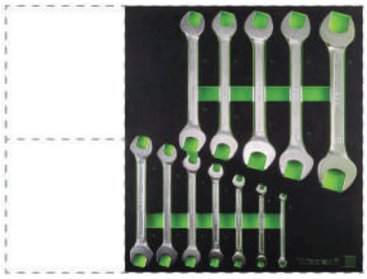
Tech. Code	Pieces
E026108	8
E026112	12

1/3 H 2/3 WMS

ITEM: WX1010/SE8 - WX1010/SE12

Standard DIN 3110 - ISO 10102
Set of double open ended wrenches with profiled anti-slip body and rounded edges in chrome-vanadium steel, chrome-satin finish.

Set of wrenches complete with Eva Tray module for Wodex trolleys.

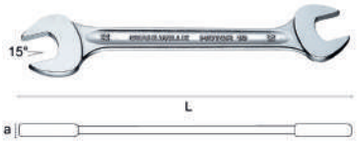


Composition:
WX1010/SE8 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm
WX1010/SE12 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm

Tech. Code	Pieces	Module size mm
E026208	8	400 x 223,5 - 1/3 Horizontal position
E026212	12	400 x 447 - 2/3 Vertical position

DOUBLE OPEN ENDED WRENCHES

ITEM: 10
Standard DIN 3110 - ISO 10102
Double open ended wrenches with profiled anti-slip body and rounded edges, chrome-vanadium steel and chrome finish.



Tech. Code	⬣ mm	a mm	L mm
E02734X5	4 x 5	3,4	100
E02735,5X7	5,5 x 7	3,7	120
E02736X7	6 x 7	3,7	120
E02737X8	7 x 8	4,0	140
E02738X9	8 x 9	4,0	140
E02738X10	8 x 10	4,5	140
E027310X11	10 x 11	4,8	155
E027310X12	10 x 12	5,3	170
E027310X13	10 x 13	5,3	170
E027311X13	11 x 13	5,3	170
E027312X13	12 x 13	5,3	170
E027312X14	12 x 14	5,3	170
E027313X14	13 x 14	5,3	190
E027313X15	13 x 15	5,3	190
E027313X17	13 x 17	5,8	205
E027314X15	14 x 15	5,3	190
E027316X17	16 x 17	5,8	205

Tech. Code	⬣ mm	a mm	L mm
E027317X19	17 x 19	6,7	220
E027318X19	18 x 19	6,7	220
E027319X22	19 x 22	7,3	235
E027320X22	20 x 22	7,3	235
E027321X23	21 x 23	7,8	250
E027321X24	21 x 24	7,8	250
E027322X24	22 x 24	7,8	250
E027324X26	24 x 26	8,3	270
E027324X27	24 x 27	8,3	280
E027325X28	25 x 28	8,3	285
E027327X30	27 x 30	9,4	300
E027327X32	27 x 32	9,4	300
E027330X32	30 x 32	9,4	300
E027330X34	30 x 34	9,4	300
E027332X36	32 x 36	10	325
E027336X41	36 x 41	11	375
E027341X46	41 x 46	12	425

OPEN-END WRENCHES SIMPLE

WODEX

ITEM: WX1140 - WX1140/B
Standard DIN 894
Open-end wrenches simple in forged steel with 15° inclined mouth, galvanized finish up to size 80 mm, black phosphating for larger sizes. The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied in set.



Tech. Code	⬣ mm	a mm	L mm
E0300006	6	3,5	73
E0300007	7	3,5	78
E0300008	8	4	94
E0300009	9	4,5	100
E0300010	10	4,5	106
E0300011	11	5	112
E0300012	12	5	124
E0300013	13	5	132
E0300014	14	5	140
E0300015	15	5,5	145
E0300016	16	6	158
E0300017	17	6	159
E0300018	18	7	165
E0300019	19	7,5	170
E0300021	21	7,5	190
E0300022	22	7,5	193
E0300023	23	8	210
E0300024	24	9	217
E0300027	27	9,5	240
E0300030	30	10,5	263
E0300032	32	12	275
E0300034	34	12,5	290
E0300036	36	13	305

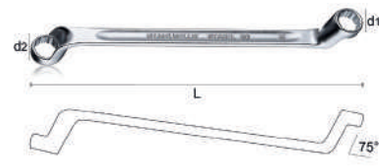
Tech. Code	⬣ mm	a mm	L mm
E0300038	38	13,5	305
E0300041	41	14,5	344
E0300042	42	15	360
E0300046	46	15	380
E0300050	50	16	413
E0300055	55	17	459
E0300060	60	17,5	494
E0300065	65	18	528
E0300070	70	18,5	572
E0300075	75	20	610
E0300080	80	22,5	645
E0300085	85	22,5	670
E0300090	90	22,5	680
E0300095	95	26	847
E0300100	100	26	847
E0300105	105	26	1000
E0300110	110	29	1000
E0300115	115	29	1000
E0300120	120	29	1000
E0300125	125	29	1000
E0300130	130	29	1000
E0300135	135	29	1000

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

DOUBLE ENDED OFFSET RING WRENCHES

STAHLWILLE

ITEM: 20
Standard DIN 838 ISO 10104
Double ended offset ring wrenches STABIL® in chrome steel with a deep curvature. The AS-Drive profile (Anti-Slip-Drive) allows the transmission of strong forces on the sides of the screws and bolts without damaging the edges.



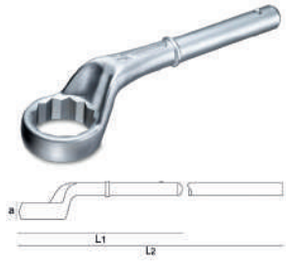
Tech. Code	⬣ mm	d1 mm	d2 mm	L mm
E03510607	6 x 7	10,5	11,8	165
E03510809	8 x 9	13,1	14,5	180
E03510810	8 x 10	13,1	15,8	180
E03511011	10 x 11	15,8	17,2	200
E03511013	10 x 13	15,8	20,0	220
E03511213	12 x 13	18,6	20,0	220
E03511317	13 x 17	20,0	25,3	245
E03511415	14 x 15	21,3	22,6	245
E03511617	16 x 17	23,9	25,3	255
E03511719	17 x 19	25,3	28,0	270
E03511819	18 x 19	26,6	28,0	275
E03511821	18 x 21	26,6	30,7	300
E03511922	19 x 22	28,0	32,1	300

Tech. Code	⬣ mm	d1 mm	d2 mm	L mm
E03512022	20 x 22	29,4	32,1	300
E03512123	21 x 23	30,7	33,4	315
E03512124	21 x 24	30,7	34,7	330
E03512224	22 x 24	32,1	34,7	330
E03512426	24 x 26	34,7	37,3	330
E03512427	24 x 27	34,7	38,6	330
E03512528	25 x 28	36,0	40,0	350
E03512730	27 x 30	38,3	42,6	360
E03512732	27 x 32	39,3	47,2	360
E03513032	30 x 32	42,6	45,4	365
E03513034	30 x 34	42,6	48,0	365
E03513641	36 x 41	53,0	60,0	440
E03514650	46 x 50	65,2	73,0	535

CURVED POLYGONAL WRENCHES HEAVY DUTY

STAHLWILLE

ITEM: 5
Standard DIN ISO 691
Curved polygonal wrenches Heavy Duty for high tightening torques, to be used with the operating levers Art. 5 1/2. Chrome-vanadium steel, chrome finish.



Tech. Code	⬣ mm	a mm	L1 mm	L2 mm	Lever n°
E0362024	24	17	180	555	1
E0362027	27	17	190	560	1
E0362030	30	18	200	565	1
E0362032	32	18	235	730	2
E0362036	36	20	245	735	2
E0362038	38	21	250	740	2
E0362041	41	22	265	750	2
E0362042	42	22	265	750	2
E0362046	46	23	280	910	3
E0362050	50	25,5	290	920	3

Tech. Code	⬣ mm	a mm	L1 mm	L2 mm	Lever n°
E0362055	55	28	300	925	3
E0362060	60	30,5	345	1050	4
E0362065	65	33	355	1060	4
E0362070	70	35,5	365	1065	4
E0362075	75	38	375	1070	4
E0362080	80	40,5	385	1075	4
E0362085	85	40,5	385	1075	4
E0362090	90	45	410	1100	4
E0362095	95	45	410	1100	4
E0362100	100	45	412	1100	4

MANEUVER LEVERS FOR POLYGONAL WRENCHES HEAVY DUTY

STAHLWILLE

ITEM: 5-1/2

Maneuver levers for polygonal wrenches Art.5 Chrome vanadium steel, chrome finish.

Tech. Code	N.	⬣ mm	L mm	Ø mm
E036301	1	24 - 30	460	19
E036302	2	32 - 42	610	22

Tech. Code	N.	⬣ mm	L mm	Ø mm
E036303	3	46 - 55	760	25
E036304	4	60 - 100	860	30



HOOK WRENCHES

WODEX

ITEM: WX1980

Standard UNI 6752 DIN 1810 A

Hook wrenches **PREMIUM QUALITY** with square nose for locking rings with radial notches.
Internal profile with multiple teeth to grip the unified locking rings perfectly. Chrome molybdenum steel, chrome-satin finish.



Tech. Code	For external Ø locking rings mm	Pin mm	L mm
E1200022	22 - 25 - 28	2,5	136
E1200030	30 - 32	2,5	136
E1200034	34 - 36 - 38	3,0	170
E1200040	40 - 42	3,0	170
E1200045	45 - 50	3,5	205
E1200052	52 - 55	3,5	205
E1200058	58 - 62 - 65	4,0	240

Tech. Code	For external Ø locking rings mm	Pin mm	L mm
E1200068	68 - 70 - 75	4,0	240
E1200080	80 - 85 - 90	5,0	280
E1200092	92 - 95	5,0	280
E1200098	98 - 100	5,0	280
E1200105	105 - 110 - 115	5,0	320
E1200120	120 - 125 - 130	5,0	320
E1200135	135 - 145	6,0	380

ADJUSTABLE HOOK WRENCHES

WODEX

ITEM: WX1982

Adjustable hook wrenches **PREMIUM QUALITY** with square nose for locking rings with radial notches.
Chrome molybdenum steel, chrome-satin finish.



Tech. Code	For external Ø locking rings mm	Pin mm	L mm
E1210015	15 - 35	3,5	170
E1210035	35 - 50	4,0	210
E1210050	50 - 80	5,0	280

Tech. Code	For external Ø locking rings mm	Pin mm	L mm
E1210080	80 - 120	5,5	345
E1210120	120 - 180	9,5	492

ITEM: WX1982/S5

Composition:

WX1982 - 15-35 Hook wrench for ring nuts with external Ø 15 - 35 mm
WX1982 - 35-50 Hook wrench for ring nuts with external Ø 35 - 50 mm
WX1982 - 50-80 Hook wrench for ring nuts with external Ø 50 - 80 mm
WX1982 - 80-120 Hook wrench for ring nuts with external Ø 80 - 120 mm
WX1982 - 120-180 Hook wrench for ring nuts with external Ø 120 - 180 mm



Tech. Code	Pieces
E121105	5

Boxed assortments

ITEM: WX1987

Adjustable hook wrenches **PREMIUM QUALITY** with round pin for locking rings with radial holes.
Chrome molybdenum steel, chrome-satin finish.



Tech. Code	For external Ø locking rings mm	Pin Ø mm	L mm
E1220015	15 - 35	3	170
E1220035	35 - 50	4	210
E1220050	50 - 80	5	280

Tech. Code	For external Ø locking rings mm	Pin Ø mm	L mm
E1220080	80 - 120	6	345
E1220120	120 - 180	8	475

ITEM: WX1987/S5

Compostion:

WX1987 - 15-35 Hook wrench for ring nuts with external Ø 15-35 mm
WX1987 - 35-50 Hook wrench for ring nuts with external Ø 35-50 mm
WX1987 - 50-80 Hook wrench for ring nuts with external Ø 50-80 mm
WX1987 - 80-120 Hook wrench for ring nuts with external Ø 80-120 mm
WX1987 - 120-180 Hook wrench for ring nuts with external Ø 120-180 mm



Tech. Code	Pieces
E122205	5

Boxed assortments

ITEM: WX1987/P

Replacement **PREMIUM QUALITY** pins for adjustable hook wrenches with round pin.



Tech. Code	For wrenches mm	Nose Ø mm
E1221015	15 - 35	3
E1221035	35 - 50	4
E1221050	50 - 80	5

Tech. Code	For wrenches mm	Nose Ø mm
E1221080	80 - 120	6
E1221120	120 - 180	8

ADJUSTABLE CALIPER PIN WRENCHES WITH ROUND NOSE PIECE

WODEX

ITEM: WX1989

Caliper pin wrenches variable opening with interchangeable round nose, suitable for locking ring nuts with front maneuvering holes. Chrome-vanadium steel, satin chrome finish.



Tech. Code	Ø nose mm	Max. opening mm	L mm
E122303	3	110	178
E122304	4	110	178

Tech. Code	Ø nose mm	Max. opening mm	L mm
E122305	5	160	230
E122306	6	160	230

ITEM: WX1989/P

Pair of spare lugs for variable opening caliper pin wrenches.



Tech. Code	Ø Lugs mm
E122403	3
E122404	4

Tech. Code	Ø Lugs mm
E122405	5
E122406	6

ADJUSTABLE CALIPER PIN WRENCHES WITH ROUND NOSE PIECE

ITEM: E1279

Round nosepiece model with variable nut opening and threaded rings with front holes, special steel and burnished finish.



Tech. Code	Ø nose mm	Max. opening mm	L mm
E127901,5	1,5	40	115
E127902	2	40	115
E127902,5	2,5	40	115
E127903	3	60	160
E127904	4	60	160

Tech. Code	Ø nose mm	Max. opening mm	L mm
E127905	5	60	160
E127905L	5	100	215
E127906	6	100	215
E127908	8	100	215

ADJUSTABLE HOOK WRENCHES

STAHLWILLE

ITEM: 12910

Adjustable hook wrenches with square lug for radial notched locking rings.



Tech. Code	For external Ø locking rings mm	Pin mm	L mm
E12304590	45 - 90	6	250

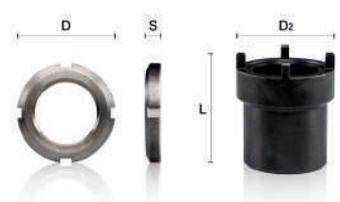
Tech. Code	For external Ø locking rings mm	Pin mm	L mm
E123095165	95 - 165	10	335

SOCKET WRENCHES FOR RING NUTS KM

WODEX

ITEM: WX1990

Socket wrenches **Premium Quality** in hardened steel for radiale notched ring nuts model KM according to DIN 981.



Features:

External drive teeth

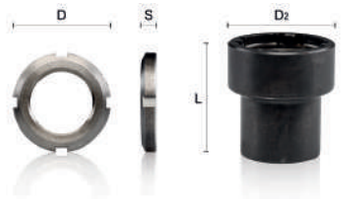
For manual use with ratchets and squre drive levers

Tech. Code	Ring nut Type	Ring nut M	D mm	S mm	D2 mm	L mm	Teeth Nr	Coupling ■
E1240010	KM 0	10 x 0,75	18	4	23,5	60	4	3/8"
E1240012	KM 1	12 x 1	22	4	27,5	60	4	3/8"
E1240015	KM 2	15 x 1	25	5	30	60	4	1/2"
E1240017	KM 3	17 x 1	28	5	33	60	4	1/2"
E1240020	KM 4	20 x 1	32	6	38	60	4	1/2"
E1240025	KM 5	25 x 1,5	38	7	44	60	4	3/4"
E1240030	KM 6	30 x 1,5	45	7	51	60	4	3/4"
E1240035	KM 7	35 x 1,5	52	8	58	60	4	3/4"
E1240040	KM 8	40 x 1,5	58	9	64	60	4	3/4"
E1240045	KM 9	45 x 1,5	65	10	69	60	4	3/4"
E1240050	KM 10	50 x 1,5	70	11	75	60	4	3/4"
E1240055	KM 11	55 x 2	75	11	80	60	4	3/4"
E1240060	KM 12	60 x 2	80	11	85	60	4	1"
E1240065	KM 13	65 x 2	85	12	90	60	4	1"

SOCKET WRENCHES FOR RING NUTS KM

ITEM: WX1992

Socket Wrenches Premium Quality in hardened steel for nuts with radiale notches model KM compliant with DIN 981.



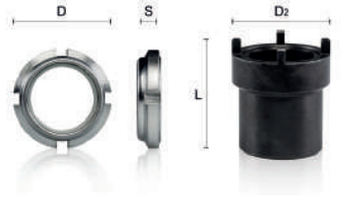
Features:
Internal drive teeth
For use with pneumatic and electric impact wrenches

Tech. Code	Ring nuts Type	Ring nuts M	D mm	S mm	D2 mm	L mm	Teeth Nr	Coupling ■
E1242010	KM 0	10 x 0,75	18	4	28	60	4	3/8"
E1242012	KM 1	12 x 1	22	4	32	60	4	3/8"
E1242015	KM 2	15 x 1	25	5	34	60	4	1/2"
E1242017	KM 3	17 x 1	28	5	39	60	4	1/2"
E1242020	KM 4	20 x 1	32	6	44	60	4	1/2"
E1242025	KM 5	25 x 1,5	38	7	49	60	4	3/4"
E1242030	KM 6	30 x 1,5	45	7	56	60	4	3/4"
E1242035	KM 7	35 x 1,5	52	8	63	60	4	3/4"
E1242040	KM 8	40 x 1,5	58	9	69	60	4	3/4"
E1242045	KM 9	45 x 1,5	65	10	76	60	4	3/4"
E1242050	KM 10	50 x 1,5	70	11	81	60	4	3/4"
E1242055	KM 11	55 x 2	75	11	86	60	4	3/4"
E1242060	KM 12	60 x 2	80	11	91	60	4	1"
E1242065	KM 13	65 x 2	85	12	96	60	4	1"

SOCKET WRENCHES FOR SELF LOCKING RING NUTS GUK

ITEM: WX1994

Socket wrenches **Premium Quality** in hardened steel with self locking ring nuts with radial notches GUK model nylon ring.



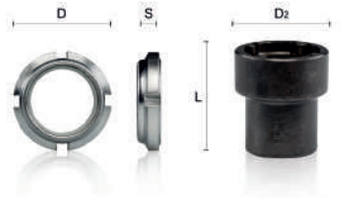
Features:
External drive teeth
For manual use for ratchets and square drive levers

Tech. Code	Ring nuts Type	Ring nuts M	D mm	S mm	D2 mm	L mm	Teeth Nr	Coupling ■
E1244010	GUK 0	10 x 0,75	18	7,6	23,5	60	4	3/8"
E1244012	GUK 1	12 x 1	21	7,6	27,5	60	4	3/8"
E1244015	GUK 2	15 x 1	24	8,6	30	60	4	1/2"
E1244017	GUK 3	17 x 1	28	8,6	33	60	4	1/2"
E1244020	GUK 4	20 x 1	32	9,6	38	60	4	1/2"
E1244025	GUK 5	25 x 1,5	38	10,5	44	60	4	3/4"
E1244030	GUK 6	30 x 1,5	44	10,7	51	60	4	3/4"
E1244035	GUK 7	35 x 1,5	50	11,3	55	60	4	3/4"
E1244040	GUK 8	40 x 1,5	56	12,3	60	60	4	3/4"
E1244045	GUK 9	45 x 1,5	62	12,3	67	60	4	3/4"
E1244050	GUK 10	50 x 1,5	68	12,9	73	60	4	3/4"
E1244055	GUK 11	55 x 2	75	13,4	80	60	6	3/4"
E1244060	GUK 12	60 x 2	80	13,4	85	60	6	1"
E1244065	GUK 13	65 x 2	85	14,5	90	60	6	1"

SOCKET WRENCHES FOR SELF LOCKING RING NUTS GUK

ITEM: WX1996

Socket wrenches **Premium Quality** in hardened steel for self locking nuts with radiale notches and GUK model nylon ring.



Features:
Internal drive teeth.
For use of pnuematic and electric impact wrenches.

Tech. Code	Ring nuts Type	Ring nuts M	D mm	S mm	D2 mm	L mm	Teeth Nr	Coupling ■
E1246010	GUK 0	10 x 0,75	18	7,6	28	60	4	3/8"
E1246012	GUK 1	12 x 1	21	7,6	32	60	4	3/8"
E1246015	GUK 2	15 x 1	24	8,6	34	60	4	1/2"
E1246017	GUK 3	17 x 1	28	8,6	39	60	4	1/2"
E1246020	GUK 4	20 x 1	32	9,6	44	60	4	1/2"
E1246025	GUK 5	25 x 1,5	38	10,5	49	60	4	3/4"
E1246030	GUK 6	30 x 1,5	44	10,7	56	60	4	3/4"
E1246035	GUK 7	35 x 1,5	50	11,3	63	60	4	3/4"
E1246040	GUK 8	40 x 1,5	56	12,3	69	60	4	3/4"
E1246045	GUK 9	45 x 1,5	62	12,3	76	60	4	3/4"
E1246050	GUK 10	50 x 1,5	68	12,9	81	60	4	3/4"
E1246055	GUK 11	55 x 2	75	13,4	86	60	6	3/4"
E1246060	GUK 12	60 x 2	80	13,4	91	60	6	1"
E1246065	GUK 13	65 x 2	85	14,5	96	60	6	1"

HEAVY DUTY IMPACT WRENCHES

ITEM: WX1680

Standard DIN 133 - ISO 691

Simple impact wrenches made of special forged and tempered steel, Black Phosphated surface finish, 15° inclined mouth. Can be used in heavy industry with the aid of mallets or hammers.

Tech. Code	⬣ mm	a mm	L mm	Weight g
E1330024	24	15	160	280
E1330027	27	15	180	350
E1330030	30	16	190	540
E1330032	32	17	195	770
E1330036	36	18	210	900
E1330041	41	19	225	1060
E1330046	46	20	251	1110
E1330050	50	20	275	1650
E1330055	55	23	304	2200

Tech. Code	⬣ mm	a mm	L mm	Weight g
E1330060	60	24	320	2600
E1330065	65	28	340	2700
E1330070	70	30	365	4000
E1330075	75	30	278	5000
E1330080	80	37	398	5700
E1330085	85	37	402	6000
E1330090	90	38	443	8500
E1330095	95	39	447	9800
E1330100	100	42	485	12200



Measurements not in stock are available within 2 weeks.

HEAVEY DUTY INPACT WRENCHES

ITEM: WX1682

Standard DIN 7444 - ISO 691

Impact wrenches made of special forged and tempered steel, Black Phosphated surface finish.Can be used in heavy industry with the aid of mallets or hammers.

Tech. Code	⬣ mm	a mm	L mm	Weight g
E1332024	24	14	167	295
E1332027	27	16	179	300
E1332030	30	17	191	380
E1332032	32	17	197	470
E1332036	36	19	206	520
E1332041	41	22	230	750
E1332046	46	22	240	850
E1332050	50	24	255	1130
E1332055	55	25	270	1560
E1332060	60	25	280	1500
E1332065	65	28	295	2100
E1332070	70	33	320	3150
E1332075	75	34	330	3100

Tech. Code	⬣ mm	a mm	L mm	Weight g
E1332080	80	37	355	3200
E1332085	85	37	360	3900
E1332090	90	40	390	6000
E1332095	95	40	390	6600
E1332100	100	40	400	7400
E1332105	105	46	435	9000
E1332110	110	46	435	8800
E1332115	115	46	435	8600
E1332120	120	51	480	11600
E1332125	125	51	480	11300
E1332130	130	57	510	13700
E1332135	135	59	510	13500
E1332140	140	61	510	13200



Measurements not in stock are available within 2 weeks.

DOUBLE ENDED TUBULAR BOX WRENCHES

ITEM: WX1840

Standard UNI 6745 - ISO 2236 - DIN 896

Heavy duty series tubular box wrenches in chrome-vanadium steel with hexagonal socket and transversal holes for Tommy bars, hexagonal profile body for use with open ended wrenches.

Tech. Code	○ mm	a mm	b mm	L mm
E13400607	6 x 7	10	11	105
E13400809	8 x 9	13	14	110
E13401011	10 x 11	15	16	120
E13401213	12 x 13	18	19	140
E13401415	14 x 15	20	22	145
E13401617	16 x 17	23	24	155
E13401819	18 x 19	25	26	165

Tech. Code	○ mm	a mm	b mm	L mm
E13402022	20 x 22	28	30	170
E13402123	21 x 23	29	31	185
E13402426	24 x 26	33	33	190
E13402528	25 x 28	34	37	200
E13402729	27 x 29	37	39	210
E13403032	30 x 32	40	42	210



ITEM: WX1840/S8 - WX1840/S12

Standard UNI 6745 - ISO 2236 - DIN 896

Composition:

WX1840/S8 Tubular box wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm

WX1840/S12 Tubular wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x26 - 25x28 - 30x32 mm

Tech. Code	Pieces
E134408	8
E134412B	12

Boxed set



DOUBLE SOCKET WRENCHES LIGHT MODEL

ITEM: E1370

Steel tube wrenches with hexagonal ports, galvanized finish.



Tech. Code	⊙ mm	L mm
E13700607	6 x 7	90
E13700809	8 x 9	94
E13700810	8 x 10	94
E13701011	10 x 11	104
E13701213	12 x 13	109
E13701317	13 x 17	124
E13701415	14 x 15	114
E13701617	16 x 17	124
E13701719	17 x 19	129
E13701819	18 x 19	129
E13701922	19 x 22	134
E13702022	20 x 22	134
E13702123	21 x 23	139

Tech. Code	⊙ mm	L mm
E13702426	24 x 26	144
E13702427	24 x 27	155
E13702528	25 x 28	160
E13702729	27 x 29	165
E13703032	30 x 32	165
E13703236	32 x 36	175
E13703437	34 x 37	180
E13703538	35 x 38	185
E13703641	36 x 41	190
E13704042	40 x 42	195
E13704650	46 x 50	195
E13705055	50 x 55	195
E13705560	55 x 60	195

DOUBLE PIPE WRENCHES HEAVY DUTY

ITEM: WX1861

Double pipe wrenches Heavy Duty in chrome-vanadium steel with a polygonal and a hexagonal mouth, the through hole on the short side allows access to the nut even in the presence of protruding threads. The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied sets.



Tech. Code	⊙ mm	a mm	L mm
E140506	6 x 6	11	110
E140507	7 x 7	12	115
E140508	8 x 8	13	120
E140509	9 x 9	14	125
E140510	10 x 10	16	130
E140511	11 x 11	17	135
E140512	12 x 12	18	145
E140513	13 x 13	19	150
E140514	14 x 14	21	160
E140515	15 x 15	22	175

Tech. Code	⊙ mm	a mm	L mm
E140516	16 x 16	24	185
E140517	17 x 17	25	200
E140518	18 x 18	26	210
E140519	19 x 19	28	220
E140520	20 x 20	30	222
E140521	21 x 21	31	230
E140522	22 x 22	32	240
E140523	23 x 23	33	250
E140524	24 x 24	34	260

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

ITEM: WX1861/S6 - WX1861/S12 - WX1861/S17 - WX1861/S19



Composition:

WX1860/S6 7x7 - 8x8 - 10x10 - 13x13 - 17x17 - 19x19 mm

WX1861/S12 6x6 - 7x7 - 8x8 - 9x9 - 10x10 - 11x11 - 12x12 - 13x13 - 14x14 - 17x17 - 19x19 - 22x22 mm

WX1861/S17 6x6 - 7x7 - 8x8 - 9x9 - 10x10 - 11x11 - 12x12 - 13x13 - 14x14 - 15x15 - 16x16 - 17x17 - 18x18 - 19x19 - 20x20 - 21x21 - 22x22 mm

WX1861/S19 6x6 - 7x7 - 8x8 - 9x9 - 10x10 - 11x11 - 12x12 - 13x13 - 14x14 - 15x15 - 16x16 - 17x17 - 18x18 - 19x19 - 20x20 - 21x21 - 22x22 - 23x23 - 24x24 mm

Tech. Code	Pieces
E140606	6
E140612	12
E140617	17
E140619	19

HEXAGONAL NUT DRIVERS WITH HANDLE

ITEM: WX1950

Hexagonal extended nut drivers with **PREMIUM QUALITY** handle for hexagonal head screws and nuts. Satin chrome-vanadium steel blade, hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** grip made of **SANTOPRENE®** that guarantees maximum grip for fast and accurate work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	⊙ mm	a mm	L mm	P mm
E145005	5	125	235	25
E145005,5	5.5	125	235	25
E145006	6	125	235	25
E145007	7	125	235	25

Tech. Code	⊙ mm	a mm	L mm	P mm
E145008	8	125	235	25
E145009	9	125	235	25
E145010	10	125	235	25
E145013	13	125	235	25

HEXAGONAL NUTDRIVERS WITH HANDLE IN SET

WODEX

ITEM: WX1950/S8

Composition:
WX1950 5x125 - 5.5x125 - 6x125 - 7x125 - 8x125 - 9x125 - 10x125 - 13x125 mm

Tech. Code	Pieces
E145208	8

Boxed set



HEXAGONAL NUTDRIVERS WITH HANDLE

WRK

ITEM: E1455
Hexagonal socket handle with bicomponent grip, vanadium chrome and satin steel.

Tech. Code	O mm	a mm	L mm
E145503	3	125	225
E145503,5	3.5	125	225
E145504,5	4.5	125	225
E145505	5	125	225
E145505,5	5.5	125	225
E145506	6	125	235
E145507	7	125	235

Tech. Code	O mm	a mm	L mm
E145509	9	125	235
E145511	11	125	245
E145512	12	125	245
E145513	13	125	245
E145514	14	125	245
E145517	17	125	245

While stocks last



MICRO SCREWDRIVERS WITH HEXAGONAL SOCKET

WODEX

ITEM: WX1957
Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for hexagonal head screws and nuts, satin chrome-vanadium steel blades. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	O mm	Blade Ø mm	a mm	L mm
E14802,5X60	2.5	4.0	60	155
E14803,0X60	3.0	5.0	60	155
E14803,5X60	3.5	5.3	60	155

Tech. Code	O mm	Blade Ø mm	a mm	L mm
E14804,0X60	4.0	5.5	60	155
E14805,0X60	5.0	7.0	60	155
E14806,0X60	6.0	8.5	60	155



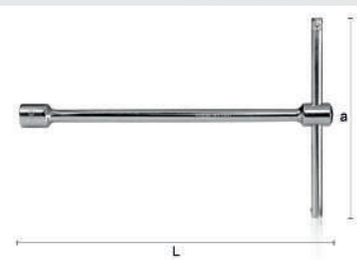
T-HANDLE WRENCHES WITH HEXAGONAL SOCKET

WODEX

ITEM: WX1900
Standard DIN 3112 - UNI 6742 - ISO 691
Chrome vanadium steel T-handle spanners with hexagon mouth, sliding rod with end stops. Chrome-plated finish.

Tech. Code	O mm	a mm	L mm
E262507	7	165	215
E262508	8	165	235
E262510	10	180	260

Tech. Code	O mm	a mm	L mm
E262513	13	180	260
E262517	17	240	285
E262519	19	240	310



T-HANDLE SWIVEL HEXAGONAL SOCKET WRENCHES

WODEX

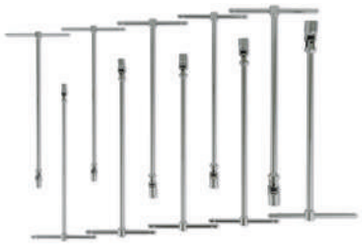
ITEM: WX1910
Standard UNI 6743
Wrenches **PREMIUM QUALITY** in chrome-vanadium steel with hexagonal socket and universal joint. The high precision and high quality of the materials ensure tightening torques higher than those specified in the ISO reference standard. The universal joint is fitted with a spring for controlled positioning and can be tilted by up to 90°. Sliding bar with limit stops. Chrome-satin finish with phosphate coated joints.

Tech. Code	O mm	a mm	L mm
E263006	6	165	400
E263007	7	165	400
E263008	8	165	400
E263010	10	180	445
E263012	12	180	450

Tech. Code	O mm	a mm	L mm
E263013	13	180	450
E263014	14	180	450
E263017	17	180	480
E263019	19	230	510
E263022	22	230	510



T-HANDLE SWIVEL HEXAGONAL SOCKET WRENCHES IN SET



ITEM: WX1910/S7 - WX1910/S10

Standard UNI 6743

Composition:

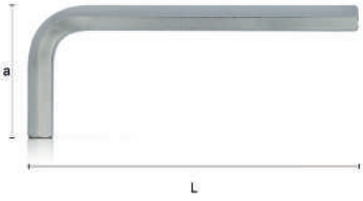
WX1910/S7 7 - 8 - 10 - 13 - 14 - 17 - 19 mm

WX1910/S10 6 - 7 - 8 - 10 - 12 - 13 - 14 - 17 - 19 - 22 mm

Tech. Code	Pieces
E263307	7
E263310	10

Boxed set

HEXAGONAL WRENCHES



ITEM: WX2560

Standard DIN 911 - ISO 2936

Premium Quality hexagonal wrenches made of chrome vanadium steel with high toughness and hardness.
The careful chrome-plating guarantees adequate protection against corrosion.

Tech. Code	⬣ mm	a mm	L mm
E229501,5	1,5	14	45
E229502	2	16	50
E229502,5	2,5	18	56
E229503	3	20	63
E229503,5	3,5	22	66
E229504	4	25	70
E229504,5	4,5	26	75
E229505	5	28	80
E229506	6	32	90
E229507	7	34	95
E229508	8	36	100

Tech. Code	⬣ mm	a mm	L mm
E229510	10	40	112
E229512	12	45	125
E229514	14	56	140
E229517	17	63	160
E229519	19	70	180
E229522	22	80	200
E229524	24	90	224
E229527	27	125	275
E229530	30	140	315
E229532	32	155	350



ITEM: WX2560/S7

Standard DIN 911 - ISO 2936

Composition:

WX2560 Hexagon wrenches 1,5x45 - 2x50 - 2,5x56 - 3x63 - 4x70 - 5x80 - 6x90 mm

Tech. Code	Pieces
E229407	7



ITEM: WX2560/S9

Standard DIN 911 - ISO 2936

Premium Quality wrench sets complete with practical two-component case.

Composition:

WX2560 Hexagon wrenches 1,5x45 - 2x50 - 2,5x56 - 3x63 - 4x70 - 5x80 - 6x90 - 8x100 - 10x112 mm

Tech. Code	Pieces
E229609	9

HEXAGONAL WRENCHES



ITEM: WX2561

Standard DIN 911 - ISO 2936

Hexagonal wrenches in chrome vanadium steel and galvanised finish.
The excellent price-performance ratio also allows these tools to be used for kit compositions.

Tech. Code	⬣ mm	a mm	L mm
E229701,5	1,5	14	46
E229702	2	16	50
E229702,5	2,5	18	56
E229703	3	20	63
E229704	4	25	70

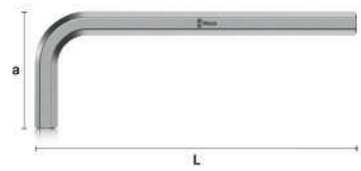
Tech. Code	⬣ mm	a mm	L mm
E229705	5	28	80
E229706	6	32	90
E229708	8	36	100
E229710	10	40	112
E229712	12	45	125

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

HEXAGONAL WRENCHES

Wera

ITEM: 950
Chrome-plated steel bent hexagonal wrenches. Hexagon profile with increased bearing surface Hex-Plus.
Sizes 1.5 - 14 - 17 - 19 mm have the standard hexagon profile.



Tech. Code	⬣ mm	a mm	L mm
E220001,5	1,5	14	45
E220002	2	16	50
E220002,5	2,5	18	56
E220003	3	20	63
E220004	4	25	70
E220005	5	28	80
E220006	6	32	90
E220007	7	34	95

Tech. Code	⬣ mm	a mm	L mm
E220008	8	36	100
E220009	9	38	106
E220010	10	40	112
E220012	12	45	125
E220014	14	56	140
E220017	17	63	160
E220019	19	70	180

HEXAGONAL WRENCHES IN KIT

Wera

ITEM: 950/9 HEX-PLUS 5

Set of L keys completed with practical case in wear-resistant plastic material.

Composition:
950 Hexagon wrenches 1,5x45 - 2x50 - 2,5x56 - 3x63 - 4x70 - 5x80 - 6x90 - 8x100 - 10x112 mm



Tech. Code	Pieces
E222009	9

HEXAGONAL WRENCHES WITH POCKET WRENCH HOLDER KIT

ITEM: E2298

Standard ISO 2936
Set of 7 burnished hexagonal wrenches made of high quality chrome vanadium steel in a two-component plastic pocket stand with device for easy opening of the wrenches.

Composition:
⬣ 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm



Tech. Code	Pieces
E229807B	7

HEXAGONAL WRENCHES WITH SPHERICAL HEAD

WODEX

ITEM: WX2565
Premium Quality hexagonal wrenches **Made in Germany** with spherical end on the long side that allows working with angles of up to 25° to the screw axis. Particularly tough chrome-vanadium steel with anti-corrosion surface treatment corrosion-resistant **Grey OSD surface** treatment.



Tech. Code	⬣ mm	a mm	L mm
E229001,5	1,5	15	46
E229002	2	18	52
E229002,5	2,5	20	58
E229003	3	23	66
E229004	4	29	74

Tech. Code	⬣ mm	a mm	L mm
E229005	5	33	85
E229006	6	38	96
E229008	8	44	108
E229010	10	50	122

ITEM: WX2565/S9

Premium Quality Wrenches Sets Made **in Germany** complete with practical high quality plastic case.



Composition:
WX2565 Hexagonal wrenches 1.5x46 - 2x52 - 2.5x58 - 3x66 - 4x74 - 5x85 - 6x96 - 8x108 - 10x122 mm

Tech. Code	Pieces
E229109	9

HEXAGONAL WRENCHES WITH BALL HEAD IN KIT

ITEM: 950/9 HEX-PLUS 3

Set of 9 wrenches 950 PKS chrome-plated steel hexagonal taps with ball end. The durable clip material guarantees a perfect hold of the wrenches and their easy removal.

Composition:

950 PKS Hexagon wrenches 1,5x50 - 2x56 - 2,5x63 - 3x71 - 4x80 - 5x90 - 6x100 - 8x112 - 10x125 mm



Tech. Code	Pieces
E222509	9

LONG HEXAGONAL WRENCHES WITH BALL HEAD AND MAGNET

ITEM: WX2600

Long hexagonal wrenches with ball head and permanent magnet. The magnet inserted in the long side conveniently and securely holds steel screws even in a vertical position, while the spherical end allows operation at angles of up to 25° to the screw axis. The careful chrome-plating guarantees high protection against corrosion. Sizes 1.5 - 2 - 2.5 mm are without magnet.



Tech. Code	⬣ mm	a mm	L mm
E230001,5	1,5	14	62
E230002	2	16	75
E230002,5	2,5	18	85
E230003	3	20	90
E230004	4	25	100

Tech. Code	⬣ mm	a mm	L mm
E230005	5	28	115
E230006	6	32	135
E230008	8	36	150
E230010	10	40	170

ITEM: WX2600/S9

Complete set of keys in a practical **PREMIUM QUALITY** two-component case.



Composition:

WX2600 Hexagon wrenches 1,5x62 - 2x75 - 2,5x85 - 3x90 - 4x100 - 5x115 - 6x135 - 8x150 - 10x170 mm

Tech. Code	Pieces
E230109	9

LONG HEXAGONAL WRENCHES WITH BALL HEAD

ITEM: 950 PKL BM

Long hexagonal bent steel wrenches with BlackLaser surface treatment, ball end on the long side. Hexagon profile with increased bearing surface HexPlus. (size 1.5 mm standard hexagon profile).



Tech. Code	⬣ mm	a mm	L mm
E225001,5	1,5	14	90
E225002	2	16	100
E225002,5	2,5	18	112
E225003	3	20	126
E225004	4	25	140
E225005	5	28	160

Tech. Code	⬣ mm	a mm	L mm
E225006	6	32	180
E225007	7	34	190
E225008	8	36	200
E225010	10	40	219
E225012	12	45	248

ITEM: 950/9 HEX-PLUS 6

Set of keys complete with practical case in wear-resistandt plastic material.



Composition:

950 PKL BM Hexagon wrenches 1,5x90 - 2x100 - 2,5x112 - 3x126 - 4x140 - 5x160 - 6x180 - 8x200 - 10x219 mm

Tech. Code	Pieces
E226009	9

ITEM: 950/9 HEX-PLUS 1

Set of 9 hexagonal long bent steel wrenches with chrome-plated finish, spherical end on the long side and hexagonal profile with increased bearing surface HexPlus. The durable clip material guarantees a perfect hold of the wrenches and easy removal.



Composition:

950 PKL Hexagon wrenches 1,5x90 - 2x100 - 2,5x112 - 3x126 - 4x140 - 5x160 - 6x180 - 8x200 - 10x219 mm

Tech. Code	Pieces
E226609	9

LONG HEXAGONAL WRENCHES WITH BALL HEAD

WODEX

NEW

ITEM: WX2575

Premium quality hexagonal wrenches **Made in Germany** with spherical end on the long side that allows working at angles of up to 25° to the screw axis. Particularly tough chrome-vanadium steel with anti-corrosive **Grey OSD** surface treatment.



Tech. Code	⬣ mm	a mm	L mm
E230501,5	1,5	14	81
E230502	2	18	87
E230502,5	2,5	19	92
E230503	3	22	103
E230504	4	29	114

Tech. Code	⬣ mm	a mm	L mm
E230505	5	32	133
E230506	6	36	156
E230508	8	43	178
E230510	10	50	200
E230512	12	57	226

NEW

ITEM: WX2575/S9

Premium Quality **Made in Germany** wrench sets complete with practical high quality plastic case.



Composition:

WX2575 Hexagon wrenches 1.5x81 - 2x87 - 2.5x92 - 3x103 - 4x114 - 5x133 - 6x156 - 8x178 - 10x200 mm

Tech. Code	Pieces
E230609	9

ITEM: WX2580

Long hexagonal wrenches with spherical end on the long side that allows working at angles up to 25° to the screw axis. The careful chrome plating guarantees high protection against corrosion.



Tech. Code	⬣ mm	a mm	L mm
E230701,5	1,5	14	90
E230702	2	16	100
E230702,5	2,5	18	112
E230703	3	20	126
E230704	4	25	140

Tech. Code	⬣ mm	a mm	L mm
E230705	5	28	160
E230706	6	32	180
E230708	8	36	200
E230710	10	40	224

ITEM: WX2580/S9

Complete set of keys in a practical **PREMIUM QUALITY** two-component case.



Composition:

WX2580 Hexagon wrenches 1,5x90 - 2x100 - 2,5x112 - 3x126 - 4x140 - 5x160 - 6x180 - 8x200 - 10x224 mm

Tech. Code	Pieces
E230809	9

LONG HEXAGONAL WRENCHES WITH BALL HEAD AND MAGNET

WODEX

ITEM: WX2602

Long hexagonal wrenches with ball head and permanent magnet. The magnet inserted in the long side conveniently and securely holds steel screws even in a vertical position, while the spherical end allows operation at angles of up to 25° to the screw axis. The careful chrome-plating guarantees high protection against corrosion and the additional non-slip thermo-painting ensures quick identification thanks to the colour coding. Sizes 1.5 - 2 - 2.5 mm are without magnet.



Tech. Code	⬣ mm	a mm	L mm
E231001,5	1,5	14	90
E231002	2	16	100
E231002,5	2,5	18	112
E231003	3	20	126
E231004	4	25	140

Tech. Code	⬣ mm	a mm	L mm
E231005	5	28	160
E231006	6	32	180
E231008	8	36	200
E231010	10	40	224

ITEM: WX2602/S9

Complete set of keys in a practical **PREMIUM QUALITY** two-component case.



Composition:

WX2602 Hexagonal wrenches 1,5x90 - 2x100 - 2,5x112 - 3x126 - 4x140 - 5x160 - 6x180 - 8x200 - 10x224 mm

Tech. Code	Pieces
E231109	9

LONG HEXAGONAL WRENCHES WITH BALL HEAD IN KIT



ITEM: 950/9 HEX-PLUS MULTICOLOUR 1

Set of 9 wrenches 950 SPKL steel with BlackLaser finish long hexagonal taps with spherical end and plastic sleeve. All wrenches are within easy reach thanks to the colour coding indicating their size. The durable clip material guarantees a perfect hold of the wrenches and their easy removal.

Composition:

950 SPKL COLOR Hexagon wrenches 1,5x90 - 2x101 - 2,5x112 - 3x123 - 4x137 - 5x154 - 6x172 - 8x195 - 10x224 mm

Tech. Code	Pieces
E226109	9

LONG HEXAGONAL WRENCHES WITH RETAINING FEATURE IN KIT



ITEM: 950/9 HEX-PLUS MULTICOLOUR HF 1

Set of 9 wrenches (3 x 950 SPKL + 6 x 950 SPKL HF) in steel with BlackLaser finish long hexagonal taps with ball end and plastic sleeve. All wrenches are within easy reach thanks to the colour coding with size indication. The durable clip material guarantees a perfect hold of the wrenches and their easy removal. The retaining function (available in sizes 3 to 10 mm) prevents screws from falling out of the tool.

Composition:

950 SPKL COLOR Hexagon wrenches 1,5x90 - 2x101 - 2,5x112 mm

950 SPKL HF COLOR Hexagon wrenches 3x123 - 4x137 - 5x154 - 6x172 - 8x195 - 10x224 mm

Tech. Code	Pieces
E226209	9

LONG HEXAGONAL WRENCHES WITH BALL HEAD IN KIT

NEW



ITEM: 950/9 HEX-PLUS MULTICOLOUR 3

Set of 9 wrenches 950 SPKL steel with BlackLaser finish long hexagonal taps with ball end and plastic sleeve. All wrenches are within easy reach thanks to colour coding with size indication.
The kit includes a practical holder with clip and magnetiser to be placed on the bench or fixed to a wall, if necessary the clip can be removed for mobile use.

Composition:

950 SPKL Hexagon wrenches 1,5x90 - 2x101 - 2,5x112 - 3x123 - 4x137 - 5x154 - 6x172 - 8x195 - 10x224 mm

9539 Hexagon spanner clips with plastic sleeve

9109 Holder for clips to be placed on the bench or fixed to the wall

9538 Tool magnetiser/dagnetiser

Tech. Code	Pieces
E226310	9 + 1

LONG HEXAGONAL WRENCHES WITH BALL HEAD SIZES IN INCHES



ITEM: 950 PKL INCH

Hexagonal wrenches in inch sizes, long bent steel with BlackLaser surface treatment, ball end on long side. Hexagon profile with increased bearing surface hex-plus (Size 0.05" and 1/16" standard hexagon profile).

Tech. Code	⬣ in	⬣ mm	a mm	L mm
E226910	0,05	1,27	14	83
E226915	1/16	1,59	15	92
E226920	5/64	1,98	13	100
E226925	3/32	2,38	18	112
E226930	7/64	2,78	19	119
E226935	1/8	3,18	20	126
E226940	9/64	3,57	23	132

Tech. Code	⬣ in	⬣ mm	a mm	L mm
E226945	5/32	3,97	25	140
E226950	3/16	4,76	25	160
E226955	7/32	5,56	27	180
E226960	1/4	6,35	34	190
E226965	5/16	7,94	36	200
E226970	3/8	9,53	38	212
E226975	1/2	12,70	40	224



ITEM: 950/9 HEX-PLUS IMPERIAL 1

Set of hexagonal L keys complete with practical case in wear-resistant plastic material.

Composition:

950 PKL Hexagon wrenches 5/64" - 3/32" - 1/8"- 5/32" - 3/16" - 7/32"- 1/4"- 5/16"- 3/8"

Tech. Code	Pieces
E227009	9

HEXAGONAL LONG WRENCHES INCH SIZES IN KIT



ITEM: 950/13 HEX-PLUS IMPERIAL 1

Set of hexagonal L keys complete with practical case in wear-resistant plastic.

Composition:

950 PKL Hexagonal wrenches 0.05" - 1/16" - 5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"

Tech. Code	Pieces
E227113	13

HEXAGONAL WRENCHES WITH EXTRA SHORT SIDE IN KIT



ITEM: 950/9 HEX-PLUS 4

Set of 9 wrenches 950 PKL chrome-plated steel hexagonal wrenches with extra short side for working in hard-to-reach places, long side with ball end. The durable clip material guarantees a perfect hold of the wrenches and their easy removal.

Composition:

950 PKLS Hexagon wrenches 1,5x90 - 2x100 - 2,5x112 - 3x126 - 4x140 - 5x160 - 6x180 - 8x200 - 10x219 mm

Tech. Code	Pieces
E226709	9

HEXAGONAL SCREWDRIVERS



ITEM: 354

Hexagonal matt chrome-nickel steel screwdrivers with Black Point tip. Kraftform Plus 300 series multi-component anti-roll handle.

Tech. Code	⬣ mm	a mm	L mm
E250002	2	75	145
E250002,5	2.5	75	156
E250003	3	75	156
E250004	4	75	173

Tech. Code	⬣ mm	a mm	L mm
E250005	5	80	185
E250006	6	80	185
E250008	8	100	212

MICRO HEXAGONAL SCREWDRIVERS



ITEM: WX2847

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for hexagonal socket head screws, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	⬣ mm	Blade Ø mm	a mm	L mm
E25500,9X60	0.9	2.5	60	155
E25501,3X60	1.3	2.5	60	155
E25501,5X60	1.5	2.5	60	155

Tech. Code	⬣ mm	Blade Ø mm	a mm	L mm
E25502,0X60	2.0	2.5	60	155
E25502,5X60	2.5	3.0	60	155
E25503,0X60	3.0	4.0	60	155



ITEM: WX2847/S6

Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with plastic holder.

Composition:

⬣ **WX2847** 0.9x60 - 1.3x60 - 1.5x60 - 2.0x60 - 2.5x60 - 3.0x60 mm

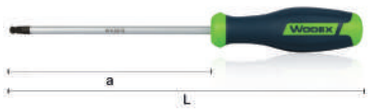
Tech. Code	Pieces
E255506	6

HEXAGONAL SCREWDRIVERS WITH BALL END

WODEX

ITEM: WX2810

PREMIUM QUALITY hexagonal screwdrivers with ball head, blades made of chrome vanadium steel with satin finish, **BLACK-TIP** hardened precision tips with surface hardness 58 ± 2 HRC and 20% higher torque than DIN 8764. Hypo-allergenic, non-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** for maximum strength for fast and precise work. Size identification on the head of the handle. Compliant with RoHS and REACH directives.



Tech. Code	⬣ mm	a mm	L mm
E251902,5	2.5	100	185
E251903	3	125	210
E251904	4	125	225

Tech. Code	⬣ mm	a mm	L mm
E251905	5	150	255
E251906	6	150	265

ITEM: WX2810/S5

Composition:

WX2810 2.5x100 - 3x125 - 4x125 - 5x150 - 6x150 mm

Tech. Code	Pieces
E252205	5

Boxed set



HEXAGONAL SCREWDRIVERS WITH BALL HEAD

Wera

ITEM: 352

Hexagonal screwdrivers with matt chrome-nickel steel ball end and Black Point tip.

Kraftform Plus multi-component anti-roll handle (size 12 mm with single-component handle).



Tech. Code	⬣ mm	a mm	L mm
E25201,5	1.5	60	130
E252002	2	100	170
E252002,5	2.5	100	181
E252003	3	100	181
E252004	4	100	198

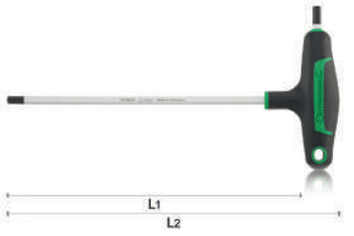
Tech. Code	⬣ mm	a mm	L mm
E252005	5	100	205
E252006	6	125	230
E252008	8	150	262
E252010	10	150	262
E252012	12	150	267

HEXAGONAL WRENCHES WITH HANDLE

STAHLWILLE

ITEM: 10768

Hexagonal wrenches made of chrome vanadium steel, ergonomic two-component handle.



Tech. Code	⬣ mm	L1 mm	L2 mm
E256902	2	100	125
E256902,5	2,5	100	125
E256903	3	150	174
E256904	4	150	176

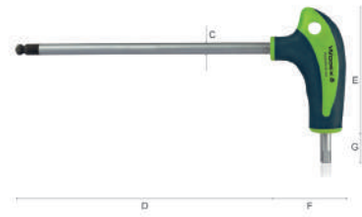
Tech. Code	⬣ mm	L1 mm	L2 mm
E256905	5	200	227
E256906	6	200	228
E256908	8	200	235
E256910	10	200	235

HEXAGONAL WRENCHES WITH HANDLE

WODEX

ITEM: WX2750

PREMIUM QUALITY hexagonal tap wrenches with ball end, hypoallergenic and non-slip **ERGOFORM** bi-component handles, made of **SANTOPRENE**® with high density PolyPropylene core. Hexagonal blades made of special chrome-vanadium steel with satin finish.



Tech. Code	⬣ mm	C mm	D mm	E mm	F mm	G mm
E256002,5	2,5	3	110	55	32	15
E256003	3	3,5	110	55	32	15
E256004	4	5	110	55	32	15

Tech. Code	⬣ mm	C mm	D mm	E mm	F mm	G mm
E256005	5	6	160	75	46	18
E256006	6	7	160	75	46	18
E256008	8	9,5	200	75	46	18

ITEM: WX2750/S6



Composition:

WX2750 2.5 - 3 - 4 - 5 - 6 - 8 mm

Tech. Code	Pieces
E256306	6

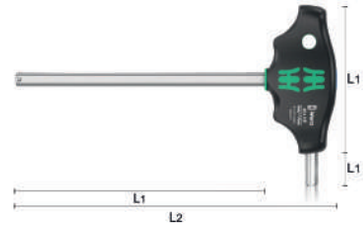
Boxed set

HEXAGONAL WRENCHES WITH HANDLE

Wera

ITEM: 454 - 454 HF

Hex-Plus hexagonal wrenches with bi-component handle and retaining function that holds the screw by means of a spring-loaded ball. The retaining function is located at the end of the long side of the tool.



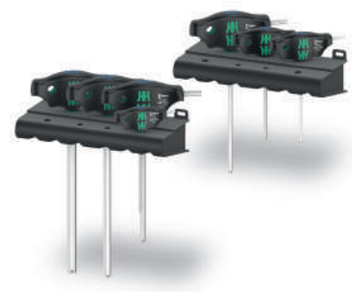
Tech. Code	⬣ mm	a mm	b mm	L1 mm	L2 mm
E256502100	2	65	12	100	32
E256502,5100	2,5	65	12	100	32
E256503100	3	77	15	100	38
E256504100	4	77	15	100	38
E256504150	4	77	15	150	38
E256504200	4	77	15	200	38
E256505100	5	99	20	100	49
E256505150	5	99	20	150	49
E256505200	5	99	20	200	49

Tech. Code	⬣ mm	a mm	b mm	L1 mm	L2 mm
E256506100	6	99	20	100	49
E256506150	6	99	20	150	49
E256506200	6	99	20	200	49
E256507200	7	99	20	200	49
E256508100	8	99	20	100	49
E256508150	8	99	20	150	49
E256508200	8	99	20	200	49
E256510100	10	99	20	100	49
E256510200	10	99	20	200	49

For 2 mm and 2.5 mm wrenches, the retaining funcition is not provided.

ITEM: 454/7 HF SET 1

Set of 7 hexagonal wrenches with handle and 2 practical wall brackets



Composition:

454 Hexagon wrenches 2.5x100 mm
454 HF Hexagon wrenches 3x100 - 4x100 - 5x150 - 6x150 - 8x200 - 10x200 mm
RACK Wall brackets 190x50 mm (2 Pcs)

Tech. Code	Pieces
E256607	7 + 2

ITEM: 454/7 HF 2

Set of 7 hexagonal wrenches with handle and practical metal holder



Composition:

454 Hexagon wrenches 2.5x100 mm
454 HF Hexagon wrenches 3x100 - 4x100 - 5x150 - 6x150 - 8x200 - 10x200 mm
9604 Metal support 214x78 mm

Tech. Code	Pieces
E256707	7 + 1

HEXAGONAL T-HANDLE WRENCHES WITH SLIDING ROD

WODEX

ITEM: WX2700

Hexagonal T-handle wrenches with sliding sleeve for hexagon socket screws, the high quality of the materials combined with particularly accurate workmanship guarantee very high tightening torques.

Features:

- High-alloyed chrome vanadium special steel
- Safety catches that prevent the sliding rod from being pulled out
- Ends dimensioned for perfect coupling with the screw
- Chrome-plated finish



Tech. Code	⬣ mm	a mm	L mm
E265002	2	65	125
E265002,5	2.5	65	125
E265003	3	65	125
E265003,5	3.5	65	125
E265004	4	90	180
E265005	5	90	180

Tech. Code	⬣ mm	a mm	L mm
E265006	6	105	210
E265007	7	105	210
E265008	8	125	250
E265010	10	145	300
E265012	12	165	320
E265014	14	170	340

ITEM: WX2700/S7 - WX2700/S8 - WX2700/S10 - WX2700/S12



Composition:

WX2700/S7 T-handle wrenches Hex 2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm
WX2700/S8 T-handle wrenches Hex 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
WX2700/S10 T-handle wrenches Hex 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 mm
WX2700/S12 T-handle wrenches Hex 2 - 2,5 - 3 - 3,5 - 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 mm

Tech. Code	Pieces
E265207	7
E265208	8
E265210	10
E265212	12

Boxed set

HEXAGONAL T-HANDLE WRENCHES WITH SLIDING ROD

WODEX

NEW

ITEM: WX2702

T-handle hexagonal wrenches with sliding sleeve for hexagon socket screws, the high quality of the materials combined with particularly accurate workmanship guarantee very high tightening torques.

Features:

- High-alloyed chrome vanadium special steel
- Safety catches that prevent the sliding rod from being pulled out
- Ends dimensioned for perfect fit with the screw
- Chrome-plated finish with burnished ends



Tech. Code	⬣ mm	a mm	L mm
E265502	2	65	125
E265502,5	2,5	65	125
E265503	3	65	135
E265504	4	90	180

Tech. Code	⬣ mm	a mm	L mm
E265505	5	90	180
E265506	6	105	210
E265508	8	125	250
E265510	10	145	300

ITEM: WX2702/S6 - WX2702/S8

NEW



Composition:

WX2702/S6 Hex T-handle wrenches 2.5 - 3 - 4 - 5 - 6 - 8 mm
Wx2702/S8 T-handle wrenches Hex 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Tech. Code	Pieces
E265706	6
E265708	8

ADJUSTABLE T-HANDLE WRENCHES WITH HEXAGONAL TAP

ITEM: WX2745

Standard ISO 1171-1 C

Wrenches **PREMIUM QUALITY** in chrome-vanadium steel with male hex driver and universal joint. The high precision and high quality of the materials ensure tightening torques higher than those specified in the ISO reference standard. The universal joint is fitted with a spring for controlled positioning and can be tilted by up to 50°.
Sliding bar with limit stops. Chrome-satin finish with phosphate coated joints.



Tech. Code	O mm	a mm	L mm
E266803	3	165	395
E266804	4	165	395
E266805	5	165	395

Tech. Code	O mm	a mm	L mm
E266806	6	180	445
E266808	8	180	445
E266810	10	180	480

ITEM: WX2745/S5 - WX2745/S6

Standard ISO 1171-1 C

Composition:

WX2745/S5 3 - 4 - 5 - 6 - 8 mm

WX2745/S6 3 - 4 - 5 - 6 - 8 - 10 mm



Tech. Code	Pieces
E266905	5
E266906	6

Boxed set

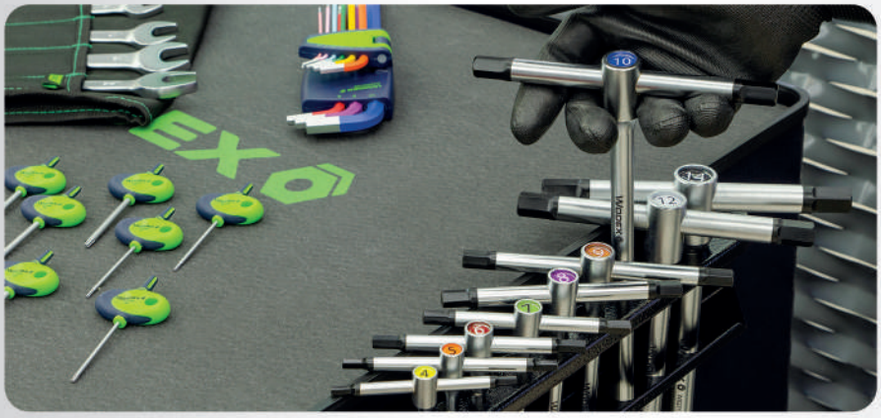
WODEX mro

Perfect ergonomics

QUICK TOOL IDENTIFICATION

The colour coded rapid tool identification system makes choosing the correct tool very quick and easy, maximizing productivity and optimising the operator's time.

FastID saves you time when carrying out manual work with low added value and high operator cost.





HEXAGONAL T-HANDLE WRENCHES WITH FIXED SHAFT

WODEX

ITEM: WX2717

Premium Quality T-handles with fixed t-handle for hexagon socket screws. High-quality materials combined with particularly accurate workmanship guarantee very high tightening torques. Wrenches with colour coding function for quick selection of the correct size.



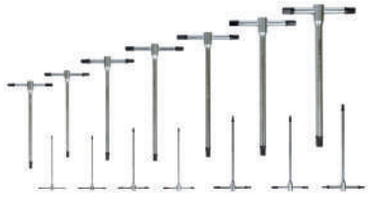
Features:

High-alloy chrome vanadium steel 58CrV4
Oil hardening treatment
Surface hardness 53-54 HRC
Torque resistance exceeding ISO 2936
Ends dimensioned for perfect fit with the screw
Chrome-plated finish with phosphated ends

Tech. Code	⬣ mm	a mm	L mm
E264302	2	66	130
E264302,5	2.5	66	130
E264303	3	76	150
E264303,5	3.5	76	150
E264304	4	91	180
E264304,5	4.5	91	180
E264305	5	105	210

Tech. Code	⬣ mm	a mm	L mm
E264306	6	105	210
E264307	7	105	210
E264308	8	126	250
E264309	9	140	280
E264310	10	150	300
E264312	12	160	330
E264314	14	170	340

ITEM: WX2717/S7 - WX2717/S8 - WX2717/S10 - WX2717/S14



Composition:

WX2717/S7 T-handle wrenches Hex 2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm
WX2717/S8 T-handle wrenches Hex 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
WX2717/S10 T-handle wrenches Hex 2 - 2,5 - 3 - 3,5 - 4 - 5 - 6 - 8 - 10 - 12 mm
WX2717/S14 Hex T-handle wrenches 2 - 2,5 - 3 - 3,5 - 4 - 4,5 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 mm

Tech. Code	Pieces
E264407	7
E264408	8
E264410	10
E264414	14

Boxed set

HEXAGONAL T-HANDLE WRENCHES WITH FIXED SHAFT

WODEX

NEW



ITEM: WX2719

Premium Quality T-handle wrenches with fixed t-handle for hexagon socket screws. High-quality materials combined with particularly accurate workmanship guarantee very high tightening torques.

Features.

High-alloy chrome vanadium steel 58CrV4
Oil hardening treatment
Surface hardness 51-52 HRC
Torque resistance exceeding ISO 2936
Ends dimensioned for perfect fit with the screw
Chrome-plated finish
Ends burnished fine to size 7 mm

Tech. Code	⬣ mm	a mm	L mm
E264602	2	65	125
E264602,5	2.5	65	125
E264603	3	65	135
E264603,5	3.5	65	135
E264604	4	90	180
E264604,5	4.5	90	180
E264605	5	90	180

Tech. Code	⬣ mm	a mm	L mm
E264606	6	105	210
E264607	7	105	210
E264608	8	125	250
E264609	9	145	300
E264610	10	145	300
E264612	12	160	320
E264614	14	170	340



NEW

ITEM: WX2719/S7 - WX2719/S8 - WX2719/S10 - WX2719/S14

Composition:

WX2719/S7 T-handle wrenches Hex 2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm
WX2719/S8 T-handle wrenches Hex 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
WX2719/S10 T-handle wrenches Hex 2 - 2,5 - 3 - 3,5 - 4 - 5 - 6 - 8 - 10 - 12 mm
WX2719/S14 T-handle wrenches Hex 2 - 2,5 - 3 - 3,5 - 4 - 4,5 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 mm

Tech. Code	Pieces
E264707	7
E264708	8
E264710	10
E264714	14

TORX® WRENCHES

WODEX

NEW



ITEM: WX2907

Premium Quality Made in Germany Torx® wrenches, long series with spherical end on the long side that allows work in hard-to-reach spaces. Particularly tough chrome-vanadium steel with anti-corrosive **Grey OSD** surface treatment.

Tech. Code	✪	a mm	L mm
E333009	T9	19	67
E333010	T10	20	76
E333015	T15	20	86
E333020	T20	22	98

Tech. Code	✪	a mm	L mm
E333025	T25	22	100
E333027	T27	25	111
E333030	T30	30	125
E333040	T40	33	139



NEW

ITEM: WX2907/S8

Premium Quality Wrenches Sets Made **in Germany** complete with practical high quality plastic case.

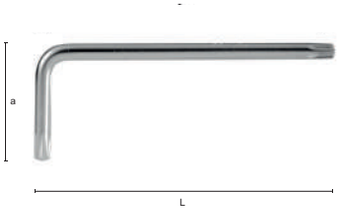
Composition:

WX2907 TORX® wrenches T9x67 - T10x76 - T15x86 - T20x98 - T25x100 - T27x111 - T30x125 - T40x139 mm

Tech. Code	Pieces
E333108	8

L KEYS FOR TORX® SCREWS

ITEM: E3350
L keys for Torx® screws in satin chrome-vanadium steel.



Tech. Code	✪	a mm	L mm
E335006	T6	18,5	44,5
E335007	T7	18,5	50,5
E335008	T8	19	51
E335009	T9	19	51
E335010	T10	20	54
E335015	T15	21,5	57,5
E335020	T20	23	61

Tech. Code	✪	a mm	L mm
E335025	T25	24,5	64,5
E335027	T27	26,5	69,5
E335030	T30	30	76
E335040	T40	33	83
E335045	T45	37	91
E335050	T50	41	104

While stocks last

ITEM: E3352

Set of L keys with practical plastic case.

Composition:
E3350 T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40



Tech. Code	Pieces
E335208	8

SCREWDRIVERS FOR TORX® SCREWS WITH POCKET SUPPORT IN SET

ITEM: E3359

Set of 8 screwdrivers for Torx® screws burnished in high quality chrome vanadium steel in a pocket holder in bi-component plastic with **device for easy opening of the screwdrivers.**

Composition:
T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40



Tech. Code	Pieces
E335908	8

TORX® WRENCHES IN KIT

ITEM: 36503

Set of 13 long keys for TORX® screws with Wiha MagicSpring® holding function that locks all screws without the use of magnets. Keys in high performance steel with black oxidation.
Composition:
366 T5x72
366R T6x80 - T7x88 - T8x101 - T9x111 - T10x121 - T15x136 - T20x148 - T25x163 - T27x176 - T30x191 - T40x210 - T45x232 mm



Tech. Code	Pieces
E336013	13

Size T5 does not have the MagicSpring® retainer feature

TORX® WRENCHES

ITEM: 967 PKL TORX®
967 PKL L keys in steel with BlackLaser finish for TORX® screws, long series with ball point end.
Sizes T8 - T9 - T10 have no ball point end.



Tech. Code	✪	a mm	L mm
E336308	T8	16	76
E336309	T9	16	79
E336310	T10	17	85
E336315	T15	18	90
E336320	T20	19	96

Tech. Code	✪	a mm	L mm
E336325	T25	21	104
E336327	T27	22	112
E336330	T30	24	122
E336340	T40	27	132

LONG L KEYS FOR TORX® SCREW WITH BALL POINT END IN SET

Wera

ITEM: 967/9 TX 1



Composition:
967 PKL TORX® wrenches T8x76 - T9x79 - T10x85 - T15x90 - T20x96 - T25x104 - T27x112 - T30x122 - T40x132 mm

Tech. Code	Pieces
E336509	9

ITEM: 967/9 TX MULTICOLOUR HF 1



Set of 9 967 SL TORX® HF wrenches with retaining clip, made of steel with BlackLaser finish and multi-coloured plastic sleeve, for TORX®-head screws. The resistant clip material guarantees a perfect hold of the wrenches and their easy removal.
The retaining function prevents screws from falling out of the tool.

Composition:
967 SL HF TORX® wrenches T8x76 - T9x79 - T10x85 - T15x90 - T20x96 - T25x104 - T27x112 - T30x122 - T40x132 mm

Tech. Code	Pieces
E336609	9

ITEM: 967/9 TX XL MULTICOLOUR HF 1



Set of 9 967 SXL TORX® HF wrenches with retaining clip, made of steel with BlackLaser finish and multi-coloured plastic sleeve, for TORX®-head screws. The resilient clip material guarantees a perfect hold of the wrenches and their easy removal.

The retaining function prevents screws from falling out of the tool.

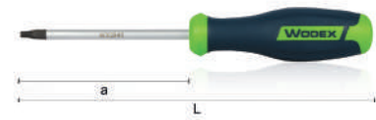
Composition:
967 SXL HF TORX® wrenches T8x90 - T9x101 - T10x112 - 15x123 - T20x137 - T25x154 - T27x172 - T30x195 - T40x224 mm

Tech. Code	Pieces
E336409	9

SCREWDRIVERS FOR TORX® SCREWS

WODEX

ITEM: WX2940



Screwdrivers **PREMIUM QUALITY** for TORX® screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Tech. Code	○	a mm	L mm
E336806	T6	75	160
E336807	T7	75	160
E336808	T8	75	160
E336809	T9	75	160
E336810	T10	100	205
E336815	T15	100	205

Tech. Code	○	a mm	L mm
E336820	T20	100	205
E336825	T25	100	215
E336827	T27	100	215
E336830	T30	100	215
E336840	T40	100	215

ITEM: WX2940/S9 - WX2940/S11



Composition.
WX2940/S9 T8x75 - T9x75 - T10x100 - T15x100 - T20x100 - T25x100 - T27x100 - T30x100 - T40x100 mm
WX2940/S11 T6x75 - T7x75 - T8x75 - T9x75 - T10x100 - T15x100 - T20x100 - T25x100 - T27x100 - T30x100 - T40x100 mm

Tech. Code	Pieces
E337309	9
E337311	11

Boxed set

SCREWDRIVERS FOR TORX® SCREWS 367

ITEM: 367 TORX®
Screwdrivers for Torx® screws blade in matt nickel-chrome and Black-Point. **Kraftform Plus** grip handle multi-component anti-rolling.



Tech. Code	○	a mm	L mm
E340005	T5	60	130
E340006	T6	60	130
E340007	T7	60	130
E340008	T8	60	141
E340009	T9	60	141
E340010	T10	80	161

Tech. Code	○	a mm	L mm
E340015	T15	80	178
E340020	T20	100	198
E340025	T25	100	205
E340027	T27	115	220
E340030	T30	115	220
E340040	T40	130	242

ITEM: 367/6 TORX®

Screwdrivers for Torx® screws blade in matt nickel-chrome and Black-Point. **Kraftform Plus** grip handle multi-component anti-rolling.

Set of screwdrivers with wall support.

Composition:
○ **367 TORX®** T10x80 - T15x80 - T20x100 - T25x100 - T30x115 - T40x130



Tech. Code	Pieces
E341506	6

MICRO SCREWDRIVERS FOR TORX® SCREWS

ITEM: WX2947
Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for TORX® screws, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

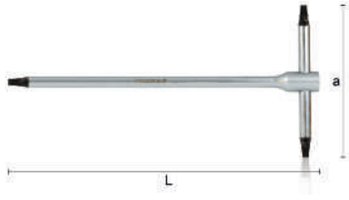


Tech. Code	○	Blade Ø mm	a mm	L mm
E341405X60	T5	2.5	60	155
E341406X60	T6	2.5	60	155
E341407X60	T7	2.5	60	155
E341408X60	T8	3.0	60	155

Tech. Code	○	Blade Ø mm	a mm	L mm
E341409X60	T9	3.0	60	155
E341410X60	T10	3.0	60	155
E341415X60	T15	4.0	60	155
E341420X60	T20	4.0	60	155

T-HANDLE WRENCHES WITH FIXED SHAFT FOR TORX® SCREWS

ITEM: WX2927
Premium Quality T-handle spanners with fixed **t-handle** for **Torx®** and **Torx® Tamper Resistant** screws on the right side of the t-handle. High-quality materials combined with particularly accurate workmanship guarantee very high tightening torques. Keys with colour identification function for quick selection of the correct size.
Features:
- High-alloyed chrome vanadium steel 58CrV4
- Hardening treatment in oil
- Surface hardness 53 HRC
- Torsion resistance exceeding ISO 2936
- Ends dimensioned for perfect coupling with the screw
- Chrome-plated finish with phosphated ends



Tech. Code	○	⊙	a mm	L mm
E346010	T10	T10	76	150
E346015	T15	T15	76	150
E346020	T20	T20	90	180
E346025	T25	T25	90	180
E346027	T27	T27	105	210

Tech. Code	○	⊙	a mm	L mm
E346030	T30	T30	105	210
E346040	T40	T40	125	250
E346045	T45	T45	125	250
E346050	T50	T50	150	300

ITEM: WX2927/S6 - WX2927/S9

Composition:
WX2927/S6 T10 - T15 - T20 - T25 - 27 - T30
WX2927/S9 T10 - T15 - T20 - T25 - 27 - T30 - T40 - T45 - T50



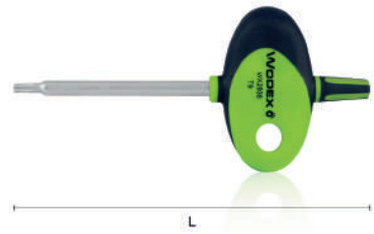
Tech. Code	Pieces
E346106	6
E346109	9

FLAGDRIVERS FOR TORX® SCREWS

WODEX

ITEM: WX2938

Flagdrivers **PREMIUM QUALITY** for TORX® screws, chrome-vanadium steel blades and precision hardened tips. The flag type handle is recommended when using small screws with a high closing torque, especially when replacing turning and milling inserts.



Tech. Code	○	L mm
E355006	T6	50
E355007	T7	50
E355008	T8	50
E355009	T9	50

Tech. Code	○	L mm
E355010	T10	50
E355015	T15	50
E355020	T20	50

ITEM: WX2938/S7

Composition:

WX2938 T6x50 - T7x50 - T8x50 - T9x50 - T10x50 - T15x50 - T20x50 mm



Tech. Code	Pieces
E355107	7

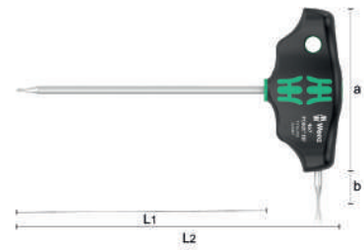
Boxed set

HEXAGONAL WRENCHES WITH HANDLE FOR TORX® SCREWS

Wera

ITEM: 467 TORX® HF

Wrenches with two-component handle and retaining function for TORX®-tapered screws. Wera's HF retaining function holds the screw securely at the tip of the tool thanks to a special blade geometry.



Tech. Code	○	a mm	b mm	L1 mm	L2 mm
E345006100	T6	65	12	100	32
E345007100	T7	65	12	100	32
E345008100	T8	65	12	100	32
E345009100	T9	65	12	100	32
E345010100	T10	65	12	100	32
E345015100	T15	77	15	100	38
E345020100	T20	77	15	100	38

Tech. Code	○	a mm	b mm	L1 mm	L2 mm
E345020200	T20	77	15	200	38
E345025100	T25	77	15	100	38
E345025200	T25	77	15	200	38
E345027200	T27	99	20	200	49
E345030200	T30	99	20	200	49
E345040200	T40	99	20	200	49
E345045200	T45	99	20	200	49

ITEM: 467/7 TORX® HF SET 1

Set of 7 wrenches with TORX® handle for TORX® screws and 2 wall brackets

NEW



Composition:

467 TORX® HF TORX® wrenches T10x100 - T15x100 - T20x100 - T25x100 - T30x200 - T40x200 - T45x200 mm

RACK Wall brackets 190x50 mm (2 Pcs)

Tech. Code	Pieces
E345207	7 + 2

ITEM: 467/7 TORX® HF SET 2

Set of 7 wrenches with TORX® handle for TORX® screws and a 214x78 mm metal bench support



Composition:

467 TORX® HF TORX® wrenches T10x100 - T15x100 - T20x100 - T25x100 - T30x200 - T40x200 - T45x200 mm

9606 Metal bench stand 214x78 mm

Tech. Code	○
E345407	7 + 1

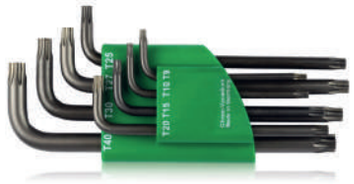
L KEYS FOR TAMPER TORX® SCREWS IN A SET

ITEM: E3371/S8

Set of 8 bent tap wrenches for Tamper-Torx® screws in chrome vanadium steel with plastic case.

Composition:
E3371/S8 T9x59 - T10x65 - T15x75 - T20x87 - T25x97 - T27x105 - T30x111 - T40x114 mm

Tech. Code	Pieces
E337108	8



TORX® TAMPER SOCKET WRENCHES IN KIT

ITEM: 967/9 TX BO MULTICOLOUR 1

Set of 9 L keys 967 SPKL TORX® BO with axial hole and ball end. Made of steel with BlackLaser finish and multicolour thermoplastic sleeve for Tamper-Torx® screws and safety pin. The wear-resistant clip material ensures secure grip and easy removal of the keys.

Composition:
967 SPKL TORX® COLOR T8x76 - T9x79
967 SPKL TORX® BO COLOR T10x85 - T15x90 - T20x96 - T25x104 - T27x112 - T30x122 - T40x132

Tech. Code	Pieces
E336709	9



SCREWDRIVERS FOR TAMPER TORX® WITH POCKET SUPPORT IN SET

ITEM: E3372/S8

Set of 8 screwdrivers for Tamper-Torx® burnished in high quality chrome vanadium steel inserted in a pocket holder in two-component plastic with **device for easy opening of the screwdrivers.**

Composition:
E3372/S8 T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40

Tech. Code	Pieces
E337208	8



SCREWDRIVERS FOR TAMPER TORX® SCREWS 367 BO

ITEM: 367 TORX® BO
Screwdrivers for Tamper Torx® screws, matt nickel-chrome blade and Black-Point tip.
Multi-component **Kraftform Plus** grip handle. Anti-roll protection.

Tech. Code	⊙	a mm	L mm
E337507	T7	60	130
E337508	T8	60	141
E337509	T9	60	141
E337510	T10	80	141
E337515	T15	80	178

Tech. Code	⊙	a mm	L mm
E337520	T20	100	198
E337525	T25	100	205
E337527	T27	115	220
E337530	T30	115	220
E337540	T40	130	242



TORX PLUS® SCREW WRENCHES IN KIT

ITEM: E3427

Set of 8 wrenches 361IP with Torx Plus® marking in high performance steel with black oxidation.

Composition:
361IP 9IP x 51 - 10IP x 54 - 15IP x 58 - 20IP x 62 - 25IP x 67 - 27IP x 73 - 30IP x 79 - 40IP x 88 mm

Tech. Code	Pieces
E342709	8



SCREWDRIVERS FOR TORX® PLUS SCREWS 367 IP

Wera

ITEM: 367 IP TORX-PLUS®

Screwdrivers for IP Torx-Plus® screws blade in matt nickel-chrome and Black-Point tip. **Kraftform Plus** grip handle multi-component anti-rolling.



Tech. Code	○	a mm	L mm
E343005	5IP	60	130
E343006	6IP	60	130
E343007	7IP	60	130
E343008	8IP	60	130
E343009	9IP	60	141

Tech. Code	○	a mm	L mm
E343010	10IP	80	161
E343015	15IP	80	178
E343020	20IP	100	198
E343025	25IP	100	205
E343030	30IP	115	220

KEYS FOR ELECTRICAL PANELS AND CABINETS

WODEX

ITEM: WX1970

Universal multifunction keys for electrical cabinets and panels, zinc alloy body with plastic insert holder.



Features:

- Square wrenches 5 - 6 - 8 mm
- Triangular key 9 mm
- Wing spanner Ø 3 - 5 mm
- Bit holder for 1/4" hexagonal bits according to DIN ISO 1173-C 6.3
- Phillips® PH2 and slotted insert 7x1.2 mm

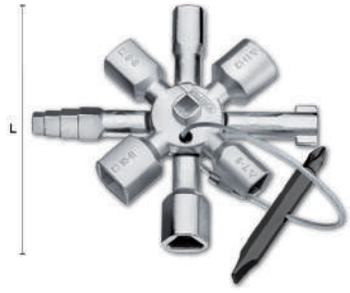
Tech. Code	L mm	Weight g
E357000	72	68

MULTI-TASKING TWINKEY® WRENCHES

KNIPEX

ITEM: 00 11 01 TWINKEY®

Multi-tasking universal wrenches for electrical panels and cabinets, for closing systems of gas and water, air conditioning and building ventiliation systems, shut off valves.
Version with 2 wrenches joined by a magnet.



Features:

- 5 / 6 - 7 / 8 - 9 / 10 - 11 mm
- 7 - 8 / 9 10 / 11 - 12 mm
- 3 - 5 mm
- 6 mm
- 6 - 9 mm
- Insert holders 1/4" HEX
- Phillips® inserts PH2 slotted inserts 7x1,2 mm

Tech. Code	L mm	Weight g
E358001	92	135

WRENCHES FOR ELECTRICAL PANELS AND CABINETS

KNIPEX

ITEM: 00 11 02 - 00 11 03



Features E358202 - 00 11 02:

- 6 - 8 mm
- 9 mm
- 3 - 5 mm
- Bits holder 1/4" HEX
- Phillips® bits PH2 and slotted bits 7x1,2 mm

Features E358203 - 00 11 03:

- 5 - 6 - 8 mm
- 9 mm
- 3 - 5 mm
- Bits holder 1/4" HEX
- Phillips® bits PH2 and slotted bits 7x1,2 mm

Tech. Code	L mm	Weight g
E358202	44	65
E358203	76	88

WRENCHES FOR ELECTRICAL PANELS AND CABINETS

KNIPEX

ITEM: 00 11 07



Features:

- 5 - 6 - 8 mm
- 9 mm
- 3 - 5 mm
- Magnetic bit holder 1/4" HEX
- Phillips® insert PH2 e a taglio 7x1,2 mm
- Torx insert® T20 e T25
- Pocket clilp

Tech. Code	L mm	Weight g
E359007	145	95

POLYGONAL SOCKETS 1/4"

WODEX

1/4"

ITEM: WX2000

Standard DIN 3124 ISO 2725-1 DIN EN 3709

Polygonal sockets **PREMIUM QUALITY** high performance chrome-vanadium steel with satin finish. The tight tolerance polygonal **Plus-Drive** profile allows a high force to be transmitted to the shoulders of screws and nuts without damaging them.



Tech. Code	O mm	L mm	External Ø mm
E417104	4	25	6.9
E417104,5	4.5	25	7.5
E417105	5	25	8.2
E417105,5	5.5	25	8.8
E417106	6	25	9.6
E417107	7	25	10.9

Tech. Code	O mm	L mm	External Ø mm
E417108	8	25	12
E417109	9	25	13
E417110	10	25	14
E417111	11	25	16
E417112	12	25	17
E417113	13	25	18

1/4" HEXAGON SOCKET WRENCHES

WODEX

1/4"

ITEM: WX2005

Standard DIN 3124 ISO 2725-1

PREMIUM QUALITY socket wrenches made of high-performance chrome-vanadium steel with chrome-plated finish, hexagonal mouth.



Tech. Code	O mm	L mm	External Ø mm
E417304	4	25	6.9
E417304,5	4.5	25	7.5
E417305	5	25	8.2
E417305,5	5.5	25	8.8
E417306	6	25	9,6
E417307	7	25	10.9

Tech. Code	O mm	L mm	External Ø mm
E417308	8	25	12
E417309	9	25	13
E417310	10	25	14
E417311	11	25	16
E417312	12	25	17
E417313	13	25	18

LONG HEXAGONAL SOCKETS 1/4”

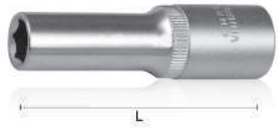
WODEX

1/4"

ITEM: WX2008

Standard DIN 3124 ISO 2725-1

Long hexagonal sockets **PREMIUM QUALITY** in high performance chrome-vanadium steel with satin finish.



Tech. Code	O mm	L mm	External Ø mm
E4176055	5.5	50	8.7
E417606	6	50	9.3
E417607	7	50	10.6

Tech. Code	O mm	L mm	External Ø mm
E417608	8	50	11.9
E417610	10	50	13.8
E417613	13	50	17.8

SOCKET DRIVERS 1/4" FOR HEXAGONAL SOCKET HEAD SCREWS

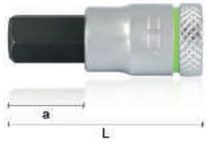
WODEX

1/4"

ITEM: WX2010

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, hexagonal insert in high strength phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E450002	2	12	32
E450002,5	2.5	12	32
E450003	3	12	32
E450004	4	12	32

Tech. Code	◉ mm	a mm	L mm
E450005	5	12	32
E450006	6	12	32
E450008	8	12	32

SOCKET DRIVERS 1/4" FOR HEXAGONAL SOCKET HEAD SCREWS

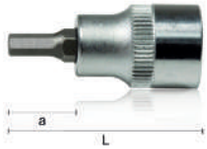
WRK

1/4"

ITEM: E4509

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers in chrome-vanadium steel with satin-chrome finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E45092	2	11.9	32
E45092,5	2.5	11.9	32
E45093	3	11.9	32
E45094	4	11.9	32
E45095	5	11.9	32

Tech. Code	◉ mm	a mm	L mm
E45096	6	11.9	32
E45097	7	11.9	32
E45098	8	11.9	32
E450910	10	11.9	32

While stocks last

SOCKET DRIVERS 1/4" FOR TORX® SCREWS

1/4"

ITEM: WX2020

Standard ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, insert in high strength phosphated steel for Torx® screws



Tech. Code	○	a mm	L mm
E450608	T8	12	32
E450610	T10	12	32
E450615	T15	12	32
E450620	T20	12	32

Tech. Code	○	a mm	L mm
E450625	T25	12	32
E450630	T30	12	32
E450640	T40	12	32

SOCKET DRIVERS 1/4" FOR SLOTTED SCREWS

1/4"

ITEM: WX2030

Standard ISO 2380-1 ISO 1174-1

Socket drivers **PREMIUM QUALITY** high performance chrome-vanadium steel with chrome-satin finish, high strength phosphated steel insert for slotted screws



Tech. Code	⊖ mm	a mm	L mm
E417804	4	12	32
E417805,5	5.5	12	32

Tech. Code	⊖ mm	a mm	L mm
E417806,5	6.5	12	32
E417808	8	12	32

SOCKET DRIVERS 1/4" FOR PHILLIPS® SCREWS

1/4"

ITEM: WX2032

Standard ISO 8764-1 ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with chrome-satin finish, high strength phosphated steel insert for Phillips® screws



Tech. Code	⊕ PH	a mm	L mm
E417901	1	12	32
E417902	2	12	32

Tech. Code	⊕ PH	a mm	L mm
E417903	3	12	32

POLYGONAL SOCKETS 3/8"

3/8"

ITEM: WX2100

Standard DIN 3124 ISO 2725-1 DIN EN 3709

Polygonal sockets **PREMIUM QUALITY** high performance chrome-vanadium steel with satin finish. The tight tolerance polygonal **Plus-Drive** profile allows a high force to be transmitted to the shoulders of screws and nuts without damaging them.



Tech. Code	○ mm	L mm	External Ø mm
E419006	6	28	10
E419007	7	28	11
E419008	8	28	12.2
E419009	9	28	13.5
E419010	10	28	14.7
E419011	11	28	16
E419012	12	28	17
E419013	13	28	18
E419014	14	28	19.7

Tech. Code	○ mm	L mm	External Ø mm
E419015	15	28	21
E419016	16	28	22
E419017	17	30	23.5
E419018	18	30	24.7
E419019	19	30	26
E419020	20	30	27.2
E419021	21	30	28
E419022	22	30	29.7
E419024	24	30	32

HEXAGONAL SOCKET WRENCHES 3/8"

3/8"

ITEM: WX2105

Standard DIN 3124 ISO 2725-1

Socket wrenches **PREMIUM QUALITY** in high performance chrome-vanadium steel with satin chrome finish, hexagonal mouth.



Tech. Code	○ mm	L mm	External Ø mm
E419306	6	28	10
E419307	7	28	11
E419308	8	28	12.2
E419309	9	28	13.5
E419310	10	28	14.7
E419311	11	28	16
E419312	12	28	17
E419313	13	28	18
E419314	14	28	19.7

Tech. Code	○ mm	L mm	External Ø mm
E419315	15	28	21
E419316	16	28	22
E419317	17	30	23.5
E419318	18	30	24.7
E419319	19	30	26
E419320	20	30	27.2
E419321	21	30	28
E419322	22	30	29.7
E419324	24	30	32

HEXAGONAL SOCKETS 3/8"

WRK

3/8"

ITEM: E4180
Standard DIN 3124 ISO 2725-1
Hexagonal sockets chrome-vanadium steel with satin finish.



Tech. Code	○ mm	L mm	External Ø mm
E41806	6	28	9.6
E41807	7	28	11
E41809	9	28	13.5
E418010	10	28	14.7
E418011	11	28	16
E418012	12	28	17.8
E418013	13	28	18.8
E418014	14	28	19.8

Tech. Code	○ mm	L mm	External Ø mm
E418015	15	28	21.8
E418016	16	28	21.8
E418017	17	28	23.8
E418018	18	30	25.8
E418019	19	30	25.8
E418020	20	30	27.8
E418021	21	30	27.8
E418022	22	30	29.8

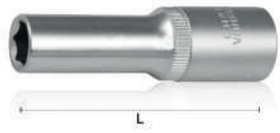
While stocks last

LONG HEXAGONAL SOCKETS 3/8"

WODEX

3/8"

ITEM: WX2108
Standard DIN 3124 ISO 2725-1
STANDARD: DIN 3124 ISO 2725-1
Long hexagonal sockets **PREMIUM QUALITY** in high performance chrome-vanadium steel with satin finish.



Tech. Code	○ mm	L mm	External Ø mm
E419608	8	63	12.2
E419609	9	63	13.5
E419610	10	63	14.7
E419611	11	63	16
E419612	12	63	17.8
E419613	13	63	18.8

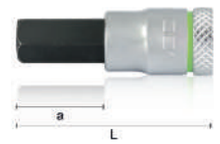
Tech. Code	○ mm	L mm	External Ø mm
E419614	14	63	19.8
E419615	15	63	21.8
E419616	16	63	21.8
E419617	17	63	23.8
E419619	19	63	25.8

SOCKET DRIVERS 3/8" FOR HEXAGONAL SOCKET HEAD SCREWS

WODEX

3/8"

ITEM: WX2110
Standard DIN 7422 ISO 2936 ISO 1174-1
Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, hexagonal insert in high strength phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E451003	3	22	48
E451004	4	22	48
E451005	5	22	48
E451006	6	22	48

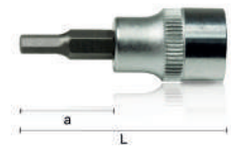
Tech. Code	◉ mm	a mm	L mm
E451007	7	22	48
E451008	8	22	48
E451010	10	22	48

COMBINATION DRIVERS 3/8" FOR HEXAGONAL SOCKET HEAD SCREWS

WRK

3/8"

ITEM: E4527
Standard DIN 7422 ISO 2936 ISO 1174-1
Socket drivers chrome-vanadium steel with satin finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E45273	3	18	48
E45274	4	18	48
E45277	7	18	48

Tech. Code	◉ mm	a mm	L mm
E45278	8	18	48
E452710	10	18	48

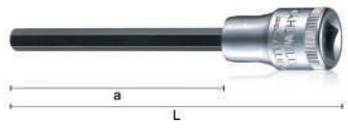
While stocks last

SOCKET DRIVERS 3/8" FOR HEXAGONAL SOCKET HEAD SCREWS

STAHLWILLE

3/8"

ITEM: 2049
Standard DIN 7422
Socket drivers chrome-vanadium steel with chrome finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E451504	4	68	100
E451505	5	68	100
E451506	6	68	100

Tech. Code	◉ mm	a mm	L mm
E451508	8	88	120
E451510	10	88	120

SOCKET DRIVERS 3/8" FOR TORX® SCREWS

WODEX

3/8"

ITEM: WX2120

Standard ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, insert in high strength phosphated steel for Torx® screws



Tech. Code	○	a mm	L mm
E450810	T10	22	48
E450815	T15	22	48
E450820	T20	22	48
E450825	T25	22	48

Tech. Code	○	a mm	L mm
E450827	T27	22	48
E450830	T30	22	48
E450840	T40	22	48

POLYGONAL SOCKETS 1/2"

WODEX

1/2"

ITEM: WX2200

Standard DIN 3124 ISO 2725-1 DIN EN 3709

Polygonal sockets **PREMIUM QUALITY** high performance chrome-vanadium steel with satin finish. The tight tolerance polygonal **Plus-Drive** profile allows a high force to be transmitted to the shoulders of screws and nuts without damaging them.



Tech. Code	○ mm	L mm	External Ø mm
E426108	8	38	14
E426109	9	38	14.3
E426110	10	38	15.5
E426111	11	38	16.7
E426112	12	38	18
E426113	13	38	19.2
E426114	14	38	20.5
E426115	15	38	21.7
E426116	16	38	22
E426117	17	38	24

Tech. Code	○ mm	L mm	External Ø mm
E426118	18	38	25.5
E426119	19	38	26
E426120	20	38	28
E426121	21	38	28
E426122	22	38	30
E426124	24	40	32
E426127	27	42	36
E426130	30	45	40
E426132	32	45	42

POLYGONAL SOCKET 1/2"

WRK

1/2"

ITEM: E4415

Standard DIN 3124 ISO 2725-1

Hexagonal sockets in chrome-vanadium steel with satin finish.



Tech. Code	○ mm	L mm	External Ø mm
E44158	8	38	13
E44159	9	38	14.3
E441510	10	38	15.3
E441511	11	38	16.6
E441512	12	38	17.6
E441513	13	38	19.1
E441514	14	38	20.3
E441515	15	38	21.7
E441516	16	38	21.8
E441517	17	38	23.8
E441518	18	38	25.5
E441519	19	38	25.7

Tech. Code	○ mm	L mm	External Ø mm
E441520	20	38	27.8
E441521	21	38	27.8
E441522	22	38	29.9
E441523	23	38	31.8
E441524	24	40	31.8
E441525	25	42	33.8
E441526	26	42	33.8
E441527	27	42	35.8
E441528	28	42	37.8
E441529	29	42	37.8
E441530	30	45	39.9
E441532	32	45	41.8

While stocks last

HEXAGONAL SOCKETS 1/2"

WODEX

1/2"

ITEM: WX2205

Standard DIN 3124 ISO 2725-1

Hexagonal sockets **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish.



Tech. Code	○ mm	L mm	External Ø mm
E426308	8	38	14
E426309	9	38	14.3
E426310	10	38	15.5
E426311	11	38	16.7
E426312	12	38	18
E426313	13	38	19.2
E426314	14	38	20.5
E426315	15	38	21.7
E426316	16	38	22
E426317	17	38	24

Tech. Code	○ mm	L mm	External Ø mm
E426318	18	38	25.5
E426319	19	38	26
E426320	20	38	28
E426321	21	38	28
E426322	22	38	30
E426324	24	40	32
E426327	27	42	36
E426330	30	45	40
E426332	32	45	42

HEXAGONAL SOCKETS 1/2”

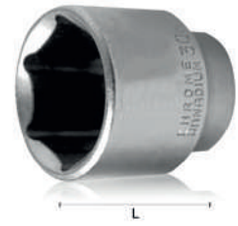
WRK

1/2"

ITEM: E4240

Standard DIN 3124 ISO 2725-1

Hexagonal sockets in chrome-vanadium steel with satin finish.



Tech. Code	○ mm	L mm	External Ø mm
E42408	8	38	13
E42409	9	38	14.3
E424010	10	38	15.3
E424011	11	38	16.6
E424012	12	38	17.6
E424013	13	38	19.1
E424014	14	38	20.3
E424015	15	38	21.7
E424016	16	38	21.8
E424017	17	38	23.8
E424018	18	38	25.5
E424019	19	38	25.7

Tech. Code	○ mm	L mm	External Ø mm
E424020	20	38	27.8
E424021	21	38	27.8
E424022	22	38	29.9
E424023	23	38	31.8
E424024	24	40	31.8
E424025	25	42	33.8
E424026	26	42	33.8
E424027	27	42	35.8
E424028	28	42	37.8
E424029	29	42	37.8
E424030	30	45	39.9
E424032	32	45	41.8

While stocks last

LONG HEXAGONAL SOCKETS 1/2"

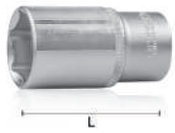
WODEX

1/2"

ITEM: WX2208

Standard DIN 3124 ISO 2725-1

Long hexagonal sockets **PREMIUM QUALITY** in high performance chrome-vanadium steel with satin finish.



Tech. Code	○ mm	L mm	External Ø mm
E426710	10	77	15.3
E426711	11	77	16.6
E426712	12	77	17.6
E426713	13	77	19.1
E426714	14	77	20.3
E426715	15	77	21.7
E426716	16	77	21.8
E426717	17	77	23.8

Tech. Code	○ mm	L mm	External Ø mm
E426718	18	77	25.5
E426719	19	77	25.7
E426721	21	77	27.8
E426722	22	77	29.9
E426724	24	77	31.8
E426727	27	77	35.8
E426730	30	77	39.9
E426732	32	77	41.8

SOCKET DRIVERS 1/2" FOR HEXAGONAL SOCKET HEAD SCREWS

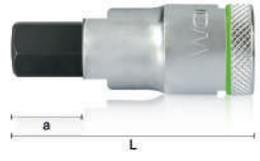
WODEX

1/2"

ITEM: WX2210

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, hexagonal insert in high strength phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E452104	4	17	55
E452105	5	17	55
E452106	6	17	55
E452107	7	17	55
E452108	8	17	55

Tech. Code	◉ mm	a mm	L mm
E452110	10	17	55
E452112	12	17	55
E452114	14	17	55
E452117	17	17	55
E452119	19	17	55

SOCKET DRIVERS 1/2" FOR HEXAGONAL SOCKET HEAD SCREWS

WRK

1/2"

ITEM: E4542

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers chrome-vanadium steel with satin finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E45424	4	24	55
E45425	5	24	55

Tech. Code	◉ mm	a mm	L mm
E45428	8	24	55
E454217	17	24	55

While stocks last

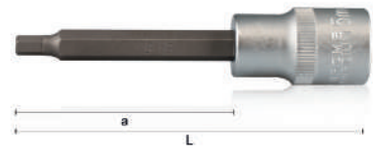
SOCKET DRIVERS 1/2" FOR SCREWS WITH HEX SOCKET

WODEX

ITEM: WX2212

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers **PREMIUM QUALITY** in high performance chrome-vanadium steel with satin chrome finish, hexagonal insert in high resistance phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E452505	5	60	100
E452506	6	60	100

Tech. Code	◉ mm	a mm	L mm
E452508	8	60	100
E452510	10	60	100

SOCKET DRIVERS 1/2" FOR HEXAGONAL SOCKET HEAD SCREWS

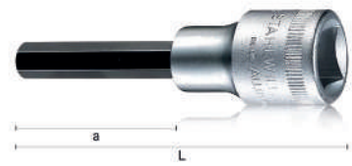
STAHLWILLE

1/2"

ITEM: 1054-2054

Standard DIN 7422

Socket drivers chrome-vanadium steel with chrome finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E451705	5	82	120
E451705L2	5	142	180
E451706	6	82	120
E451706L2	6	182	220
E451708	8	82	120

Tech. Code	◉ mm	a mm	L mm
E451708L1	8	102	140
E451710	10	102	140
E451712	12	100	140
E451714	14	100	140

SOCKET DRIVERS 1/2" FOR TORX® SCREWS

WODEX

1/2"

ITEM: WX2220

Standard ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, insert in high strength phosphated steel for Torx® screws



Tech. Code	✪	a mm	L mm
E452230	T30	17	55
E452240	T40	17	55
E452245	T45	17	55

Tech. Code	✪	a mm	L mm
E452250	T50	17	55
E452255	T55	17	55
E452260	T60	17	55

SOCKET DRIVERS 1/2" FOR TORX SCREWS

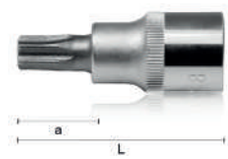
WRK

1/2"

ITEM: E4608

Standard ISO 1174-1

Socket drivers chrome-vanadium steel with satin finish, insert in phosphated steel for Torx®.



Tech. Code	✪	a mm	L mm
E460815	T15	24	55
E460820	T20	24	55
E460825	T25	24	55
E460827	T27	24	55
E460830	T30	24	55
E460840	T40	24	55

Tech. Code	✪	a mm	L mm
E460845	T45	24	55
E460850	T50	24	55
E460855	T55	24	55
E460860	T60	24	55
E460870	T70	24	55

While stocks last

SOCKET DRIVERS 1/2" FOR PHILIPS® SCREWS

WODEX

1/2"

ITEM: WX2232

Standard ISO 8764-1 ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with chrome-satin finish, high strength phosphated steel insert for Phillips® screws



Tech. Code	✪ PH	a mm	L mm
E461503	3	22	55

Tech. Code	✪ PH	a mm	L mm
E461504	4	22	55

HEXAGONAL SOCKETS 3/4”

WODEX

3/4”

ITEM: WX2305

Standard DIN 3124 ISO 2725-1

Hexagonal sockets **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish.



Tech. Code	○ mm	L mm	External Ø mm
E460019	19	50	29
E460021	21	50	31
E460022	22	50	32
E460023	23	50	33
E460024	24	51	34
E460026	26	52	38
E460027	27	52	38
E460028	28	52	40
E460029	29	52	40
E460030	30	54	42
E460032	32	56	44
E460033	33	60	46

Tech. Code	○ mm	L mm	External Ø mm
E460034	34	56	46
E460035	35	58	48
E460036	36	58	50
E460038	38	60	52
E460040	40	62	54
E460041	41	64	56
E460042	42	64	57
E460043	43	65	58
E460046	46	68	62
E460050	50	72	68
E460055	55	76	74
E460060	60	78	80

SOCKET DRIVERS 3/4" FOR HEXAGONAL SOCKET HEAD SCREWS

STAHLWILLE

3/4”

ITEM: 59

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers chrome-vanadium steel with chrome-finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E452014	14	34.7	80
E452017	17	34.7	80

Tech. Code	◉ mm	a mm	L mm
E452019	19	34.7	80
E452022	22	40	80

HEXAGONAL SOCKETS 1"

1”

ITEM: E4450

Standard DIN 3124 ISO 2725-1

Hexagonal sockets in chrome-vanadium steel with satin finish.



Tech. Code	○ mm	L mm	External Ø mm
E445036	36	65	51
E445041	41	70	57
E445046	46	76	65
E445050	50	78	70
E445055	55	80	76

Tech. Code	○ mm	L mm	External Ø mm
E445060	60	88	82
E445065	65	90	88
E445070	70	98	94
E445075	75	102	100
E445080	80	108	105

REVERSIBLE RATCHETS

WODEX

ITEM: WX2040 - WX2140 - WX2240

Standard DIN 3122 ISO 3315

Sturdy and resistant **PREMIUM QUALITY** reversible ratchets in chrome-vanadium steel, chrome-satin finish. Square drive DIN 3120/ISO 1174 and reversing lever for clockwise and anti-clockwise operation. Quick socket release via a button on the ratchet head. Soft and comfortable anti-slip, **ERGOFORM** grip made of two-component plastic.



Tech. Code	Coupling ■	Teeth	Head width mm	L mm
E47101/4	1/4"	72	23	139
E47103/8	3/8"	72	18	195
E47101/2	1/2"	72	36	243

STUBBY REVERSIBLE RATCHETS

WODEX

ITEM: WX2045

Standard DIN 3122 ISO 3315

Stubby reversible ratchets **PREMIUM QUALITY** sturdy and resistant in chrome-vanadium steel, chrome-satin finish. Square drive DIN 3120 / ISO 1174 and reversing lever for clockwise and anti-clockwise operation. Quick socket release via a button on the ratchet head.



Tech. Code	Coupling ■	Teeth	Head width mm	L mm
E47111/4	1/4"	60	18	95

REVERSIBLE RATCHETS

STAHLWILLE

ITEM: 415 - 435 - 512

Standard DIN 3122 ISO 3315
Reversible ratchets with bi-component handle and chrome steel stem.



Tech. Code	Coupling ■	Teeth	Head width mm	L mm
E47131/4	1/4"	1/4"	22	117
E47133/8	3/8"	3/8"	29	193
E47131/2	1/2"	1/2"	41	266

REVERSIBLE RATCHETS

WODEX

ITEM: WX2340

Standard DIN 3122 ISO 3315
Sturdy and resistant **PREMIUM QUALITY** reversible ratchets in chrome-vanadium steel, chrome-satin finish. Square drive DIN 3120/ISO 1174 and reversing lever for clockwise and anti-clockwise operation.



Tech. Code	Coupling ■	Teeth	Head width mm	L mm
E47153/4	3/4"	24	62	500

REVERSIBLE RATCHETS

ITEM: E4703

Standard DIN 3122 ISO 3315
Model with button for quick mount/release of the socket, chrome vanadium chrome plated steel body.

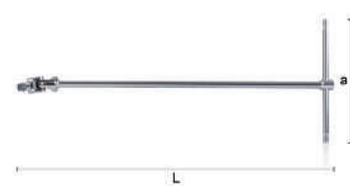


Tech. Code	Coupling ■	Teeth	Head width mm	L mm
E4703136T	1"	36	70	690

T-HANDLE SWIVEL DRIVE 1/2”

WODEX

ITEM: WX2049 - WX2149 - WX2249
Standard ISO 1174-1
Wrenches **PREMIUM QUALITY** in chrome-vanadium steel with square swivel drive for sockets. The high precision and high quality of the materials ensure tightening torques higher than those specified in the ISO reference standard. Sliding bar with limit stops. Chrome-satin finish.



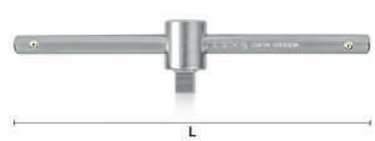
Tech. Code	Coupling ■	a mm	L mm
E475314	1/4"	165	400
E475338	3/8"	180	450

Tech. Code	Coupling ■	a mm	L mm
E475312	1/2"	230	500

T-HANDLE LEVERS WITH SLIDING SQUARE DRIVE

WODEX

ITEM: WX2048 - WX2148 - WX2248 - WX2348
Standard DIN 3122 ISO 3315
T-handle levers with sliding square drive **PREMIUM QUALITY** for manual socket drive wrenches, square drive DIN 3120 / ISO 1174 and ball locking mechanism. Sturdy and durable in chrome-vanadium steel, chrome-satin finish.



Tech. Code	Coupling ■	L mm
E47481/4	1/4"	115
E47483/8	3/8"	160

Tech. Code	Coupling ■	L mm
E47481/2	1/2"	250
E47483/4	3/4"	460

ANGULAR EXTENSIONS FOR SOCKETS

WODEX

ITEM: WX2052 - WX2152 - WX2252
Standard DIN 3123 - ISO 3316
Extensions **PREMIUM QUALITY** for manual socket drive wrenches, square drive DIN 3120 / ISO 1174 and ball locking mechanism. **WOBBLE** model with male connection that allows an inclinations of up to 15° with respect to the axis of the socket wrench. Sturdy and durable in chrome-vanadium steel, chrome-satin finish.



Tech. Code	Coupling ■	L mm
E47671/4050	1/4"	50
E47671/4100	1/4"	100
E47671/4150	1/4"	150
E47673/8075	3/8"	75
E47673/8150	3/8"	150

Tech. Code	Coupling ■	L mm
E47673/8250	3/8"	250
E47671/2125	1/2"	125
E47671/2150	1/2"	150
E47671/2200	1/2"	200
E47671/2250	1/2"	250

EXTENSIONS FOR SOCKETS

ITEM: WX2050 - WX2150 - WX2250 - WX2350
Standard DIN 3123 - ISO 3316
Extensions **PREMIUM QUALITY** for manual socket drive wrenches, square drive DIN 3120/ISO 1174 and ball locking mechanism. Sturdy and durable in chrome-vanadium steel, chrome-satin finish.



Tech. Code	Coupling ■	L mm
E47701/4050	1/4"	50
E47701/4100	1/4"	100
E47701/4150	1/4"	150
E47703/8075	3/8"	75

Tech. Code	Coupling ■	L mm
E47703/8250	3/8"	250
E47701/2075	1/2"	75
E47701/2125	1/2"	125
E47703/4200	3/4"	200

CARDAN JOINTS FOR DRIVE SOCKETS

ITEM: WX2054 - WX2154 - WX2254
Standard DIN 3123 ISO 3316
Cardan joints **PREMIUM QUALITY** for manual socket drive wrenches, square drive DIN 3120 / ISO 1174 and ball locking mechanism. Sturdy and resistant in chrome-vanadium steel, chrome-satin finish.



Tech. Code	Coupling ■	ø External mm	L mm
E47931/4	1/4"	14	40
E47933/8	3/8"	18	55

Tech. Code	Coupling ■	ø External mm	L mm
E47931/2	1/2"	25	78

CARDAN JOINTS FOR DRIVE SOCKETS

ITEM: WX2354

Standard DIN 3123 ISO 3316
Cardan joints **PREMIUM QUALITY** for manual socket drive wrenches, square drive DIN 3120/ISO 1174 and ball locking mechanism. Sturdy and resistant in chrome-vanadium steel, chrome-satin finish.



Tech. Code	Coupling ■	ø External mm	L mm
E47943/4	3/4"	40	100

REDUCER JOINTS FOR SOCKET WRENCHES

ITEM: WX2158
Standard DIN 3123 ISO 3316
Reducer joints for manual socket drive wrenches, square drive DIN 3120 / ISO 1174 and ball locking mechanism. Chrome-satin finish.



Tech. Code	Coupling □	Coupling ■	ø External mm	L mm
E48153/8-1/4	3/8"	1/4"	19	26
E48151/2-3/8	1/2"	3/8"	22	36

Tech. Code	Coupling □	Coupling ■	ø External mm	L mm
E48153/4-1/2	3/4"	1/2"	36	56

ADAPTER JOINTS FOR SOCKET WRENCHES

ITEM: WX2160
Standard DIN 3123 ISO 3316
Adapter joints for manual socket drive wrenches, square drive DIN 3120 / ISO 1174 and ball locking mechanism.
Chrome-satin finish.



Tech. Code	Coupling □	Coupling ■	ø External mm	L mm
E48441/4-3/8	1/4"	3/8"	14	26
E48443/8-1/2	3/8"	1/2"	19	36

Tech. Code	Coupling □	Coupling ■	ø External mm	L mm
E48441/2-3/4	1/2"	3/4"	26	48

SCREWDRIVERS FOR SOCKETS 1/4"

ITEM: WX2047

Standard DIN 3122 ISO 3315
Screwdrivers **PREMIUM QUALITY** with square drive connection for 1/4" socket wrenches, sturdy and resistant in chrome-vanadium steel, chrome-satin finish. Square drive DIN 3120 / ISO 1174 and ball locking mechanism. Soft and comfortable non-slip two-component **ERGOFORM** grip.



Tech. Code	Coupling ■	a mm	L mm
E48681/4	1/4"	75	175

SOCKET WRENCHES 1/4" 41-TOOL SET IN PE-HD CASE

WODEX

NEW



ITEM: WX2080/SE41-PC

Set of 41 **WODEX PREMIUM QUALITY** tools with 1/4" square drive in practical, impact-resistant PE-HD case. The set contains a ratchet, a T-handle with sliding square, a socket wrench holder screwdriver, a gimbal, extensions, adapters, a bit holder socket, PLUS-DRIVE multi-functional keys, socket wrenches for hexagon socket and Torx® socket screws, Phillips® slotted and Phillips® socket screws. Complete kit with removable Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical position

Composition:

WX2040	1/4" reversible ratchet
WX2000	Ring wrenches 1/4" 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2010	Socket wrenches 1/4" hexagonal male HEX 2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm
WX2020	Sockets 1/4" Torx® T8 - T10 - T15 - T20 - T25 - T30 - T40
WX2030	Sockets 1/4" with slotted insert 4 - 5,5 - 6,5 - 8 mm
WX2032	Phllips® PH1 - PH2 - PH3 1/4" socket spanners with multi-functional keys
WX2052	Wobble extensions 1/4 "x50 - 1/4 "x100 mm
WX2054	Universal joint 1/4"
WX2047	1/4" socket screwdrivers
WX2160	1/4" female - 3/8" male adapter joint
WX4640	Hexagon socket 1/4" bit holders
WX2048	T-handle with 1/4" sliding square

Tech. Code	Pieces
E488741	41

SOCKET SET 1/4" - 44 TOOLS IN ABS CASE

WODEX



ITEM: WX2080/SE44-PC

Set of 44 **WODEX PREMIUM QUALITY** tools with 1/4" square drive in a practical impact-resistant PE-HD case. The set contains a ratchet, a T-lever with sliding square, a socket screwdriver, a universal joint, extensions , adapters, **PLUS-DRIVE** polygonal sockets, slotted bits, Phillips® and Pozidriv®, hexagonal and Torx® bits, a bit holder socket.Complete kit with removable Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical position

Composition:

WX2040	Reversible ratchet 1/4"
WX2000	Sockets polygonal 1/4" 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle lever with 1/4" sliding square drive
WX2052	Extensions Wobble 1/4"x50 - 1/4"x100
WX2054	Cardan joint 1/4"
WX2047	Socket screwdriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4" x 25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2 - PZ3
WX4430	Insert bits 1/4"x25 slotted 3.0 - 4.0 - 4.5 - 5.5 - 6.5 mm
WX4445	Insert bits 1/4"x25 hexagonal HEX 3 - 4 - 5 - 6 - 8 mm
WX4475	Insert bits 1/4"x25 Torx® T8 - T10 - T15 - T20 -T25 - T27 - T30 - T40

Tech. Code	Pieces
E489044	44

SOCKET SET 1/4" - 55 TOOLS IN ABS CASE

WODEX

WMS 1/6 1/4"

ITEM: WX2085/SE55-PC



Set of 55 **WODEX PREMIUM QUALITY** tools with 1/4" square drive in a practical impact-resistant ABS case. The set contains a stubby ratchet, a quick-change bit-holder screwdriver, adapters, PLUS-DRIVE polygonal socket wrenches, bits cutting, Phillips® and Pozidriv®, hexagonal, Torx® and Tamper Torx® with hole, a bit holder bush.Complete kit with removable Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical position

Composition:

WX2045	Reversible stubby ratchet 1/4"
WX2000	Sockets polygonal 1/4" 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX4642	Socket bit adapter 1/4" hex drive 1/4" x 25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4630	Bit holder 1/4"- 1/4"x60 mm
WX4620	Bit holder screwdriver quick change 1/4"
WX4400	Insert bits 1/4"x25 Phillips® PH1 (2) - PH2 (3) - PH3 (1)
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 (3) - PZ2 (3) - PZ3 (1)
WX4430	Insert bits 1/4"x25 slotted 4 (1) - 4.5 (1) - 5.5 (2) - 6.5 (2) mm
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2.5 - 3 - 4 - 5 - 6 - 8 mm
WX4475	Insert bits 1/4"x25 Torx® T10 - T15 - T20 - T25 - T30 - T40
WX4505	Insert bits 1/4"x25 Tamper Torx® T10 - T15 - T20 -T25 - T30 - T40

Tech. Code	Pieces
E489255	55

SOCKET SET 1/4" AND 1/2" - 66 TOOLS IN ABS CASE

WODEX

WMS 1/3 H 1/4" 1/2"

ITEM: WX2090/SE66-PC



Set of 66 **WODEX PREMIUM QUALITY** tools with 1/4" and 1/2" square drive in practical impact-resistant ABS case. The set contains 2 ratchets, a T-lever with sliding square, cardan joints, a socket screwdriver, extensions, fittings, adapters, **PLUS-DRIVE** polygonal sockets, slotted, Phillips® and Pozidriv® bits, hexagonal and Torx® with bit holder bushing.
Complete with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2040	Reversible ratchet 1/4"
WX2000	Sockets 1/4" 4 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle lever with 1/4" sliding square drive
WX2052	Extensions Wobble 1/4"x50 - 1/4"x150
WX2054	Cardan joint 1/4"
WX2047	Socket screwdriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4" x 25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4430	Insert bits 1/4"x25 slotted 4 - 5.5 mm
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX4475	Insert bits 1/4"x25 Torx® T10 - T15 - T20 -T25 - T30
WX2240	Reversible ratchet 1/2"
WX2200	Socket drivers 1/2" 10-11-12-13-14-15-17-19-22-24-30-32 mm
WX2210	Socket drivers 1/2" HEX 8 - 10 - 12 - 14 mm
WX2220	Socket drivers 1/2" Torx® T40 - T45 - T50
WX2252	Extensions Wobble 1/2"x150 - 1/2"x200
WX2254	Cardan joint 1/2"
WX2161	Adapter joint 3/8'F-1/2'M with hole for extension
WX2209	Sockets 1/2" for spark plugs 16- 21 mm

Tech. Code	Pieces
E489466	66

While stocks last

SOCKET WRENCHES 1/4" AND 1/2" - SET OF 71 TOOLS IN ABS CASE

WODEX



ITEM: WX2095/SE71-PC

Set of 71 **WODEX PREMIUM QUALITY** tools with 1/4" and 1/2" square drive in practical impact-resistant ABS case. The set contains 2 ratchets, a T-lever with sliding square, universal joints, a socket screwdriver, extensions, fittings, adapters, hexagonal sockets, slotted, Phillips® and Pozidriv®, hexagonal and Torx bits ® with bit holder bush.Complete kit with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2040	Reversible ratchet 1/4"
WX2200	Sockets polygonal 1/4" 4 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle lever with 1/4" sliding square drive
WX2052	Extensions Wobble 1/4"x50 - 1/4"x150
WX2054	Cardan joint 1/4"
WX2047	Socket screwdriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4" x 25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4430	Insert bits 1/4"x25 slotted 3 - 4 - 5.5 - 6.5 mm
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX4475	Insert bits 1/4"x25 Torx® T8 - T9 - T10 - T15 - T20 -T25 - T27 - T30
WX2240	Reversible ratchet 1/2"
WX2205	Sockets hexagonal 1/2" 10 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket drivers 1/2" HEX 5 - 6 - 8 - 10 - 12 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T50
WX2252	Extensions Wobble 1/2"x125 - 1/2"x200
WX2254	Cardan joint 1/2"
WX2161	Adapter joint 3/8'F-1/2'M with hole for extension

Tech. Code	Pieces
E489671	71

3/8" SOCKET WRENCH SET 40 TOOLS IN PE-HD CASE

WODEX

NEW



ITEM: WX2180/SE40-PC

Set of 40 **WODEX PREMIUM QUALITY** tools with 3/8" square drive in practical, impact-resistant PE-HD case. The set contains a ratchet, a universal joint, extensions, a reducer joint, an adapter joint, a T-handle with sliding square, **PLUS-DRIVE** ring wrenches, socket wrenches for hexagon socket and Torx® socket screws.
Complete set of removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2140	Reversible ratchet 3/8"
WX2100	Ring wrenches 3/8" 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
WX2110	Socket wrenches 3/8" hexagonal male HEX 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX2120	Sockets wrenches 3/8" Torx® T10 - T15 - T20 - T25 - T27 - T30 - T40
WX2152	Wobble extensions 3/8 "x75 - 3/8 "x150 - 3/8 "x250 mm
WX2154	Universal joint 3/8"
WX2148	T-handle with sliding square 3/8"
WX2158	Reducer joint Female 3/8" - Male 1/4"
WX2160	Adapter joint Female 3/8" - Male 1/2"

Tech. Code	Pieces
E490740	40

SOCKET SET 3/8" - 39 TOOLS IN PE-HD CASE

WODEX



ITEM: WX2180/SE39-PC

Set of 39 **WODEX PREMIUM QUALITY** tools with 3/8" square drive in practical shock-resistant ABS case. The set contains a ratchet, a cardan joint, extensions, joints **PLUS-DRIVE** polygonal sockets, socket drivers for hexagonal socket head screws and Torx® screws, sockets for spark plugs.
Set complete with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2140	Reversible ratchet 3/8"
WX2100	Sockets 3/8" 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
WX2110	Socket wrenches 3/8" hexagonal male HEX 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX2120	Socket drivers 3/8" Torx® T10 - T15 - T20 - T25 - T27 - T30 - T40
WX2152	Extensions Wobble 3/8"x75 - 3/8"x250
WX2154	Cardan joint 3/8"
WX2159	Reducer joint 1/2'F-3/8'M with hole for extensions
WX2109	Sockets 3/8" for spark plugs 16- 21 mm

Tech. Code	Pieces
E490939	39

While stocks last

SOCKET SET 3/8" - 40 TOOLS IN PE-HD CASE

WODEX

WMS 1/3 H 3/8"

ITEM: WX2190/SE40-PC



Set of 40 **WODEX PREMIUM QUALITY** tools with 3/8" square drive in a practical impact-resistant PE-HD case. The set contains a ratchet, a universal joint, extensions, a reducer fitting, an increaser fitting, a T-lever with square sliding, hexagonal sockets, sockets for screws with hexagon socket and for screws with Torx® recess.
Complete kit with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Compostion:

WX2140	Reversible ratchet 3/8"
WX2105	Sockets 3/8" 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
WX2110	Socket wrenches 3/8" hexagonal male HEX 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX2120	Socket drivers 3/8" Torx® T10 - T15 - T20 - T25 - T27 - T30 - T40
WX2152	Extensions Wobble 3/8"x75 - 3/8"x150 - 3/8"x250 mm
WX2154	Cardon joint 3/8"
WX2148	T-lever with sliding square 3/8"
WX2158	Reducer joint 3/8"F -1/4"M
WX2160	Adaptor joint 3/8"F - 1/2"M

Tech. Code	Pieces
E491440	40

SOCKET SET 1/2" - 36 TOOLS

WODEX

WMS 1/3 H 1/2"

ITEM: WX2280/SE36-PC



Set of 36 **WODEX PREMIUM QUALITY** tools with 1/2" square drive in practical shock-resistant ABS case. The set contains a ratchet cardan joint, extensions, joints **PLUS-DRIVE** polygonal sockets, socket drivers for hexagonal socket head screws and Torx® screws.
Set complete with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2240	Reversible ratchet 1/2"
WX2200	Sockets 1/2" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket drivers 1/2" HEX 6 - 8 - 10 - 12 - 14 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T55 - T60
WX2232	Socket drivers 1/2" for Phillips® screws PH3 - PH4
WX2252	Extensions Wobble 1/2"x125 - 1/2"x250
WX2254	Cardan joint 1/2"
WX2161	Adapter joint 3/8'F-1/2'M with hole for extension

Tech. Code	Pieces
E492036	36

SOCKET WRENCHES 1/2" - SET OF 40 TOOLS

WODEX

WMS 1/3 H 1/2"

ITEM: WX2290/SE40-PC



Set of 40 **PREMIUM QUALITY** tools with 1/2" square drive in practical shock-resistant ABS case. The set contains a ratchet, a cardan joint, extensions, joints, hexagonal sockets, socket drivers for hexagonal socket head screws and Torx® screws.
Set complete with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2240	Reversible ratchet 1/2"
WX2205	Sockets 1/2" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket wrenches 1/2" hexagonal male HEX 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T50 - T55 - T60
WX2252	Extensions Wobble 1/2"x125 - 1/2"x250
WX2254	Cardan joint 1/2"
WX2161	Adapter joint 3/8'F-1/2'M with hole for extension

Tech. Code	Pieces
E492340	40

HEXAGONAL SOCKETS 3/4" SET 14 PIECES IN METAL CASE

ITEM: E4990



Set of sockets in a metal box.
Equipment:
- Hexagon socket wrenches 22 - 24 - 27 - 30 - 32 - 36 - 38 - 41 - 46 - 50 mm
- Reversible ratchet
- Extensions 100-200 mm
- Sliding T-lever

Tech. Code	Pieces
E4990SET14	14

While stocks last

HEXAGONAL IMPACT SOCKETS 1/2"

WODEX

1/2"

ITEM: WX2440

Standard ISO 2725-2 - DIN 3129

Impact sockets **Premium Quality** in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Reinforced Impact **Resistant execution**, particularly suitable for counteracting the extreme stresses of impact wrenches.

Short version with hexagonal mouth



Tech. Code	O mm	L mm	External Ø mm
E540510	10	38	17
E540513	13	38	20
E540517	17	38	26
E540518	18	38	27
E540519	19	38	28
E540522	22	38	32

Tech. Code	O mm	L mm	External Ø mm
E540524	24	40	34
E540527	27	43	38
E540530	30	43	42
E540532	32	43	44
E540536	36	50	50

HEXAGONAL IMPACT SOCKETS 1/2" LONG VERSION

WODEX

1/2"

ITEM: WX2442

Standard ISO 2725-2

Sockets **Premium Quality** in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Reinforced Impact Resistant execution, particularly suitable for counteracting the extreme stresses of impact wrenches.

Long version with hexagonal mouth



Tech. Code	O mm	L mm	External Ø mm
E541010	10	78	17
E541013	13	78	20
E541017	17	78	26
E541018	18	78	27
E541019	19	78	28
E541022	22	78	32

Tech. Code	O mm	L mm	External Ø mm
E541024	24	78	34
E541027	27	78	38
E541030	30	78	42
E541032	32	78	44
E541036	36	78	50

IMPACT SOCKET WRENCHES 1/2" FOR SCREWS WITH HEX SOCKET

STAHLWILLE

1/2"

ITEM: 54IMP

Impact socket wrenches with 1/2" connection for screws with hexagon socket, chrome vanadium steel, burnished.



Tech. Code	⬣ mm	L mm	External Ø mm
E543505	5	38	25
E543506	6	38	25
E543507	7	38	25
E543508	8	38	25
E543510	10	40	25

Tech. Code	⬣ mm	L mm	External Ø mm
E543512	12	42	30
E543514	14	43	30
E543517	17	45	30
E543519	19	50	30

HEXAGONAL IMPACT SOCKETS 3/4"

WODEX

3/4"

ITEM: WX2460

Standard ISO 2725-2 - DIN 3129

Impact wrenches **Premium Quality** socket wrenches in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Reinforced **Impact Resistant** execution, particularly suitable for counteracting the extreme stresses of impact wrenches.

Short version with hexagonal mouth



Tech. Code	O mm	L mm	External Ø mm
E544024	24	52	38
E544027	27	52	42
E544030	30	52	46
E544032	32	52	48

Tech. Code	O mm	L mm	External Ø mm
E544036	36	56	54
E544041	41	58	60
E544046	46	63	67

HEXAGONAL IMPACT SOCKETS 3/4" LONG VERSION

WODEX

3/4"

ITEM: WX2462

Standard ISO 2725-2

Impact sockets **Premium Quality** in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Reinforced **Impact Resistant** execution, particularly suitable for counteracting the extreme stresses of impact wrenches.

Long version with hexagonal mouth



Tech. Code	O mm	L mm	External Ø mm
E544524	24	90	39
E544527	27	90	43
E544530	30	90	46
E544532	32	90	49

Tech. Code	O mm	L mm	External Ø mm
E544536	36	90	54
E544541	41	92	60
E544546	46	92	66

EXTENSIONS FOR IMPACT SOCKETS

1/2" 3/4"

ITEM: WX2450 - WX2470

Standard DIN 3121 - ISO 1174-2

Extensions **Premium Quality** in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Resistant execution **Reinforced Impact**, particularly suitable for counteracting the extreme stresses of impact wrenches.

Version with ball locking mechanism



Tech. Code	Coupling ■	Ø External mm	L mm
E546012125	1/2"	25	125
E546012250	1/2"	25	250

Tech. Code	Coupling ■	Ø External mm	L mm
E546034175	3/4"	44	175
E546034250	3/4"	44	250

REDUCING FITTINGS FOR IMPACT SOCKETS

3/8" 1/2" 3/4" 1"

ITEM: WX2500

Standard DIN 3121 - ISO 1174-2

Reducing fittings for Impact sockets **Premium Quality** in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Reinforced **Impact Resistant** execution, particularly suitable for counteracting the extreme stresses of impact wrenches.

Version with ball locking mechanism



Tech. Code	Coupling □	Coupling ■	External Ø mm	L mm
E546505	1/2"	3/8"	25	38
E546508	3/4"	1/2"	44	56

Tech. Code	Coupling □	Coupling ■	External Ø mm	L mm
E546510	1"	3/4"	54	75

While stocks last

CARDAN JOINTS FOR IMPACT SOCKETS

ITEM: WX2452 - WX2472

Cardan joints **Premium quality** in special steel highly alloyed with chrome molybdenum with phosphated finish. Resistant execution **Reinforced Impact,** particularly suitable for counteracting the extreme stresses of impact wrenches.

Version with ball locking mechanism



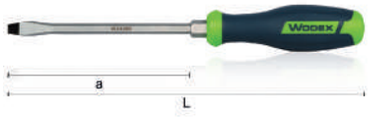
Tech. Code	Coupling ■	Ø External mm	L mm
E547012	1/2"	28	63

Tech. Code	Coupling ■	Ø External mm	L mm
E547034	3/4"	44	90

SCREWDRIVERS FOR SLOTTED SCREWS

ITEM: WX4000

Screwdrivers **PREMIUM QUALITY** for slotted screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	⬭ mm	⬣ blade mm	a mm	L mm
E56302,5X075	2.5 x 0.4	2.5	75	160
E56303,0X075	3.0 x 0.5	3.0	75	160
E56303,5X100	3.5 x 0.6	3.5	100	185
E56304,0X100	4.0 x 0.8	4.0	100	185

Tech. Code	⬭ mm	⬣ blade mm	a mm	L mm
E56305,5X100	5.5 x 1.0	4.8	100	200
E56306,5X125	6.5 x 1.2	6.3	125	235
E56308,0X175	8.0 x 1.2	8.0	175	295

2.5x75 - 3.0x75 - 3.5x100 - 4.0x100 mm with round blade

ITEM: WX4000/SE6

Composition:

2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 mm



Tech. Code	Pieces
E563306	6

Boxed set

SCREWDRIVERS FOR SLOTTED SCREWS 334 SK

ITEM: 334 SK
Screwdrivers for slotted screws, additional hexagonal for maneuver with socket, matt nickel chrome steel and lasertip treatment **Kraftform Plus** multi-component anti-rolling.



Tech. Code	mm	lama mm	a mm	L mm
E55653,5X075	3,5 x 0,6	4,0	75	156
E55654,0X090	4,0 x 0,8	4,0	90	171
E55654,5X090	4,5 x 0,8	5,0	90	188
E55655,5X100	5,5 x 1,0	5,5	100	198
E55656,5X125	6,5 x 1,2	6,0	125	230
E55657,0X125	7,0 x 1,2	6,0	125	230
E55659,0X150	9,0 x 1,6	8,0	150	262
E556510X175	10,0 x 1,6	8,0	175	287

3,5x75 e 4,0x90 mm without hexagonal maneuvering

SCREWDRIVERS FOR SLOTTED SCREWS

ITEM: 334
Screwdrivers for slotted screws, round blade made of dull chrome-nickel steel and tip with Lasertip surface treatment. **Kraftform Plus** multi-component anti-roll handle.

Specification: With blade for mechanics



Tech. Code	mm	Blade Ø mm	a mm	L mm
E55585,0X100	5,0 x 0,8	5	100	198
E55586,0X125	6,0 x 1,0	6	125	230
E55586,0X150	6,0 x 1,0	6	150	255
E55586,5X150	6,5 x 1,2	6	150	255
E55586,5X200	6,5 x 1,2	7	200	305
E55587,0X150	7,0 x 1,2	7	150	255
E55588,0X175	8,0 x 1,2	7	175	287
E555810X200	10 x 1,6	9	200	312
E555812X250	12 x 2,0	10	250	367

The 12x250 size is without Lasertip treatment and has a one-piece handle

ITEM: 335
Specification: With blade for electricians



Tech. Code	mm	Ø blade mm	a mm	L mm
E55602,0X060	2,0 x 0,4	2,5	60	130
E55602,5X060	2,5 x 0,4	2,5	60	130
E55602,5X075	2,5 x 0,4	2,5	75	145
E55603,0X080	3,0 x 0,5	3,0	80	161
E55603,0X150	3,0 x 0,5	4,0	150	231
E55603,0X200	3,0 x 0,5	4,0	200	281
E55603,5X100	3,5 x 0,6	3,5	100	181
E55603,5X125	3,5 x 0,6	3,5	125	206
E55603,5X200	3,5 x 0,6	3,5	200	281
E55604,0X100	4,0 x 0,8	4,0	100	198
E55604,0X150	4,0 x 0,8	4,0	150	248
E55604,0X200	4,0 x 0,8	4,0	200	298
E55604,0X300	4,0 x 0,8	4,0	300	398
E55605,5X125	5,5 x 1,0	5,5	125	223
E55605,5X150	5,5 x 1,0	5,5	150	248
E55605,5X200	5,5 x 1,0	5,5	200	298
E55605,5X300	5,5 x 1,0	5,5	300	398
E55606,0X100	6,0 x 1,2	6,0	100	205

2,0 - 2,5 - 3,0 mm all lengths without Lasertip treatment - 4,0x300 e 5,5x300 mm

SCREWDRIVERS STUBBY FOR SLOTTED SCREWS

ITEM: WX4020
Screwdrivers **PREMIUM QUALITY** for slotted screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	mm	Ø blade mm	a mm	L mm
E56355,5X38	5.5 x 1.0	4.8	38	90
E56356,5X38	6.5 x 1.2	6.3	38	90

SCREWDRIVERS VDE 1000 VOLT INSULATED SERIES FOR SLOTTED SCREWS

ITEM: WX4030
Screwdrivers **PREMIUM QUALITY** for slotted screws with insulated blade and handle up to 1000 V DIN EN 60900 / VDE 0682-201. Blade in chrome-vanadium steel and hardened precision **BLACK-TIP** with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	mm	a mm	L mm
E56452,5X075	2.5x0.4	75	160
E56453,0X100	3.0x0.5	100	185
E56454,0X100	4.0x0.8	100	200
E56455,5X125	5.5x1.0	125	225

While stocks last

SCREWDRIVERS INSULATED SERIES FOR SLOTTED SCREWS 160I VDE

Wera

ITEM: 160I VDE

Screwdrivers VDE Isolated up to 1000 volts, compliant with standard regulations IEC 60900 for slotted screws, Isolated round blade with Lasertip surface treatment of the tip. **Kraftform Plus** grip handle multi-component anti-rolling (measurement 2,5x80 and 3,0x100 without Lasertip treatment).



Tech. Code	⊖ mm	a mm	L mm
E56502,5X080	2,5x0,4	2,5	80
E56503,0X100	3,0x0,5	100	181
E56503,5X100	3,5x0,6	3,5	100
E56504,0X100	4,0x0,8	4	100

Tech. Code	⊖ mm	a mm	L mm
E56505,5X125	5,5x1,0	5,5	125
E56506,5X150	6,5x1,2	6,5	150
E56508,0X175	8,0x1,2	7	175
E565010X200	10,0x1,6	200	312

The Ø blade refers to terminal part without Isolation.

SINGLE-POLE VOLTAGE TESTERS STANDARD VDE

WODEX

ITEM: WX4190

Standard VDE 0680/6

Single-pole voltage testers **PREMIUM QUALITY** standard VDE 0680/6 with plastic handle, insulated blade and pocket clip, control range 105-250 Volt.



Tech. Code	⊖ mm	Ø blade mm	a mm	L mm
E589703	3.0 x 0.5	3	70	145

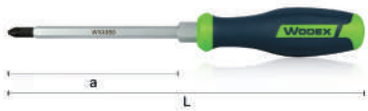
While stocks last

SCREWDRIVERS FOR PHILLIPS® SCREWS

WODEX

ITEM: WX4050

Screwdrivers **PREMIUM QUALITY** for Phillips® screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	⊕ PH	⬣ blade mm	a mm	L mm
E56900X060	0	3.0	60	145
E56901X080	1	5.0	80	180

Tech. Code	⊕ PH	⬣ blade mm	a mm	L mm
E56902X100	2	6.0	100	210
E56903X150	3	8.0	150	272

PH0x60 with round stem

ITEM: WX4050/S4

Composition:

PH0x60 - PH1x80 - PH2x100 - PH3x150 mm



Tech. Code	Pieces
E569304	4

Boxed set

SCREWDRIVERS FOR PHILLIPS® SCREWS 350 SK PH

Wera

ITEM: 350 SK PH

Screwdrivers for phillips screws hexagonal blade, additional hexagonal to maneuver with socket, matt chrome-nickel and tip with surface treatment Lasertip. **Kraftform Plus** handle multi-component anti-rolling.



Tech. Code	⊕ PH	⬣ blade mm	a mm	L mm
E58120X060	0	4,0	60	141
E58121X080	1	5,0	80	178

Tech. Code	⊕ PH	⬣ blade mm	a mm	L mm
E58122X100	2	6,0	100	205
E58123X150	3	8,0	150	262

PH0x60 mm without lasertip treatment and without hexagonal maneuver.

SCREWDRIVERS FOR PHILLIPS® SCREWS 350 PH

Wera

ITEM: 350 PH
Screwdrivers for phillips screws, round blade in matt chrome-nickel steel and surface treatment Lasertip.
Kraftform Plus multi-component handle anti-rolling.



Tech. Code	PH	Ø blade mm	a mm	L mm
E58100X060	0	3,0	60	141
E58100X100	0	3,0	100	181
E58101X080	1	4,5	80	178
E58101X200	1	4,5	200	298
E58102X100	2	6,0	100	205
E58102X150	2	6,0	150	255

Tech. Code	PH	Ø blade mm	a mm	L mm
E58102X200	2	6,0	200	305
E58101X300	1	4,5	300	398
E58102X300	2	6,0	300	405
E58103X150	3	8,0	150	262
E58104X200	4	10,0	200	312

PH0x60 - PH1x300 - PH2x300 mm - without laser tip treatment)

SCREWDRIVERS STUBBY SERIES FOR PHILLIPS® SCREWS

WODEX

ITEM: WX4070
Screwdrivers **PREMIUM QUALITY** for Phillips® screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	PH	Ø blade mm	a mm	L mm
E56951X38	1	5.0	38	90

Tech. Code	PH	Ø blade mm	a mm	L mm
E56952X38	2	6.0	38	90

SCREWDRIVERS INSULATED SERIES FOR PHILLIPS® SCREWS 162I PH VDE

Wera

ITEM: 162I PH VDE
VDE Isolated screwdrivers up to 1000 volt compliant with the standard regulations IEC 60900 for phillips screws with Isolated round blade and lasertip treatment of the tip **Kraftform Plus** grip handle muti-component, anti-rolling.
(Measurement PHO-80 without laser tip treatment).



Tech. Code	PH	a mm	L mm
E58200X080	0	80	161
E58201X080	1	80	178
E58202X100	2	100	205

Tech. Code	PH	a mm	L mm
E58202X200	2	200	305
E58203X150	3	150	262
E58204X200	4	200	312

The Ø blade refers to the terminal part without isolation.

SCREWDRIVERS FOR POZIDRIV® SCREWS

WODEX

ITEM: WX4100
Screwdrivers **PREMIUM QUALITY** for POZIDRIV® screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	PZ	⬣ blade mm	a mm	L mm
E57600X060	0	3.0	60	145
E57601X080	1	5.0	80	180

Tech. Code	PZ	⬣ blade mm	a mm	L mm
E57602X100	2	6.0	100	210
E57603X150	3	8.0	150	272

PZ0x60 mm with round stem

SCREWDRIVERS VDE 1000 VOLT INSULATED SERIES FOR POZIDRIV® SCREWS

WODEX

ITEM: WX4130
Screwdrivers **PREMIUM QUALITY** for POZIDRIV® screws with insulated blade and handle up to 1000 V DIN EN 60900 / VDE 0682-201. Blade in chrome-vanadium steel and hardened precision **BLACK-TIP** with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	PZ	a mm	L mm
E57700X060	0	60	145
E57701X080	1	80	180

Tech. Code	PZ	a mm	L mm
E57702X100	2	100	210

While stocks last

MICRO SCREWDRIVERS FOR SLOTTED SCREWS

ITEM: WX4040

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for slotted screws, satin chrome-vanadium steel blades and precision **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	mm	Ø blade mm	a mm	L mm
E58451,5X60	1.5 x 0.23	2.5	60	155
E58452,0X60	2.0 x 0.40	2.5	60	155
E58452,5X60	2.5 x 0.40	2.5	60	155

Tech. Code	mm	Ø blade mm	a mm	L mm
E58453,0X60	3.0 x 0.50	3.0	60	155
E58454,0X60	4.0 x 0.80	4.0	60	155

MICRO SCREWDRIVERS FOR PHILLIPS® SCREWS

ITEM: WX4090

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for Phillips® screws, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	PH	Ø blade mm	a mm	L mm
E584600X60	00	2.5	60	155
E58460X60	0	3.0	60	155

Tech. Code	PH	Ø blade mm	a mm	L mm
E58461X60	1	4.0	60	155

MICRO SCREWDRIVERS FOR POZIDRIV® SCREWS

ITEM: WX4140

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for Pozidriv® screws, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	PZ	Ø blade mm	a mm	L mm
E58470X60	0	3.0	60	155

Tech. Code	PZ	Ø blade mm	a mm	L mm
E58471X60	1	4.0	60	155

MICRO SCREWDRIVERS FOR SLOTTED AND PHILLIPS® SCREWS IN SET

ITEM: WX4380/S6

Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with support, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Composition:

WX4040 1.50x60 - 2.0x60 - 2.5x60 - 3.0x60 mm

WX4090 PH00x60 - PH0x60 mm



Tech. Code	Pieces
E588906	6

MICRO SCREWDRIVERS KRAFTFORM-SET 2035/6 A

ITEM: 2035/6 A

Set of 6 screwdrivers **Kraftform Micro** for electronics and fine mechanics with practical bench rack support.

Composizione:

2050 PH MICRO PH00x60 - PH0x60 mm

2035 MICRO 1,8x0,30x60 - 2,0x0,40x60 - 2,5x0,40x80 - 3,0x0,50x80 mm



Tech. Code	Pieces
E589006	6

SCREWDRIVERS PREMIUM QUALITY IN SET

WODEX

ITEM: WX4255/S5 - WX4255/S7 - WX4255/S8 - WX4255/S11



Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head.
Compliant with RoHS and REACH directives.

Composition E608805 - WX4255/S5
WX4000 Screwdrivers 3x75 - 4x100 - 5.5x100 mm
WX4050 PH1x80 - PH2x100 mm Phillips screwdrivers
Composition E608808 - WX4255/S8
WX4000 Screwdrivers 2.5x75 - 3x75 - 4x100 - 5.5x100 6.5x125 mm
WX4050 Phillips screwdrivers PH0x60 - PH1x80 - PH2x100 mm
Composition E608807 - WX4255/S7
WX4000 Screwdrivers 3x75 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4050 PH1x80 - PH2x100 mm Phillips screwdrivers
Composition E608811 - WX4255/S11
WX4000 Slotted screwdrivers 2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4050 Screwdrivers PH0x60 - PH1x80 - PH2x100 - PH3x150 mm

Tech. Code	Pieces
E608805	5
E608807	7
E608808	8
E608811	11

Boxed set

SCREWDRIVERS PREMIUM QUALITY IN SET

WODEX

ITEM: WX4260/S10 - WX4260/S15



Composition:
WX4000 Screwdrivers 3x75 - 4x100 - 5.5x100
WX4050 PH1x80 - PH2x100 mm Phillips screwdrivers
WX4100 Phillips screwdrivers PZ1x80 - PZ2x100 mm
Composition E609010 - WX4260/S10
WX4000 Screwdrivers 2.5x75 - 3x75 - 4x100 - 5.5x100 - 6.5x125 mm
WX4050 Phillips screwdrivers PH0x60 - PH1x80 - PH2x100 mm
WX4100 Phillips screwdrivers PZ1x80 - PZ2x100 mm
Composition E609008 - WX4260/S8
WX4000 Screwdrivers 3x75 - 4x100 - 5.5x100 - 6.5x125 mm
WX4050 PH1x80 - PH2x100 mm Phillips screwdrivers
WX4100 Phillips screwdrivers PZ1x80 - PZ2x100 mm
Composition E609015 - WX4260/S15
WX4000 Slotted screwdrivers 2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4050 Screwdrivers PH0x60 - PH1x80 - PH2x100 - PH3x150 mme
WX4100 Phillips screwdrivers PZ0x60 - PZ1x80 - PZ2x100 - PZ3x150 mm

Tech. Code	Pieces
E609007	7
E609008	8
E609010	10
E609015	15

Boxed set

SCREWDRIVERS KRAFTFORM PLUS - SET 334/6

Wera

ITEM: 334/6



Set of 6 screwdrivers with **Kraftform Plus** handle and wall rack.

Composition:
335 Screwdrivers 3x80 - 4x100 - 5.5x125 mm
334 Slotted screwdrivers 6.5x150 mm
350PH PH1x80 - PH2x100 mm Phillips screwdrivers

Tech. Code	Pieces
E610006	6

SCREWDRIVERS VDE 1000 VOLT INSULATED IN SET

WODEX

ITEM: WX4355/S7 - WX4355/S8



Composition E616807 - WX4355/S7

- **WX4030** Screwdrivers 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
- **WX4130** Phillips screwdrivers PZ0x60 - PZ1x80 - PZ2x100 mm

Composition E616808 - WX4355/S8

- **WX4030** Screwdrivers 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
- **WX4130** Phillips screwdrivers PZ0x60 - PZ1x80 - PZ2x100 mm
- **WX4190** Phase finder 3x70 mm

Tech. Code	Pieces
E616807	7
E616808	8

Boxed set

While stocks last

VDE INSULATED 1000 VOLT SCREWDRIVERS IN KIT

Wera

ITEM: 1060 I/1062 I/6

Set of 6 VDE screwdrivers insulated up to 1000 volts, compliant with IEC 60900, with Kraftform handle.



Composition:

- **1062 i PH** PH1x80 - PH2x100 mm Phillips screwdrivers
- **1060 i** Slotted screwdrivers 2.5x80 - 3.5x100 - 4x100 - 5.5x125 mm

Tech. Code	Pieces
E618306	6

VDE INSULATED 1000 VOLT SCREWDRIVERS IN KIT

Wera

ITEM: 160 I/7 VDE

Set of 7 VDE screwdrivers, insulated up to 1000 Volts, compliant with the standare regulations IEC 60900 standard, with **Kraftform Plus** handle and wall rack bracket.



Composition:

- **160I** Screwdrivers 2.5x80 - 3.5x100 - 4x100 - 5.5x125 mm
- **162I PH** PH1x80 - PH2x100 mm Phillips screwdrivers
- **247** Phase finder 3x70 mm

Tech. Code	Pieces
E618507	7

MAGNETIZER FOR TOOLS

Wera

ITEM: 9500

To magnetize or demagnetize screwdriver and bit tips by rubbing the tool along the positive or negative side of the tool.



Tech. Code	Dimension mm	Weight g
E609500	150 x 95 x 20	41

SET OF SCREWDRIVERS STUBBY FOR SLOTTED AND PHILLIPS® SCREWS

WODEX



ITEM: WX4270/S4

Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Composition:

WX4020 5.5x38 - 6.5x38 mm
WX4070 PH1x38 - PH2x38 mm

Tech. Code	Pieces
E609404	4

Boxed set

SUPPORT FOR SCREWDRIVERS

Wera

ITEM: E6099



Wall mount supports for standard screwdrivers with provision for 7 assorted tools.
For round or hexagonal blades from 2 to 7 mm.
Holes for wall mounting Ø 4,8 mm - between holes 170 mm.

Tech. Code	Dimension mm
E609900	188 x 80 x 50

TORQUE WRENCH KITS

wiha

NEW

ITEM: EASY TORQUE KEY SET 47197 - 47198



Set of easyTorque torque wrenches with fixed torque for controlled tightening in hard-to-reach places, audible and tactile click when the manufacturer's pre-set torque value is reached, tightening accuracy ± 10% in accordance with EN ISO 6789 1-2017. The wrenches can also be used for unscrewing operations with a force up to 30% higher than the fixed torque.

Set composition E634018:
Torque wrenches 0.6 Nm - 0.9 Nm - 1.2 Nm - 1.5 Nm - 2.2 Nm - 3.0 Nm
TORX® blades T6 x 110 - T7 x 110 - T8 x 110 - T9 x 110 - T10 x 110 - T15 x 110 mm
TORX PLUS® blades 6IP x 110 - 7IP x 110 - 8IP x 110 - 9IP x 110 - 10IP x 110 - 15IP x 110 mm
Painted metal bench stand

Set composition E634022:
Torque wrenches 0.6 Nm - 0.9 Nm - 1.2 Nm - 1.5 Nm - 2.2 Nm - 3.0 Nm - 3.8 Nm - 5.0 Nm
TORX® blades T6 x 110 - T7 x 110 - T8 x 110 - T9 x 110 - T10 x 110 - T15 x 110 - T20 x 110 mm
TORX PLUS® blades 6IP x 110 - 7IP x 110 - 8IP x 110 - 9IP x 110 - 10IP x 110 - 15IP x 110 - 20IP x 110 mm
Painted metal bench stand

Tech. Code	Pieces
E634018	18 + 1
E634022	22 + 1

FIXED-TORQUE SCREWDRIVERS

GEDORE

NEW

ITEM: ESD FH



Fixed-torque torque screwdrivers**(without scale)** with a slip mechanism that eliminates the possibility of exceeding the preset value; when the preset torque is reached, the handle turns to zero. **These torque tools must be pre-set** with a suitable calibration device and locked to the desired value (within the range provided for the chosen tool), alternatively for an additional cost it is possible to order them already pre-set by specifying the desired torque.

Features:
- Tightening accuracy ± 6%.
- For controlled right-hand and left-hand tightening
- Suitable for mass production in the electronics industry and precision mechanics
- EPA (Electrostatic Protected Area) compliant, for use with electrostatic sensitive components

Tech. Code	Capacities (*) Nm	Coupling ○	L mm	Weight g	Supplier art.
E63620025	(0,05 - 0,25)	1/4"	132	210	ESD 25 FH
E63620150	(0,2 - 1,5)	1/4"	132	210	ESD 150 FH
E63620450	(0,5 - 4,5)	1/4"	140	230	ESD 450 FH
E63621350	(2,5 - 13,5)	1/4"	140	230	ESD 1350 FH

EDS 450 FH and EDS 1350 FH are supplied with a sliding lever
(*) Range within which the tool can be pre-set

TORQUE SCREWDRIVERS

GEDORE NEW

ITEM: QUICKSET QS FH BLUE

Adjustable torque wrenches with a slipping mechanism that eliminates the possibility of exceeding the preset value; when the preset torque is reached, the handle turns to zero. The torque adjustment mechanism is located on the front of the handle and has a locking ring.



Features:
- Tightening accuracy ± 6%.
- For controlled right-hand and left-hand tightening
- Reading scale in cNm or Nm depending on model
- Suitable for mass production and quality control
- QS 6 FH and QS 9 FH are designed for use with a 1/4" T lever

Tech. Code	Capacities Nm	Capacities cNm	Coupling O	Resolution Nm	L mm	Weight g	Supplier art.
E6364012	-	24 - 120	1/4"	0,1	169	230	QS M/N FH BLUE
E6364060	1,2 - 6	-	1/4"	0,1	184	494	QS 6 FH BLUE
E6364090	4 - 9	-	1/4"	0,1	184	494	QS 9 FH BLUE

Screwdrivers are supplied with a UNI EN ISO 6789 1-2017 calibration certificate

TORQUE SCREWDRIVERS

GEDORE NEW

ITEM: ERGO QUICKSET QSN FH

Adjustable torque wrenches with a slipping mechanism that eliminates the possibility of exceeding the preset value; when the preset torque is reached, the handle turns to zero. The torque adjustment mechanism is located on the front of the handle and has a locking ring.



Features:
- Tightening accuracy ± 6%.
- For controlled right-hand and left-hand tightening
- Approved for use in electrostatic discharge (ESD) protected areas, EPA compliant
- Reading scale in cNm or Nm depending on model
- Suitable for mass production in the electronics sector and for quality control
- QSN 600 FH and QSN 900 FH are designed for use with a 1/4" T-lever

Tech. Code	Capacities Nm	Capacities cNm	Coupling O	Resolution Nm	L mm	Weight g	Supplier art.
E6366004	-	8 - 40	1/4"	0,01	159	124	QSN 40 FH
E6366012	-	24 - 120	1/4"	0,01	183	230	QSN 120 FH
E6366060	1,2 - 6	-	1/4"	0,1	196	335	QSN 600 FH
E6366090	4 - 9	-	1/4"	0,1	196	335	QSN 900 FH

Screwdrivers are supplied with a UNI EN ISO 6789 1-2017 calibration certificate

DYNAMOMETRIC SCREWDRIVERS

wiha

ITEM: ITORQUE®

Standard DIN EN ISO 6789

Dynamometric screwdrivers with interchangeable blade for right-handed controlled tightening with mechanical torque adjustment and large digital display for easy reading of torque values. Can also be used for unscrewing operations with a maximun force 30% higher than the preset torque.



Features:
- Adjustable mechanical torque on the end of the handle
- Easy to read digital display with torque indicaton
- Clearly audible click sound when preset torque is reached
- Counter of applications excuted "Click Control"
- Calibration Alarm" function upon reaching 5000 applications
- Switchable unit of measurement Nn- in.1b - cNm - in. oz
- Can be used with adapter for 1/4" hexagonal shank bits DIN 3126-C 6.3 (supplied)
- Can be used with adapter for 1/4" socket wrenches (optional)
- Can be used with extra thin interchangeable blades (optional)

Tech. Code	Capacity Nm	Tolerance +/-	Coupling O	L mm	Ø max mm	For blades Series
E640015	0,4 - 1,5	6%	4 mm	134	34	2859
E640030	0,8 - 3,0	6%	4 mm	134	34	2859
E640050	1,0 - 5,0	6%	4 mm	134	40	2859

DYNAMOMETRIC SCREWDRIVERS



ITEM: TORQUEVARIO®-S

Standard DIN EN ISO 6789

Torque screwdrivers with interchangeable blade for right-handed controlled tightening with mechanical torque adjustment. Can also be used for unscrewing operations with a maximum force 30% higher than the preset torque.

Features:
- Value of the mechanical torque adjustable using the Torque-Setter adjustment tool
- Clear audible click when preset torque is reached
- Can be used with adapter for 1/4" hexagonal shank bits DIN 3126-C 6.3 (Optional)
- Can be used with adapter for 1/4" socket wrenches (Optional)
- Can be used with extra thin interchangeable blades (Optional)

Tech. Code	Capacity Nm	Tolerance +/-	Coupling ◉	Length mm	Ø max mm	For blade series
E64050410	0,04 - 0,46 *	10%	4 mm	127	23	2859
E64050610	0,1 - 0,6	10%	4 mm	127	23	2859
E6405066	0,1 - 0,6	6%	4 mm	127	23	2859
E6405106	0,4 - 1,0	6%	4 mm	127	23	2859
E6405206	0,5 - 2,0	6%	4 mm	131	30	2859
E6405506	0,8 - 5,0	6%	4 mm	138	36	2859
E6405706	2,0 - 7,0	6%	4 mm	142	41	2859

*** Accuracy guaranteed in the torque range 0.1 - 0.46 Nm**
Torque adjustment tool included.

DYNAMOMETRIC SCREWDRIVERS IN SET



ITEM: TORQUEVARIO®-S

Standard DIN EN ISO 6789

Sets in a case complete with adapter and bit set hexagonal shank 1/4" DIN 3126-C 6.3.

Composition **E641013A**:
- TorqueVario®-S screwdriver with adjustable torque 0.8 - 5.0 Nm
- Adapter for bits with hexagon socket 1/4" DIN 3126-C 6.3
- Torque setting tool Torque-Setter
- Phillips® PH1 - PH2 1/4 "x25 cross recessed inserts
- Screwdriver Bits 1/4 "x25 Pozidriv® PZ1- PZ2
- HEX 3 - HEX 4 mm 1/4 "x25 hexagonal inserts
- Inserts 1/4 "x25 Torx® T10 - T15 - T20 - T30

Composition **E641013B**:
- TorqueVario®-S screwdriver with adjustable torque 0.8 - 5.0 Nm
- Adapter for bits with 1/4" hexagon socket DIN 3126-C 6.3
- Torque setting tool Torque-Setter
- Inserts 1/4 "x25 Torx® T7 - T8 - T9 - T10 - T15
- Inserts 1/4 "x25 Torx-Plus® 7IP - 8IP - 9IP - 10IP - 15IP

Tech. Code	Pieces	Composition
E641013A	13	A
E641013B	13	B

DYNAMOMETRIC SCREWDRIVERS



ITEM: TORQUEFIX®

Standard DIN EN ISO 6789

Interchangeable blade dynamometric screwdrivers with fixed mechanical torque for right-handed controlled tightening in series production and repetitive applications. Can also be used for unscrewing operations with a maximum force 30% higher than the fixed torque.

Features:
- Clearly audible click when factory set torque is reached
- Can be used with adapter for 1/4" hexagonal shank bits DIN 3126-C 6.3 (Optional)
- Can be used with adapter for 1/4" socket wrenches (Optional)
- Can be used with extra thin interchangeable blades Series 2859 (Optional)

Tech. Code	Capacity Nm	Tolerance +/-	Coupling ◉	L mm	Ø max mm	For blade series
E641504	0,4	6%	4 mm	112	23	2859
E641505	0,5	6%	4 mm	112	23	2859
E641506	0,6	6%	4 mm	112	23	2859
E641508	0,8	6%	4 mm	112	23	2859
E641509	0,9	6%	4 mm	112	23	2859
E641511	1,1	6%	4 mm	119	30	2859
E641512	1,2	6%	4 mm	119	30	2859
E641515	1,5	6%	4 mm	119	30	2859
E641520	2,0	6%	4 mm	119	30	2859
E641525	2,5	6%	4 mm	119	30	2859
E641530	3,0	6%	4 mm	126	36	2859
E641538	3,8	6%	4 mm	126	36	2859
E641550	5,0	6%	4 mm	132	41	2859
E641555	5,5	6%	4 mm	132	41	2859
E641560	6,0	6%	4 mm	132	41	2859
E641572	7,2	6%	4 mm	132	41	2859

BIT HOLDERS ADAPATORS SERIES 2859 FOR DYNAMOMETRIC SCREWDRIVERS



ITEM: 27526

Screwdriver adapters with 1/4" hexagonal shank DIN 3126-C 6.3 for **Wiha iTtorque®**, **TorqueVario®-S, TorqueFix® and easyTorque** torque screwdrivers.

Tech. Code	For Bits ◉	Coupling ⬢	Ø max mm	L mm
E642000	1/4"	4 mm	11	162



ITEM: 285992

Socket wrench adapters for **Wiha iTtorque®**, **TorqueVario®-S, TorqueFix® and easyTorque** torque wrenches.

Tech. Code	For Sockets ■	Coupling ⬢	L mm
E642200	1/4"	4 mm	155

INTERCHANGEABLE BLADES SERIES 2859 FOR DYNAMOMETRIC SCREWDRIVERS



ITEM: 28590 SLOTTED
Standard DIN ISO 2380-1
Interchangeable blades for **Wiha iTtorque®**, **TorqueVario®-S, TorqueFix® and easyTorque** torque screwdrivers.
Total length 175 mm, usable length 42 mm - (*) Maximum torque supported by the blade
Version for slotted screws

Tech. Code	mm	Coupling ⬢	Torque max(*) Nm
E642520	2,0 x 0,4	4 mm	0,4
E642525	2,5 x 0,4	4 mm	0,4
E642530	3,0 x 0,5	4 mm	0,6

Tech. Code	mm	Coupling ⬢	Torque max(*) Nm
E642535	3,5 x 0,6	4 mm	1,1
E642540	4,0 x 0,8	4 mm	2,5



ITEM: 28591 PHILLIPS®
Standard DIN ISO 8764-1
Version for Phillips® cross recessed screws

Tech. Code	⊕	Coupling ⬢	Torque max(*) Nm
E6428B	PH00	4 mm	0,4
E6428C	PH0	4 mm	0,9

Tech. Code	⊕	Coupling ⬢	Torque max(*) Nm
E6428D	PH1	4 mm	3,8



ITEM: 28593 HEX
Version for hexagon socket screws

Tech. Code	⬢ mm	Coupling ⬢	Torque max(*) Nm
E643413	1,3	4 mm	0,4
E643415	1,5	4 mm	0,9
E643420	2,0	4 mm	1,8

Tech. Code	⬢ mm	Coupling ⬢	Torque max(*) Nm
E643425	2,5	4 mm	3,8
E643430	3,0	4 mm	5,5
E643440	4,0	4 mm	8,0



ITEM: 28595 TORX®
Version for Torx® screws

Tech. Code	✪	Coupling ⬢	Torque max(*) Nm
E643905	T5	4 mm	0,4
E643906	T6	4 mm	0,6
E643907	T7	4 mm	0,9
E643908	T8	4 mm	1,3
E643909	T9	4 mm	2,5

Tech. Code	✪	Coupling ⬢	Torque max(*) Nm
E643910	T10	4 mm	3,8
E643915	T15	4 mm	5,5
E643920	T20	4 mm	8,0
E643925	T25	4 mm	8,0



ITEM: 28595R TORX® MAGICSPRING®
Version with stainless steel spring that reliably holds Torx® screws

Tech. Code	✪	Coupling ⬢	Torque max(*) Nm
E644006	T6	4 mm	0,6
E644007	T7	4 mm	0,9
E644008	T8	4 mm	1,3
E644009	T9	4 mm	2,5

Tech. Code	✪	Coupling ⬢	Torque max(*) Nm
E644010	T10	4 mm	3,8
E644015	T15	4 mm	5,5
E644020	T20	4 mm	8,0

INTERCHANGEABLE BLADES SERIES 2859 FOR DYNAMOMETRIC SCREWDRIVERS

ITEM: 28596 TORX-PLUS®
Version for Torx-Plus® screws



Tech. Code	○	Coupling ⬢	Torque max(*) Nm
E644405	5IP	4 mm	0,5
E644406	6IP	4 mm	0,8
E644407	7IP	4 mm	1,3
E644408	8IP	4 mm	2.0

Tech. Code	○	Coupling ⬢	Torque max(*) Nm
E644409	9IP	4 mm	3,0
E644410	10IP	4 mm	4,5
E644415	15IP	4 mm	6,6
E644420	20IP	4 mm	8,0

ITEM: 28596R TORX-PLUS® MAGICSPRING®
Version with stainless steel spring that reliably holds Torx-Plus® screws



Tech. Code	○	Coupling ⬢	Torque max(*) Nm
E644506	6IP	4 mm	0,8
E644507	7IP	4 mm	1,3
E644508	8IP	4 mm	2,0
E644509	9IP	4 mm	3,0

Tech. Code	○	Coupling ⬢	Torque max(*) Nm
E644510	10IP	4 mm	4,5
E644515	15IP	4 mm	6,6
E644520	20IP	4 mm	8,0

Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10



The products are available in chapter K

STAHLWILLE®

QUALITY.
MADE IN STAHLWILLE

Stahlwille Perfect Control automated calibrating and adjusting unit

For the calibration and adjustment of all indication and trigger torque wrenches. Allows you to optimize the processes required by DIN EN ISO 6789-1 2017 and 6789-2 2017.





The Stahlwille laboratory

Your quality guarantee for periodic calibration services and extraordinary maintenance.
Ask your contact person for information.



MANOSKOP® 730 Quick service torque wrenches

with plug-in tool connection

If you are looking for a mechanical torque wrench that can be adjusted quickly for the next tightening operation, the MANOSKOP® 730 Quick is the ideal tool



NO RESETTING
there is no need to reset the setting, as the load is only applied to the measuring element during tightening.

QUICK
Quick adjustment from the outside, without having to remove the torque wrench with the help of two adjustment points for the upper and lower value.

QUICK ADJUSTMENT
thanks to the easy-to-operate locking lever on the handle.

MADE IN CRONENBERG
MADE IN GERMANY

TORQUE INDICATOR SCREWDRIVERS PRE-SET FOR HEXAGON SOCKET SCREWS 300 HEX



ITEM: 300 HEX

Torque Indicators pre-set for **hexagon socket** screws, with excess load signal that is distinct audible and perceptible when the pre-set torque value is reached, unlimited torque loosening to unscrew blocked screws. Kraftform grip handle multi-component with anti-rolling protection. Precision: ± 10%

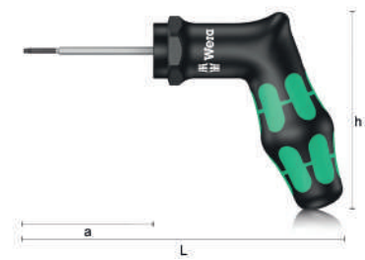
Tech. Code	○	Torque Nm	a mm	L mm
E662002	2	1,4	65	105
E662002,5	2,5	2	65	105
E662003	3	3	65	105



ITEM: 300 TX

Factory pre-set fixed torque indicator screwdrivers for **TORX®** screws based on the recommended torques provided by leading hard metal tool manufactures. With a clearly audible and perceptible excess load signal when the pre-set torque is reached, unlimited torque for loosening seized screws. Multi-component **Kraftform** handle with anti-roll protection. Accuracy: ± 10%

Tech. Code	○	Torque Nm	a mm	L mm
E66306	T6	0,6	65	170
E66307	T7	0,9	65	170
E66308	T8	1,2	65	170
E66309	T9	1,4	65	170
E663010	T10	2	65	170
E663015	T15	3	65	170



ITEM: 300 TX

With pistol grip.

Tech. Code	○	Torque Nm	a mm	L mm	h mm
E663520	TX 20	0,5	65	160	100



ITEM: 300 IP

Torque Indicators with pre-set for **TORX PLUS®** screws, set by the factory on the recommended torque by the largest hard metal tool manufactures with excess load signal that is distinct audible and perceptible when the pre-set torque value is reached, unlimited torque loosening to unscrew blocked screws. **Kraftform** grip handle multi-component with anti-rolling protection. Precision: ± 10%

Tech. Code	○	Torque Nm	a mm	L mm
E66606	6IP	0,6	65	170
E66607	7IP	0,9	65	170
E66608	8IP	1,2	65	170
E66609	9IP	1,4	65	170
E666010	10IP	2	65	170
E666015	15IP	3	65	170



ITEM: 7430 - 7431 - 7432 - 7440 - 7441

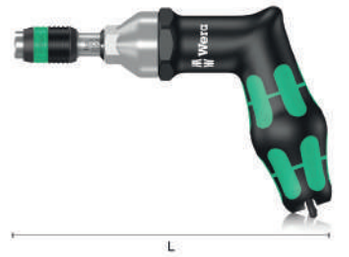
Torque screwdrivers series Kraftform 7400 with adjustable torque value without any special tools. Precision of measuremnt of ± 6% DIN EN ISO 6789 with excess load signal distinct audible and perceptible when the torque set value is reached. Model with rapidaptor technology with 1/4" hexagonal drive DIN ISO 1173-C 6.3 - E 6,3.

Tech. Code	○	Capacity Nm	Resolution step Nm	L mm
E66900,34	1/4"	0,1 - 0,34	0,015	142
E66901	1/4"	0,3 - 1,0	0,05	142
E66901,2	1/4"	0.3-1.2	0,05	155
E66901,5	1/4"	0,9 - 1,5	0,05	142
E66903	1/4"	1.2-3.0	0,10	155

ADJUSTABLE TORQUE SCREWDRIVERS 7400

ITEM: 7442 - 7443

With pistol grip.



Tech. Code	○	Capacity Nm	Resolution step Nm	L mm
E66916	1/4"	3,0 - 6,0	0,25	150
E66918,8	1/4"	4,0 - 8,8	0,40	150

ITEM: KRAFTFORM SAFE-TORQUE 7510 - 7515

Kraftform Safe-Torque Speed Series 7500 torque wrenches for torque-controlled screwdrivers with 1/4" hexagon bits according to DIN ISO 1173-C 6.3 - E 6.3. The quick-adjust button makes it very easy to set one of 5 torque values or the fixed position for use without torque control.



Features:

- For clockwise and anti-clockwise controlled tightening applications
- Sensitive and audible signal when set torque is reached
- Torque Lock function for loosening and tightening with unlimited torque value
- Robust magnetic bit holder with 1/4" hexagon socket

Tech. Code	Capacities Nm	Coupling ○	L mm	Weight g
E667003	1 - 1,5 - 2 - 2,5 - 3	1/4"	148	208
E667006	2 - 3 - 4 - 5 - 6	1/4"	148	227

TORQUE SCREWDRIVERS IN KIT

ITEM: KRAFTFORM SAFE-TORQUE 7510/14

14-piece set with Torx®, Torx Plus® and hexagonal taps in practical fabric case.



Composition:
7510 Torque screwdriver range 1 - 1.5 - 2 - 2.5 - 3 Nm
867/1IP Torx Plus® inserts 7IP - 8IP - 9IP - 10IP x 25 mm
867/1 Torx® inserts T7 - T8 - T9 - T10 - T15 x 25 mm
840/1ZHEX inserts 2 - 2.5 - 3 x 25 mm

Tech. Code	Pieces
E667214	14

ITEM: KRAFTFORM SAFE-TORQUE 7515/7

7-piece set with Torx® and hexagonal tap inserts in practical fabric case.



Composition:
7515 Torque screwdriver range 2 - 3 - 4 - 5 - 6 Nm
867/4BTZ Torx® inserts T10 - T25 x 50 mm
840/4BTZHEX inserts 2.5 - 3 - 4 - 5 x 50 mm

Tech. Code	Pieces
E667407	7

ITEM: KRAFTFORM SAFE-TORQUE 7515/16

16-piece set with Phillips®, Tamper Torx®, Torx Plus® and hexagonal tamper bits in practical fabric case.



Composition:
7515 Torque screwdriver range 2 - 3 - 4 - 5 - 6 Nm
851/4ZPH2 x 89 mm Phillips insert
867/4Z BO Tamper Torx® inserts T10BO - T15BO - T20BO - T25BO - T30BO x 89 mm
867/4IP Torx Plus® inserts 10IP - 15IP - 20IP - 25IP - 30IP x 89 mm
840/4Z HEX inserts 3 - 4 - 5 - 6 x 89 mm

Tech. Code	Pieces
E667616	16

TORQUE WRENCHES CLICK-ACTION

ITEM: CLICK-TORQUE A6

Torque wrenches Click-action for right-hand tightening with bits 1/4" hexagon drive DIN 3126 Form C 6.3, window with easily readable scale in Nm / lbf. ft., additional micrometer scale for setting the intermediate value, button for locking in reliable torque setting, audible and sensitive click mechanism when the preset torque is reached, ergonomic bi-component handle, torque tolerance +/- 4%



Tech. Code	Capacity Nm	Coupling ◉	Resolution Nm	L mm	Weight g
E6693025	2,5 ÷ 25	1/4"	0,10	290	517

The wrenches are supplied with the UNI EN ISO 6789 1-2017 calibration certificate

CLICK TYPE TORQUE SCREWDRIVERS

STAHLWILLE

ITEM: 775



TORSIOMAX 775 click type torque screwdrivers for controlled anti-clockwise or clockwise tightening in cNm and·lb ranges. Adjustable via micrometer scale with disengaging clutch that prevents the pre-set values from being exceeded.
The shape of the handle and its surface texture ensure safe and accurate transmission of torque.
Display deviation value ± 6%. 1/4" Internal hex drive (F 6.3 DIN 3126/ISO1173) for bits. Supplied with test certificate.
Specifications:
E6695003 - With swivel handle
E6695012/030/050 - With additional locking mechanism for selected torque
E6695100 - With additional screw-on handle

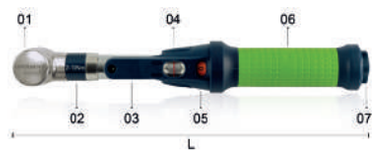
Tech. Code	Capacities cNm	Coupling ○	Resolution cNm	Weight mm	Weight g	Figure n°
E6695003	2 - 30	1/4"	0,2	105	55	1
E6695012	20 - 120	1/4"	1	157	180	2
E6695030	40 - 300	1/4"	1	160	205	2
E6695050	100 - 500	1/4"	2,5	205	420	2
E6695100	400 - 1000	1/4"	5	235	630	3

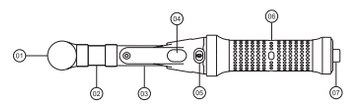
Screwdrivers are supplied with a UNI EN ISO 6789 1-2017 calibration certificate

TORQUE WRENCHES SLIP TYPE

WODEX

ITEM: WX6350





Standard DIN ISO 6789 - 1:2017
Torque wrenches slip type, the exclusive slip mechanism continuously eliminates the risk of over-tightening. 36-tooth mechanism with ratchet function for controlled clockwise direction, window with easily readable Nm scale, additional micrometre scale for setting the intermediate value, button that allows to reliably lock the torque setting way. Ergonomic handle. Torque tolerance +/- 6%.

Features:
01 - Ratchet mechanism for clockwise applications
02 - Sturdy and resistant chromed steel tube Ideal for Industrial use
03 - Serial number for traceability
04 - Window with scale in N-m
05 - Micrometre scale for precise torque
06 - NBR anti-slip ergonomic handle
07 - Button for locking the torque setting

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight g
E6696005	1 ÷ 5	1/4"	0,05	260	520

The wrenches are supplied with a UNI EN ISO 6789 1-2017 calibration certificate

While stocks last

SLIP TORQUE WRENCHES

GEDORE NEW

ITEM: TSC SLIPPER



Standard DIN ISO 6789 - 1:2017
Mechanical torque wrenches with slip mechanism that eliminates the risk of over-tightening, suitable for assembly work where controlled tightening with low torque values is required (electronic hardware and precision mechanics sector)

Features:
- For clockwise controlled tightening applications
- Integrated ratchet
- Acoustic signal when preset torque is reached
- Scale in Nm
- Tightening accuracy ± 6%.

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	SF mm	Supplier art.
E668005	1 - 5	1/4"	0,05	195	0,235	TSC-5
E668010	2 - 10	1/4"	0,1	195	0,235	TSC-10

The wrenches are supplied with a calibration certificate DIN EN ISO 6789-2:2017

TORQUE WRENCHES

Wera

NEW

ITEM: CLICK-TORQUE LOCK A 5 - CLICK-TORQUE LOCK A 5 R/L

Standard DIN EN ISO 6789-1:2017-07

Mechanical torque wrenches with ratchet wrench for controlled tightening with socket wrenches, window with easily readable scale in Nm / lbf. ft., additional micrometer scale for setting the intermediate value, push button for reliably locking the torque setting, mechanism with audible and sensitive trigger when the preset torque is reached, ergonomic two-component handle. Torque tolerance +/- 4%.
The wrenches have a Torque Lock function that allows the torque control to be deactivated and the tool to be used to loosen screws.



Specifications:

E670025 For clockwise controlled tightening applications

E670025RL For clockwise and anti-clockwise controlled tightening applications

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight g	Rotation
E670025	2,5 - 25	1/4"	0,10	299	592	Timetable
E670025RL	2,5 - 25	1/4"	0,10	299	592	Clockwise and anti-clockwise

TORQUE WRENCHES CLICK-ACTION

WODEX

ITEM: WX6362



Standard DIN EN 6789:2017 Type II Class A

Premium quality mechanical torque wrenches **Made in Germany** with integrated ratchet wrench for controlled right-hand tightening with socket wrenches. Window with easily readable Nm scale, additional micrometer scale for setting the intermediate torque value, rear button for secure locking of the preset torque, reversible ratchet, steel construction and ergonomic handle made of high-quality plastic.

Specifications:

- For clockwise controlled tightening applications
- Mechanical disengagement upon reaching the preset torque
- Sensitive and acoustic (Click) signal when the set torque is reached
- Automatic reset when the tool is released after disengagement
- Tightening accuracy ± 3% (Higher than that required by the ISO standard)

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight g
E6701025	5 ÷ 25	1/4"	0,10	286	610
E6701050	10 ÷ 50	3/8"	0,25	349	830
E6701100	20 ÷ 100	1/2"	0,50	409	1385
E6701200	40 ÷ 200	1/2"	1,00	500	1470

The keys are supplied with the DIN EN ISO 6789-2:2017 calibration certificate

ITEM: WX6372

NEW



Standard DIN EN 6789:2017 Type II Class A

Premium quality mechanical torque wrenches **Made in Germany** for controlled right-hand and left-hand tightening with rectangular tap tools. Window with easily readable Nm and lbf-ft scale, additional micrometer scale for setting the intermediate torque value, rear button for safe locking of the preset torque, steel construction and ergonomic handle made of high-quality plastic material.

Features:

- For clockwise and anti-clockwise controlled tightening applications
- Quick-change system with tool locking pin
- Mechanical disengagement when preset torque is reached
- Sensitive (Click) and audible (Click) signal when set torque is reached
- Automatic reset on tool release after disengagement
- Tightening accuracy **± 3%** (Better than ISO standard)

Tech. Code	Capacities Nm	Clutch mm	Resolution Nm	L mm	Weight g
E6697025	5 - 25	9 x 12	0,1	273	320
E6697050	10 - 50	9 x 12	0,25	323	400
E6697100	20 - 100	9 x 12	0,5	370	730

The wrenches are supplied with a calibration certificate DIN EN ISO 6789-2:2017

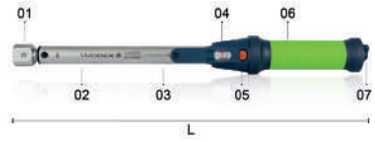
TORQUE WRENCHES CLICK-ACTION

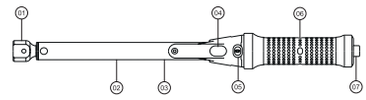
WODEX

ITEM: WX6370

Standard DIN ISO 6789 - 1:2017

Mechanical click-action torque wrenches for tightening with standard tool coupling 9x12mm. Quick-release mechanism for quick tool removal, window with scale easily readable in Nm, additional micrometre scale for setting the intermediate value, a button that reliably locks the torque setting. Ergonomic plastic handle. Torque tolerance +/- 4%.





Features:

01 - Connection with rectangular cavity 9x12 mm
02 - Sturdy and resistant chromed steel tube Ideal for Industrial use
03 - Serial number for traceability
04 - Window with scale in N-m
05 - Micrometre scale for precise torque
06 - NBR anti-slip ergonomic handle
07 - Button for locking the torque setting

Tech. Code	Capacity Nm	Coupling mm	Resolution Nm	L mm	Weight g
E6698025	5 ÷ 25	9 x 12	0,10	265	440

The wrenches are supplied with a UNI EN ISO 6789 1-2017 calibration certificate

While stocks last

TORQUE WRENCHES CLICK-ACTION

Wera

NEW

ITEM: CLICK-TORQUE A5 - B1 - C2 - C3 - C4 - C5

Torque wrenches click-action for right-hand tightening with socket wrenches, window with easily readable scale in Nm / lbf. ft., additional micrometer scale for setting the intermediate value, button for reliably locking the torque setting, audible and sensory click mechanism when the preset torque is reached, ergonomic two-component handle. Torque tolerance +/- 3% (E6704025 Tolerance +/- 4%).



Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight g
E6704025	2,5 - 25	1/4"	0,10	290	522
E6704050	10 - 50	3/8"	0,25	360	1056
E6704100	20 - 100	1/2"	0,50	405	1240
E6704200	40 - 200	1/2"	1,00	510	1457
E6704300	60 - 300	1/2"	1,00	595	1660
E6704400	80 - 400	1/2"	1,00	680	2135

The wrenches are supplied with the UNI EN ISO 6789 1-2017 calibration certificate

WODEX mro

Perfect ergonomics

TORQUE WRENCHES

GEDORE NEW

ITEM: DREMOMETER

Standard DIN EN ISO 6789:2017 TYPE II CLASS A



Square drive torque wrenches for controlled tightening with socket wrenches and, if necessary, in combination with the ratchet wrench model 754. Torque adjustment is quick and precise thanks to a retractable adjustable lever housed in the handle; when the lever is extracted, it is rotated until the desired torque is reached.
Sturdy, lightweight aluminium construction with ergonomic handle.

Features:

- For clockwise controlled tightening applications
- Acoustic release signal when preset torque is reached
- Automatic reset for subsequent locking operation
- Scale graduated in Nm and lbf.in / lbf.ft depending on model
- Tightening accuracy ± 3%.

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight kg	Supplier art.
E67420030	6 - 30	1/4"	1	268	0,60	8554-01
E67420040	8 - 40	3/8"	5	338	0,85	8560-01
E67420120	25 - 120	1/2"	5	462	1,5	8561-01
E67420200	40 - 200	1/2"	5	553	1,4	8573-00
E67420300	60 - 300	1/2"	5	618	2	8562-10
E67420360	80 - 360	3/4"	5	718	2,4	8570-10
E67420550	110 - 550	3/4"	10	812	2,9	8574-10
E67420760	155 - 760	3/4"	10	812	3,2	8563-10
E67420761	155 - 760	3/4"	10	812 - 1403 (1)	5	8563-01
E67421000	520 - 1000	3/4"	10	812 - 1403 (1)	5,6	8571-01
E67421500	600 - 1500	1"	25	932 -1608 (1)	10,8	8581-01
E67422000	750 - 2000	1"	50	932 - 2300 (2)	11,6	8564-01
E67423000	1500 - 3000	1.1/2"	50	1037 - 2450 (2)	13,5	8572-01

(1) Total length with one extension fitted (supplied)
(2) Total length with two extensions fitted (supplied)
The wrenches are supplied with a calibration certificate DIN EN ISO 6789-2:2017

TORQUE WRENCHES

GEDORE NEW

ITEM: DREMOMETER

Standard DIN EN ISO 6789:2017 TYPE II CLASS A



Square drive torque wrenches for controlled tightening with socket wrenches and, if necessary, in combination with the ratchet wrench model 754. Torque adjustment is quick and precise thanks to a retractable adjustable lever housed in the handle; when the lever is extracted, it is rotated until the desired torque is reached. Sturdy, lightweight aluminium construction with ergonomic handle.

Features:

- For **clockwise and anti-clockwise** controlled tightening applications
- Acoustic release signal when preset torque is reached
- Automatic reset for subsequent locking operation
- Scale graduated in Nm and lbf.in / lbf.ft depending on model
- Tightening accuracy ± 3%.

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight kg	Supplier art.
E67430030	6 - 30	1/4"	1	265	0,6	8559-01
E67430040	8 - 40	3/8"	5	340	1	8565-01
E67430120	25 - 120	1/2"	5	463	1,5	8566-01
E67430200	40 - 200	1/2"	5	553	1,4	8578-00
E67430300	50 - 300	1/2"	5	618	2	8567-10
E67430360	80 - 360	3/4"	5	718	2,4	8575-10
E67430550	110 - 550	3/4"	10	812	2,9	8579-10
E67430760	155 - 760	3/4"	10	812	3,2	8568-10
E67430761	155 - 760	3/4"	10	812 - 1403 (1)	5	8568-01
E67431000	520 - 1000	3/4"	10	812 - 1403 (1)	5,6	8576-01
E67431500	600 - 1500	1"	25	932 - 1608 (1)	10,8	8586-01
E67432000	750 - 2000	1"	50	932 - 2300 (2)	11,6	8569-01

(1) Total length with one extension fitted (supplied)
(2) Total length with two extensions fitted (supplied)
The wrenches are supplied with a calibration certificate DIN EN ISO 6789-2:2017

RATCHETS FOR DREMOMETER TORQUE WRENCHES

GEDORE

NEW

ITEM: 754

The 754 ratchets in combination with DREMOMETER torque wrenches allow controlled torque tightening. Chrome-vanadium steel body and fine tooth pitch gears.

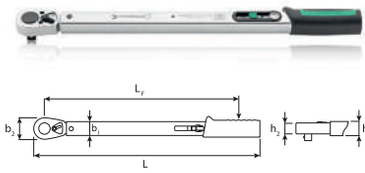


Tech. Code	Coupling □	Coupling ■	Capacities Nm	Use	Supplier art.
E674414	1/4"	1/4"	30	Right-hand	754-00
E674438	3/8"	3/8"	135	Right-hand	754-01
E674438L	3/8"	3/8"	135	Left hand	754-11
E674412	1/2"	1/2"	340	Right-hand	754-02
E674412L	1/2"	1/2"	340	Left hand	754-12
E674434	3/4"	3/4"	1000	Right-hand	754-04
E674434L	3/4"	3/4"	1000	Left hand	754-14
E674410	1"	1"	2000	Right-hand	754-06
E674410L	1"	1"	2000	Left hand	754-16

TORQUE WRENCHES CLICK-ACTION

STAHLWILLE

ITEM: 721 QUICK



MANOSKOP® 721 Quick mechanical torque wrenches with quick adjustment, double stop signal, double reading scale in N-m/ft-lb. Robust steel tube body protects all delicate components, ergonomic 2-component handle with soft, oil- and grease-resistant inserts.

Features:
With **NON-removable** reversible ratchet
Tightening accuracy ± 4%

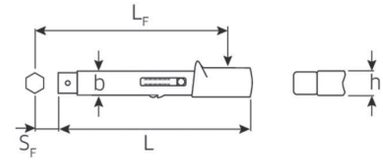
Tech. Code	Capacity Nm	Coupling ■	b1 mm	b2 mm	h1 mm	h2 mm	L mm	LF mm
E6708005	6 ÷ 50	3/8"	28	27,5	23	14,5	352	293
E6708015	30 ÷ 150	1/2"	28	41	23	18	452	387
E6708020	40 ÷ 200	1/2"	28	41	23	18	483	418
E6708030	60 ÷ 300	1/2"	28	44	23	27,5	552	486

The wrenches are supplied with a UNI EN ISO 6789 1-2017 calibration certificate.
The E6708030 wrench has a ratchet with sliding square

ITEM: 730 QUICK



Features:
With socket for 9x12 mm plug-in tools
Left-hand clamping with reversible plug-in tools possible
Tightening accuracy ± 4%



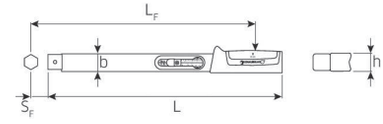
Tech. Code	Capacity Nm	Coupling mm	b mm	h mm	L mm	LF mm	SF mm
E6706002	4 ÷ 20	9 x 12	27,5	23,6	179	157,2	17,5
E6706004	8 ÷ 40	9 x 12	27,5	23,6	223	200,8	17,5

The wrenches are supplied with the UNI EN ISO 6789 1-2017 calibration certificate

ITEM: 730 QUICK



Features:
With socket for plug-in tools 9x12 - 14x18 mm
Left-hand clamping with reversible plug-in tools possible
Tightening accuracy ± 4%



Tech. Code	Capacity Nm	Coupling mm	b mm	h mm	L mm	LF mm	SF mm
E6707005	6 ÷ 50	9 x 12	28	23	315	288	17,5
E6707010	20 ÷ 100	9 x 12	28	23	370	370	17,5
E6707012	25 ÷ 130	14 x 18	28	23	410	390	25
E6707020	40 ÷ 200	14 x 18	28	23	455	435	25
E6707040	80 ÷ 400	14 x 18	28	23	590	570	25
E6707065	130 ÷ 650	14 x 18	30,6	25,6	875	855	25

The wrenches are supplied with the UNI EN ISO 6789 1-2017 calibration certificate

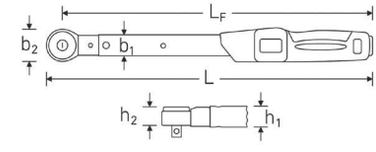
ITEM: 730NR-FK

NEW

MANOSKOP® 730N mechanical click torque wrenches with quick and precise torque setting thanks to Quick Select, double stop signal, perfect readability of the double scale with colour-coded differentiation of indications in N-m/ft-lb or ft-lb/in-lb. Ergonomic 2-component handle with soft, oil- and grease-resistant inserts.



Features:
With fine tooth pitch reversible ratchet **NOT removable**
Tightening accuracy ± 4%



Tech. Code	Capacity Nm	Coupling ■	b1 mm	b2 mm	h1 mm	h2 mm	L mm	LF mm
E6729005	10 ÷ 50	3/8"	28	33	23	24	364	280
E6729010	20 ÷ 100	1/2"	28	33	23	24	420	336
E6729020	40 ÷ 200	1/2"	28	43	23	26	514	425
E6729040	80 ÷ 400	3/4"	28	50	23	32	657	564
E6729065	130 ÷ 650	3/4"	31	58	26	36	944	848

The wrenches are supplied with a UNI EN ISO 6789 1-2017 calibration certificate.

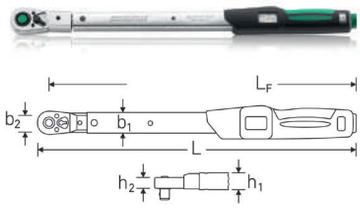
TORQUE WRENCHES

STAHLWILLE

NEW

ITEM: 730NR-QR/FK

Features:
With reversible ratchet with QuickRelease safety lock **NOT removable**
Tightening accuracy ± 4%



Tech. Code	Capacity Nm	Coupling ■	b1 mm	b2 mm	h1 mm	h2 mm	L mm	LF mm
E6730005	10 ÷ 50	3/8"	28	29	23	15	373	291
E6730010	20 ÷ 100	1/2"	28	29	23	15	429	346
E6730020	40 ÷ 200	1/2"	28	41	23	18	526	438

The wrenches are supplied with a UNI EN ISO 6789 1-2017 calibration certificate.

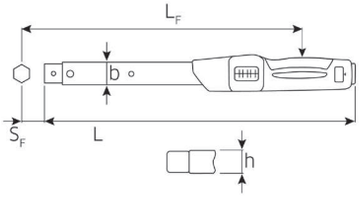
TORQUE WRENCHES FOR INSERT TOOLS

STAHLWILLE

ITEM: 730 N

Features:
With socket for plug-in tools 9x12 - 14x18 - 22x28 mm
Left-hand clamping with reversible plug-in tools possible
Tightening accuracy ± 3%.





Tech. Code	Capacity Nm	Coupling mm	b mm	h mm	L mm	LF mm	SF mm
E6710002	4 ÷ 20	9 x 12	28	23	275	226	17,5
E6710005	10 ÷ 50	9 x 12	28	23	330	280,5	17,5
E6710010	20 ÷ 100	9 x 12	28	23	386	336	17,5
E6710012	25 ÷ 130	14 x 18	28	23	421	379	25
E6710020	40 ÷ 200	14 x 18	28	23	467	424	25
E6710040	80 ÷ 400	14 x 18	28	23	607	564,5	25
E6710065	130 ÷ 650	14 x 18	30,6	25,6	890	848	25
E6710066	130 ÷ 650	22 x 28	30,6	25,6	911	900	55
E6710080	160 ÷ 800	22 x 28	30,6	25,6	1178	1167	55
E6710100	200 ÷ 1000	22 x 28	30,6	25,6	1363	1352	55

The torque wrenches are supplied with a UNI EN ISO 6789 1-2017 certificate

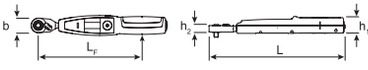
ELECTRONIC TORQUE WRENCHES

STAHLWILLE

ITEM: 701/2



Electronic torque wrenches **SENSOTORK® 701** from a very slim and compact shape to pairs reduced from 1 Nm, unit of measure: N·m, cN·m, ft·lb, in·lb, Idependent measurement of the point of attachment of the force, additional functions with SENSOMASTER 4 downloadable software for free, possibility to set the screwing situation, process evaluation screwing with coloured LED buzzer and vibration. Deviation of indication ± 4%. Equipped with calibration ratio. Standard equipment includes 1 lithium Battery 3,6 V, type 14500.

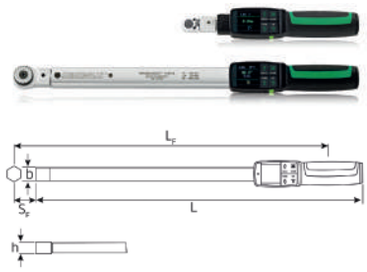


Tech. Code	Capacity Nm	Coupling ■	b mm	h1 mm	h2 mm	L mm	LF mm
E6715002	1 ÷ 20	1/4"	22,6	26	10	210	160

The torque wrenches are supplied with UNI EN ISO 6789 1-2017 certificate

DIGITAL TORQUE WRENCHES

STAHLWILLE



ITEM: MANOSKOP® 714R

Digital display and trigger torque wrenches. Thanks to the combination of the patented electromechanical trigger, display and acoustic feedback, the wrench offers optimised indication.

Features:

- Torque measurement (scales in Nm and ft-lb)
- Measuring the angle of rotation
- Torque measurement with 'angle of rotation' monitoring variable
- Rotation angle measurement with 'torque' monitoring variable
- For clockwise and anti-clockwise controlled tightening applications
- Visual evaluation of controlled locking by light signal
- Micro USB interface for data communication
- Data storage for up to 2,500 tightening operations (including date and time)
- Up to 200 screw connections can be programmed in up to 25 sequences
- Quick and precise setting via keypad
- Tightening accuracy ± 2%

Version:

- With removable ratchet

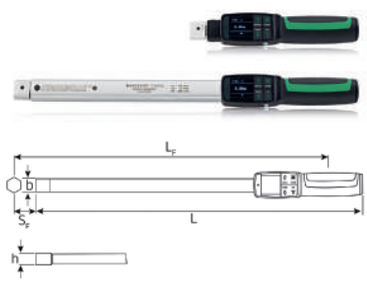
Tech. Code	Capacity Nm	Coupling ■	Coupling mm	b mm	h mm	L mm	LF mm	SF mm
E6712001	1 ÷ 10	1/4"	9 x 12	28	23	226	188	17,5
E6712002	2 ÷ 20	1/4"	9 x 12	28	23	226	188	17,5
E6712004	4 ÷ 40	1/4"	9 x 12	28	23	252	214	17,5
E6712006	6 ÷ 60	3/8"	9 x 12	28	23	393	355	17,5
E6712010	10 ÷ 100	1/2"	9 x 12	28	23	466	428	17,5
E6712020	20 ÷ 200	1/2"	14 x 18	28	23	547	516	25
E6712040	40 ÷ 400	3/4"	14 x 18	28	23	687	656	25
E6712065	65 ÷ 650	3/4"	22 x 28	30,6	25,6	890	890	55
E6712080	80 ÷ 800	3/4"	22 x 28	30,6	25,6	1158	1158	55
E6712100	100 ÷ 1000	3/4"	22 x 28	30,6	25,6	1343	1343	55

The wrenches are supplied with 2 DIN EN ISO 6789-2:2017 calibration certificates (torque and angle of rotation)
Standard delivery includes SENSOMASTER Basic software, USB cable, 4 micro AAA/LR03 1.5 V batteries

DIGITAL TORQUE WRENCHES

STAHLWILLE

NEW



ITEM: MANOSKOP® 714

Digital indicating and triggering torque wrenches. By combining the patented electromechanical trigger, colour OLED display and acoustic feedback, the wrench offers optimised signalling.

Features:

- Torque measurement (Scale in Nm - ft-lb - in-lb)
- Measuring the angle of rotation
- Torque measurement with 'angle of rotation' monitoring variable
- Rotation angle measurement with 'torque' monitoring variable
- For clockwise and anti-clockwise controlled tightening applications
- Visual evaluation of controlled locking by indicator lights
- Micro USB interface for data communication (Bluetooth Low Energy module optional)
- Data storage for up to 2,500 tightening operations (including date and time)
- Up to 200 screw connections can be programmed in up to 25 sequences
- Quick and precise setting via keypad
- Tightening accuracy ± 2%

Version:

- With socket for plug-in tools 9x12 - 14x18 - 22x28 mm

Tech. Code	Capacities Nm	Clutch mm	b mm	h mm	L mm	LF mm	SF mm
E6732001	1 - 10	9 x 12	28	23	226	188	17,5
E6732002	2 - 20	9 x 12	28	23	226	188	17,5
E6732004	4 - 40	9 x 12	28	23	252	214	17,5
E6732006	6 - 60	9 x 12	28	23	393	355	17,5
E6732010	10 - 100	9 x 12	28	23	466	428	17,5
E6732020	20 - 200	14 x 18	28	23	547	516	25
E6732040	40 - 400	14 x 18	28	23	687	656	25
E6732065	65 - 650	22 x 28	30,6	25,6	890	890	55
E6732080	80 - 800	22 x 28	30,6	25,6	1158	1158	55
E6732100	100 - 1000	22 x 28	30,6	25,6	1343	1343	55

The wrenches are supplied with calibration certificates, torque indication/activation according to DIN EN ISO 6789-2:2017 and angle of rotation according to VDI/VDE 2648-2.
The scope of delivery includes the SENSOMASTER Basic software (to download from the website), USB cable, 4 AAA 1.5V micro batteries.

DIGITAL TORQUE WRENCHES

GEDORE NEW

ITEM: E-TORC P

The E-torc P electronic torque wrench simplifies tightening processes and facilitates complete traceability of screw connections in production and assembly requiring documentation. With its high measuring accuracy in both torque and angle measurement, the E-torc P meets the requirements of the industry. The intuitive signalling system guides the operator safely to the desired nominal value even under difficult working conditions.



Features:

- Bidirectional data transfer via WiFi 2.4 and 5 GHz
- Connection to production management systems (MES) via open protocol or GEDORE Software Suite

- 2D scanners for reading barcodes, QR codes and Data Matrix codes
- Optical signalling via 360° LED ring and sensory signalling via vibration and acoustics
- Memory capacity of up to 9,999 sets of measurement data, 100 tightening curves and 150 work plans
- Torque/angle recording including curve, slip value display (trace)
- Peak value measurement and preset measurement

Tech. Code	Capacity Nm	Coupling ◉	Coupling mm	Resolution Nm	L mm	Weight kg	Supplier art.
E67380010	1 - 10	-	9 x 12	±1% ±1 digit	367	0,91	3479706
E67380030	3 - 30	-	9 x 12	±1% ±1 digit	367	0,91	3479714
E67380060	6 - 60	-	9 x 12	±1% ±1 digit	367	0,91	3479722
E67380100	10 - 100	-	9 x 12	±1% ±1 digit	473	1,13	3479730
E67380200	20 - 200	-	14 x 18	±1% ±1 digit	619	1,49	3479749
E67380400	40 - 400	-	14 x 18	±1% ±1 digit	836	2,29	3479757
E67380600	60 - 600	Ø 22 mm	-	±1% ±1 digit	1062	3,03	3479765
E67381000	100 - 1000	Ø 28 mm	-	±1% ±1 digit	1495	5,60	3479773

The wrenches are supplied with a DKD-R 3-7 Class 1 calibration certificate, a USB stick with instructions and Software for data evaluation, a Li-ion 18650 battery and a USB-C cable with power adapter.
Optional: ETCP-LST wireless charging station.

DIRECT READING TORQUE WRENCHES

GEDORE NEW

ITEM: ADS

Standard DIN EN ISO 6789 - 1:2017
Direct reading torque wrenches (with indication) for controlled tightening and torque measurement of already tightened bolts. Double square drive for right- and left-handed tightening, aluminium alloy construction with oil and grease resistant ergonomic handle.



Features:

- Controlled right-hand / left-hand clamping and verification of tightening values
- Dial indicator with pointer when tightened
- Double reading scale in Nm and lbf-in
- Integrated ratchet mechanism
- Tightening accuracy ± 3%.

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight kg	Supplier art.
E6734004	0,8 - 4	1/4"	0,1	244	0,52	ADS 4
E6734008	1,6 - 8	1/4"	0,25	244	0,52	ADS 8
E6734012	2,4 - 12	1/4"	0,5	244	0,52	ADS 12 D
E6734025	5 - 25	3/8"	1	244	0,52	ADS 25
E6734040	8 - 40	3/8"	1	244	0,52	ADS 40

Models ADS 4 to ADS 40 are EPA-compliant for use in electrostatic sensitive applications
The wrenches are supplied with a calibration certificate DIN EN ISO 6789-2:2017

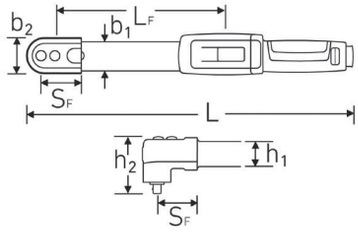
VDE INSULATED 1000 VOLT TORQUE WRENCHES

STAHLWILLE NEW

ITEM: 730R VDE

MANOSKOP® 730R VDE mechanical click torque wrenches with protective sleeve for safe and efficient work with voltages up to 1,000 volts, Insulation according to IEC 900 - AC/1000 V - DIN EN 60900. Quick and precise torque setting thanks to Quick Select, double stop signal, perfect readability of the double scale with colour differentiation of the indications in N-m/ft-lb or ft-lb/in-lb.





Features:

With **removable** ratchet with QuickRelease safety lock
Tightening accuracy ± 3%.

Tech. Code	Capacity Nm	Coupling ■	Coupling mm	b1 mm	b2 mm	h1 mm	h2 mm	L mm	LF mm	SF mm
E6736002	4 ÷ 25	3/8"	9 x 12	35	45	30	56	337	253	28
E6736005	10 ÷ 50	3/8"	9 x 12	35	45	30	56	392	308	28

The wrenches are supplied with a UNI EN ISO 6789 1-2017 calibration certificate.

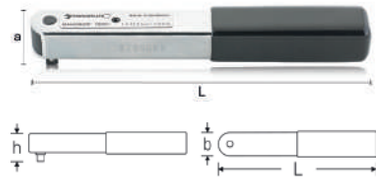
FIXED TORQUE WRENCHES

STAHLWILLE

ITEM: 755R/1

NEW

Snap-on torque wrenches with fixed torque (no setting scale) suitable for mass production. **These torque tools must be pre-set** with a suitable calibration device and locked to the desired value (within the expected range), alternatively for an additional cost it is possible to order them pre-set by specifying the desired torque.



Features:

- With fixed 1/4" square drive
- For clockwise controlled tightening applications
- Tightening accuracy ± 4%

Tech. Code	Capacity Nm	Coupling ■	b mm	h mm	L mm	Weight kg
E674601	(1,5 - 12,5) *	1/4"	22	18	174	0,4

(*) Range within which the tool can be pre-set.

FIXED TORQUE WRENCHES

STAHLWILLE

ITEM: 755

NEW

Torque wrenches with a fixed torque (without an adjustment scale) suitable for mass production. **These torque tools must be pre-set** with a suitable calibration device and locked to the desired value (within the range provided for the chosen tool), alternatively for an additional cost it is possible to order them pre-set by specifying the desired torque.





Features:

- Left-hand clamping with reversible plug-in tools possible
- Tightening accuracy ± 4%

Tech. Code	Capacity Nm	Coupling mm	b mm	h mm	L mm	LF mm	SF mm	Weight kg
E674704	(4 - 40) *	9 x 12	22	18	201	172	17,5	0,5
E674710	(20 - 100) *	9 x 12	28	24	318	289	17,5	0,64
E674720	(40 - 200) *	14 x 18	28	24	457	435	25	1,05
E674730	(60 - 300) *	14 x 18	28	24	609	587	25	1,21

(*) Range within which the tool can be pre-set.

Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

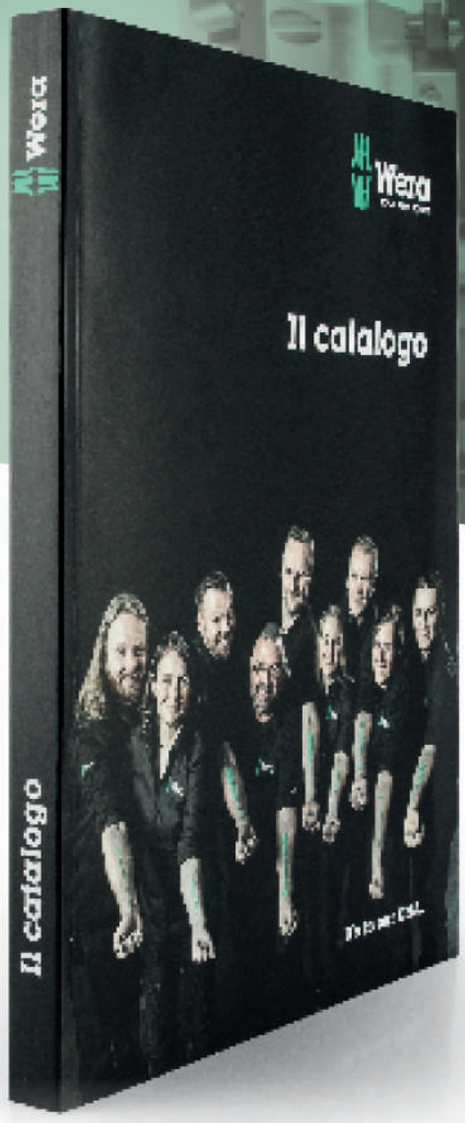
Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10



The products are available in chapter K

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RATCHET INSERTS FOR TORQUE WRENCHES

WODEX

ITEM: WX6550

Ratchet inserts 9X12 mm for torque wrenches.



Tech. Code	Capacity Nm	Coupling mm	Coupling ■	Teeth	b mm	h mm	s mm
E6716004	30	9 x 12	1/4"	52	25	15	17.5
E6716005	100	9 x 12	3/8"	52	34	22	17.5
E6716010	135	9 x 12	1/2"	52	34	24	17.5

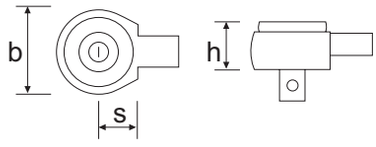
RATCHET INSERTS WITH FINE TOOTH DENTURE

STAHLWILLE

ITEM: 735 - 735HD

Reversible ratchet Insert tools with fine tooth for torque wrenches.





Tech. Code	Capacity Nm	Connection mm	Coupling ■	Teeth	b mm	h mm	s mm
E6717005	100	9 x 12	3/8"	60	33	24	17,5
E6717010	100	9 x 12	1/2"	60	33	24	17,5
E6717020	300	14 x 18	1/2"	60	43	26	25
E6717040	400	14 x 18	3/4"	60	50	31,5	25
E6717065	650	14 x 18	3/4"	60	58	36	30
E6717066	650	22 x 28	3/4"	60	61	35	55

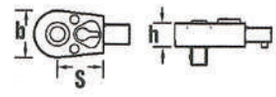
RATCHET INSERTS WITH SAFETY LOCK

STAHLWILLE

ITEM: 725QR

Reversible ratchet Insert tools with **QuickRelease** safety lock for torque wrenches.





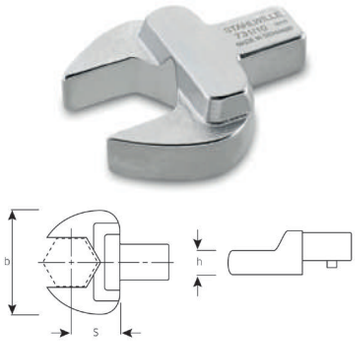
Tech. Code	Capacity Nm	Connection mm	Coupling ■	Teeth	b mm	h mm	s mm
E6720004	40	9 x 12	1/4"	22	22	13,8	17,5
E6720005	100	9 x 12	3/8"	30	29	18	28
E6720010	100	9 x 12	1/2"	30	29	18	28
E6720020	200	14 x 18	1/2"	36	41	22,3	38,5

ITEM: 731/10

Plug-In open ended wrenches 9x12 mm for torque wrenches.

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	S mm	Weight g
E672107	7	9 x 12	22	5,0	17,5	40
E672108	8	9 x 12	22	5,0	17,5	39
E672109	9	9 x 12	26	5,5	17,5	38
E672110	10	9 x 12	26	5,5	17,5	42
E672111	11	9 x 12	26	5,5	17,5	41
E672112	12	9 x 12	30	7,0	17,5	43
E672113	13	9 x 12	30	7,0	17,5	48

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	S mm	Weight g
E672114	14	9 x 12	35	8,0	17,5	52
E672115	15	9 x 12	35	8,0	17,5	51
E672116	16	9 x 12	38	8,5	17,5	58
E672117	17	9 x 12	38	8,5	17,5	60
E672118	18	9 x 12	42	9,0	20,0	71
E672119	19	9 x 12	42	9,0	20,0	74

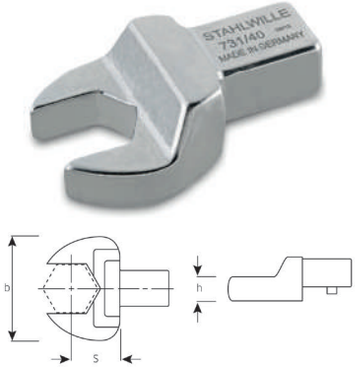


ITEM: 731/40

Plug-In open ended wrenches 14x18 mm for torque wrenches.

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	S mm	Weight g
E672213	13	14 x 18	30	7	25	128
E672214	14	14 x 18	35	8	25	129
E672215	15	14 x 18	35	8	25	132
E672216	16	14 x 18	38	9	25	140
E672217	17	14 x 18	38	9	25	136
E672218	18	14 x 18	42	10	25	147
E672219	19	14 x 18	42	10	25	145
E672221	21	14 x 18	50	11	25	171
E672222	22	14 x 18	50	11	25	165

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	S mm	Weight g
E672224	24	14 x 18	53	12	25	167
E672225	25	14 x 18	53	12	25	170
E672227	27	14 x 18	60	13	30	219
E672230	30	14 x 18	66	14	30	245
E672232	32	14 x 18	66	14	32,5	246
E672234	34	14 x 18	66	14	32,5	239
E672236	36	14 x 18	74	15	32,5	275
E672238	38	14 x 18	74	15	32,5	265
E672241	41	14 x 18	82	15	36,5	307

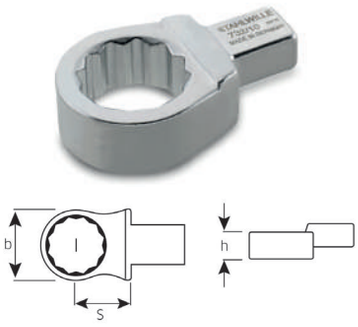


ITEM: 732/10

Plug-In ring wrenches 9x12 mm for torque wrenches.

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	S mm	Weight g
E672307	7	9 x 12	13	8	17,5	37
E672308	8	9 x 12	14,2	8	17,5	40
E672310	10	9 x 12	17,2	9	17,5	44
E672311	11	9 x 12	18,5	11	17,5	41
E672312	12	9 x 12	20,5	11	17,5	49
E672313	13	9 x 12	21,5	11	17,5	55
E672314	14	9 x 12	22,5	11	17,5	52

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	S mm	Weight g
E672315	15	9 x 12	24,5	12	17,5	52
E672316	16	9 x 12	26	12	17,5	54
E672317	17	9 x 12	27	13	17,5	59
E672318	18	9 x 12	28	13	17,5	56
E672319	19	9 x 12	30,5	13	17,5	65
E672321	21	9 x 12	33	15	17,5	71
E672322	22	9 x 12	34,5	15	17,5	74

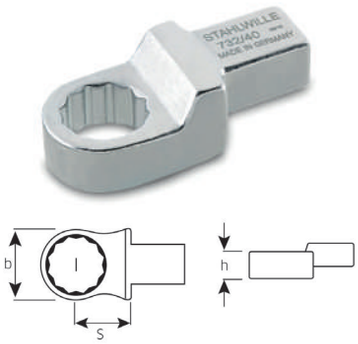


ITEM: 732/40

Plug-In ring wrenches 14x18 mm for torque wrenches.

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	S mm	Weight g
E672413	13	14 x 18	22,5	11	25	13
E672414	14	14 x 18	23	11	25	123
E672415	15	14 x 18	24	11	25	128
E672416	16	14 x 18	25,5	12	25	133
E672417	17	14 x 18	27	12	25	135
E672418	18	14 x 18	29	13	25	134
E672419	19	14 x 18	30,5	13	25	138
E672421	21	14 x 18	33	15	25	144
E672422	22	14 x 18	34,5	15	25	145

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	S mm	Weight g
E672424	24	14 x 18	37,5	15	25	153
E672427	27	14 x 18	42,5	17	25	162
E672428	28	14 x 18	45,5	19	25	175
E672430	30	14 x 18	46	19	25	182
E672432	32	14 x 18	47,5	19	25	181
E672434	34	14 x 18	52	19	28	210
E672436	36	14 x 18	54	19	28	203
E672441	41	14 x 18	60	20	30	240



PLUG-IN OPEN ENDED WRENCHES 22X28 MM FOR TORQUE WRENCHES

STAHLWILLE

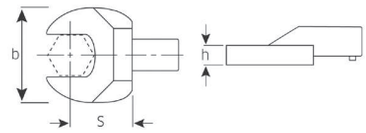
ITEM: 731/100

Plug-In open ended wrenches 22x28 mm for torque wrenches.

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	S mm	Weight g
E672624	24	22 x 28	50	13	55	628
E672627	27	22 x 28	56	14	55	648
E672630	30	22 x 28	63	15	55	695
E672632	32	22 x 28	67	15	55	713
E672634	34	22 x 28	72	15	55	739
E672636	36	22 x 28	74	15	55	727

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	S mm	Weight g
E672641	41	22 x 28	84	16	55	902
E672646	46	22 x 28	94	17	55	952
E672650	50	22 x 28	104	18	55	1074
E672655	55	22 x 28	114	19	55	1174
E672660	60	22 x 28	124	20	55	1230





ELECTRONIC CALIBRATION DEVICES

GEDORE

NEW

ITEM: CAPTURE LITE CL

Electronic test devices for checking and adjusting mechanical and digital screwdrivers and torque wrenches with right-hand rotation, measuring accuracy: +/- 1% for all readings, 3 measuring modes: friction coefficient display (track), breakpoint recognition (first peak), peak value measurement (peak), scale switchable in Nm, lbf-ft and lbf-in, data transfer and power supply via USB interface, USB cable supplied 2 m long.

Tech. Code	Capacities Nm	Coupling ⬣	Coupling □	Adapters □	Resolution Nm	Dimensions mm	Weight Kg	Supplier art.
E67800001	0,02 - 1	1/4"	-	-	0,0001	135 x 120 x 70	1,2	CL 1
E67800010	0,25 - 10	1/4"	-	1/4"	0,001	135 x 120 x 70	1,2	CL 10
E67800010S	0,25 - 10	-	1/4"	-	0,001	135 x 120 x 70	1,2	CL 10 S
E67800150	5 - 150	-	3/8"	1/4"	0,01	135 x 120 x 70	1,2	CL 150
E67800350	10 - 350	-	1/2"	3/8"	0,01	135 x 120 x 70	1,5	CL 350
E67801100	80 - 1100	36 mm	-	3/4"	0,1	140 x 120 x 100	5	CL 1100
E67803000	200 - 3000	36 mm	-	3/4"	0,1	140 x 120 x 100	5	CL 3000



Instruments are supplied with a test certificate
DAkkS-DKD certificate can be supplied on request

ITEM: DREMOTEST-E 8612

Electronic test devices for checking and adjusting mechanical and digital screwdrivers and torque wrenches with right-hand rotation, measurement accuracy: +/- 1% for all readings, scale switchable in Nm, lbf-ft and lbf-in , RS232 serial interface for PC, external power supply 120/240 V - 50 - 60 Hz.

NEW

Tech. Code	Capacities Nm	Coupling ⬣	Coupling □	Adapters □	Resolution Nm	Dimensions mm	Weight Kg	Supplier art.
E67820012	0,2 - 12	1/4"	-	1/4" - 3/8"	0,01	150 x 125 x 126	3	8612-012
E67820055	0,9 - 55	10 mm	-	1/4" - 3/8"	0,01	150 x 114 x 126	3	8612-050
E67820320	9 - 320	17 mm	-	3/8" - 1/2"	0,10	150 x 118 x 126	3	8612-300
E67821100	90 - 1100	36 mm	-	1/2" - 3/4"	1	260 x 181 x 176	10	8612-1000
E67823150	500 - 3150	-	1-1/2"	1"	1	320 x 203 x 197	26	8612-3150



Instruments are supplied with a test certificate
DAkkS-DKD certificate can be supplied on request

ELECTRONIC CALIBRATION DEVICES

STAHLWILLE

NEW

ITEM: SMARTCHECK USB

Electronic test devices for checking and adjusting screwdrivers and torque wrenches. Simple, fast and reliable testing for quality assurance in production, transfer of measured values to PC via USB interface. For maximum ease of use, the instrument can be mounted in horizontal or vertical test position, the large LCD display can be rotated 180° and is easy to read from any position.



Features:

- For right-hand and left-hand controlled torque tests
- 3 units of measurement (Nm, ft-lb, in-lb)
- Data storage for up to 200 records
- Free downloadable CheckMaster software for transmitting torque values
- Operation via power supply, standard batteries or rechargeable batteries

Tech. Code	Capacities Nm	Coupling □	Adapters □	Accuracy	Dimensions mm	Weight Kg	Supplier art.
E67900010	0,25 - 10	1/4"	-	+/- 1%	120 x 167 x 124	6,56	SmartCheck 10 USB
E67900100	5 - 135	3/8"	1/4"	+/- 1%	120 x 167 x 124	6,66	SmartCheck 100 USB
E67900400	40 - 400	3/4"	1/2"	+/- 1%	120 x 167 x 124	7,04	SmartCheck 400 USB
E67900800	80 - 800	3/4"	-	+/- 1%	120 x 167 x 124	7,04	SmartCheck 800 USB
E67901500	150 - 1500	1"	-	+/- 1%	120 x 167 x 124	7,26	SmartCheck 1500 USB

Instruments are supplied with a test certificate

INSERT BITS FOR SLOTTED SCREWS

WODEX

ITEM: WX4430

Bits for slotted screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.



Tech. Code	⬭ mm	⬢	L mm
E70003005	3.0x0.5	1/4"	25
E70003506	3.5x0.6	1/4"	25
E70004005	4.0x0.5	1/4"	25
E70004506	4.5x0.6	1/4"	25

Tech. Code	⬭ mm	⬢	L mm
E70005508	5.5x0.8	1/4"	25
E70006512	6.5x1.2	1/4"	25
E70008012	8.0x1.2	1/4"	25

BITS FOR SLOTTED SCREWS 800/1 Z

Wera

ITEM: 800/1 Z

Bits for slotted screws 1/4" hexagonal drive DIN ISO 1173-D 6,3. Tencious version for universal use.



Tech. Code	⬭ mm	⬢	L mm
E70043005	3,0x0,5	1/4"	25
E70044005	4,0x0,5	1/4"	25
E70044506	4,5x0,6	1/4"	25
E70045508	5,5x0,8	1/4"	25

Tech. Code	⬭ mm	⬢	L mm
E70045510	5,5x1,0	1/4"	25
E70046512	6,5x1,2	1/4"	25
E70048012	8,0x1,2	1/4"	25
E70048016	8,0x1,6	1/4"	25

INSERT BITS FOR SLOTTED SCREWS

WODEX

ITEM: WX4435

Bits for slotted screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	⬭ mm	⬢	L mm
E70102504	2.5 x 0.4	1/4"	50
E70103506	3.5 x 0.6	1/4"	50
E70104008	4.0 x 0.8	1/4"	50
E70104506	4.5 x 0.6	1/4"	50

Tech. Code	⬭ mm	⬢	L mm
E70105510	5.5 x 1.0	1/4"	50
E70106512	6.5 x 1.2	1/4"	50
E70108012	8.0 x 1.2	1/4"	50

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS FOR SLOTTED SCREWS 800/4 Z

Wera

ITEM: 800/4 Z

Bits for slotted screws 1/4" hexagonal for bit holders DIN ISO 1173-D 6,3. Tough viscous for universal use.



Tech. Code	⬭ mm	⬢	L mm
E70143005	3,0x0,5	1/4"	50
E70143506	3,5x0,6	1/4"	50
E70144008	4,0x0,8	1/4"	50

Tech. Code	⬭ mm	⬢	L mm
E70145510	5,5x1,0	1/4"	50
E70146512	6,5x1,2	1/4"	50
E70148012	8,0x1,2	1/4"	50

INSERT BITS FOR SLOTTED SCREWS

WODEX

ITEM: WX4440

Bits for slotted screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	⬭ mm	⬢	L mm
E70153506070	3.5 x 0.6	1/4"	70

Tech. Code	⬭ mm	⬢	L mm
E70154008070	4.0 x 0.8	1/4"	70

Special inserts are available on request with a minimum production batch of 100 pieces.

INSERT BITS FOR PHILLIPS® SCREWS

WODEX

ITEM: WX4400

Bits for Phillips® screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.



Tech. Code	⊕	⬢	L mm
E70300	PH0	1/4"	25
E70301	PH1	1/4"	25

Tech. Code	⊕	⬢	L mm
E70302	PH2	1/4"	25
E70303	PH3	1/4"	25

INSERT BITS FOR PHILIPS® SCREWS

WODEX

ITEM: WX4400/IR

Impact Resistant bits particularly suitable for counteracting the extreme stresses of impact screwdrivers.
Inserts with colour-coded identification function for quick selection of the correct bit.
Bits for Phillips® cross recessed screws, hexagonal shank 1/4" DIN 3126 - Shape C 6,3. Premium Quality version.



Tech. Code	⊕	⬢	L mm
E70321	PH1	1/4"	25
E70322	PH2	1/4"	25

Tech. Code	⊕	⬢	L mm
E70323	PH3	1/4"	25

BITS FOR PHILLIPS® SCREWS 851/1 Z

Wera

ITEM: 851/1 Z

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Tenacious version for universal use.



Tech. Code	⊕	⬢	L mm
E70340	PH0	1/4"	25
E70341	PH1	1/4"	25
E70342	PH2	1/4"	25

Tech. Code	⊕	⬢	L mm
E70343	PH3	1/4"	25
E70344	PH4	1/4"	32

BITS FOR PHILLIPS® SCREWS 851/1 BTZ

Wera

ITEM: 851/1 BTZ

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.
With chromatic indentification depending on the profile (Red = Phillips) and Indication of the measurement.



Tech. Code	⊕	⬢	L mm
E70351	PH1	1/4"	25
E70352	PH2	1/4"	25

Tech. Code	⊕	⬢	L mm
E70353	PH3	1/4"	25

BITS FOR PHILLIPS® SCREWS 851/1 BDC

Wera

ITEM: 851/1 BDC

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.Diamond coating for a safe fit in the screw.
With chromatic indentification depending on the profile (Red = Phillips) and Indication of the measurement.



Tech. Code	⊕	⬢	L mm
E70361	PH1	1/4"	25
E70362	PH2	1/4"	25

Tech. Code	⊕	⬢	L mm
E70363	PH3	1/4"	25

INSERT BITS FOR PHILLIPS® SCREWS

WODEX

ITEM: WX4405

Bits for Phillips® screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	⊕	⬢	Ø mm	L mm
E70401	PH1	1/4"	4.5	50
E70402	PH2	1/4"	6	50

Tech. Code	⊕	⬢	Ø mm	L mm
E70403	PH3	1/4"	8	50

BITS FOR PHILLIPS® SCREWS 851/4 J

ITEM: 851/4 J

Bits for Philips screws, hexagonal drive 1/4" for Insert holders DIN ISO 1173-D 6,3.
Tenacious twist version to prevent early wear, for universal use.



Tech. Code	⊕	⬣	Ø mm	L mm
E70440	PH0	1/4"	2,5	50

Tech. Code	⊕	⬣	Ø mm	L mm
E70441	PH1	1/4"	4,5	50

BITS FOR PHILLIPS® SCREWS 851/4 TZ

ITEM: 851/4 TZ

Bits for Philips screws, hexagonal drive 1/4" for Insert holders DIN ISO 1173-D6,3.
Tenacious twist version to prevent early wear for universal use.



Tech. Code	⊕	⬣	L mm
E70451	PH1	1/4"	50
E70452	PH2	1/4"	50

Tech. Code	⊕	⬣	L mm
E70453	PH3	1/4"	50

BITS FOR PHILLIPS® SCREWS 851/4 BTZ

ITEM: 851/4 BTZ

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.
With chromatic indentification depending on the profile (Red = Phillips) and Indication of the measurement.



Tech. Code	⊕	⬣	L mm
E70461	PH1	1/4"	50
E70462	PH2	1/4"	50

Tech. Code	⊕	⬣	L mm
E70463	PH3	1/4"	50

ITEM: 851/4 BTH

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.
With chromatic indentification depending on the profile (Red = Phillips) and Indication of the measurement.



Tech. Code	⊕	⬣	L mm
E70471	PH1	1/4"	50
E70472	PH2	1/4"	50

Tech. Code	⊕	⬣	L mm
E70473	PH3	1/4"	50

INSERT BITS FOR PHILLIPS® SCREWS

ITEM: WX4410

Bits for Phillips® screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	⊕	⬣	Ø mm	L mm
E70501070	PH1	1/4"	4.5	70
E70501110	PH1	1/4"	4.5	110
E70501152	PH1	1/4"	4.5	152
E70502070	PH2	1/4"	6	70
E70502100	PH2	1/4"	6	100

Tech. Code	⊕	⬣	Ø mm	L mm
E70502110	PH2	1/4"	6	110
E70502152	PH2	1/4"	6	152
E70503070	PH3	1/4"	8	70
E70503110	PH3	1/4"	8	110
E70503152	PH3	1/4"	8	152

Special inserts are available on request with a minimum production batch of 100 pieces.

INSERT BITS FOR PHILLIPS® SCREWS

ITEM: WX4411

Bits with wide shank for Phillips® screws, hexagonal drive 1/4" DIN 3126-E 6.3. Strong version for universal use.



Tech. Code	⊕	⬣	Ø mm	L mm
E705111005	PH1	1/4"	5	100

Tech. Code	⊕	⬣	Ø mm	L mm
E705122007	PH2	1/4"	7	200

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS FOR PHILLIPS® SCREWS 851/4 Z

ITEM: 851/4 Z

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3. Tenacious version for universal use.



Tech. Code	⊕	⬢	Ø mm	L mm
E70541070	PH1	1/4"	4,5	70
E70541089	PH1	1/4"	4,5	89
E70541152	PH1	1/4"	4,5	152
E70542070	PH2	1/4"	6	70
E70542089	PH2	1/4"	6	89

Tech. Code	⊕	⬢	Ø mm	L mm
E70542110	PH2	1/4"	6	110
E70542152	PH2	1/4"	6	152
E70543089	PH3	1/4"	-	89
E70543152	PH3	1/4"	-	152

INSERT BITS FOR POZIDRIV® SCREWS

ITEM: WX4415

Bits for Pozidriv® screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.



Tech. Code	✪	⬢	L mm
E70601	PZ1	1/4"	25
E70602	PZ2	1/4"	25

Tech. Code	✪	⬢	L mm
E70603	PZ3	1/4"	25

INSERT BITS IMPACT FOR POSIDRIV® SCREWS

ITEM: WX4415/IR

Impact Resistant bits particularly suitable for counteracting the extreme stresses of impact screwdrivers.
Inserts with colour-coded identification function for quick selection of the correct bit.
Bits for Pozidriv® cross recessed screws, hexagonal shank 1/4" DIN 3126 - Shape C 6,3. **Premium quality** version.



Tech. Code	✪	⬢	L mm
E70621	PZ1	1/4"	25
E70622	PZ2	1/4"	25

Tech. Code	✪	⬢	L mm
E70623	PZ3	1/4"	25

BITS FOR POZIDRIV® SCREWS 855/1 Z

ITEM: 855/1 Z

Bits for Pozidriv® screws with hexagonal drive 1/4" for Insert holders DIN ISO 1173-D 6,3. Tenacious version for universal use.



Tech. Code	✪	⬢	L mm
E70640	PZ0	1/4"	25
E70641	PZ1	1/4"	25

Tech. Code	✪	⬢	L mm
E70642	PZ2	1/4"	25
E70643	PZ3	1/4"	32

INSERT BITS FOR POZIDRIV® SCREWS

ITEM: WX4420

Bits for Pozidriv® screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	✪	⬢	Ø mm	L mm
E70701	PZ1	1/4"	4.5	50
E70702	PZ2	1/4"	6	50

Tech. Code	✪	⬢	Ø mm	L mm
E70703	PZ3	1/4"	8	50

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS FOR POZIDRIV® SCREWS 855/4 TZ

ITEM: 855/4 TZ

Bits for Pozidriv® screws, hexagonal drive 1/4" for Insert holders DIN ISO 1173-D6,3.
Tenacious twist version to prevent early wear for universal use.



Tech. Code	✪	⬢	L mm
E70741	PZ 1	1/4"	50
E70742	PZ 2	1/4"	50

Tech. Code	✪	⬢	L mm
E70743	PZ 3	1/4"	50

BITS FOR POZIDRIV® SCREWS 855/4 BTZ

ITEM: 855/4 BTZ



Bits for Pozidriv® screws, hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.
With chromatic indentification depending on the profile (Black = Pozidriv) and Indication of the measurement.

Tech. Code	✪	⬢	L mm
E70751	PZ 1	1/4"	50

Tech. Code	✪	⬢	L mm
E70752	PZ 2	1/4"	50

BITS FOR POZIDRIV® SCREWS 855/4 Z

ITEM: 855/4 Z



Bits for Pozidriv® screws, with hexagonal drive 1/4" for Insert holders DIN ISO 1173-D 6,3. Tenacious version for universal use.

Tech. Code	✪	⬢	Ø mm	L mm
E70841089	PZ1	1/4"	4,5	89
E70842089	PZ2	1/4"	6	89

Tech. Code	✪	⬢	Ø mm	L mm
E70843089	PZ3	1/4"	-	89

BITS FOR HEXAGONAL SOCKET HEAD SCREWS

ITEM: WX4445



Bits for hexagonal socket head screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.

Tech. Code	⬢ mm	⬢	L mm
E7090015	1.5	1/4"	25
E709002	2	1/4"	25
E7090025	2.5	1/4"	25
E709003	3	1/4"	25
E7090035	3,5	1/4"	25
E709004	4	1/4"	25

Tech. Code	⬢ mm	⬢	L mm
E709005	5	1/4"	25
E709006	6	1/4"	25
E709007	7	1/4"	25
E709008	8	1/4"	25
E709010	10	1/4"	25

INSERT BITS FOR HEXAGONAL SOCKET HEAD SCREWS

ITEM: WX4445/IR



Impact Resistant bits particularly suitable for counteracting the extreme stresses of impact screwdrivers.
Inserts with colour coding function for quick selection of the correct bit.
Bits for hexagon socket screws, hexagonal shank 1/4" DIN 3126 - Shape C 6,3. **Premium Quality** version

Tech. Code	⬢ mm	⬢	L mm
E709203	3	1/4"	25
E709204	4	1/4"	25

Tech. Code	⬢ mm	⬢	L mm
E709205	5	1/4"	25
E709206	6	1/4"	25

BITS FOR HEXAGONAL SOCKET HEAD SCREWS 840/1 Z

ITEM: 840/1 Z



Bits for hexagonal head screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3. Tenacious version for universal use.

Tech. Code	⬢ mm	⬢	L mm
E7094015	1.5	1/4"	25
E709402	2	1/4"	25
E7094025	2.5	1/4"	25
E709403	3	1/4"	25
E709404	4	1/4"	25

Tech. Code	⬢ mm	⬢	L mm
E709405	5	1/4"	25
E709406	6	1/4"	25
E709407	7	1/4"	25
E709408	8	1/4"	25
E709410	10	1/4"	25

BITS FOR HEXAGONAL SOCKET HEAD SCREWS

ITEM: WX4450

Bits for hexagonal socket head screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	⬣ mm	⬣	L mm
E7100015	1.5	1/4"	50
E710002	2	1/4"	50
E7100025	2.5	1/4"	50
E710003	3	1/4"	50

Tech. Code	⬣ mm	⬣	L mm
E710004	4	1/4"	50
E710005	5	1/4"	50
E710006	6	1/4"	50
E710008	8	1/4"	50

BITS FOR HEXAGONAL SOCKET HEAD SCREWS 840/4 Z

ITEM: 840/4 Z

Bits for hexagonal socket head screws, hexagonal drive 1/4"for Insert holders DIN ISO 1173-D 6,3.
Tenacious version for universal use.



Tech. Code	⬣ mm	⬣	L mm
E7104015050	1,5	1/4"	50
E710402050	2	1/4"	50
E7104025050	2,5	1/4"	50
E710403050	3	1/4"	50
E710403089	3	1/4"	89
E710403152	3	1/4"	152
E710404050	4	1/4"	50
E710404089	4	1/4"	89

Tech. Code	⬣ mm	⬣	L mm
E710404152	4	1/4"	152
E710405050	5	1/4"	50
E710405089	5	1/4"	89
E710405152	5	1/4"	152
E710406050	6	1/4"	50
E710406089	6	1/4"	89
E710406152	6	1/4"	152
E710408050	8	1/4"	50

BITS FOR HEXAGONAL SOCKET HEAD SCREWS

ITEM: WX4455

Bits for hexagonal socket head screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	⬣ mm	⬣	L mm
E7110015070	1.5	1/4"	70
E711002070	2	1/4"	70
E7110025070	2.5	1/4"	70
E711003070	3	1/4"	70

Tech. Code	⬣ mm	⬣	L mm
E711004070	4	1/4"	70
E711005070	5	1/4"	70
E711006070	6	1/4"	70
E711008070	8	1/4"	70

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS WITH SPHERICAL HEAD FOR SOCKET HEAD SCREWS 842/1 Z

ITEM: 842/1 Z

Bits with spherical ball point end for socket head screws 1/4" hexagoanl drive for Inserts holders DIN ISO 1173-D 6,3. Tenacious version for universal use.



Tech. Code	⬣ mm	⬣	L mm
E7123025	2,5	1/4"	25
E712303	3	1/4"	25
E712304	4	1/4"	25

Tech. Code	⬣ mm	⬣	L mm
E712305	5	1/4"	25
E712306	6	1/4"	25

INSERT BITS FOR TORX® SCREWS

ITEM: WX4475

Bits for Torx® screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.



Tech. Code	✪	⬣	L mm
E714006	T6	1/4"	25
E714007	T7	1/4"	25
E714008	T8	1/4"	25
E714009	T9	1/4"	25
E714010	T10	1/4"	25
E714015	T15	1/4"	25

Tech. Code	✪	⬣	L mm
E714020	T20	1/4"	25
E714025	T25	1/4"	25
E714027	T27	1/4"	25
E714030	T30	1/4"	25
E714040	T40	1/4"	25

INSERT BITS FOR TORX® SCREWS

WODEX

ITEM: WX4475/IR

Impact Resistant bits particularly suitable for counteracting the extreme stresses of impact screwdrivers.
Bits with colour-coded identification function for quick selection of the correct bit.
Bits for Torx® screws, hexagonal shank 1/4" DIN 3126 - Shape C 6,3. Premium Quality version



Tech. Code	○	⬢	L mm
E714210	T10	1/4"	25
E714215	T15	1/4"	25
E714220	T20	1/4"	25

Tech. Code	○	⬢	L mm
E714225	T25	1/4"	25
E714230	T30	1/4"	25

BITS FOR TORX® SCREWS 867/1

Wera

ITEM: 867/1

Bits for Torx® screws, hexagonal drive 1/4" for Insert holders DIN ISO 1173-D6,3. Tenacious version for universal use.



Tech. Code	○	⬢	L mm
E714403	T3	1/4"	25
E714404	T4	1/4"	25
E714405	T5	1/4"	25
E714406	T6	1/4"	25
E714407	T7	1/4"	25
E714408	T8	1/4"	25
E714409	T9	1/4"	25

Tech. Code	○	⬢	L mm
E714410	T10	1/4"	25
E714415	T15	1/4"	25
E714420	T20	1/4"	25
E714425	T25	1/4"	25
E714427	T27	1/4"	25
E714430	T30	1/4"	25

BITS FOR TORX® SCREWS 867/1 BTZ

Wera

ITEM: 867/1 BTZ

Bits for Torx® screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.
With chromatic indentification depending on the profile (Green = Torx) and Indication of the measurement.



Tech. Code	○	⬢	L mm
E714510	T10	1/4"	25
E714515	T15	1/4"	25
E714520	T20	1/4"	25

Tech. Code	○	⬢	L mm
E714525	T25	1/4"	25
E714530	T30	1/4"	25
E714540	T40	1/4"	25

INSERT BITS FOR TORX® SCREWS

WODEX

ITEM: WX4480

Bits for Torx® screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	○	⬢	L mm
E715008	T8	1/4"	50
E715009	T9	1/4"	50
E715010	T10	1/4"	50
E715015	T15	1/4"	50

Tech. Code	○	⬢	L mm
E715020	T20	1/4"	50
E715025	T25	1/4"	50
E715030	T30	1/4"	50
E715040	T40	1/4"	50

INSERT BITS FOR TORX® SCREWS

WODEX

ITEM: WX4485

Bits for Torx® screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	○	⬢	L mm
E716008089	T8	1/4"	89
E716010089	T10	1/4"	89
E716010152	T10	1/4"	152

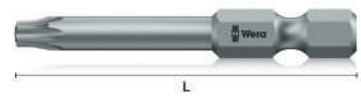
Tech. Code	○	⬢	L mm
E716020089	T20	1/4"	89
E716020152	T20	1/4"	152
E716030089	T30	1/4"	89

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS FOR TORX® SCREWS 867/4 Z

ITEM: 867/4 Z

Bits for Torx® screws with hexagonal drive 1/4" for Insert holders DIN ISO 1173-D6,3. Tenacious version for universal use.



Tech. Code	○	⬢	L mm
E716406070	T6	1/4"	70
E716408070	T8	1/4"	70
E716410070	T10	1/4"	70
E716410089	T10	1/4"	89
E716410152	T10	1/4"	152
E716415070	T15	1/4"	70
E716418089	T15	1/4"	89
E716415152	T15	1/4"	152
E716420070	T20	1/4"	70

Tech. Code	○	⬢	L mm
E716420089	T20	1/4"	89
E716420152	T20	1/4"	152
E716425070	T25	1/4"	70
E716425089	T25	1/4"	89
E716425152	T25	1/4"	152
E716430070	T30	1/4"	70
E716430089	T30	1/4"	89
E716430152	T30	1/4"	152
E716440070	T40	1/4"	70

BITS FOR TORX PLUS® SCREWS 867/1 IP

ITEM: 867/1 IP

Bits for Torx Plus® screws, with hexagonal drive 1/4" for insert holders DIN ISO 1173-D6,3.
Tenacious version for universal use.



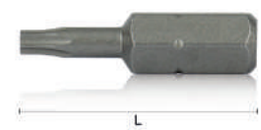
Tech. Code	○	⬢	L mm
E717306	6IP	1/4"	25
E717307	7IP	1/4"	25
E717308	8IP	1/4"	25
E717309	9IP	1/4"	25
E717310	10IP	1/4"	25
E717315	15IP	1/4"	25

Tech. Code	○	⬢	L mm
E717320	20IP	1/4"	25
E717325	25IP	1/4"	25
E717327	27IP	1/4"	25
E717330	30IP	1/4"	25
E717340	40IP	1/4"	25

INSERT BITS FOR TAMPER TORX® SCREWS

ITEM: WX4505

Bits with axial hole for Tamper-Torx® screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.



Tech. Code	⊙	⬢	L mm
E718510	T10	1/4"	25
E718515	T15	1/4"	25
E718520	T20	1/4"	25
E718525	T25	1/4"	25

Tech. Code	⊙	⬢	L mm
E718527	T27	1/4"	25
E718530	T30	1/4"	25
E718540	T40	1/4"	25

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS FOR TAMPER TORX® SCREWS 867/1 Z BO

ITEM: 867/1 Z BO

Torx® bits with axial hole for Tamper Torx® screws, hexagonal drive 1/4" for Insert holders DIN ISO 1173-D 6,3. Strong version for universal use.



Tech. Code	⊙	⬢	L mm
E718810	T10 BO	1/4"	25
E718815	T15 BO	1/4"	25
E718820	T20 BO	1/4"	25

Tech. Code	⊙	⬢	L mm
E718825	T25 BO	1/4"	25
E718830	T30 BO	1/4"	25
E718840	T40 BO	1/4"	25

BITS FOR SLOTTED SCREWS

ITEM: 7000Z

NEW

MicroBit for slotted screws, hexagonal shank 4 mm DIN 3126 - Shape C4. Tough version for universal use



Tech. Code	⬭ mm	⬢ mm	L mm
E71951503	1,5 x 0,3	4	28
E71951803	1,8 x 0,3	4	28

Tech. Code	⬭ mm	⬢ mm	L mm
E71952004	2,0 x 0,4	4	28
E71952504	2,5 x 0,4	4	28

BITS FOR HEXAGON SOCKET SCREWS

ITEM: 7003Z

MicroBit for hexagon socket screws, hexagon shank 4 mm DIN 3126 - Shape C4. Tough version for universal use.

NEW



Tech. Code	⬢ mm	⬢ mm	L mm
E719709	0,9	4	28
E719713	1,3	4	28

Tech. Code	⬢ mm	⬢ mm	L mm
E719715	1,5	4	28

NUTSETTERS

ITEM: WX4600

Nutsetters for hexagonal head screws, hexagonal drive 1/4" DIN ISO 1173-E 6.3.



Tech. Code	◉ mm	⬢	L mm	External Ø mm
E7200055050	5.5	1/4"	50	10
E7200055075	5.5	1/4"	75	10
E720006050	6	1/4"	50	10
E720006075	6	1/4"	75	10
E720006100	6	1/4"	100	10
E720007050	7	1/4"	50	12
E720007075	7	1/4"	75	12
E720007100	7	1/4"	100	12
E720008050	8	1/4"	50	13

Tech. Code	◉ mm	⬢	L mm	External Ø mm
E720008075	8	1/4"	75	13
E720008100	8	1/4"	100	13
E720010050	10	1/4"	50	15
E720010075	10	1/4"	75	15
E720010100	10	1/4"	100	15
E720013050	13	1/4"	50	19.5
E720013075	13	1/4"	75	19.5
E720017050	17	1/4"	50	25

NUTSETTERS MAGNETIC DESIGN

ITEM: WX4601

Magnetic nutsetters for hexagonal head screws, hexagonal drive 1/4" DIN ISO 1173-E 6.3.



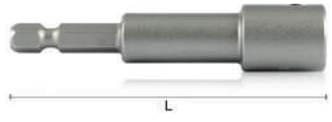
Tech. Code	◉ mm	⬢	L mm	External Ø mm
E7210055050	5.5	1/4"	50	10
E7210055075	5.5	1/4"	75	10
E721006050	6	1/4"	50	10
E721006075	6	1/4"	75	10
E721007050	7	1/4"	50	12
E721007075	7	1/4"	75	12
E721007100	7	1/4"	100	12
E721008050	8	1/4"	50	13
E721008075	8	1/4"	75	13

Tech. Code	◉ mm	⬢	L mm	External Ø mm
E721008100	8	1/4"	100	13
E721010050	10	1/4"	50	15
E721010075	10	1/4"	75	15
E721010100	10	1/4"	100	15
E721013050	13	1/4"	50	19.5
E721013075	13	1/4"	75	19.5
E721013100	13	1/4"	100	19.5
E721017050	17	1/4"	50	25

TAP WRENCHES

ITEM: WX4605

Socket spanners with grub screw, hexagon shank 1/4" DIN ISO 1173-E 6,3
Taps with reinforced shank DIN 371



Tech. Code	Taps DIN371	O mm	Shank Ø mm	⬢	L mm
E7231028	M3	2,8	3,6	1/4"	75
E7231035	M4	3,5	4,6	1/4"	75

Tech. Code	Taps DIN371	O mm	Shank Ø mm	⬢	L mm
E7231050	M5 - M6	5,0	6,1	1/4"	75
E7231063	M8	6,3	8,1	1/4"	75

TAPPING SPANNERS

ITEM: WX4610

Socket spanners with grub screw, hexagonal shank 12 mm for tapping machines with Fiam/Ober quick-change chucks.
Tap shank attachment DIN 371 and DIN 376

NEW



Tech. Code	Taps DIN371	Taps DIN376	O mm	Shank Ø mm	⬢ mm	L mm
E7234028036	M3	-	2,8	3,6	12	34
E7234035046	M4	-	3,5	4,6	12	34
E7234050061	M5 - M6	-	5,0	6,1	12	34
E7234063081	M8	-	6,3	8,1	12	34

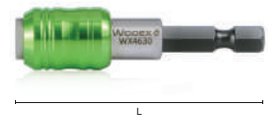
Tech. Code	Taps DIN371	Taps DIN376	O mm	Shank Ø mm	⬢ mm	L mm
E7234081101	M10	-	8,1	10,1	12	50
E7234071091	-	M12	7,1	9,1	12	50
E7234091111	-	M14	9,1	11,1	12	50
E7234091121	-	M16	9,1	12,1	12	50

MAGNETIC BIT HOLDERS

WODEX

ITEM: WX4630

Magnetic bit holders **PREMIUM QUALITY** for hexagonal bits 1/4" DIN ISO 1173-C 6.3. **Quick Release** version with powerful permanent magnet, 1/4" hexagonal drive DIN ISO 1173-E 6.3.
Features:
- Change of inserts with one hand
- External ring in aluminium



Tech. Code	◉	⬢	Ø mm	L mm
E7401060	1/4"	1/4"	15	60

MAGNETIC BIT HOLDERS

WODEX

ITEM: WX4625
Standard DIN 7427 FORMA B
Magnetic bit holders for hexagonal drive insert bits 1/4" DIN 3126-Form C 6.3. Version with stainless steel sleeve.
Hexagonal drive 1/4" DIN ISO 1173-E 6.3.



Tech. Code	◉	⬢	Ø mm	L mm
E7405050	1/4"	1/4"	10	50
E7405060	1/4"	1/4"	10	60
E7405075	1/4"	1/4"	10	75
E7405100	1/4"	1/4"	10	100

Tech. Code	◉	⬢	Ø mm	L mm
E7405150	1/4"	1/4"	10	150
E7405200	1/4"	1/4"	10	200
E7405250	1/4"	1/4"	10	250

MAGNETIC BIT HOLDERS

WODEX

ITEM: WX4626
Standard DIN 7427 FORM B
Magnetic bit holders with harmonic steel retaining ring for bits with 1/4" hexagonal shank DIN 3126-Form C 6.3.Version with stainless steel sleeve. 1/4" DIN ISO 1173-E 6.3 hex shank.



Tech. Code	◉	⬢	Ø mm	L mm
E7406050	1/4"	1/4"	10	50

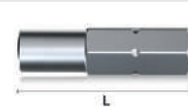
Tech. Code	◉	⬢	Ø mm	L mm
E7406075	1/4"	1/4"	10	75

MAGNETIC INSERT HOLDERS

wiha NEW

ITEM: 7103

Magnetic insert holders for MicroBit with 4 mm hexagonal shank DIN 3126 - Shape C4.
Hexagonal shank 1/4" DIN ISO 1173-E 6.3.



Tech. Code	◉ mm	⬢	L mm
E741900	4	1/4"	25

BIT HOLDERS

WODEX

ITEM: WX4640

Hexagonal bit holders 1/4" according to DIN ISO 1173-C 6.3 with spring for clamping the insert. 1/4" female square drive.



Tech. Code	◉	⬢	Ø mm	L mm
E74241/4	1/4"	1/4"	12	25

ADAPTOR WITH QUICK-RELEASE CHUCK 784 A/1

Wera

ITEM: 784 A/1 - 784 B/1 - 784 C/1

Adaptor with quick-release chuck hexagonal bit holders 1/4" DIN ISO 1173-C 6,3. Female square socket drive of 1/4".

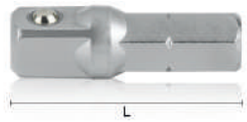


Tech. Code	◉	○	L mm
E74251/4	1/4"	1/4"	30
E74253/8	1/4"	3/8"	43
E74251/2	1/4"	1/2"	50

ADAPTERS FOR SOCKET BITS

ITEM: WX4642

Standard DIN 7428
Adapters for socket bits. Hexagonal drive 1/4" DIN ISO 1173-E 6.3.



Tech. Code	■	⬣	L mm	Specification
E74291/4	1/4"	1/4"	25	With ball

ITEM: WX4643

Standard DIN 7428
Adapters for socket bits with hexagonal drive 1/4" DIN ISO 1173-E 6.3.



Tech. Code	■	⬣	L mm	Specification
E74311/4	1/4"	1/4"	50	With ball
E74313/8	3/8"	1/4"	50	With ball
E74311/2	1/2"	1/4"	50	With ball

ADAPTERS FOR SOCKET BITS

ITEM: WX4644

Standard DIN 7428
Adapters for impact socket bits with hexagonal drive 1/4" DIN ISO 1173-E 6.3



Tech. Code	■	⬣	L mm	Specification
E74331/4	1/4"	1/4"	50	With pin
E74333/8	3/8"	1/4"	50	With pin
E74331/2	1/2"	1/4"	50	With pin

BIT-HOLDER SCREWDRIVERS STUBBY WITH INSERT SET

ITEM: WX4622

Standard DIN 3126 ISO 1173 - C 6.3
1/4" Hexagonal bit-holder screwdrivers DIN 3126 ISO 1173-C 6.3. Extra short stubby version with reversible ratchet and housing in the handle containing 7 assorted Inserts. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Composition:
WX4400 Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4430 Insert bits 1/4"x25 slotted 4.5 - 6.5 mm
WX4475 Insert bits 1/4"x25 Torx® T15 - T20

Tech. Code	◉	a mm	L mm
E749078	1/4"	18	98

BIT-HOLDER SCREWDRIVERS

ITEM: WX4635

Bit-holder screwdrivers **PREMIUM QUALITY** for electronics, eyewear and fine mechanics. Corrosion resistant aluminium body Ø 11.5 mm, shaped gripping area and rotating head Ø 25 mm for quick and precise assembly, 4-jaw brass gripper for inserts with cylindrical shank Ø 2.5 mm.



Tech. Code	Ø Joint mm	L mm
E749500	2.5	105

INSERT BITS FOR PHILLIPS® SCREWS

ITEM: WX4636
Bits for Phillips® screws, cylindrical shank Ø 3/32" for bit-holder screwdrivers Wodex WX4635. Strong version for universal use.



Tech. Code	✪	Ø Joint mm	L mm
E74960030	PH00	2.5	30

Tech. Code	✪	Ø Joint mm	L mm
E7496030	PH0	2.5	30

INSERT BITS FOR SLOTTED SCREWS

ITEM: WX4637

Bits for slotted screws, cylindrical shank Ø 3/32" for bit-holder screwdrivers Wodex WX4635. Strong version for universal use.



Tech. Code	mm	Ø Joint mm	L mm
E74970930	0.9	2.5	30
E74971530	1.5	2.5	30
E74971830	1.8	2.5	30

Tech. Code	mm	Ø Joint mm	L mm
E74972030	2.0	2.5	30
E74972530	2.5	2.5	30
E74973030	3.0	2.5	30

METAL DRILL BITS WITH 1/4" HEXAGON SOCKET

ITEM: WX7270

NEW

Ground HSS-G twist drills for work on steels with tensile strengths up to 800 N/mm².
1/4" hexagonal shank for use with drills and hand-held screwdrivers.



Tech. Code	D mm	l mm	L mm
E7498020	2	12	34
E7498025	2,5	14	36
E7498030	3	16	38
E7498033	3,3	18	40
E7498035	3,5	18	40
E7498040	4	20	44
E7498042	4,2	20	46
E7498045	4,5	22	48
E7498050	5	26	50
E7498055	5,5	26	50
E7498060	6	26	50

Tech. Code	D mm	l mm	L mm
E7498065	6,5	28	50
E7498068	6,8	28	50
E7498070	7	30	52
E7498075	7,5	30	52
E7498080	8	30	52
E7498085	8,5	30	52
E7498090	9	30	52
E7498095	9,5	30	52
E7498100	10	30	52
E7498102	10,2	30	52

90° COUNTERSINKS Z3 WITH 1/4" HEXAGON SOCKET

ITEM: WX7420

NEW

Z3 90° countersinks in HSS DIN 335-C for countersinking in metals, aluminium and plastics.
1/4" hexagon socket for use with drills and hand-held screwdrivers.



Tech. Code	D mm	d1 mm	L mm
E7500063	6,3	1,5	31
E7500083	8,3	2,0	31
E7500104	10,4	2,5	34

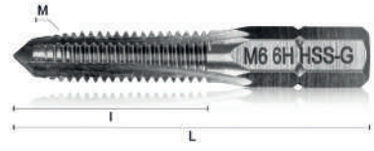
Tech. Code	D mm	d1 mm	L mm
E7500124	12,4	2,8	35
E7500165	16,5	3,2	40
E7500205	20,5	3,5	41

1/4" HEXAGONAL TAPS

ITEM: WX7370

NEW

HSS taps for through-holes and blind holes in steels with tensile strength up to 800 N/mm².
1/4" hexagon socket for use with drills and hand-held screwdrivers.



Tech. Code	M	l mm	L mm
E750403	3	13	33
E750404	4	15	35
E750405	5	19	36

Tech. Code	M	l mm	L mm
E750406	6	21	39
E750408	8	21	40
E750410	10	22	41

COMBINATION DRILL-THREAD TAPS WITH 1/4" HEXAGONAL DRIVE

ITEM: WX7372

NEW

Multi-purpose tools for drilling, threading and countersinking on low-alloy steels with tensile strength up to 600 N/mm².
1/4" hexagon socket for use with hand-held drills and screwdrivers.



Tech. Code	M	l mm	L mm
E750503	3	5	36
E750504	4	6	39
E750505	5	7	41

Tech. Code	M	l mm	L mm
E750506	6	8	44
E750508	8	11	51
E750510	10	15	59

BIT-HOLDER SCREWDRIVERS

ITEM: WX4620



Standard DIN 3126 - ISO 1173 - C 6.3

1/4" Hexagonal bit-holder screwdrivers DIN ISO 1173-C 6.3. **PREMIUM QUALITY** quick change model for one-handed use. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	◉	L mm
E7515119	1/4"	142

BIT HOLDER SCREWDRIVERS WITH TELESCOPIC BLADE 817 R

ITEM: 817 R

Bit holders 1/4" hexagonal drive DIN ISO 1173-C 6,3 - E 6,3 and Wera series 1 and 4. Telescopic blade version, magnet and Rapidaptor quick release chuck function rapid-in, rapid-out, rapid-spin, chuck-all and can be used with one hand only. **Kraftform** grip handle multi-component with anti-rolling protection.

Tech. Code	◉	L mm
E7520133	1/4"	133



ITEM: 812/1

Bit holder for bits 1/4" hexagonal drive DIN ISO 1173-C 6,3 - E 6,3 and Wera series Inserts. Hexagonal blade version, matt nickel chrome with permanent magnet of high resistence. **Kraftform** grip handle multi-component with anti-rolling protection.

Tech. Code	◉	a mm	L mm
E752600	1/4"	120	232



ITEM: 838 RA-R M

Screwdrivers with ratchet integrated in the handle simplify and speed up screwdriving operations, the ratchet mechanism allows right and left-handed rotation. Magnetic quick-change toolholders for 1/4" hexagon bits to DIN ISO 1173-C 6.3 and E 6.3 (ISO 1173)

NEW

Tech. Code	◉	L mm
E752500	1/4"	124
E752500L	1/4"	140



ITEM: KRAFTFORM KOMPAKT 27 RA 2

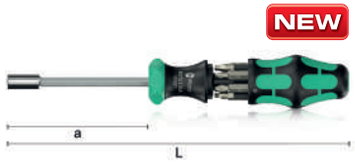
Screwdrivers with bit magazine and ratchet mechanism integrated in the handle, the ratchet allows right and left-handed rotation. Magnetic bit holder for 1/4" hexagonal bits according to DIN ISO 1173-C 6.3 and E 6.3 (ISO 1173)

NEW

Composition:

851/1 Z PH1x25 - PH2x25 mm cross recessed inserts
800/1 Z Slotted inserts 5.5x1x25 - 6.5x1.2x25 mm
868/1 Z Square drive inserts #1x25 - #2x25 mm
27 RA 2 Ratchet screwdrivers

Tech. Code	Pieces
E752707	7

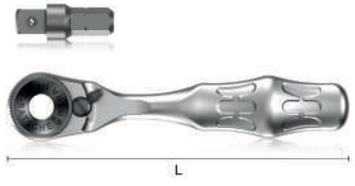


REVERSIBLE RATCHETS

ITEM: 8001 A ZYKLOP MINI 1

Reversible ratchets for 1/4" hexagonal bit holders according to DIN ISO 1173-C 6.3

Tech. Code	◉	L mm
E75281/4	1/4"	87



INSERT BITS AND INSERT HOLDERS - INDUSTRIAL SET 31 PIECES

ITEM: WX4590/31

Assortment consisting of a magnetic bit holder with stainless steel sleeve and 30 bits for universal use.
Sturdy tool case made of impact-resistant plastic.

Composition:

WX4400 Phillips bits PH0x25 - PH1x25 (2 Pcs) - PH2x25 (2 Pcs) - PH3x25 mm
WX4415 Cross recessed inserts PZ1x25 - PZ2x25 - PZ3x25 mm
WX4430 Slotted bits 3.0x25 - 4.5x25 - 6.5x25 mm
WX4445 HEX hexagonal inserts 2x25 - 2.5x25 - 3x25 (2 Pcs) - 4x25 (2 Pcs) - 5x25 (2 Pcs) - 6x25 - 8x25 mm
WX4475 TORX® bits T9x25 - T10x25 - T15x25 - T20x25 - T25x25 - T27x25 - T30x25 - T40x25 mm
WX4625 Magnetic toolholders with 1/4" hexagonal shank 60 mm

Tech. Code	Pieces
E752931	31



BITS AND HOLDERS BIT-CHECK SET 30 METAL 1



ITEM: BIT-CHECK 30 METAL 1

Assortment consisting of a universal bit holder and 29 tough bits for universal use.

Composition:

899/4/1	Universal bit holders 1/4 "x50 mm
851/1 Z	Phillips bits PH1x25 (3 Pcs) - PH2x25 (3 Pcs) - PH3x25 (2 Pcs) mm
855/1 Z	Phillips bits PZ1x25 (3 Pcs) - PZ2x25 (3 Pcs) - PZ3x25 (3 Pcs) mm
867/1	TORX® T10x25 - T15x25 - T20x25 - T25x25 - T30x25 - T40x25 mm inserts
800/1 Z	Cutting inserts 4.5x25 - 5.5x25 - 6.5x25 mm
840/1 Z	HEX hexagonal bits 4x25 - 5x25 - 6x25 mm

Tech. Code	Pieces
E753630	30



ITEM: BIT-CHECK 10 UNIVERSAL 1

Assortment consisting of a quick-change toolholder and 9 TZ bits with a torque zone that absorbs peak loads, for universal use.

Composition:

895/4/1 K	Universal quick-change toolholders 1/4 "x52 mm
851/1 TZ	PH1x25 - PH2x25 - PH3x25 mm cross recessed inserts
855/1 TZ	Cross recessed inserts PZ1x25 - PZ2x25 - PZ3x25 mm
800/1 TZ	Cutting inserts 5.5x0.8x25 - 5.5x1x25 - 6.5x1.2x25 mm

Tech. Code	Pieces
E753810	10



ITEM: BIT-CHECK 7 TX UNIVERSAL 1

Assortment consisting of a bit holder and 6 bits for universal use.

867/1	TORX® T10x25 - T15x25 - T20x25 - T25x25 - T30x25 - T40x25 mm inserts
893/4/1 K	Universal toolholders 1/4 "x50 mm

Tech. Code	Pieces
E753907	7



ITEM: BIT-CHECK 10 TX UNIVERSAL 1

Assortment consisting of a quick-change toolholder and 9 TZ bits with a torque zone that absorbs peak loads, for universal use.

Composition:

894/4/1 K	Universal quick-change toolholders 1/4 "x51 mm
867/1 TZ	TORX® bits T8x25 - T9x25 - T10x25 - T15x25 - T20x25 - T25x25 - T27x25 - T30x25 - T40x25 mm

Tech. Code	Pieces
E754010	10



ITEM: BIT-CHECK 12 METAL 1

Assortment consisting of a universal bit holder and 11 tough bits for universal use.

Composition:

899/4/1	Universal toolholders 1/4 "x50 mm
851/1 Z	PH1x25 - PH2x25 mm cross recessed inserts
855/1 Z	Cross recessed inserts PZ1x25 - PZ2x25 mm
867/1	TORX® T15x25 - T20x25 - T25x25 - T30x25 mm inserts
840/1	HEX hexagonal inserts 3x25 - 4x25 - 5x25 mm

Tech. Code	Pieces
E756912	12



ITEM: BIT-CHECK 30 UNIVERSAL 1

Assortment consisting of a Rapidaptor quick-change toolholder and 29 tough bits for universal use.



Composition:

889/4/1 K	Rapidaptor universal bit holder 1/4 "x50 mm
851/1 TZ	Phillips bits PH1x25 (2 Pcs) - PH2x25 (3 Pcs) - PH3x25 mm
855/1 TH	Cross recessed inserts PZ1x25 (2 Pcs) - PZ2x25 (3 Pcs) - PZ3x25 mm
867/1 TZ	TORX® T10x25 - T15x25 - T20x25 - T25x25 - T30x25 - T40x25 mm inserts
867/1 BO	TORX® BO inserts with T10x25 - T15x25 - T20x25 - T25x25 - T30x25 mm hole
800/1 TZ	Screwdriver bits 5.5x1x25 mm
840/1 Z	HEX hexagonal inserts 3x25 - 4x25 - 5x25 - 6x25 - 8x25 mm

Tech. Code	Pieces
E757030	30



NEW

ITEM: TOOL-CHECK PLUS 1

Assortment of tools with ratchet, bits, socket wrenches and a bit holder, in the smallest of spaces thanks to the practical and robust holder.



Composition:

8001 A	Mini ratchet for bits ¼"x87 mm
813	1/4 "x78 mm insert holder handle
889/4/1 K	Rapidaptor universal bit holder 1/4 "x50 mm
870/1	Socket wrench adapter 1/4 "x25 mm
8790 HMA	Socket wrenches 1/4" Zyklop 5.5 - 6 - 7 - 8 - 10 - 12 - 13 mm
851/1 TZ	PH1x25 - PH2x25 - PH3x25 mm cross recessed inserts
855/1 TH	Cross recessed inserts PZ1x25 - PZ2x25 - PZ3x25 mm
867/1 TZ	TORX® T10x25 - T15x25 - T20x25 - T25x25 - T30x25 - T40x25 mm inserts
867/1 Z	TORX® BO inserts with T10x25 - T15x25 - T20x25 - T25x25 - T30x25 mm hole
840/1 Z	HEX hexagonal inserts 3x25 - 4x25 - 5x25 - 6x25 - 8x25 mm
800/1 TZ	Slotted inserts 5.5x25 mm

Tech. Code	Pieces
E757939	39



NEW

ITEM: TOOL-CHECK MODULAR MICRO 1

Assortment of micro inserts with 4 mm hexagonal shank and insert holder, in the smallest of spaces thanks to the practical and robust holder. Standard equipment includes a 9549 connector for possible connection to other Tool-Check Modular assortments.



Composition:

1014	Kraftform Micro HEX 4x80 mm Screwdrivers
851/0	Micro Phillips inserts PH000x30 - PH00x30 - PH0x30 - PH1x30 mm
851/0	Micro Phillips inserts PZ0x30 - PZ1x30 mm
867/0	Micro Torx® bits T3x30 - T4x30 - T5x30 - T6x30 - T8x30 - T10x30 mm
840/0	HEX micro hexagonal inserts 0.9x30 - 1.3x30 - 1.5x30 - 2x30 - 2.5x30 mm
800/0	Micro slotted inserts 1.5x0.3x30 - 2.5x0.4x30 - 3x0.5x30 mm
9549	Connector for Tool-Check Modular

Tech. Code	Pieces
E758021	21



ITEM: TOOL-CHECK MODULAR 1 - 21 PCS

Assortment of tools with ratchets, bits, socket wrenches and a bit holder in the practical and compact modular holder.



Composition:

815/1	Bit holder handle 1/4 "x 78 mm
8011	Ratchet head Zyklop Mini 4 1/4 "x50 mm
870/1	Socket wrench adapter 1/4 "x25 mm
899/4/1	Rapidaptor universal toolholders 1/4 "x50 mm
851/1 BTZ	PH1x25 mm cross recessed inserts
851/4 BTZ	PH2x50 mm cross recessed inserts
855/1 BTZ	Cross recessed inserts PZ1x25 mm
855/4 BTZ	Cross recessed inserts PZ2x50 mm
867/1 BTZ	TORX® T10x25 - T15x25 mm inserts
867/4 BTZ	TORX® T20x50 - T25x50 mm inserts
800/4 BTZ	Slotted inserts 5.5x0.8x50 mm
840/1 BTZ	HEX hexagonal inserts 3x25 - 4x25 - 5x25 - 6x25 mm
8790 HMA	Socket wrenches 1/4" Zyklop 7 - 8 - 10 - 13 mm

Tech. Code	Pieces
E758121	21

BITS AND TOOLHOLDERS - IN KIT

Wera NEW

ITEM: TOOL-CHECK MODULAR SET 1 - 50 PCS

Set of 50 tools consisting of a Tool-Check Modular 1 - 21 Pcs, a Tool-Check Modular Micro 1 - 21 Pcs, a Tool-Check Modular L-Wrench Hex-Plus 1 - 7 Pcs, a 9549 connector and a 9550 flexible hinge connector



Composition:

815/1	1/4 "x78 mm insert holder handle
8011	Ratchet head Zyklop Mini 4 1/4 "x50 mm
870/1	Socket wrench adapter 1/4 "x25 mm
899/4/1	Rapidaptor universal toolholders 1/4 "x50 mm
851/1 BTZ	PH1x25 mm cross recessed inserts
851/4 BTZ	PH2x50 mm cross recessed inserts
855/1 BTZ	Cross recessed inserts PZ1x25 mm
855/4 BTZ	Cross recessed inserts PZ2x50 mm
867/1 BTZ	TORX® T10x25 - T15x25 mm inserts
867/4 BTZ	TORX® T20x50 - T25x50 mm inserts
800/4 BTZ	Slotted inserts 5.5x0.8x50 mm
840/1 BTZ	HEX hexagonal inserts 3x25 - 4x25 - 5x25 - 6x25 mm
8790 HMA	Socket wrenches 1/4" Zyklop 7 - 8 - 10 - 13 mm
950	HEX bent hexagon wrenches 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 mm
851/0	Micro Phillips inserts PH000x30 - PH00x30 - PH0x30 - PH1x30 mm
855/0	Micro Phillips inserts PZ0x30 - PZ1x30 mm
867/0	Micro Torx® bits T3x30 - T4x30 - T5x30 - T6x30 - T8x30 - T10x30 mm
840/0	HEX micro hexagonal inserts 0.9x30 - 1.3x30 - 1.5x30 - 2x30 - 2.5x30 mm
800/0	Micro slotted inserts 1.5x0.3x30 - 2.5x0.4x30 - 3x0.5x30 mm
1014	Kraftform Micro HEX 4x80 mm Screwdrivers

Tech. Code	Pieces
E758350	50

TELESCOPIC RODS WITH MAGNETIC TERMINAL

WODEX

ITEM: WX6060/6

Gripping tools with telescopic rod and magnetic end, handle with pocket clip and scribing tip protected by a special screwed cap.



Tech. Code	Ø magnet mm	mm	Length mm	Capacity g
E770206	6	7,5	150 - 665	500

MAGNETIC FLEXIBLE RODS

WODEX

ITEM: WX6062

Magnetic gripping tools with PVC-coated flexible shaft and ergonomic plastic handle.



Tech. Code	Ø magnet mm	Ø max mm	Useful length mm	Capacity g
E770404	4	5	330	270

ITEM: WX6063

Magnetic gripping tools with flexible chromed shaft and ergonomic plastic handle.



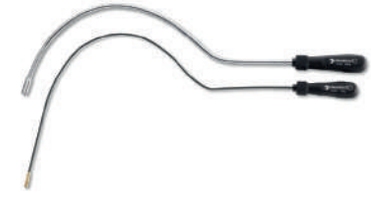
Tech. Code	Ø magnet mm	Ø max mm	Useful length mm	Capacity g
E770606	6	7,5	400	500
E770612	12	13	400	1000
E770615	15	16	400	1800

FLEXIBLE MAGNETIC PICK-UP TOOLS

STAHLWILLE

ITEM: 12600

Flexible pick-up tools with incorporated magnet, screwdriver handle.



Tech. Code	Ø magnet mm	Ø max mm	Maximum capacity mm	Load capacity g
E770905	4	5	425	270
E770908	6	8	380	500
E770915	12	15	425	1800
E770919	16	19	410	3000

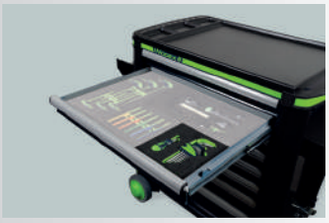
WODEX MODULAR SYSTEM

With the WODEX MODULAR SYSTEM you can rationalize the space inside every single drawer of your tool cabinet.
The modularity of our FOAM inserts means that there are multiple ways to arrange your tools and optimize the drawers without wasting space.

If you see this icon, it means that the drawers are compatible with our Wodex FOAM sets.



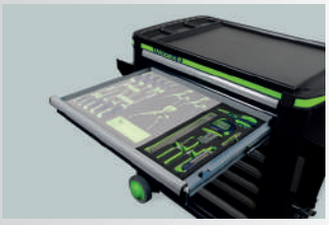
1/6 1/6 vertical
200 x 223.5 mm
Vertical position



1/3 H 1/3 horizontal
400 x 223.5 mm
Horizontal position



1/3 V 1/3 vertical
200 x 447 mm
Vertical position



2/3 2/3 vertical
400 x 447 mm
Vertical position



TOOL CARTS WITH ABS TOP

ITEM: WX9410/B7-SCS



Premium Quality Made in Italy tool trolleys made of sheet steel with RAL 5004 blue epoxy paint finish and RAL 6018 green steel drawer handles. Equipped with a high-strength ABS top, sturdy ergonomic handle, drawers mounted on telescopic ball-bearing slides with a load capacity of 40 kg, central locking with wrench, oil-resistant rubber wheels Ø 125 mm, 2 fixed and 2 swivel, one with brake. The side and rear walls are prepared for mounting optional accessories, the drawers can be fitted with sets for internal division. A simple and effective safety device integrated in the handles prevents unintentional opening of the drawers when moving the trolley.

Technical specifications:
Version equipped with anti-tip device **"Safety Control System"** that does not allow multiple drawers to be opened at the same time, guaranteeing stability to the trolley and maximum safety to the operator.

Tech. Code		E8215B7S
Ext. dimensions	mm	850 x 560 x 980 h
Drawers	n°	7
Drawer int. dim.	mm	600 x 450
Drawer height	mm	5x70 - 1x150 - 1x190
Drawer capacity	kg	40
Cabinet capacity	kg	400
Static load	kg	1000
Weight	kg	78

External dimensions include handle

TOOL CABINET TROLLEYS WITH WOODEN TOP

ITEM: WX9416/B6



Premium Quality Made in Swiss tool trolleys with wooden top. Maximum safety at work guaranteed by the central lock and safety hook against unintentional opening of the drawers when moving the trolley. Equipped with sturdy ergonomic handle, full-extension drawers with telescopic slides, 2 fixed Ø160 mm and 2 swivel castors with Ø100 mm vulcanised rubber brakes. Perforated side and rear walls allowing positioning of accessories and tools, work area with 40 mm thick multilayer wooden top. Colour blue RAL 5004.
GS - TUV certification

Tech. Code		E8221B6
Ext. dimensions	mm	892 x 653 x 927 h
Drawers	n°	6
Drawer int. dim.	mm	600 x 450
Drawer height	mm	2x75 - 2x100 - 1x150 - 1x200
Drawer capacity	kg	40
Cabinet capacity	kg	400
Weight	kg	83

External dimensions include handle

TOOL CABINET TROLLEYS WITH ABS TOP

ITEM: WX9421/B6



Premium quality tool trolleys Made **in Swiss** with high-strength ABS top. Maximum safety at work guaranteed by the centralised lock and safety hook against unintentional opening of the drawers when moving the trolley. Equipped with sturdy ergonomic handle, full-extension drawers with telescopic slides, 2 fixed Ø160 mm and 2 swivel castors with Ø100 mm vulcanised rubber brakes. Perforated side and rear walls for positioning accessories and tools, work area with non-slip ABS cover, small parts compartments and screwdriver holes. Colour blue RAL 5004.
GS - TUV certification

Tech. Code		E8226B6
Ext. dimensions	mm	892 x 653 x 927 h
Drawers	n°	6
Drawer int. dim.	mm	600 x 450
Drawer height	mm	2x75 - 2x100 - 1x150 - 1x200
Drawer capacity	kg	40
Cabinet capacity	kg	400
Weight	kg	73

External dimensions include handle

TOOL CABINET TROLLEYS WITH ABS TOP AND PROTECTIVE-EDGE PROFILES

ITEM: WX9431/B6



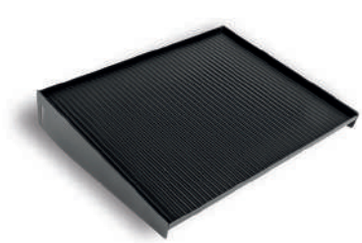
Premium quality tool trolleys Made in Swiss with high-strength ABS top and rubber bumpers on the uprights. Maximum safety at work guaranteed by centralised lock and safety hook against unintentional opening of drawers when moving the trolley. Equipped with a sturdy ergonomic handle, full-extension drawers with telescopic slides, 2 fixed Ø160 mm and 2 swivel castors with Ø100 mm vulcanised rubber brakes. Perforated side and rear walls for positioning accessories and tools, work area with non-slip ABS cover, small parts compartments and screwdriver holes. Colour blue RAL 5004.
GS - TUV certification

Tech. Code		E8231B6
Ext. dimensions	mm	892 x 653 x 927 h
Drawers	n°	6
Drawer int. dim.	mm	600 x 450
Drawer height	mm	2x75 - 2x100 - 1x150 - 1x200
Drawer capacity	kg	40
Cabinet capacity	kg	400
Weight	kg	75

External dimensions include handle

ADDITIONAL SHELVES

ITEM: WX9432



Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Additional shelves in black painted sheet metal with non-slip ribbed rubber cover.

Tech. Code	Dimensions mm
E823500	380 x 310

WASTE CONTAINERS

ITEM: WX9433

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Waste containers in black painted sheet metal.

Tech. Code	Dimensions mm
E823700	380 x 310



PAPER ROLL HOLDER SUPPORTS

ITEM: WX9434

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Paper roll holder supports Ø 400 mm in black painted sheet metal.

Tech. Code	Dimensions mm
E823900	380 x 230



ELECTRICAL MULTIPLE SOCKET

ITEM: WX9435

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Supports in black painted sheet metal with 4-place D-type electrical multi-socket, 1.5 m long cable.

Tech. Code	Dimensions mm
E824100	200 x 380 x 50



SPRAY CAN HOLDER SUPPORTS

ITEM: WX9436

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Spray can holder supports in black painted sheet metal.

Tech. Code	Dimensions mm
E824300	70 x 380 x 74



NOTICEBOARD WITH LOCK

ITEM: WX9437

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Notice board in black painted sheet metal with perforated internal wall and door with lock.

Tech. Code	Dimensions mm
E824500	667 x 380 x 50



BACK PANEL

ITEM: WX9438

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Perforated back panel in black painted sheet metal, 10 x 10 mm square perforation, 38 mm pitch.

Tech. Code	Dimensions mm
E824700	660 x 640h



SUPPORT FOR CONTAINERS

ITEM: WX9438/S

Perforated rear wall accessories WX9438.
Support in black painted sheet steel, capacity 15 kg, for plastic containers size No.2. No.3 and No.4.

Tech. Code	Length mm
E824600	665



NON-SLIP MATS

ITEM: WX9439

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431 Colour black PVC and nylon non-slip mats, recommended for positioning delicate tools inside drawers.

Tech. Code	Dimension mm
E824800	600 x 450 x 3



SET OF INTERNAL PARTITION DIVISIONS

ITEM: WX9440/12

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Internal partitions set for drawers, composed of 3 longitudinal walls in gray painted steel and 8 transversal aluminum partitions with which it is possible to create up to 12 compartments of 145x145 mm.

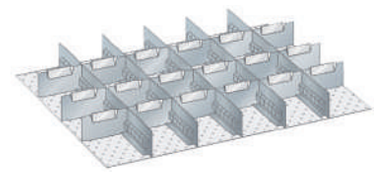
Tech. Code	Drawer height mm
E8249075	70 - 75
E8249100	100
E8249150	150
E8249200	190 - 200



ITEM: WX9440/24

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Internal division set for drawers, composed of 5 longitudinal walls in gray painted steel and 18 transversal aluminum dividers with which it is possible to create up to 24 compartments of 95x107 mm.

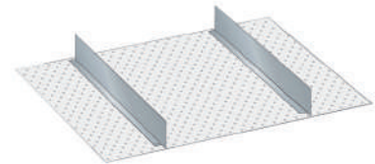
Tech. Code	Drawer height mm
E8250075	70 - 75



ITEM: WX9441/3

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Internal division set for drawers, composed of 2 longitudinal walls in gray painted steel with which it is possible to create 3 compartments of 195x445 mm.

Tech. Code	Drawer height mm
E8251075	70 - 75
E8251100	100
E8251150	150
E8251200	190 - 200



PLASTIC TRAYS

ITEM: WX9495

Trays in ESD antistatic plastic, ideal for dividing electronic components, tube terminals, cable lugs and small metal parts, in the drawers of all types of Wodex trolleys. Thanks to the modularity of the trays, the entire drawer can be filled in an organized manner without leaving empty spaces (useful internal dimension of the drawers 600 x 450 mm).



Tech. Code	Length mm	Width mm	Height mm
E4885075075B	75	75	46
E4885150075B	150	75	46
E4885150150B	150	150	46

TOOL TROLLEYS WITH ABS TOP

WMS

ITEM: WX9445/B7-SCS

Tool trolleys in sheet steel with RAL 3020 red epoxy paint and handles for opening the drawers in sheet steel with ABS inserts. Equipped with an ABS upper shelf with anti-fall edge, sturdy metal handle with plastic fixing brackets, drawers mounted on telescopic ball runners, centralized locking with key lock, oil-proof rubber wheels Ø 125 mm, 2 fixed and 2 swivel with brake, perforated side wall prepared for mounting optional accessories. A simple and effective safety device integrated into the handles prevents the involuntary opening of the drawers when moving the trolley.



Technical specifications:
Version equipped with **"Safety Control System"** anti-tipping device which does not allow multiple drawers to be opened at the same time, ensuring stability of the trolley and maximum safety for the operator.

Accessories included:
Spray can holder support
7 EVA mats 2.5 mm thick

Tech. Code		E8260B7
External dimension	mm	860 x 520 x 1035 h
Drawers	n°	7
Internal dimensions of drawers	mm	600 x 450
Drawers height	mm	5 x 75 - 2 x 154
Drawers capacity	kg	35
Trolley capacity	kg	400
Static load	kg	800
Weight	kg	69

External dimensions include handle

PAPER ROLL HOLDER SUPPORTS

ITEM: WX9448

Accessories for Wodex WX9455 trolleys.
Paper roll holder supports Ø 400 mm in black painted sheet metal.



Tech. Code	Size mm
E826300	360 x 215 x 70 h

Related products

NEW

POLYURETHANE CUT-RESISTANT GLOVES



Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10

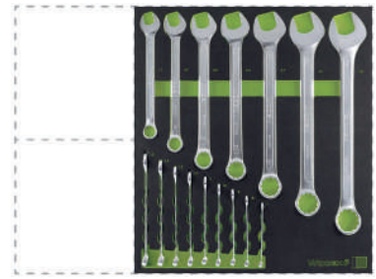
The products are available in chapter K

COMBINATION WRENCHES IN FOAM

1/3 V 2/3 WMS

ITEM: WX1060/SE12 - WX1060/SE16

Standard DIN 3113A - ISO 7738A
Set of **PREMIUM QUALITY>** combination wenches with profiled anti-slip body and rounded edges, chrome-vanadium steel with chrome-satin finish. The ring side with **Plus-Drive** profile allows high force to be transmitted to the shoulders of screws and nuts without damaging the edges.
Set complete with Eva Tray module for Wodex trolleys.



Composition:
WX1060/SE12 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
WX1060/SE16 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm

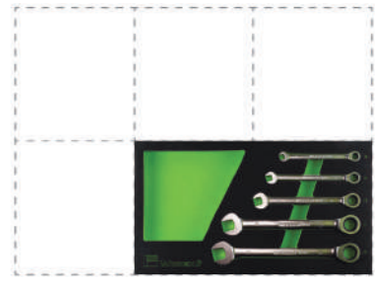
Tech. Code	Pieces	Module size mm
E000712	12	400 x 223,5 - 1/3 Horizontal position
E000716	16	400 x 447 - 2/3 Vertical position

COMBINATION RATCHET WRENCHES 72T IN FOAM

1/3 H WMS

ITEM: WX1300/SE5

Standard ISO 691
Set of 5 combination ratchet wrenches with 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC, high torque transmission, 5° return angle, high resistance chrome-satin steel finish. Compliant with RoHS and REACH directives.



Set of wrenches complete with Eva Tray module for Wodex trolleys. Module dimensions 400x223.5 mm - Horizontal Position.

Composition:
WX1300 8-10-13-17-19 mm

Tech. Code	Pieces
E019205	5

COMBINATION WRENCHES WITH REVERSIBLE RATCHET IN FOAM

1/3 H WMS

ITEM: WX1350/SE5 - WX1350/SE9

Standard ISO 691
Set of combination wrenches with reversible ratchet with 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC. High torque transmission, 5° return angle, 15° bent polygonal ratchet head for working in hard-to-reach spaces, high resistance chrome-satin finish. Compliant with RoHS and REACH directives.



Set of wrenches complete with Eva Tray module for Wodex trolleys. Module dimensions 400x223.5 mm - Horizontal Position.

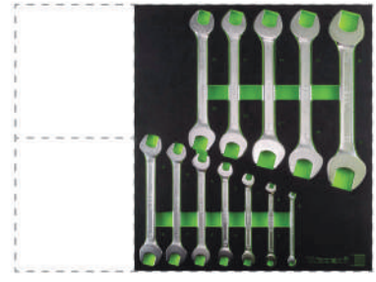
Composition:
WX1350/SE5 8 - 10 - 13 - 17 - 19 mm
WX1350/SE9 8 - 10 - 11 - 13 - 14 - 16 - 17 - 18 - 19 mm

Tech. Code	Pieces
E020205	5
E020209	9

1/3 H 2/3 WMS

ITEM: WX1010/SE8 - WX1010/SE12

Standard DIN 3110 - ISO 10102
Set of double open ended wrenches with profiled anti-slip body and rounded edges in chrome-vanadium steel, chrome-satin finish.



Set of wrenches complete with Eva Tray module for Wodex trolleys.

Composition:
WX1010/SE8 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm
WX1010/SE12 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm

Tech. Code	Pieces	Module size mm
E026208	8	400 x 223,5 - 1/3 Horizontal position
E026212	12	400 x 447 - 2/3 Vertical position

HEXAGONAL NUT DRIVERS WITH HANDLE IN FOAM

WODEX

1/3 H | ERGO FORM | WMS

ITEM: WX1950/SE8

Set of 8 nut drivers with **PREMIUM QUALITY** handle for hexagonal head screws or nuts. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** grip made of **SANTOPRENE**® that guarantee maximum grip for fast and accurate work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of wrenches complete with Eva Tray module for Wodex trolleys. Module dimensions 400x223.5 mm - Horizontal Position.

Composition:
5x125 - 5.5x125 - 6x125 - 7x125 - 8x125 - 9x125 - 10x125 - 13x125 mm

Tech. Code	Pieces
E145108	8



MICRO SCREWDRIVERS WITH HEXAGONAL SOCKET IN FOAM

WODEX

1/6 | ERGO FORM | WMS

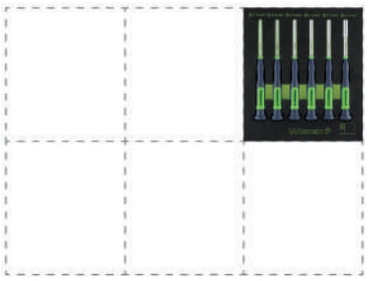
ITEM: WX1957/SE6

Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex trolleys. Module size 200x223.5 mm - Vertical position.

Composition:
2.5x60 - 3x60 - 3.5x60 - 4x60 - 5x60 - 6x60 mm.

Tech. Code	Pieces
E148106	6



HEXAGONAL L KEYS AND STUBBY SCREWDRIVER IN FOAM

WODEX

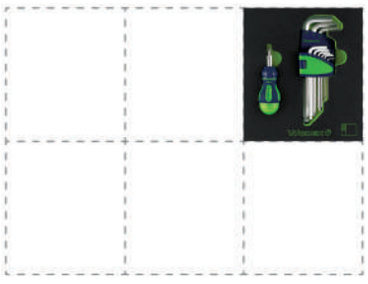
1/6 | ERGO FORM | WMS

ITEM: WX9520/SE17

Set composed of long hexagonal keys with magnet and a Stubby bit holder screwdriver complete with a set of insert bits.
Set of tools complete with Eva Tray module for Wodex tool trolleys - Module size 200x223.5 mm - Vertical position

Composition:
WX2600/S9 Set of long hexagonal L keys with magnet
WX4622 Stubby bit holder screwdriver with set of inserts

Tech. Code	Pieces
E230202	17



HEXAGONAL MALE SCREWDRIVERS WITH FOAM HEAD

WODEX

1/3 H | ERGO FORM | WMS

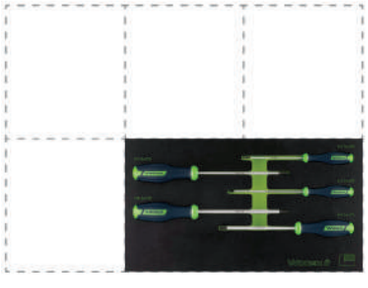
ITEM: WX2810/SE5

Set of 5 **PREMIUM QUALITY** hexagonal screwdrivers with ball head, blades made of chrome vanadium steel with satin finish, **BLACK-TIP** hardened precision tips with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypo-allergenic, non-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® for maximum strength for fast and precise work. Size identification on the head of the handle. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal Position.

Composition:
2.5x100 - 3x125 - 4x125 - 5x150 - 6x150 mm

Tech. Code	Pieces
E252105	5



MICRO HEXAGONAL FOAM SCREWDRIVERS

WODEX

1/6 | ERGO FORM | WMS

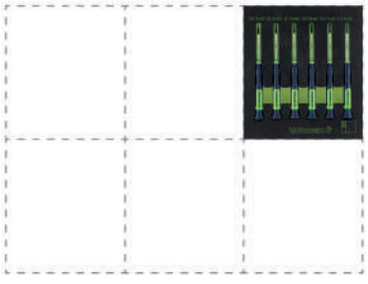
ITEM: WX2847/SE6

Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex trolleys. Module size 200x223.5 mm - Vertical position.

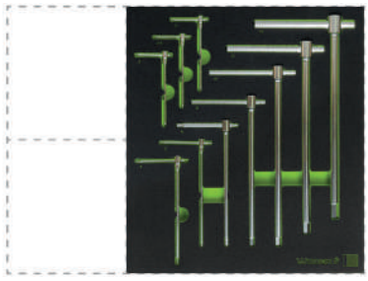
Composition:
0.9x60 - 1.3x60 - 1.5x60 - 2.0x60 - 2.5x60 - 3.0x60 mm

Tech. Code	Pieces
E255606	6



HEXAGONAL T-HANDLE WRENCHES WITH SLIDING ROD IN FOAM

ITEM: WX2700/SE10



Set of 10 **PREMIUM QUALITY**sliding T-handle wrenches for hexagonal socket head screws. The high precision and high quality of the materials ensure very high tightening torques.

Features:
- Special high-alloy chrome vanadium steel
- Safety limit stops that prevent sliding rod from being removed
- Ends designed so that they fit the screw perfectly
- Chrome-satin finish

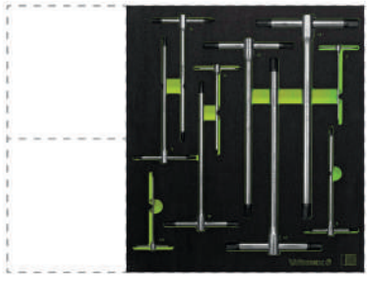
Set of wrenches complete with Eva Tray module for Wodex tool trolleys - Module size 400x447 mm - Vertical Position.

Composition:
2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 mm

Tech. Code	Pieces
E265410	10

HEXAGONAL T-HANDLE WRENCHES WITH FIXED ROD IN FOAM

ITEM: WX2717/SE10



Set of **PREMIUM QUALITY** fixed T-handle wrenches for hexagonal socket head screws. The high precision and high quality of the materials ensure very high tightening torques. Colour coded wrenches for quick size selection.

Features:
- High-alloy chrome vanadium steel **58CrV5**- Double oil hardening treatment
- Surface hardness **53 - 55 HRC**
- Torsional strength higher than ISO 2936
- Ends designed so that they fit the screw perfectly
- Chrome-satin finish with phosphate coated ends

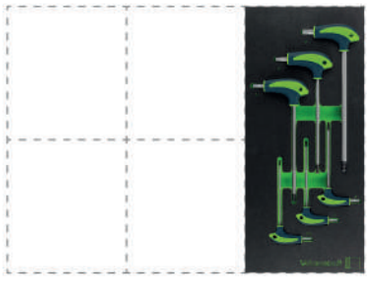
Set of wrenches complete with Eva Tray module for Wodex tool trolleys - Module size 400x447 mm - Vertical Position.

Composition:
2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 mm

Tech. Code	Pieces
E264510	10

HEXAGONAL WRENCHES WITH HANDLE IN FOAM

ITEM: WX2750/SE6



Set of 6 **PREMIUM QUALITY** hexagonal wrenches with ball end, hypoallergenic and non-slip **ERGOFORM** two-component handles, made of **SANTOPRENE**® with high density PolyPropylene core. Hexagonal blades made of special chrome-vanadium steel with satin finish.

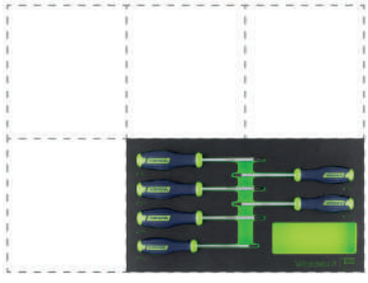
Set of wrenches complete with Eva Tray module for Wodex tool trolleys - Module size 200 x 447 mm - Vertical position.

Composition:
2.5 - 3 - 4 - 5 - 6 - 8 mm

Tech. Code	Pieces
E256106	6

SCREWDRIVERS FOR TORX® SCREWS IN FOAM

ITEM: WX2940/SE6



Set of 6 **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal position.

Composition:
T10x100 - T15x100 - T20x100 - T25x100 - T27x100 - T30x100 mm

Tech. Code	Pieces
E336906	6

MICRO SCREWDRIVERS FOR TORX® SCREWS IN FOAM

1/6 | ERGOFORM | WMS

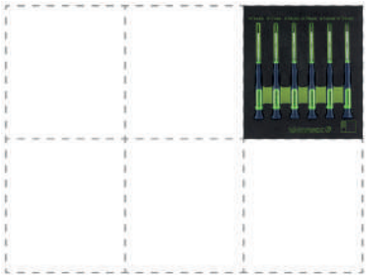
ITEM: WX2947/SE6

Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 200x223.5 mm - Vertical Position.

Composition:
T6x60 - T7x60 - T8x60 - T9x60 - T10x60 - T15x60 mm

Tech. Code	Pieces
E342106	6



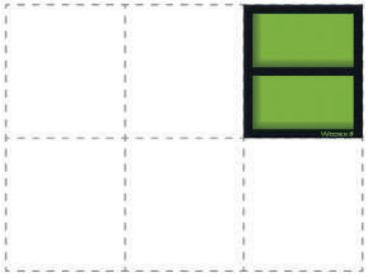
EVA TRAY MODULES WITH 2 EMPTY TRAYS

1/6 | WMS

ITEM: WX9490

Eva Tray modules for Wodex trolleys, version with 2 empty trays for storing small tools.
Module size 200x223.5 mm - Vertical position.

Tech. Code	Tray size mm
E488002	165 x 85



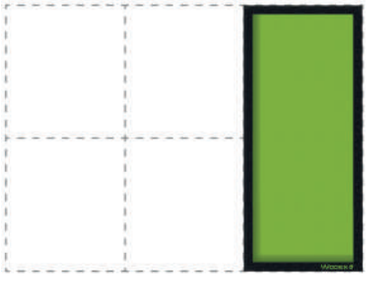
EVA TRAY MODULES WITH 1 EMPTY TRAY

1/3 V | WMS

ITEM: WX9492

Eva Tray modules for Wodex trolleys, version with empty tray for storing large tools.
Module size 200x447 mm - Vertical position.

Tech. Code	Tray size mm
E488201	150 x 375



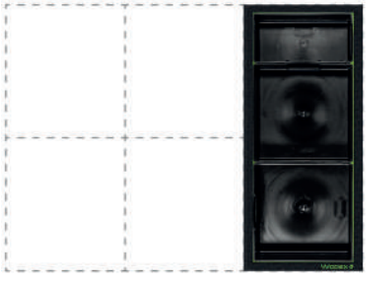
EVA TRAY MODULES WITH PLASTIC TRAY

1/3 V | WMS

ITEM: WX9492/B3 - WX9492/B5 - WX9492/B10

Eva Tray modules for Wodex tool trolleys, fitted with ESD antistatic plastic trays, organized in the special housing. The trays can be removed if necessary.
Module size 200x447 mm - Vertical position.

Tech. Code	Empty module 200x447 mm	Trays 150x150x46 mm	Trays 150x75x46 mm	Trays 75x75x46 mm
E488303	1	2	1	-
E488305	1	-	5	-
E488310	1	-	-	10



MICRO SCREWDRIVERS FOR SLOTTED AND PH-PZ SCREWS IN FOAM

1/6 | ERGOFORM | WMS

ITEM: WX9600/SE10

Set of 10 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical Position

Composition:
- **WX4040** 1.5x60 - 2.0x60 - 2.5x60 - 3.0x60 - 4.0x60 mm
- **WX4090** PH00x60 - PH0x60 - PH1x60
- **WX4140** PZ0x60 - PZ1x60

Tech. Code	Pieces
E584810	10



SOCKET SPANNERS 1/4" SOCKET SPANNER KIT 41 TOOLS IN FOAM

WODEX

NEW

ITEM: WX2080/SE41



Set of 41 **WODEX PREMIUM QUALITY** tools with 1/4" square drive, the set contains a ratchet, a T-handle with sliding square, a socket wrench screwdriver, a universal joint, extensions, adaptors, a socket, PLUS-DRIVE multi-functional keys, socket wrenches for hexagon socket and Torx® socket screws, Phillips® socket and Phillips® socket screws.
Complete tool set with Eva Tray module for Wodex trolleys. Module size 200x223.5 mm - Vertical position.

Composition:

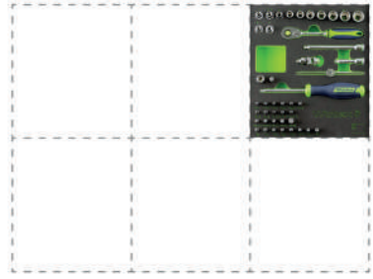
WX2040	1/4" reversible ratchet
WX2000	Ring Wrenches 1/4" 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2010	Socket wrenches 1/4" hexagonal male HEX 2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm
WX2020	Sockets 1/4" Torx® T8 - T10 - T15 - T20 - T25 - T30 - T40
WX2030	Sockets 1/4" with slotted insert 4 - 5,5 - 6,5 - 8 mm
WX2032	Phllips® PH1 - PH2 - PH3 1/4" socket spanners with multi-functional keys
WX2052	Wobble extensions 1/4 "x50 - 1/4 "x100 mm
WX2054	Universal joint 1/4"
WX2047	1/4" socket screwdrivers
WX2160	1/4" female - 3/8" male adapter joint
WX4640	Hexagon socket 1/4" bit holders
WX2048	T-handle with 1/4" sliding square

Tech. Code	Pieces
E488841	41

SOCKET SET 1/4" - 44 TOOLS IN FOAM

WODEX

ITEM: WX2080/SE44



Set of 44 **WODEX PREMIUM QUALITY** tools with 1/4" square drive, the set contains a ratchet, a T-lever with sliding square, a socket wrench screwdriver, a cardan joint, extensions, adapters, PLUS polygonal socket wrenches DRIVE, slotted, Phillips® and Pozidriv® bits, hexagonal and Torx® bits, a bit holder socket.Tool set complete with Eva Tray module for Wodex trolleys. Module size 200x223.5 mm - Vertical position.

Compostion:

WX2040	Reversible ratchet 1/4"
WX2000	Sockets 1/4" 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle with sliding square drive1/4"
WX2052	Extension Wobble 1/4"x50 - 1/4"x100 mm
WX2054	Cardon joint 1/4"
WX2047	Socket scredriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4"x25 mm
WX4640	Hexagonal insert holder socket 1/4"
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2 - PZ3
WX4430	Insert bits 1/4"x25 slotted 3,0 - 4,0 - 4,5 - 5,5 - 6,5 mm
WX4445	Insert bits 1/4"x25 hexagonal HEX 3 - 4 - 5 - 6 - 8 mm
WX4475	Insert bits 1/4"x25 Torx® T8 - T10 - T15 - T20 -T25 - T27 - T30 - T40

Tech. Code	Pieces
E489144	44

SOCKET WRENCHES 1/4 - SET OF 55 TOOLS IN FOAM

WODEX

ITEM: WX2085/SE55



Set of 55 **WODEX PREMIUM QUALITY** tools with 1/4" square drive. The set contains a stubby ratchet, a quick-change bit holder screwdriver, adapters, PLUS-DRIVE polygonal sockets, slotted bits, Phillips® and Pozidriv® bits , hexagonal, Torx® and Tamper Torx® with hole, a bit holder socket.Tool set complete with Eva Tray module for Wodex trolleys. Module size 200x223.5 mm - Vertical position.

Composition

WX2045	Reversible stubby ratchet 1/4"
WX2000	Sockets 1/4" poliganal 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX4642	Socket adapters 1/4"x25 mm 1/4" hex coupling
WX4640	Hexagonal insert holder socket 1/4"
WX4630	Bit holder 1/4" Quick release - 1/4"x60 mm
WX4620	Socket screwdriver 1/4"
WX4400	Insert bits 1/4"x25 Phillips® PH1 (2 Pcs) - PH2 (3 Pcs) - PH3 (1 Pc)
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 (3 Pcs) - PZ2 (3 Pcs) - PZ3 (1 Pc)
WX4430	Insert bits 1/4"x25 slotted 4 (1 Pc) - 4,5 (1 Pc) - 5,5 (2) - 6,5 (2 Pcs) mm
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm
WX4475	Insert bits 1/4"x25 Torx® T10 - T15 - T20 - T25 - T30 - T40
WX4505	Insert bits 1/4"x25 Tamper Torx® T10 - T15 - T20 -T25 - T30 - T40

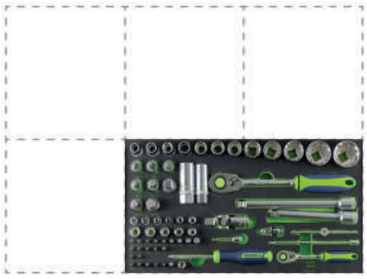
Tech. Code	Pieces
E489355	55

SOCKET WRENCHES 1/4" AND 1/2" - SET OF 66 TOOLS IN FOAM

WODEX

WMS 1/3 H 1/4" 1/2"

ITEM: WX2090/SE66



Set of 66 **WODEX PREMIUM QUALITY** tools with 1/4" and 1/2" square drive, the set contains 2 ratchets, a T-lever with sliding square, universal joints, a socket screwdriver, extensions, fittings, adapters, PLUS-DRIVE polygonal sockets, slotted bits, Phillips® and Pozidriv®, hexagonal and Torx® bits, a bit holder socket.Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Compostion:

WX2040	Reversible ratchet 1/4"
WX2000	Sockets 1/4" 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T/handle lever with 1/4" sliding drive
WX2052	Extension wobble 1/4"x50 - 1/4"x150 mm
WX2054	Cardan joint 1/4"
WX2047	Socket scredriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4"x25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4430	Insert bits 1/4"x25 slotted 4 - 5,5 mm
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX4475	Insert bits 1/4"x25 Torx® T10 - T15 - T20 -T25 - T30
WX2240	Reversible ratchet 1/2"
WX2200	Sockets 1/2" 10-11-12-13-14-15-17-19-22-24-30-32 mm
WX2210	Socket wrenches 1/2" hexagonal male HEX 8 - 10 - 12 - 14 mm
WX2220	Socket drivers 1/2" Torx® T40 - T45 - T50
WX2252	Wobble extensions 1/2 "x150 - 1/2 "x200 mm
WX2254	Cardon joint 1/2"
WX2161	Adaptor joint 3/8'F-1/2'M with hole for extension
WX2209	Sockets 1/2" for spark plugs 16 - 21 mm

Tech. Code	Pieces
E489566	66

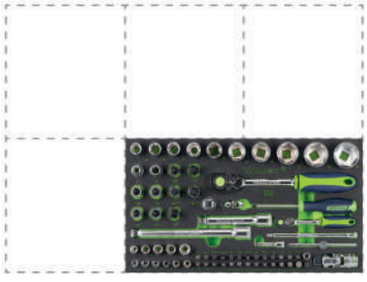
While stocks last

SOCKET WRENCHES 1/4" AND 1/2" - SET OF 71 TOOLS IN FOAM

WODEX

WMS 1/3 H 1/4" 1/2"

ITEM: WX2095/SE71



Set of 71 **WODEX PREMIUM QUALITY** tools with 1/4" and 1/2" square drive, the set contains 2 ratchets, a T-lever with sliding square, universal joints, a socket screwdriver, extensions, fittings, adapters, hexagonal sockets, slotted bits, Phillips® and Pozidriv®, hexagonal and Torx® bits, a bit holder socket.Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Composition

WX2040	Reversible ratchet 1/4"
WX2200	Sockets 1/4" 4 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle lever with 1/4" sliding square drive
WX2052	Extension wobble 1/4"x50 - 1/4"x150 mm
WX2054	Cardon joint 1/4"
WX2047	Socket screwdriver 1/4"
WX4642	Socket bit adapter 1/4"x25 mm 1/4" hex drive1/4
WX4640	Hexagonal bit holder 1/4
WX4430	Insert bits 1/4"x25 slotted 3 - 4 - 5.5 - 6.5 mm
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2
WX4445	Insert bits 1/4"x25 hexagonal 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX4475	Insert bits 1/4"x25 Torx® T8 - T9 - T10 - T15 - T20 -T25 - T27 - T30
WX2240	Reversible ratchet 1/2"
WX2205	Sockets 1/2" 10 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket wrenches 1/2" hexagonal male HEX 5 - 6 - 8 - 10 - 12 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T50
WX2252	Extension wobble 1/2"x125 - 1/2"x200 mm
WX2254	Cardon joint 1/2"
WX2161	Adapater joint 3/8'F-1/2'M with hole for extension

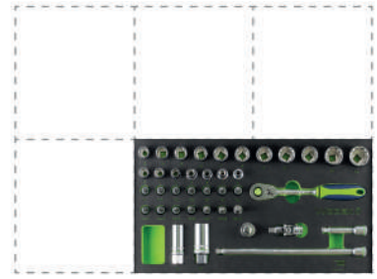
Tech. Code	Pieces
E489771	71

SOCKET WRENCHES 3/8" - SET OF 39 TOOLS IN FOAM

WODEX

WMS 1/3 H 3/8"

ITEM: WX2180/SE39



Set of 39 tools **WODEX PREMIUM QUALITY** with 3/8" square drive, the set contains a ratchet, a universal joint, extensions, fittings, PLUS-DRIVE polygonal socket wrenches, socket wrenches for screws with hexagon socket and for screws with recess Torx® spark plug sockets.
Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Compostion

WX2140	Reversible ratchet 3/8"
WX2100	Sockets 3/8" 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
WX2110	Socket wrenches 3/8" hexagonal male HEX 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX2120	Socket drivers 3/8" Torx® T10 - T15 - T20 - T25 - T27 - T30 - T40
WX2152	Extension Wobble 3/8"x75 - 3/8"x250 mm
WX2154	Cardan joint 3/8"
WX2159	Adapter joint 1/2'F-3/8'M with hole for extension
WX2109	Sockets 3/8" for spark plugs 16 - 21 mm

Tech. Code	Pieces
E491039	39

While stocks last

SOCKETS 3/8" SOCKET WRENCH KIT 40 TOOLS IN FOAM

WODEX

NEW

WMS 1/3 H 3/8"

ITEM: WX2180/SE40



Set of 40 **WODEX PREMIUM QUALITY** tools with 3/8" square drive, the set contains a ratchet, a universal joint, extensions, a reducer joint, an adapter joint, a T-handle with sliding square, **PLUS-DRIVE** ring wrenches, socket wrenches for hexagon socket screws and Torx® socket screws.
Complete tool set with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Composition:

WX2140	Reversible ratchet 3/8"
WX2100	Ring wrenches 3/8" 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
WX2110	Socket wrenches 3/8" hexagonal male HEX 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX2120	Sockets wrenches 3/8" Torx® T10 - T15 - T20 - T25 - T27 - T30 - T40
WX2152	Wobble extensions 3/8 "x75 - 3/8 "x150 - 3/8 "x250 mm
WX2154	Universal joint 3/8"
WX2148	T-handle with sliding square 3/8"
WX2158	Reducer joint Female 3/8" - Male 1/4"
WX2160	Adapter joint Female 3/8" - Male 1/2"

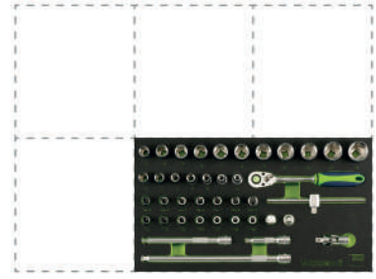
Tech. Code	Pieces
E490840	40

SOCKET WRENCHES 3/8" - SET OF 40 TOOLS IN FOAM

WODEX

WMS 1/3 H 3/8"

ITEM: WX2190/SE40



Set of 40 **WODEX PREMIUM QUALITY** tools with 3/8" square drive, the set contains a ratchet, a T-lever with sliding square, a universal joint, wobble extensions, a reducer fitting, an increaser fitting, hex socket wrenches, wrenches socket for screws with hexagon socket and for screws with Torx® recess.
Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Compostion

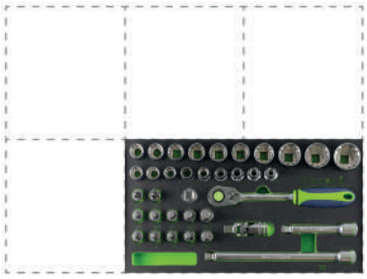
WX2140	Reversible ratchet 3/8"
WX2105	Sockets 3/8" 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
WX2110	Socket wrenches 3/8" hexagonal male HEX 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX2120	Socket drivers 3/8" Torx® T10 - T15 - T20 - T25 - T27 - T30 - T40
WX2152	Extension wobble 3/8"x75 - 3/8"x150 - 3/8"x250 mm
WX2154	Cardan joint 3/8"
WX2148	T-lever with sliding square 3/8"
WX2158	Adapter joint F 3/8" - M 1/4"
WX2160	Adapter joint 3/8" F - 1/2" M

Tech. Code	Pieces
E491540	40

SOCKET WRENCHES 1/2" - SET OF 36 TOOLS IN FOAM

WODEX

ITEM: WX2280/SE36



Set of 36 **WODEX PREMIUM QUALITY** tools with 1/2" square drive, the set contains a ratchet, a universal joint, extensions, fittings, **PLUS-DRIVE** polygonal socket wrenches, socket wrenches for screws with hexagon socket and for screws with recess Torx®.Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Compostion:

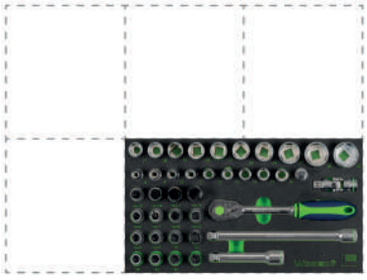
WX2240	Reversible ratchet 1/2"
WX2200	Sockets 1/2" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket wrenches 1/2" hexagonal male HEX 6 - 8 - 10 - 12 - 14 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T55 - T60
WX2232	Socket drivers 1/2" Phllips® PH3 - PH4
WX2252	Extension Wobble 1/2"x125 - 1/2"x250 mm
WX2254	Cardan joint 1/2"
WX2161	Adapator joint 3/8'F-1/2'M with hole for extension

Tech. Code	Pieces
E492136	36

SOCKET WRENCHES 1/2" - SET OF 40 TOOLS IN FOAM

WODEX

ITEM: WX2290/SE40



Set of 40 **PREMIUM QUALITY** tools with 1/2" square drive, the set contains a ratchet, a universal joint, extensions, fittings, hexagonal socket wrenches, socket wrenches for screws with hexagon socket and for screws with Torx® recess.Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Compostion

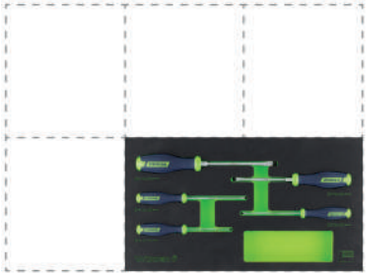
WX2240	Reversible ratchet 1/2"
WX2205	Socket hexagonal 1/2" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket wrenches 1/2" hexagonal male HEX 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T50 - T55 - T60
WX2252	Extension Wobble 1/2"x125 - 1/2"x250 mm
WX2254	Cardan joint 1/2"
WX2161	Adaptor joint 3/8'F-1/2'M with hole for extension

Tech. Code	Pieces
E492540	40

SCREWDRIVERS PREMIUM QUALITY - SET IN FOAM

WODEX

ITEM: WX4200/SE5



Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal Position.

Composition:

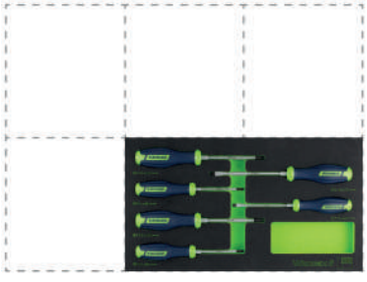
2.5x75 - 3.5x100 - 4.0x100 - 5.5x100 - 6.5x125 mm

Tech. Code	Pieces
E608005	5

SCREWDRIVERS PREMIUM QUALITY - SET IN FOAM

WODEX

ITEM: WX4210/SE6



Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal Position.

Composition:

WX4000	5.5x100 - 6.5x125 mm
WX4050	PH1x80 - PH2x100 mm
WX4100	PZ1x80 - PZ2x100 mm

Tech. Code	Pieces
E608206	6

SCREWDRIVERS PREMIUM QUALITY - SET IN FOAM

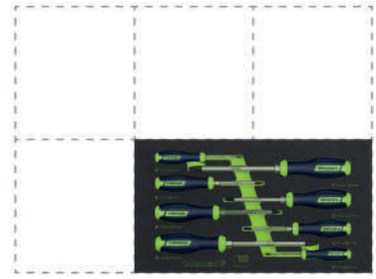
1/3 H

ITEM: WX4205/SE8

Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal position.

Composition:
WX4050 PH0x60 - PH1x80 - PH2x100 - PH3x150 mm
WX4100 PZ0x60 - PZ1x80 - PZ2x100 - PZ3x150 mm

Tech. Code	Pieces
E608108	8



SCREWDRIVERS PREMIUM QUALITY - SET IN FOAM

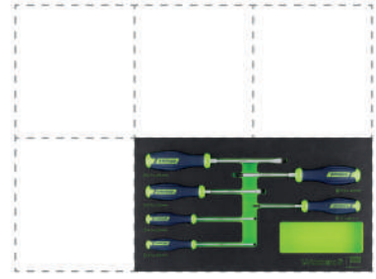
1/3 H

ITEM: WX4220/SE6

Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal position.

Composition:
WX4000 3.5x100 - 4.0x100 - 5.5x100 - 6.5x125 mm
WX4100 PZ1x80 - PZ2x100 mm

Tech. Code	Pieces
E608406	6



SCREWDRIVERS PREMIUM QUALITY - SET IN FOAM

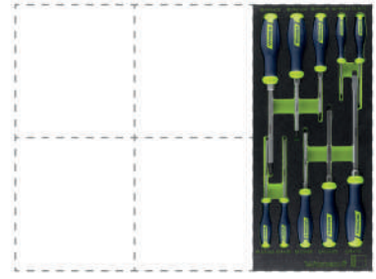
1/3 V

ITEM: WX4230/SE10

Set of 10 **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex trolleys for Wodex trolleys. Module size 200x447 mm - Vertical position.

Composition:
WX4000 3.0x75 - 3.5x100 - 4.0x100 - 5.5x100 - 6.5x125 - 8.0x175 mm
WX4050 PH0x60 - PH1x80 - PH2x100 - PH3x150 mm

Tech. Code	Pieces
E608610	10



SCREWDRIVERS 1000 VOLT INSULATED IN FOAM

1/3 H

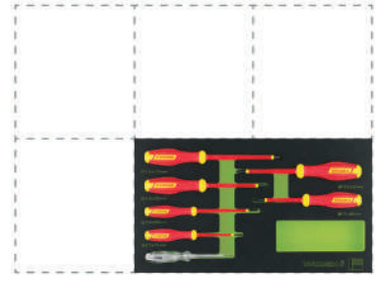
ITEM: WX4300/SE7

Set of 7 **PREMIUM QUALITY** screwdrivers with insulated blade and handle up to 1000 V DIN EN 60900 / VDE 0682-201. Blade in chrome-vanadium steel with hardened precision **BLACK-TIP** with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position.

Composition:
WX4030 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
WX4130 PZ1x80 - PZ2x100 mm
WX4190 Voltage tester 105-250 Volt 3.0x70 mm

Tech. Code	Pieces
E617007	7

While stocks last



SCREWDRIVERS 1000 VOLT INSULATED IN FOAM

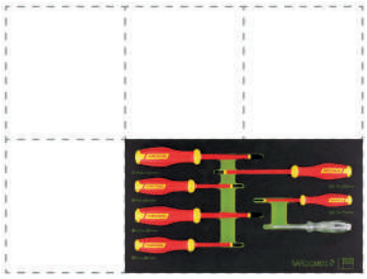
WODEX

1/3 H

ITEM: WX4310/SE7

Set of 7 **PREMIUM QUALITY** screwdrivers with insulated blade and handle up to 1000 V DIN EN 60900 / VDE 0682-201. Blade in chrome-vanadium steel with hardened precision **BLACK-TIP** with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Set of tools complete with Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal Position



Composition:

- **WX4030** 2.5x75 - 5.5x125 mm
- **WX4080** PH1x80 - PH2x100 mm
- **WX4130** PZ1x80 - PZ2x100 mm
- **WX4190** Voltage tester 105-250 Volt 3.0x70 mm

Tech. Code	Pieces
E617507	7

While stocks last

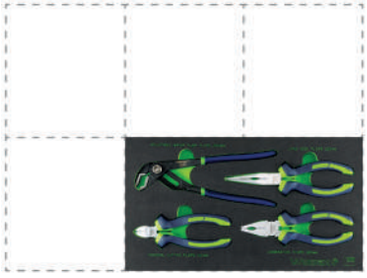
PLIERS AND CUTTING NIPPERS IN FOAM

WODEX

1/3 H

ITEM: WX3750/SE4

Set of 4 **PREMIUM QUALITY** pliers and cutting nippers with **ERGOFORM** hypoallergenic, non-slip, soft and comfortable handles, made of **SANTOPRENE®** that guarantee maximum grip for fast and accurate work. Compliant with RoHS and REACH directives.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal Position



Composition:

- **WX3050** Universal pliers 180 mm
- **WX3200** Half round bent nose pliers 200 mm
- **WX3600** Diagonal cutting nippers 160 mm
- **WX3300** Adjustable pliers 250 mm

Tech. Code	Pieces
F030004	4

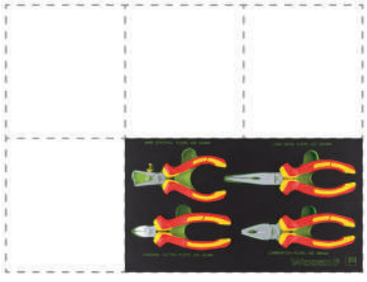
PLIERS AND CUTTING NIPPERS VDE INSULATED 1000 VOLTS IN FOAM

WODEX

1/3 H

ITEM: WX3760/SE4

Set of **PREMIUM QUALITY** of pliers and cutting nippers insulated up to 1000 V according to DIN EN 60900 / VDE 0682-201, Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handle made of **SANTOPRENE®** that guarantee maximum grip for fast and accurate work. Compliant with RoHS and REACH directives.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal Position



Composition:

- **WX3060** Universal pliers VDE 180 mm
- **WX3210** Half round bent nose pliers VDE 200 mm
- **WX3610** Diagonal cutting nippers VDE 160 mm
- **WX3430** Wire strippers VDE 160 mm

Tech. Code	Pieces
F031004	4

While stocks last

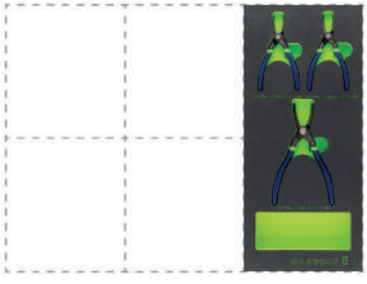
STRAIGHT NOSE PLIERS FOR INTERNAL CIRCLIPS IN FOAM

WODEX

1/3 V

ITEM: WX3400/SE3

Standard DIN ISO 5256
Set of 3 **AUTOMOTIVE LINE** straight nose pliers for internal circlips. Hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. **ERGOFORM** grip handles with anti-slip coating.
Set of pliers complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position



Composition:
Pliers for internal circlips - straight nose Ø 8-13 - Ø 12-25 - Ø 19-60 mm

Tech. Code	Pieces	Dimensions
F041603	3	J0 - J1 - J2

90° BENT NOSE PLIERS FOR INTERNAL CIRCLIPS IN FOAM

1/3 V WMS

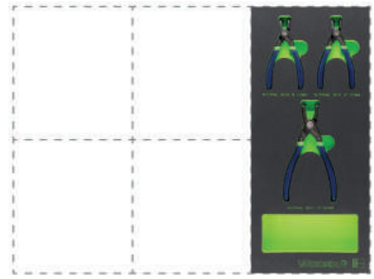
ITEM: WX3405/SE3

Standard DIN ISO 5256
Set of 3 **AUTOMOTIVE LINE** 90° bent nose pliers for internal circlips. Hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. **ERGOFORM** grip handles with anti-slip coating.

Set of pliers complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position

Composition:
Pliers for internal circlips - noses 90° Ø 8-13 - Ø 12-25 - Ø 19-60 mm

Tech. Code	Pieces	Dimensions
F043103	3	J01 - J11 - J21



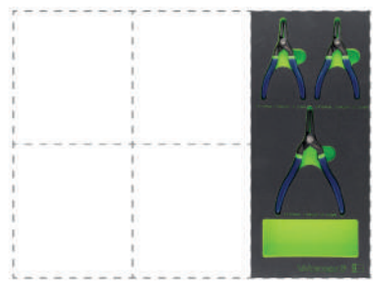
STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS IN FOAM

1/3 V WMS

ITEM: WX3410/SE3

Set di pinze completi di modulo Eva Tray per carrelli Wodex - Dimensione del modulo 200x447 mm - Posizione Verticale
Composizione:
WX3410 Pinze per anelli elastici esterni - becchi dritti Ø 3-10 - Ø 10-25 - Ø 19-60 mm

Tech. Code	Pieces	Dimension
F045603	3	A0 - A1 - A2



90° BENT NOSE PLIERS FOR EXTERNAL CIRCLIPS IN FOAM

1/3 V WMS

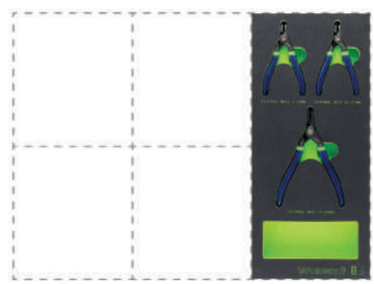
ITEM: WX3415/SE3

Standard DIN ISO 5254
Set of 3 **AUTOMOTIVE LINE** 90° bent nose pliers for external circlips. Hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during expansion. **ERGOFORM** grip handles with anti-slip coating.

Set of pliers complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position

Composition:
Pliers for external circlips - noses 90° Ø 3-10 - Ø 10-25 - Ø 19-60 mm

Tech. Code	Pieces	Dimensions
F047603	3	A01 - A11 - A21



SET OF CUTTING TOOLS AND ILLUMINATION IN FOAM

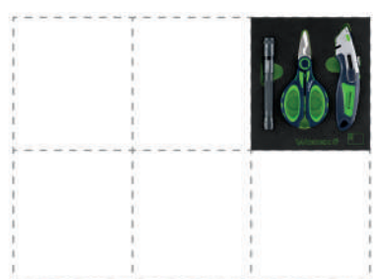
1/6 WMS

ITEM: WX9510/SE3

Set consisting of a pair of electrician's scissors, a safety cutter and a **PREMIUM QUALITY** adjustable LED PEN-LIGHT torch.
Complete with Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical Position.

Composition:
WX4770 Electrician's scissors 155 mm
WX4720 Multifunctional cutters with trapezoid blade
WX6610 Adjustable LED torch

Tech. Code	Pieces
F267503	3



PIN PUNCH SET IN FOAM

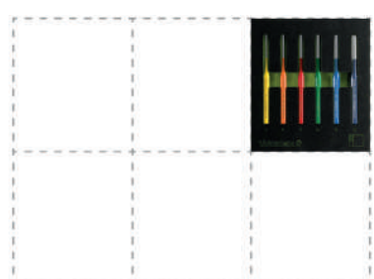
1/6 WMS fast ID

ITEM: WX4950/SE6

Standard DIN 6450 - DIN 7255
Set of 6 **PREMIUM QUALITY** pin punches in tool steel hardened to ≥ 58 HRC. The specially treated head prevents chipping and complies with **DIN 7255**. The precise chrome plating ensures high protection against corrosion and the painted colour coding means that they can be selected quickly and easily.
Set of pin punches complete with Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical Position

Composition:
Ø 3x150 - 4x150 - 5x150 - 6x150 - 8x150 - 10x150 mm

Tech. Code	Pieces
F451206	6



HAMMERS AND MALLETS IN FOAM

1/3 V

ITEM: WX9500/SE2

Kit consisting of a German type hammer with safety collar and an aluminium mallet with Nylon 100 SH heads.
Complete tool set with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical position.

Composition:

WX5100 German type hammer 600 g
WX5400 Aluminium mallets with nylon heads Ø 50 mm

Tech. Code	Pieces
F529002	2



HAMMERS AND MALLETS NON-REBOUND IN FOAM

1/3 V

ITEM: WX9503/SE2

Set consisting of a German type hammer with tri-component handle and a mallet with polyurethane heads.
Complete tool set with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical position.

Composition:

WX5110 German type hammer with three-component handle 500 g
WX5600 Non-rebound mallet with polyurethane heads Ø 40 mm

Tech. Code	Pieces
F529102	2



SET OF ASSORTED TOOLS IN FOAM

2/3

ITEM: WX9505/SE6

Set consisting of a German type hammer with protective collar, an aluminium mallet with 100 SH Nylon heads, a roller wrench, a pair of electrician scissors, a tape measure and a **Premium Quality** cutter.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 400x447 mm - Vertical Position.

Composition:

WX5100 German type hammer 500 g
WX5400 Aluminium mallets with nylon heads Ø 40 mm
WX1170 Roller wrench 250 mm
WX4770 Electrician's scissors 155 mm
WX6100 Pocket tape measure Profi-Line 5 m
WX4680 Premium cutter with snap-off blades 18 mm

Tech. Code	Pieces
F529206	6



HACKSAW AND CUTTING NIPPERS IN FOAM

1/3 V

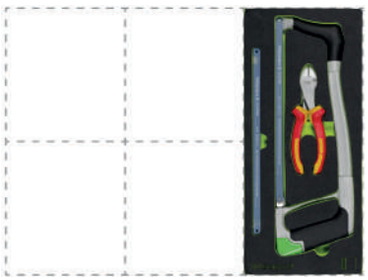
ITEM: WX9512/SE12

Set comprising a **PREMIUM QUALITY** hacksaw, 10 Bi-Metal blades 300 mm 24Z and a pair of HEAVY DUTY **cutting nippers.**
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position

Composition:

WX4780 Hacksaw ERGOFORM 300 mm
WX3620 Cutting nippers Heavy-Duty VDE 180 mm
WX4788 10 Saw blades 300 mm 24Z Bi-Metal

Tech. Code	Pieces
F408212	12



SET OF ASSORTED TOOLS IN FOAM

1/3 V

ITEM: WX9515/SE12

Set consisting of mini aluminium alloy saw complete with 150 mm blade, a pair of self-locking pliers 240 mm, diagonal cutting nippers 160 mm and a set of hex keys in a practical two component holder.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position.

Composition:

WX4790 Mini hacksaw complete with blade
WX3350 Self-locking pliers, adjustable up to 240 mm
WX3600 Diagonal cutting nippers 160 mm
WX2560/S9 Hex key set, short, 9-piece

Tech. Code	Pieces
F415212	12



MEASURING AND CUTTING TOOL SET

1/3 V WMS

ITEM: WX9690/SE7



Kit consisting of a 150 mm **ALPA Top Quality** IP54 digital calibre, a 300 mm millimetre rule, a 20-blade feeler gauge, a **Rico MarKer** marking pen with HM retractable tip, a pair of electrician's scissors, a 5 metre Profi-Line flexometer and a Premium Quality cutter with 18 mm sector blade.
Complete tool set with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical position

Composition:

AA019150P 150 mm digital IP54 gauge
RMB1 Scribe with HM tip
81.21101 Semi-rigid ruler 30 x 1 x 300 mm
37.46704 20-blade feeler gauge 0.05 - 1.00
WX4770 Electrician's scissors 155 mm
WX6110 Pocket tape measure Profi-Line 5 m
WX4680 Premium cutter with snap-off blades 18 mm

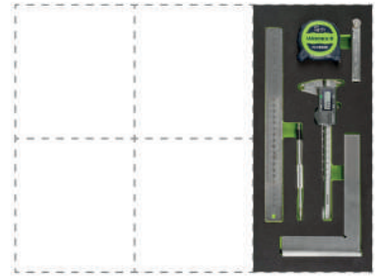
Tech. Code	Pieces
F904807	7

While stocks last

MEASUREMENT TOOLS IN SET

1/3 V WMS

ITEM: WX9691/SE6



Set consisting of a 150 mm **ALPA** digital gauge, a 300 mm millimetre rule, a feeler gauge with 20 blades, a **Rico MarKer** marking pen with HM retractable tip, a 5 metre **Top-Line** flexometer and a **DIN 875/1** 200x130 mm hat square.
Complete tool set with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical position

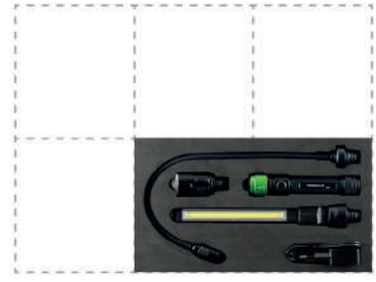
Composition:
AA021150IP40 150 mm stainless steel digital caliper with preset
81.21101 Semi-rigid millimetre rule 30 x 1 x 300 mm
37.46704 Feeler gauge with 20 blades 0.05 - 1.00 mm
WX6100 Top-Line Ruler 5 m with magnetic tongue
RMB1 Tracing pen with retractable HM tip
F9032200130A90° hat square DIN 875/1 200 x 130 mm

Tech. Code	Pieces
F912406	6

LED TORCHES

1/3 H WMS

ITEM: WX6620



High performance **PREMIUM QUALITY** modular LED torches with rechargeable battery (not included) and magnet for positioning on metal walls. Impact resistant aluminium construction with a quick-change component system and USB socket for charging even during use. ON-OFF button with ECO 30% and 100% FULL function. Operating time max 5 hours.
Set complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal Position.
Composition:
- Handle with magnet Ø 35x140 mm
- Flexible bulb Ø 20x400 mm LED XPG 180 Lumen with Zoom function **WX6620-B**
- Fixed bulb Ø 35x50 mm LED XPG 250 Lumens with Zoom function **WX6620-A**
- Multiled adjustable bulb 20x190 mm COB LED 350 Lumens **WX6620-C**
- USB battery charger 230V
-USB cable

- Charging time 4 hours

Tech. Code	Pieces
N708001	6

Battery not included (The torch requires one 18650 3.7 Volt battery Model WX6621)

FILES FOR MECHANICS IN FOAM

1/3 H WMS

ITEM: WX7620/SE5



Set of 5 files complete with Eva Tray module for Wodex trolleys - module size 400x223.5 mm - Horizontal position.

Composition:

WX7600 Flat file 8" - 200 mm T2 cut 2
WX7602 Half round file 8" - 200 mm T2 cut 2
WX7604 Round file 8" - 200 mm T2 cut 2
WX7606 Square file 8" - 200 mm T2 cut 2
WX7608 Triangular file 8" - 200 mm T2 cut 2
WX7742 Wooden handles - 2 x 120 mm - 3 x 130 mm

Tech. Code	Pieces
G832805	10



ITEM: WX9699

Moldable tool trays in Foam Eva Tray in a dual color tone, suitable for storing special tools for which a pre-cut support is not provided. The original size requires the total filling of one drawer of the Wodex trolleys.

Tech. Code	Dimensions mm
E825400	600 x 447 x 30

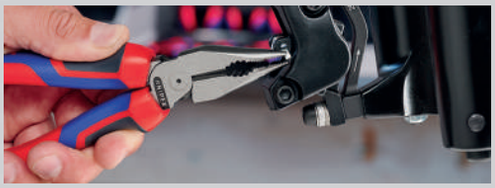
WODEX mro

Perfect ergonomics

WODEX

" HANDsome "





WODEX KNIPEX BESSEY

2 - 15

Pliers,
pliers for circlips,
adjustable pliers,
self locking pliers



WODEX KNIPEX

16 - 28

Crimping pliers
wire stripping pliers
Die cutters
Cutters



WODEX KNIPEX

28 - 33

Tongs
Cable shears
Bolt Cutters
Sheet metal shears
Electricians' scissors
Electricians' scissors



WODEX KNIPEX martor WRK

33 - 40

Pipe wrenches
Roller spanners
Pipe cutters
Plastic Shears
Cutters



WODEX ErgoBurr Deburring Tools Automaster

40 - 55

Hacksaws
Deburring tools
Chisels
Scrapers
Pin punchers - Burins



WODEX HALDER

56 - 61

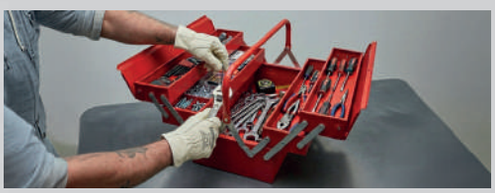
Tracing pens
Hammers
Mallets
Levers



WODEX BESSEY WRK

62 - 67

Extractors
Clamps
Clamps
Suction cups



WODEX Milwaukee WORK by GT Line

67 - 73

Tool Boxes
Tool trolleys
Tool Boxes
Tool pouches and bags



WODEX Milwaukee

74 - 83

Padlocks
Turning and spinning machines
Riveting machines
Cable ties



WODEX Milwaukee Automaster MARKAL

83 - 97

Protractors - gauges
Squares - levels - punches
Metric wheels - flexometers
Markers - brushes
Oilers - sprayers

PLIERS AND CUTTING NIPPERS IN SET

WODEX



ITEM: WX3735/S3

Set of **PREMIUM QUALITY** pliers and cutting nippers in chrome-molybdenum steel with extremely precise high strength induction-hardened cutting edges. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Composition:

WX3050 Universal pliers 180 mm
WX3200 Half round bent nose pliers 200 mm
WX3600 Diagonal cutting nippers 160 mm

Tech. Code	Pieces
F008003	3

Boxed set



ITEM: WX3740/S3

Composition:

WX3050 Universal pliers 200 mm
WX3200 Half round bent nose pliers 200 mm
WX3620 Cutting nippers DUTY 180 mm

Tech. Code	Pieces
F008503	3

Boxed set

SET OF UNIVERSAL AND ADJUSTABLE PLIERS

WODEX



ITEM: WX3745/S3

Set of **PREMIUM QUALITY** pliers containing a pair of universal combination pliers in chrome molybdenum steel, a pair of adjustable pliers with fine adjustment in chrome-vanadium steel and a pair of self-locking pliers in chrome-vanadium steel with concave jaws for clamping flat and round materials.

Composition:

WX3050 Universal pliers 180 mm
WX3300 Adjustable pliers for tubes and nuts 250 mm
WX3350 Adjustable self-locking pliers 240 mm

Tech. Code	Pieces
F008703	3

Boxed set



ITEM: WX3746/S3

Composition:

WX3050 Universal pliers 200 mm
WX3300 Adjustable pliers for tubes and nuts 300 mm
WX3350 Adjustable self-locking pliers 300 mm

Tech. Code	Pieces
F008803	3

UNIVERSAL COMBINATION PLIERS

WODEX



ITEM: WX3050

Standard DIN ISO 5746

Universal combination pliers **PREMIUM QUALITY** in chrome-molybdenum steel with extremely precise high strength induction-hardened cutting edges, satin finish. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work.
Compliant with RoHS and REACH directives.

Tech. Code	L mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0090160	160	3.1	2.0
F0090180	180	3.4	2.2
F0090200	200	3.8	2.5

UNIVERSAL COMBINATION PLIERS

ITEM: F0101

Standard DIN ISO 5746

Universal combination pliers made of chrome-vanadium steel, with satin finish and induction hardened cutting hedges. Hypoallergenic ergonomic grips in TPR soft-Touch.



Tech. Code	L mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0101180	180	3,0	1,7
F0101200	200	3,4	2,0

While stocks last

UNIVERSAL COMBINATION PLIERS STRONG TYPE

ITEM: 02 05 180/200/225

Standard DIN ISO 5746

Special steel pliers for quenched tools, forged and oil-hardened high tempered Induction cutting with hardness approx. 63 HRC, for high resistant metallic wire and piano wire, handles coated in bi-component material.



Tech. Code	L mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F0142180	180	2,5	2,0
F0142200	200	2,8	2,2
F0142225	225	3,0	2,5

PLIERS AND CUTTING NIPPERS VDE INSULATED 1000 VOLTS IN SET

ITEM: WX3752/S3



Set of **PREMIUM QUALITY** pliers and cutting nippers, insulated up to 1000V according to DIN EN 60900 / VDE 0682--201. **ERGOFORM** hypoallergenic, anti-slip, soft and comfortable grip handles. Compliant with RoHS and REACH directives.

Composition:

WX3060 Universal pliers VDE 180 mm
WX3210 Half round bent nose pliers VDE 200 mm
WX3610 Diagonal cutting nippers VDE 160 mm

Tech. Code	Pieces
F010203	3

Boxed set

While stocks last

SET OF INSULATED TOOLS VDE 1000 VOLTS

ITEM: WX3755/S16



Set of **PREMIUM QUALITY** pliers, cutting nippers, scissors and screwdrivers insulated up to 1000V according to DIN EN 60900 / VDE 0682--201. **ERGOFORM** hypoallergenic, anti-slip, soft and comfortable grip handles. Compliant with RoHS and REACH directives.

Composition:

WX3060 Universal pliers VDE 180 mm
WX3210 Half round bent nose pliers VDE 200 mm
WX3630 Cutting nippers Heavy-Duty VDE 180 mm
WX3430 Wire strippers VDE 160 mm
WX4775 Electrician's scissors VDE 155 mm
WX4190 Voltage tester 105-250 Volt 3-70 mm
WX4030 Screwdrivers for slotted screws VDE 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
WX4080 Phillips® screwdrivers VDE PH0x60 - PH1x80 - PH2x100 mm
WX4130 Pozidriv® screwdrivers VDE PZ0x60 - PZ1x80 - PZ2x100 mm

Tech. Code	Pieces
F010516	16

Boxed set

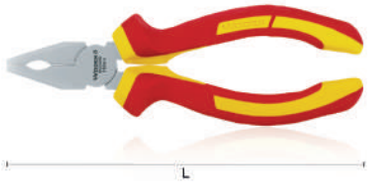
While stocks last

UNIVERSAL COMBINATION PLIERS VDE INSULATED 1000 VOLTS

ITEM: WX3060

Standard DIN ISO 5746

Universal combination pliers **PREMIUM QUALITY** in chrome-molybdenum steel with extremely precise high strength induction-hardened cutting edges, satin finish. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	L mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0110180	180	3.4	2.2

While stocks last

FLAT NOSE PLIERS

KNIPEX

ITEM: 30 11 160

Standard DIN ISO 5745
Pliers for mechanics fiat, straight nose with knurled tips, made of special steel for tools quenched, forged oil-

Version with handles coated in synthetic resin.



Tech. Code	L mm	Jaws length mm	Width mm
F0364160	160	46,5	9,5

FLAT NOSE PLIERS

KNIPEX

ITEM: 30 15 140 - 30 15 160

Standard DIN ISO 5745
Version chrome plated with handles coated in bi-component material.



Tech. Code	L mm	Jaws length mm	Width mm
F0355140	140	42	8,0 - 4,0
F0355160	160	46	9,5 - 5,0

FLAT NOSE PLIERS

WODEX

ITEM: WX3100

Standard DIN ISO 5745
Long flat nose pliers **PREMIUM QUALITY** made of chrome-molybdenum steel with satin finish and gripping jaws with knurled internal surface. Hardness: handles 43-48 HRC, tips 56-58 HRC. The hypoallergenic, non-slip, soft and comfortable **ERGOFORM** handles, made of **SANTOPRENE**® with **TPR** inserts, guarantee maximum resistance and precision work.
Compliant with RoHS and REACH directives.



Tech. Code	L mm	Jaws length mm	Jaws width mm
F0201160	160	49	10

HALF ROUND NOSE PLIERS

WODEX

ITEM: WX3200

Standard DIN ISO 5745
Half round long nose pliers with nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with satin finish, extremely precise high strength induction-hardened cutting edges, nose with a knurled grip. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	L mm	Jaw length mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0230160	160	48	2,5	1,6
F0230200	200	73	3.2	2.2

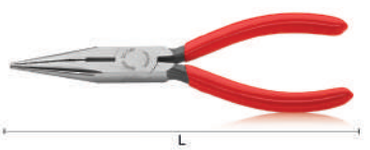
HALF-ROUND NOSE PLIERS

KNIPEX

ITEM: 25 01 125/140/160

Standard DIN ISO 5745
Pliers for fine mechanics with cutter, half round nose with knurled tips and cutting edges for metallic wire of medium and high resistance. Cutting edges further tempered with induction hardness approx. 61 HRC.

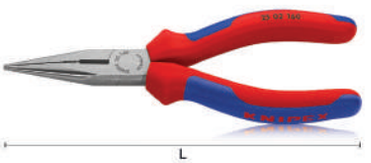
Version with handles coated with synthetic resin.



Tech. Code	L mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0235125	125	27	2,2	1,6
F0235140	140	42	2,5	1,6
F0235160	160	50	2,5	1,6

ITEM: 25 02 140/160

Standard DIN ISO 5745
Version with long jaws handles coated in bi-component material.



Tech. Code	L mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0236140	140	42	2,5	1,6
F0236160	160	50	2,5	1,6

ITEM: 26 11 200

Standard DIN ISO 5745
Version with long jaws handles coated with synthetic resin.



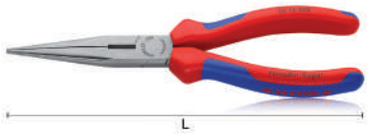
Tech. Code	L mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0237200	200	73	3,2	2,2

HALF ROUND NOSE PLIERS

ITEM: 26 12 200

Standard DIN ISO 5745

Version with long jaws handles coated in multi-component material.

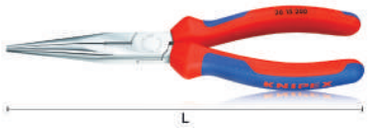


Tech. Code	L mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0238200	200	73	3,2	2,2

ITEM: 26 15 200

Standard DIN ISO 5745

Version chrome-plated with long jaws handles covered in bi-component material.



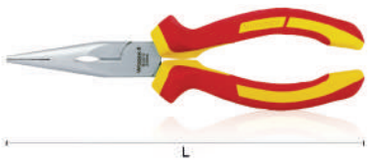
Tech. Code	L mm	Jaws length mm	Steel wire Ø max mm	Steel 1800 n/mm² Ø max mm
F0255200	200	73	2.2	2,2

HALF ROUND NOSE PLIERS VDE INSULATED 1000 VOLTS

ITEM: WX3210

Standard DIN ISO 5745

Half round long nose pliers with nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with satin finish, extremely precise high strength induction-hardened cutting edges, nose with a knurled grip surface. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	L mm	Jaw length mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0245200	200	73	3.2	2.2

While stocks last

HALF ROUND NOSE PLIERS VDE INSULATED 1000 VOLTS

ITEM: 25 06 160

Standard DIN ISO 5745

Chrome-plated pliers with cutter, half-round nose pliers with knurled tips and cutting edges for metallic wire of medium and high resistance. Cutting edges further tempered with Induction hardness approx. 61 HRC.
Forged and oil-hardened chrome-vanadium steel Insulated handles coated in multi-component material VDE tested, compliant with EC 60900 DIN EN 60900 standard.



Tech. Code	L mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0247160	160	50	2,5	1,6

ITEM: 26 16 200

Standard DIN ISO 5745

Version with long jaws.



Tech. Code	L mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0248200	200	73	3,2	2,2

HALF ROUND BENT NOSE PLIERS

ITEM: WX3220

Standard DIN ISO 5745

Long half round bent nose pliers with nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with satin finish, extremely precise high strength induction-hardened cutting edges, nose with a knurled grip surface. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



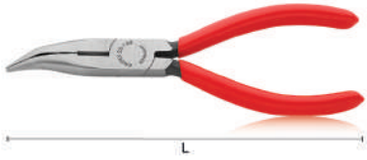
Tech. Code	L mm	Jaw length mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0275160	160	48	2,5	1,6
F0275200	200	73	3.2	2.2

HALF ROUND BENT NOSE PLIERS

ITEM: 25 21 160

Standard DIN ISO 5745

Pliers with cutter half-round bent nose pliers with knurled tips and cutting edges for matallic wire of medium and high resistance. Cutting edges furthered tempered with Induction hardness of approx. 61 HRC.
Forged and oil-hardened chrome-vanadium steel.
Version with synthetic resin coated handles.



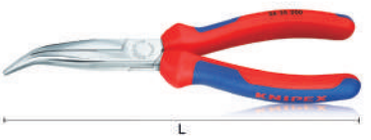
Tech. Code	L mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0276160	160	50	2,5	1,6

HALF ROUND BENT NOSE PILERS

ITEM: 25 25 160

Version chrome-plated with handles coated in bi-component material.

Tech. Code	L mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0218160	160	50	2,5	1.6



ITEM: 26 25 200

Standard DIN ISO 5745

Version chrome-plated with long jaws and handles coated in bi-component material.

Tech. Code	L mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0219200	200	73	3,2	2.2



HALF ROUND BENT NOSE PLIERS VDE INSULATED 1000 V

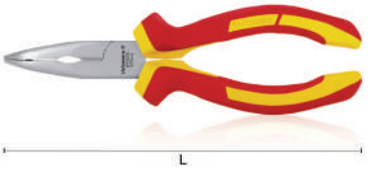
ITEM: WX3230

Standard DIN ISO 5745

Long half round bent nose pliers with nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with satin finish, extremely precise high strength induction-hardened cutting edges, nose with a knurled grip surface. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	L mm	Jaw length mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0278200	200	73	3.2	2.2

While stocks last



ROUND NOSE PLIERS VDE INSULATED 1000 VOLTS

ITEM: 30 36 160

Standard DIN ISO 5745

Chrome-plated pliers with round, long nose, precision ground, for bending eyelets.
Chrome-vanadium steel, forged, oil-hardened, Insulated handles coated in bi-component material, VDE tested, compliant with EC 60900 DIN EN 60900 standard.

Tech. Code	L mm	Jaws length mm	Ø Jaws mm
F0411160	160	41	9,5 - 2,5



LONG NOSE BENT PLIERS

ITEM: 31 21 160

Precision pliers particularly suitbable for assembly, bending and registration work particulary long jaws internally smooth with rounded edges. Special forged and oil-hardened chrome-vanadium steel, handles coated in synthetic resin.

Tech. Code	L mm	Jaws length mm	Width mm
F0398160	160	55	7,5 - 2,5



PLIERS FOR ELECTRONICS AND PRECISION MECHANICS

ITEM: WX3250

Standard DIN ISO 9655

Pliers **PREMIUM QUALITY** particularly suitable for precision work in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Flat, internally smooth jaws.

Tech. Code	L mm	Jaw length mm	Jaw width mm
F0345120	120	23	4.2 - 7.3



ITEM: WX3255

Standard DIN ISO 9655

Pliers **PREMIUM QUALITY** particularly suitable for precision work in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Half-round, internally smooth jaws.

Tech. Code	L mm	Jaw length mm	Jaw width mm
F0356120	120	25	1.5 - 7.3



PLIERS FOR ELECTRONICS AND PRECISION MECHANICS

ITEM: WX3256

Standard DIN ISO 9655

Specification: Half-round long nose internally knurled jaws.

Tech. Code	L mm	Jaw length mm	Jaw width mm
F0357130	130	34	1.5 - 7.3



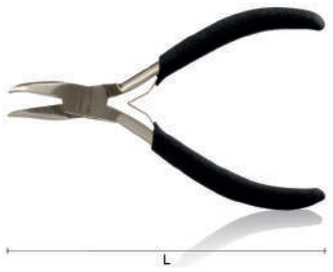
ITEM: WX3260

Standard DIN ISO 9655

Pliers **PREMIUM QUALITY** particularly suitable for precision work in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Half-round bent nose internally smooth jaws.

Tech. Code	L mm	Jaw length mm	Jaw width mm
F0380120	120	20	2.0 - 7.3



ITEM: WX3261

Standard DIN ISO 9655

Specification: Half-round long bent nose internally smooth jaws.

Tech. Code	L mm	Jaw length mm	Jaw width mm
F0381130	130	30	2.0 - 7.3



FLAT NOSE PLIERS FOR FINE MECHANICS

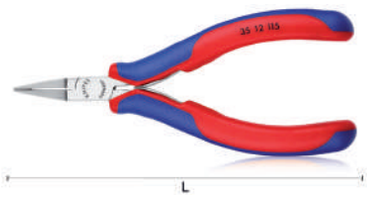
ITEM: 35 12 115

Standard DIN ISO 9655

Pliers particularly suitable for precision assembly and disassembly in electronics and fine mechanics, smooth and rectified Internal jaws with perfectly rounded edges, double spring by friction for a soft and uniform opening and closing.
Special steel for forged and oil-hardened tools, handles coated in multi-component material.

Specific:
Internally smooth flat jaws

Tech. Code	L mm	Jaws length mm	Width mm
F0347115	115	22,5	4,0 - 7,0



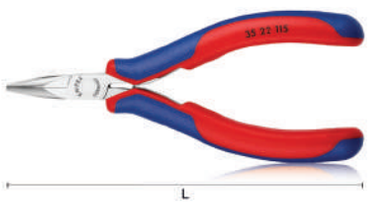
ITEM: 35 22 115

Standard DIN ISO 9655

Pliers particularly suitable for precision assembly and disassembly in electronics and fine mechanics, smooth and rectified Internal jaws with perfectly rounded edges, double spring by friction for a soft and uniform opening and closing.
Special steel for forged and oil-hardened tools, handles coated in multi-component material.

Specific:
Internally smooth half-round nose jaws

Tech. Code	L mm	Jaws length mm	Width mm
F0367115	115	22,5	1,3 - 7,0

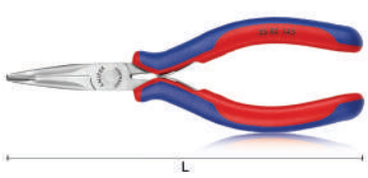


ITEM: 35 82 145

Standard DIN ISO 9655

Specific:
Long half-round bent nose jaws internally smooth

Tech. Code	L mm	Jaws length mm	Width mm
F0395145	145	35	1,0 - 7,5



PLIERS FOR ELECTRONICS AND PRECISION MECHANICS

WODEX

ITEM: WX3265

Standard DIN ISO 9655

Pliers **PREMIUM QUALITY** particularly suitable for precision work in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Smooth round jaws.



Tech. Code	L mm	Jaw length mm	Jaw Ø mm
F0389120	120	22	1.1 - 5.0

PLIERS FOR ELECTRONICS AND PRECISION MECHANICS

KNIPEX

ITEM: 35 32 115

Standard DIN ISO 9655

Pliers particularly suitable for precision assembly and disassembly in electronics and fine mechanics, smooth and rectified internal jaws with perfectly rounded edges, double spring by friction for a soft and uniform opening and closing.
Special steel for forged and oil-hardened tools, handles coated in multi-component material.

Specific:
Round nose jaws



Tech. Code	L mm	Jaws length mm	Ø jaws mm
F0390115	115	22,5	1,0 - 7,0

STRAIGHT NOSE PLIERS FOR INTERNAL CIRCLIPS

WODEX

ERGO FORM

ITEM: WX3400

Standard DIN ISO 5256 FORM C

Straight nose **Automotive Line** pliers for internal circlips, hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. **ERGOFORM** grip handles with anti-slip coating.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04150813	8 - 13	0.9	140	J0
F04151225	12 - 25	1.3	140	J1
F04151960	19 - 60	1.8	180	J2

ITEM: WX3402

Standard DIN ISO 5256 - FORM C

Integral **PREMIUM QUALITY** straight nose pliers in chrome-vanadium steel for internal circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04170813	8 - 13	0.9	135	J0
F04171225	12 - 25	1.3	135	J1
F04171960	19 - 60	1.8	180	J2
F041740100	40 - 100	2.3	225	J3

ITEM: WX3402/S4

Standard DIN ISO 5256 FORM C

Composition:

WX3402 Pliers for external circlips - straight nose Ø 8-13 - Ø 12-25 - Ø 19-60 - Ø 40-100 mm



Tech. Code	Pieces
F041804	4

Boxed set

STRAIGHT NOSE PLIERS FOR INTERNAL CIRCLIPS

KNIPEX

ITEM: 48 11 J0/J1/J2/J3/J4

Standard DIN 5256 C

Straight nose pliers for internal elastic circlips for holes, chrome-vanadium steel, oil-hardened for high stresses in continuous use, high precision and optimal movement. Handles with non-slip synthetic resin coating.



Tech. Code	ø Capacity mm	Tips mm	L mm	Dimension
F04288-13	8 - 13	0,9	140	J0
F042812-25	12 - 25	1,3	140	J1
F042819-60	19 - 60	1,8	180	J2
F042840-100	40 - 100	2,3	225	J3
F042885-140	85 - 140	3,2	320	J4

90° BENT NOSE PLIERS FOR INTERNAL CIRCLIPS

WODEX

ITEM: WX3405

Standard DIN ISO 5256 FORM D

Bent nose **Automotive Line** pliers 90° for internal circlips, hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. **ERGOFORM** grip handles with anti-slip coating.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04300813	8 - 13	0.9	130	J01
F04301225	12 - 25	1.3	130	J11
F04301960	19 - 60	1.8	170	J21

ITEM: WX3407

Standard DIN ISO 5256 FORM D

Integral **PREMIUM QUALITY** bent nose pliers 90° in chrome-vanadium steel for internal circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04320813	8 - 13	0.9	135	J01
F04321225	12 - 25	1.3	135	J11
F04321960	19 - 60	1.8	180	J21
F043240100	40 - 100	2.3	225	J31

ITEM: WX3407/S4

Standard DIN ISO 5256 FORM D

Composition:

Pliers for internal circlips - noses 90° - Ø 8-13 - Ø 12-25 - Ø 19-60 Ø 40-100 mm



Tech. Code	Pieces
F043304	4

Boxed set

90° BENT NOSE PLIERS FOR INTERNAL CIRCLIPS

KNIPEX

ITEM: 48 21 J01/J11/J21/J31/J41

Standard DIN 5256 D

90° bent nose pliers for internal circlips for holes, oil-chrome vanadium steel, oil-hardened for high stresses in continuous use, high precision and optimal movement. Handles with anti-slip synthetic resin coating.



Tech. Code	ø Capacity mm	Tips mm	L mm	Dimension
F04488-13	8 - 13	0,9	130	J01
F044812-25	12 - 25	1,3	130	J11
F044819-60	19 - 60	1,8	165	J21
F044840-100	40 - 100	2,3	210	J31
F044885-140	85 - 140	3,2	305	J41

STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS

WODEX

ITEM: WX3410

Standard DIN ISO 5254 FORM A

Straight nose **Automotive Line** pliers for external circlips, hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during expansion. **ERGOFORM** grip handles with anti-slip coating.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04550310	3 - 10	0.9	140	A0
F04551025	10 - 25	1.3	140	A1
F04551960	19 - 60	1.8	180	A2

ITEM: WX3412

Standard DIN ISO 5254 FORM A

Integral **PREMIUM QUALITY** straight nose pliers in chrome-vanadium steel for external circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04570310	3 - 10	0.9	135	A0
F04571025	10 - 25	1.3	135	A1
F04571960	19 - 60	1.8	180	A2
F045740100	40 - 100	2.3	225	A3

STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS IN SET

ITEM: WX3412/S4

Standard DIN ISO 5254 FORM A

Set of **PREMIUM QUALITY** integral straight nose pliers in chrome-vanadium steel for external circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Composition:

Pliers for external circlips - straight nose Ø 3-10 - Ø 10-25 - Ø 19-60 - Ø 40-100 mm

Tech. Code	Pieces
F045804	4

Boxed set

STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: 49 11 A0/A1/A2/A3/A4

Standard DIN 5254 A

Straight nose pliers for external elastic circlips for shafts, chrome-vanadium steel, oil-hardened for high stresses in continuous use, high precision and optimal movement. Handles with anti-slip synthetic resin coating.



Tech. Code	ø Capacity mm	Tips mm	L mm	Dimension
F04683-10	3 - 10	0,9	140	A0
F046810-25	10 - 25	1,3	140	A1
F046819-60	19 - 60	1,8	180	A2
F046840-100	40 - 100	2,3	225	A3
F046885-140	85 - 140	3,2	320	A4

STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: 49 31 A0/A1/A2

Standard DIN 5254 A

Straight nose pliers for external circlips for shafts, chrome-vanadium steel, oil-hardened for high stresses in continuous use, high precision and optimal movement. With gripper opening/closing limitation mechanism adjustable in stop. Adjustment using a hexagon socket screw. Ideal for mass production, it effectively prevents excessive expansion of the circlips. Handles with anti-slip synthetic resin coating.



Tech. Code	Capacity Ø mm	Tips mm	L mm	Dimension
F047003-10	3 - 10	0,9	140	A0
F047010-25	10 - 25	1,3	140	A1
F047019-60	19 - 60	1,8	170	A2

90° BENT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: WX3415

Standard DIN ISO 5254 FORM B

Bent nose **Automotive Line** pliers 90° for external circlips, hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during expansion. **ERGOFORM** grip handles with anti-slip coating.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04750310	3 - 10	0.9	130	A01
F04751025	10 - 25	1.3	130	A11
F04751960	19 - 60	1.8	170	A21

90° BENT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: WX3417

Standard DIN ISO 5254 FORM B

Integral **PREMIUM QUALITY** bent nose pliers 90° in chrome-vanadium steel for external circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04770310	3 - 10	0.9	135	A01
F04771025	10 - 25	1.3	135	A11
F04771960	19 - 60	1.8	180	A21
F047740100	40 - 100	2.3	225	A31

ITEM: WX3417/S4

Standard DIN ISO 5254 FORM B

Set of **PREMIUM QUALITY** integral 90° bent nose pliers in chrome-vanadium steel for external circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Composition:

Pliers for external circlips - noses 90° - Ø 3-10 - Ø 10-25 - Ø 19-60 - Ø 40-100 mm

Tech. Code	Pieces
F047804	4

Boxed set

90° BENT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: 49 21 A01/A11/A21/A31/A41



Standard DIN 5254 B

90° bent pliers for external elastic circlips for shafts, chrome-vanadium steel, oil-hardened for high stresses in continuous use, high precision and optimal movement. Handles with anti-slip synthetic resin coating.

Tech. Code	Capacity Ø mm	Tips mm	L mm	Dimension
F04883-10	3 - 10	0,9	130	A01
F048810-25	10 - 25	1,3	130	A11
F048819-60	19 - 60	1,8	165	A21
F048840-100	40 - 100	2,3	210	A31
F048885-140	85 - 140	3,2	305	A41

SET OF PLIERS FOR INTERNAL AND EXTERNAL CIRCLIPS

ITEM: WX3420/S4 - WX3420/S8 - WX3420/S12



Standard DIN ISO 5256 - DIN ISO 5254

Set of **AUTOMOTIVE LINE** straight nose pliers for internal and external circlips. Hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression or expansion. **ERGOFORM** grip handles with anti-slip coating.

Composition F045904 - WX3420/S4:

WX3400 Pliers for internal circlips - straight nose Ø 19-60 mm
WX3405 Pliers for internal circlips - noses 90° Ø 19-60 mm
WX3410 Pliers for external circlips - straight nose Ø 19-60 mm
WX3415 Pliers for external circlips - straight nose 90° Ø 19-60 mm

Composition F045908 - WX3420/S8:

WX3400 Pliers for internal circlips - straight nose Ø 12-25 - Ø 19-60 mm
WX3405 Pliers for internal circlips - noses 90° Ø 12-25 - Ø 19-60 mm
WX3410 Pliers for external circlips - straight nose Ø 10-25 - Ø 19-60 mm
WX3415 Pliers for external circlips - noses 90° Ø 10-25 - Ø 19-60 mm

Composition F045912 - WX3420/S12:

WX3400 Pliers for internal circlips - straight nose Ø 8-13 - Ø 12-25 - Ø 19-60 mm
WX3405 Pliers for internal circlips - noses 90° Ø 8-13 - Ø 12-25 - Ø 19-60 mm
WX3410 Pliers for external circlips - straight nose Ø 3-10 - Ø 10-25 - Ø 19-60 mm
WX3415 Pliers for external circlips - noses 90° Ø 3-10 - Ø 10-25 - Ø 19-60 mm

Tech. Code	Pieces
F045904	4
F045908	8
F045912	12

Boxed set

SET OF PLIERS FOR INTERNAL AND EXTERNAL CIRCLIPS

ITEM: WX3422/S8 - WX3422/S12 - WX3422/S16



Standard DIN ISO 5256 - DIN ISO 5254

Straight nose pliers **PREMIUM QUALITY** in chrome-vanadium steel for internal and external circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.

Composition F046108 - WX3422/S8:

WX3402 Pliers for internal circlips - straight nose Ø 12-25 - Ø 19-60 mm
WX3407 Pliers for internal circlips - noses 90° Ø 12-25 - Ø 19-60 mm
WX3412 Pliers for external circlips - straight nose Ø 10-25 - Ø 19-60 mm
WX3417 Pliers for external circlips - noses 90° Ø 10-25 - Ø 19-60 mm

Composition F046112 - WX3422/S12:

WX3402 Pliers for internal circlips - straight nose Ø 8-13 - Ø 12-25 - Ø 19-60 mm
WX3407 Pliers for internal circlips - noses 90° Ø 8-13 - Ø 12-25 - Ø 19-60 mm
WX3412 Pliers for external circlips - straight nose Ø 3-10 - Ø 10-25 - Ø 19-60 mm
WX3417 Pliers for external circlips - noses 90° Ø 3-10 - Ø 10-25 - Ø 19-60 mm

Composition F046116 - WX3422/S16:

WX3402 Pliers for external circlips - straight nose Ø 8-13 - Ø 12-25 - Ø 19-60 - Ø 40-100 mm
WX3407 Pliers for internal circlips - noses 90° Ø 8-13 - Ø 12-25 - Ø 19-60 - Ø 40-100 mm
WX3412 Pliers for external circlips - straight nose Ø 3-10 - Ø 10-25 - Ø 19-60 - Ø 40-100 mm
WX3417 Pliers for external circlips - straight nose 90° Ø 3-10 - Ø 10-25 - Ø 19-60 - Ø 40-100 mm

Tech. Code	Pieces
F046108	8
F046112	12
F046116	16

Boxed set

PLIERS FOR INTERNAL AND EXTERNAL ELASTIC CIRCLIPS IN SET

ITEM: 00 19 57

Set of 4 precision pliers for Internal and external circlips in a folding roll-up tool case made of hard-wearing polyester fabric with practical adjustable quick release fastener.

Composition:

48 11 J1 Circlip pliers for Internal circlips mm 12-25 straight
48 11 J2 Circlip pliers for Internal circlips mm 19-60 straight
49 11 A1 Circlip pliers for external circlips mm 12-25 straight
49 11 A2 For outer circlips - straight jaws - Ø 19-60 mm



Tech. Code	Pieces
F049004	4

CIRCLIP PLIERS WITHOUT HOLES

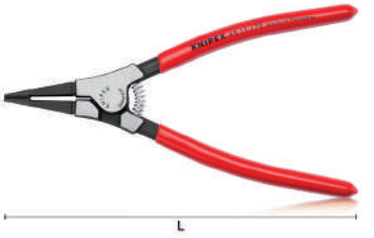
NEW

ITEM: 45 11 170

Straight-nose pliers for mounting circlips without holes on shafts, shoulder rings and circlips.
Chrome-vanadium steel with plastic-coated handles.

Specifications:

- For rings with a minimum opening of 3.6 mm
- Knurled jaws for gripping rings securely



Tech. Code	L mm
F0491170	170

ITEM: 45 21 200

Bent nose pliers for mounting circlips without holes on shafts, shoulder rings and circlips.
Chrome-vanadium steel with plastic-coated handles.

Specifications:

- For standard snap rings from Ø 12 mm with minimum ring opening of 2.2 mm
- 30° bent jaws with non-slip centring for safe gripping of rings



Tech. Code	L mm
F0493200	200

ADJUSTABLE PLIERS FOR TUBES AND NUTS

ITEM: WX3300

STANDARD DIN ISO 8976
Adjustable pliers **PREMIUM QUALITY** double guide pliers, for tubes and nuts, made of forged chrome-vanadium steel, phosphate surface finish.

- Tempered and toothed jaws approx. 58 HRC.
- Fine adjustment by pressing the button
- Soft and comfortable anti-slip grips
- Safety catch against crushing injuries



Tech. Code	L mm	Max opening mm
F0510250	250	50
F0510300	300	70

ITEM: WX3290

Standard DIN ISO 8976
Adjustable pliers with double pass-through guide for tubes and nuts, made of forged chrome-vanadium steel, phosphate finish.

- Tempered and toothed jaws with approx. 58 HRC
- Simple 7-position adjustment
- Soft and comfortable anti-slip grips
- Safety catch against crushing injuries



Tech. Code	L mm	Max opening mm
F0515250	250	36

ITEM: WX3285

Standard DIN ISO 8976
Adjustable pliers with double pass-through guide for tubes and nuts, made of forged chrome-vanadium steel, painted finish.

- Tempered and toothed jaws approx. 58 HRC.
- Simple 6-position adjustment
- Safety catch against crushing injuries



The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.

Tech. Code	L mm	Max opening mm
F0517170	175	30
F0517250	250	36
F0517300	300	46

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

ADJUSTABLE PLIERS FOR PIPES AND NUTS

ITEM: 88 01 180/250/300/400 ALLIGATOR®

Standard DIN ISO 8976

Adjustable self-locking pliers for pipes and nuts, pass through hinge and double guide for high stability, sturdy structure susceptible to dirt, particularly suitable for external work, stop contrast to prevent accidental crushing of the fingers.
Forged chrome-vanadium steel oil-hardened, hardness of the teeth approx. 61 HRC, handles coated with synthetic resin.



Tech. Code	L mm	Max opening mm
F05475180	180	42
F05475250	250	50
F05475300	300	70
F05475400	400	90

ITEM: 00 20 09 V03 ALLIGATOR®

Set of 3 Alligator adjustable pliers self-locking on pipes and nuts, black bonderized, synthetic resin coated, slip resistant handles.

Composition:
88 01 180 - 250 - 300 mm



Tech. Code	Pieces
F0603SET	3

ADJUSTABLE PLIERS FOR PIPES AND NUTS - COBRA®

ITEM: 87 01 125/150/180/250/300/400/560 COBRA®

Standard DIN ISO 8976

Adjustable self-locking pliers for pipes and nuts with adjustment by pressing the button directly on the workpiece, fine adjustment that allows you to adapt to the pieces to tighten even in the most diverse forms. Double guide through hinge for high stability, stop contrast to avoid accidental crushing of the fingers. Forged chrome-vanadium steel oil-hardened, hardness of the teeth approx. 61 HRC, chrome-finish.
Version with synthetic resin-coated handles.



Tech. Code	L mm	Max opening mm
F05480125	125	27
F05480150	150	32
F05480180	180	42
F05480250	250	50
F05480300	300	70
F05480400	400	90
F05480560	560	115

ITEM: 00 20 09 V02 COBRA®

Set of 3 adjustable pliers, for pipes with polished head and synthetic resin coated grip handle

Composition:
87 01 180 - 250 - 300 mm



Tech. Code	Pieces
F0600SET	3

ADJUSTABLE PLIERS FOR PIPES AND NUTS

ITEM: 87 05 250/300 COBRA®

Standard DIN ISO 8976

Chrome-plated version with bi-component coated handles.



Tech. Code	L mm	Max opening mm
F0578250	250	50
F0578300	300	70

ITEM: 87 51 180 - 87 51 250 COBRA® ES

Standard DIN ISO 8976

Self-locking pliers with long and tapered nose for pipes and nuts, access to the piece particularly easy thanks to the very thin shape in the whole section of the head and of the articulation, passing hinge and double guide for high stability, stop contrast to avoid accidental crushing of the fingers.
Forged chrome-vanadium steel, oil-hardened, hardness of the teeth approx. 61 HRC, handles coated in synthetic resin.



Tech. Code	L mm	Max opening mm
F0564180	180	32
F0564250	250	36

ADJUSTABLE PLIERS - RAPTOR®

ITEM: 87 41 250 RAPTOR®

Standard DIN ISO 5743

Pliers with opening from 10 to 32 mm, self- locking from 17 to 32 mm. Fine adjustment by pressing the button directly on the workpiece, even with just one hand, pass through hinge with double guide for high stability, contrast stop to prevent accidental crushing of the fingers. Forged chrome-vanadium steel, oil hardened, tooth hardness approx. 61 HRC.

Version with synthetic resin-coated handles.



Tech. Code	L mm	Max opening mm
F0565250	250	32

FRONT AND SIDE ADJUSTABLE PLIERS

ITEM: 82 01 150/200/250 TWINGRIP

Adjustable pliers for pipes and nuts with front and side gripping, five-position adjustment by pressing the button, contrast stop to prevent accidental crushing of fingers. Forged and oil-hardened chrome-vanadium steel, tooth hardness approx. 61 HRC. Version with synthetic resin-coated handles.



Tech. Code	L mm	Max. opening mm
F0570150	150	16
F0570200	200	22
F0570250	250	27

ADJUSTABLE PLIERS

ITEM: 86 01 250

Adjustable tool for screwing, clamping, supporting, pressing and bending workpieces, without damaging the edges of sanitary fittings with delicate surfaces. Adjustment directly on the workpiece by pressing the button. The parallel jaws allows flexible adjustment of all gripping widths up to the specified maximum size.
Forged and oil-hardened chrome-vanadium steel with grey bonderized finish, graduated scale.
Version with synthetic resin-coated handles.



Tech. Code	L mm	Max. capacity mm
F0575250	250	52

ADJUSTABLE WRENCH PLIERS

ITEM: 86 03 125/150/180/250/300/400

Chrome version with synthetic resin-coated handles.



Tech. Code	L mm	Max opening mm
F0580125	125	23
F0580150	150	27
F0580180	180	35
F0580250	250	46
F0580300	300	60
F0580400	400	85

PLASTIC PIPE AND SIPHON PLIERS

ITEM: 81 11 250

Version with interchangeable jaws in synthetic material for delicate surfaces.



Tech. Code	L mm	Opening ø mm
F0598250	250	10 - 75

Pair of spare jaws in synthetic material code 1227643

ADJUSTABLE SELF-LOCKING GRIP PLIERS

ITEM: WX3350

Adjustable self-locking pliers **PREMIUM QUALITY** with adjustable deep drawn chrome-vanadium steel jaws, chrome-satin finish.
- Forged chrome-vanadium steel toothed jaws
- Articulated lever for high clamping forces
- Adjustable pressure closure with rear screw

Specification:
Concave jaws for clamping round and flat pieces



Tech. Code	L mm	Max opening mm
F0625180	180	38
F0625240	240	48
F0625300	300	65

ITEM: WX3355

Specification:
Straight jaws for clamping flat, square or hexagonal pieces.



Tech. Code	L mm	Max opening mm
F0630240	240	40

ADJUSTABLE SELF-LOCKING GRIP PLIERS

ITEM: 40 04 250

Adjustable self-locking pliers for locking flat and round material.
- Toothed jaws in chrome-vanadium steel
- Articulated lever for high clamping forces
- Adjustable pressure closure with rear screw



Tech. Code	L mm	Max opening mm
F0677250	250	35

SELF-LOCKING PLIERS WITH DOUBLE ADJUSTMENT

ITEM: WX3360

Self-locking pliers **PREMIUM QUALITY** with double adjustment for clamping medium size sections, angles and pipes.
- Forged chromium molybdenum steel toothed jaws
- Quick adjustment by 4-position rack
- Adjustable pressure closing by means of upper ring nut
- Articulated lever for strong clamping forces



Tech. Code	L mm	Max opening mm
F0671275	275	80

ADJUSTABLE SELF-LOCKING PLIERS WITH SWAN COLLAR JAWS

ITEM: WX3370

Adjustable self-locking pliers **PREMIUM QUALITY** for clamping profiles with large ribs and corners.
- Robust forged chrome-vanadium steel jaws
- Articulated lever for high clamping forces
- Adjustable pressure closure with rear screw



Tech. Code	L mm	Max opening mm
F0701275	275	90

ITEM: WX3372

Specification:
Version with adjustable locking plates with increased section for clamping delicate pieces.



Tech. Code	L mm	Max opening mm
F0703275	275	80

SELF-LOCKING PLIERS WITH FORK JAWS

ITEM: WX3380

Adjustable self-locking pliers **PREMIUM QUALITY** with fork jaws for clamping sheets and profiles during welding operations.
- Fork jaws in chromium-molybdenum steel
- Upper jaw bent at 90°
- Articulated lever for high clamping forces
- Adjustable pressure closure with rear screw



Tech. Code	L mm	Max opening mm
F0708275	275	55

CLAMP GRIP PLIERS

ITEM: GRZ10-20

Model designed for parallel fastening, prismatic grooving for small and round pieces



Tech. Code	Clamping capacity mm	Length mm	L mm
F0711260-100	100	65	260
F0711260-200	200	65	260

CRIMPING PLIERS

ITEM: 97 21 215 B



High-resistant steel pilers for cutting cables, stripping wires and tightening plug connectors, with holes for cutting M2.6 copper and brass threaded screws; M3; M3.5; M4 and M5.

Usage

For crimping non-insulated plug connectors (6.3 mm width)

Tech. Code	Section mm²	AWG	L mm
F1008215	0,5 - 2,5	20 - 14	215

ITEM: 97 22 240



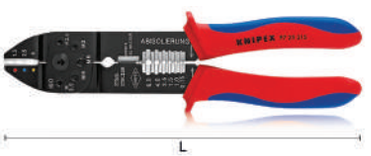
High resistant steel pliers for cutting cables, stripping wires and tightening male and female terminals, with holes for truncating threaded screws in copper and brass M2.6; M3; M3.5; M4 and M5.

Usage:

non-Insulated cable lugs and cable connectors

Tech. Code	Section mm²	AWG	L mm
F1010240	0.70 - 6	20 - 10	240

ITEM: 97 21 215



High resistant steel pliers for cutting cables, stripping wires and tightening male and female terminals, with holes for truncating threaded screws in copper and brass M2.6; M3; M3.5; M4 and M5.

Usage:

non-Insulated cable lugs and cable connectors

Tech. Code	Section mm²	AWG	L mm
F1012215	0.75 - 6	20 - 10	215

ITEM: 97 52 36 PRECIFORCE®



Crimping pliers with precision profiles and forced stop device (self releasing maechanism). Increased clamping force from the articulated lever transmission, excellent maneuverability. Chrome vanadium oil-hardened tempered steel, handles coated in bi-component material.

Usage:

Male, female terminals and pre-Insulated head connectors.

Tech. Code	Section mm²	AWG	L mm
F1015220	0.5 - 6	20 - 10	220

ITEM: 97 52 30 PRECIFORCE®



Usage:

Non-Insulated compression connectors DIN 46267

Tech. Code	Section mm²	AWG	L mm
F1016220	1,5 - 4	15 - 11	220

ITEM: 97 52 33 PRECIFORCE®



Usage:

Female terminals non Insulated compression, tubulars and terminals, DIN 46234 and DIN 46235 standard so as crimp not Insulated to compression, butt and press connectors DIN 46341 and DIN 46267 standard

Tech. Code	Section mm²	AWG	L mm
F1017220	0,5 - 10	20 - 7	220

ITEM: 97 52 34 PRECIFORCE®



Usage:

Non-Insulated open plug type connectors (plug with 2,8 + 4,8 mm)

Tech. Code	Section mm²	AWG	L mm
F1018220	0,1 - 2,5	27 - 13	220

PRECIFORCE® CRIMPING PLIERS



ITEM: 97 52 35 PRECIFORCE®

Usage:
- Non-Insulated open plug type (plug with 4,8 + 6,3 mm)



Tech. Code	Section mm²	AWG	L mm
F1019220	0,5 - 6	20 - 10	220

CRIMPING PLIERS FOR END SLEEVES



ITEM: 97 52 38 PRECIFORCE®

Usage:
- Insulated and non-Insulated end sleeves (ferrules)



Tech. Code	Section mm²	AWG	L mm
F1020220	0,25 - 6	23 - 10	220

CRIMPING PLIERS FOR END SLEEVES



ITEM: 97 53 08

Crimping pliers for end sleeves, DIN 46228 (part 1+4), Automatic adaptation to the size of the end sleeves, no climping errors using the wrong matrix, frontal Insertion of the sockets in the pincer, constant quality of crimping with force stop device (self-releasing mechanism). Increased clamping force from the articulated lever transmission. Chrome-vanadium oil-hardend tempered steel, handles coated in bi-component material.

Usage:
- Square section pressing of end sleeves up to10 mm²
- Possibility of Introducing laterally end sleeves up to 2,5 mm²
- For all Twin end sleeves up to 2 x 4 mm² o 2 x AWG 10



Tech. Code	Section mm²	AWG	L mm
F1030190	0,08 - 10	28 - 7	190



ITEM: 97 53 09

Model with selector lever for adjusting the clamping range 0,08 - 10 o 16 mm²

Usage:
- Square section pressing of end sleeves up to 16 mm²
- For all Twin end sleeves up to 2 x 6 mm²



Tech. Code	Section mm²	AWG	L mm
F1031190	0,08 - 10 + 16	28 - 5	190



ITEM: 97 53 04

Crimping pliers for end sleeves DIN 46228 (part 1+4), automatic adaptation to the size of the end sleeves, quality of constant crimping with force stop device (self releasing maechanism) Increased clamping force from the articulated lever transmission. Chrome-vanadium oil-hardened tempered steel, handles coated in bi-component material.

Usage:
- Square pressing section of the end sleeves up to16 mm²
- Square section pressing for opimal surfaces regardless of the positioning of the connection
- Pressing of all twin end sleeves up to 2 x 6 mm² o 2 x AWG 8



Tech. Code	Section mm²	AWG	L mm
F1035180	0,08 - 10 + 16	28 - 5	180



ITEM: 97 53 14

Usage:
- Pressing with hexagonal section of end sleeves up to10 mm²
- Hexagonal section pressing for difficult to access areas
- Pressing of all twin end sleeves up to 2 x 4 mm² o 2 x AWG 10



Tech. Code	Section mm²	AWG	L mm
F1036180	0,08 - 10	28 - 7	180

INSULATION AND CUTTING STRIPPER PLIERS AUTOMATIC

Weidmüller

ITEM: 9005000000 STRIPAX

Stripping tools with automatic self-regulation for flexible and rigid conductors with PVC insulation, the ideal solution for the mechanical and plant engineering industry.
Features:
- Stripping length adjustable by stop
- Automatic opening of the jaws after stripping
- Adjustable on various insulation thicknesses
- Double insulation cables in two processing stages without special regulation
- Self-adjusting cutting unit



Tech. Code	Cable section mm²	Stripping length max mm	AWG	L mm
F1190190	0,08 - 10	25	28-8	190

AUTOMATIC WIRE STRIPPING PLIERS

KNIPEX NEW

ITEM: 12 40 200 EVOSTRIP

Fully automatic wire stripping pliers for single and multi-core conductors with standard insulation. They automatically adapt to different insulation thicknesses, preventing any damage to conductors. With wire cutter for cutting multi-core copper and aluminium conductors up to 10 mm² and unipolar conductors up to 6 mm². Glass-fibre reinforced synthetic resin body and hardened tool steel blade.



Tech. Code	Cable section mm²	Max. stripping length mm	AWG	L mm
F119710	0,03-10	22	32-8	200

ITEM: 12 42 195 MULTISTRIP 10

Fully automatic stripping pliers for all single-wire, multi-wire and thin-wire conductors with standard Insulation, capacities between 0,03 and 10 mm², does not require manual adjustment. The steel jaws hold the cable in place without the risk of slipping or damage to the residual Insulation with wire cutters located deep for cutting multi-core conductors in copper and aluminum to to 10 mm² and unipolar to 6 mm².
Body in synthetic resin reinforced with fiberglass and blade for hardened steel.



Tech. Code	Cable section mm²	Stripping length max mm	AWG	L mm
F1198195	0.03 - 10	20	32-8	195

MULTIFUNCTION STRIPER PLIERS FOR ELECTRICIANS AND CABLE TECHNICIANS

KNIPEX

ITEM: 12 72 190 NEXSTRIP

Multiunction tools suitable for cutting, stripping and crimping conductive wires. Safe cutting thanks to the non-slip handle, precise stripping of the wire insulation by means of fine adjustment, square crimping with locking device that guarantees the required crimping pressure.
Features:
- Clean cutting of conductors up to 10 mm² (AWG 8).
- Stripping with fine adjustment, for conductors with a cross section between 0,03 e 10 mm² (AWG 32 - 8).
- Square section crimping single sleeve terminals according to DIN 46228 with automatic adjustment.



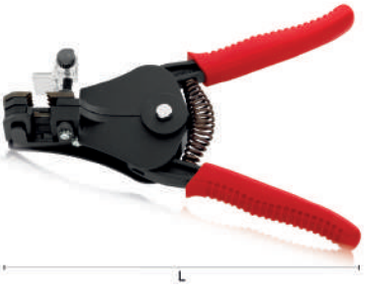
Tech. Code	Cut mm²	Stripping mm²	Crimping mm²	L mm
F120110	10	0,03 - 10	0,25 - 4 / 2 x 2,5	170

STRIPPER PLIERS

KNIPEX

ITEM: 12 21 180

Stripping pliers for six different conductor sections. Precise stripping without damage to cables thanks to ground blades, also suitable for thin-core cables
Features:
- The gripping jaws keep the wire locked during stripping
- The stop bracket ensures uniform lengths in series work
- The spring always returns the caliper to the initial position
- Interchangeable blades in special steel for oil-hardened tools



Tech. Code	Cables mm²	L mm
F1207180	0,5 - 0,75 - 1,0 - 1,5 - 2,5 - 4,0 - 6,0	180

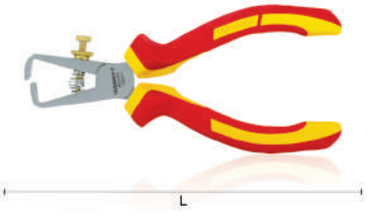
Pair of spare blades 12 29 180 Code F1207SB

WIRE STRIPPERS INSULATED 1000 VOLTS

WODEX

ITEM: WX3430

Standard DIN 8979
Wire strippers **PREMIUM QUALITY** made of chromium-molybdenum steel, satin finish. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. For resin or rubber insulated wires Ø 5 mm max. Adjustment to the required diameter with knurled screw and locknut. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	Cables mm²	L mm
F121510	10	160

While stocks last

UNIVERSAL DISMANTLING STRIPPER TOOL-ERGOSTRIP®

ITEM: 16 95 01 SB

Tool for stripping round electric cables and cables for damp enviroments (cable NYM 3x1,5 mm² - 5x2,5 mm²), data transmission cables (Twisted-Pair), and coaxial cables with return spring and pawl stop. body in synthetic resin reinforced with fiberglass.
Usage:
- Cable section stripping with round section Ø 8-13 mm
- Conductor stripping and cables 0,2 - 4 mm²
- Cable stripping for CAT 5 - 7, Twisted Pair (UTP/STP)
- Coaxial cable strippingi Ø 4,8 - 7,5 mm



Tech. Code	Cables ø mm	L mm
F1225135	8 - 13	135

CABLE STRIPPERS

ITEM: 16 30 135 SB - 16 39 135

Shock-proof, synthetic resin body. Designed for round-section cable stripping, PVC, rubber, silicon, Ø 6 - 29 mm. PTFE.

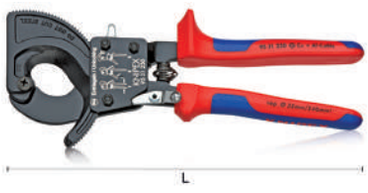


Tech. Code	Cables ø mm	L mm
F12686-29	6 - 29	135
F1268R1	Spare blade/knife	Spare blade/knife

RATCHET ACTION CABLE CUTTERS FOR COPPER AND ALUMINUM CABLES

ITEM: 95 31 250

Ratchet action cable cutters for cutting single core or multi-core hardened ground cutting edges. Clean cut without crushing, one-handed operation thanks to ratchet system, adjustable blade feed in two positions, contrast stop to avoid accidental crushing of the fingers. Special steel for forged and oil-hardened tools, handles coated in bi-component material.



Tech. Code	Multi-strand cable Ø max mm	Multi-strand cable mm²	L mm
F1080250	32	240	250

PUNCH PLIERS

ITEM: 90 70 220

Steel punch pliers with swivel support complete with 6 interchangeable punches for making through holes on leather, fabric and synthetic materials.



Tech. Code	Holes Ø mm	L mm
F1295220	2 - 2,5 - 3 - 3,5 - 4 - 5	220

HOLLOW PUNCH DIES

ITEM: WX3995

Standard DIN 7200-A

Hollow punch dies **PREMIUM QUALITY** in forged steel with hardened and ground cutting edge, suitable for die-cutting of rubber, leather, cardboard, plastic and other soft materials.



Tech. Code	Ø mm	Weight g
F130202	2	47
F130203	3	47
F130204	4	48
F130205	5	55
F130206	6	68
F130207	7	92
F130208	8	97
F130209	9	97
F130210	10	135
F130211	11	129
F130212	12	135

Tech. Code	Ø mm	Weight g
F130213	13	165
F130214	14	169
F130215	15	173
F130216	16	175
F130217	17	226
F130218	18	228
F130219	19	228
F130220	20	317
F130221	21	313
F130222	22	313
F130223	23	366

Tech. Code	Ø mm	Weight g
F130224	24	376
F130225	25	388
F130226	26	376
F130227	27	470
F130228	28	470
F130229	29	446
F130230	30	575
F130232	32	588
F130240	40	1000
F130250	50	1234
F130260	60	1850

HOLLOW PUNCH DIES IN SET

ITEM: WX3995/S12 - WX3995/S19

Standard DIN 7200-A

Set of hollow punch dies complete with practical roll-up case.
Composition:
WX3995/S12 Ø 3-5-7-8-10-12-13-14-16-19-22-25 mm
WX3995/S19 Ø 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20 mm



Tech. Code	Pieces
F130412	12
F130419	19

INTERCHANGEABLE PUNCH DIES WITH HANDLE

ITEM: 0800330

Set of interchangeable dies in hardened steel, hardness 56-58 HRC. The ergonomic handle reduces the strain, absorbs vibrations and allows the hand to be kept away from the hammer striking area, and also offers the possibility of mounting 2 dies to make ring seals with just one stop. The dies from 3 to 10 mm have the threaded connection, while from the 12 mm diameter they are locked by bayonet. Suitable for punching leather, rubber, reinforced rubber, cardboard, flexible plastics and synthetic materials.



Composition:

0892030 Ergonomic handle
089 Dies 3 - 4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 mm

Tech. Code	Pieces
F1312SET16	16

ITEM: 0800250

Composition:



0893100 Erogononic handle
0892050 Adaptor support
0880100 Retractable centering tip
089 Dies 2-3-4-5-6-7-8-9-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40-42-44-46-48-50 mm

Tech. Code	Pieces
F1315SET32	32

INTERCHANGEABLE PUNCH DIES

ITEM: 089

Interchangeable dies in hardened steel, hardness 56-58 HRC. The dies from 2 to 10 mm have the threaded connection, while from the 12 mm diameter they are locked by bayonet.



Tech. Code	Ø mm
F132002	2
F132003	3
F132004	4
F132005	5
F132006	6
F132007	7
F132008	8
F132009	9
F132010	10
F132012	12

Tech. Code	Ø mm
F132014	14
F132016	16
F132018	18
F132020	20
F132022	22
F132024	24
F132026	26
F132028	28
F132030	30
F132032	32

Tech. Code	Ø mm
F132034	34
F132036	36
F132038	38
F132040	40
F132042	42
F132044	44
F132046	46
F132048	48
F132050	50

TWEEZERS - STAINLESS STEEL

ITEM: WX3504

PREMIUM QUALITY acid-resistant and anti-magnetic tweezers made of **AISI 316L** stainless steel.

AA-SA shape with fine points, smooth interior.



Tech. Code	L mm
F1411120	120

ITEM: WX3506

Shape **2A-SA** with slightly angled fine tips, internally smooth.



Tech. Code	L mm
F1412120	120

ITEM: WX3508

Shape **5A-SA** with slightly angled extra fine tips, internally smooth.



Tech. Code	L mm
F1415115	115

ITEM: WX3510

Shape **7-SA** with extra fine tips bent at 45°, internally smooth.



Tech. Code	L mm
F1425120	120

ITEM: WX3520

Shape **001-SA** with slightly rounded fine tips, internally smooth. Version with guide pin for optimum tip alignment at all times.



Tech. Code	L mm
F1435160	160

TWEEZERS - STAINLESS STEEL

ITEM: WX3522

Shape **002-SA** with fine tips angled at 40°, internally knurled.
Version with guide pin for optimum tip alignment at all times.



Tech. Code	L mm
F1437160	160

ITEM: WX3530

Shape **35A-SA** with internally smooth spatula tips. Width of spatula tips about 6 mm.



Tech. Code	L mm
F1450120	120

SPRING BAR TWEEZERS WITH CARBON FIBRE TIPS

ITEM: WX3540

Tweezers **PREMIUM QUALITY** with non-magnetic AISI 316L stainless steel handle and antistatic **carbon fibre** tips, suitable for handling very delicate electronic components.
Shape **76-CV** with extra fine tips.



Tech. Code	L mm
F1470125	125

ITEM: WX3542

Shape **86-CV**with slightly rounded fine tips, internally smooth.



Tech. Code	L mm
F1472125	125

ITEM: WX3544

Shape **84-CV** with fine tips angled at 45°.



Tech. Code	L mm
F1474125	125

DIAGONAL CUTTING NIPPERS

ITEM: WX3600

Standard DIN ISO 5749
Diagonal cutting nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with high precision and high strength induction-hardened cutting edges, satin finish. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1690125	125	3.0	2.3	1.5
F1690160	160	4.0	3.0	2.0

DIAGONAL CUTTING NIPPERS

ITEM: 70 01 110/125/140/160/180

Standard DIN ISO 5749
Diagonal cutting nippers for versatile use with precision cutting edges for low and high resistant wire and thin copper wire, narrow head for use in difficult-to-reach locations. Chrome-vanadium steel, forged, oil-hardened, additional hardened Induction with hardness approx. 62 HRC.
Version with synthetic resin coated handles.



Tech. Code	L mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1750110	110	3,0	2,0	1,2
F1750125	125	3,0	2,3	1,5
F1750140	140	4,0	2,5	1,8
F1750160	160	4,0	3,0	2,0
F1750180	180	4,0	3,0	2,5

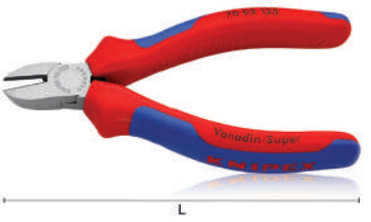
DIAGONAL CUTTING NIPPERS

KNIPEX

ITEM: 70 02 125/140/160/180

Standard DIN ISO 5749

Version with handles coated in bi-component material.



Tech. Code	L mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1752125	125	3,0	2,3	1,5
F1752140	140	4,0	2,5	1,8
F1752160	160	4,0	3,0	2,0
F1752180	180	4,0	3,0	2,5

ITEM: 70 05 160

Standard DIN ISO 5749

Version chrome plated with handles coated in bi-component material.



Tech. Code	L mm	Cutting force 1800 N/mm² Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1705160	160	4	3,0	2,0

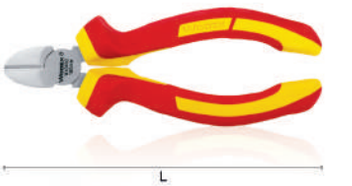
DIAGONAL CUTTING NIPPERS VDE INSULATED 1000 VOLTS

WODEX

ITEM: WX3610

Standard DIN ISO 5749

Diagonal cutting nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with high precision and high strength induction-hardened cutting edges, satin finish. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1708125	125	3.0	2.3	1.5
F1708160	160	4.0	3.0	2.0

While stocks last

DIAGONAL CUTTING NIPPERS VDE INSULATED 1000 VOLTS

KNIPEX

ITEM: 70 06 125/140/160/180

Standard DIN ISO 5749

Diagonal cutting nippers with precision cutting edges for metal wire of hard and soft resistance, copper wire, narrow head for use in difficult-to-reach locations. Chrome-vanadium steel, forged, oil-hardened, additional hardened Induction with hardness approx. 62 HRC, Insulated handles coated with bi-component material VDE tested, compliant with EC 60900 DIN EN 60900 standard.



Tech. Code	L mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1753125	125	3,0	2,3	1,5
F1753140	140	4,0	2,5	1,8
F1753160	160	4,0	3,0	2,0
F1753180	180	4,0	3,0	2,5

HEAVY-DUTY DIAGONAL CUTTING NIPPERS

WODEX

ITEM: WX3620

Standard DIN ISO 5749

Diagonal cutting nippers, heavy duty **PREMIUM QUALITY** made of chromium-molybdenum steel with high precision and high strength induction-hardened cutting edges, satin finish. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

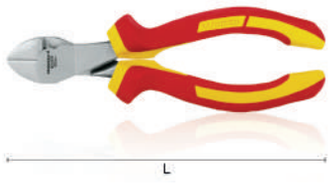


Tech. Code	L mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm	Steel 2300 N/mm² Ø max mm
F1735180	180	3.8	2.7	2.2

HEAVY-DUTY CUTTING NIPPERS VDE INSULATED 1000 VOLTS

WODEX

ITEM: WX3630



Standard DIN ISO 5749

Diagonal cutting nippers, heavy duty **PREMIUM QUALITY** made of chromium-molybdenum steel with high precision and high strength induction-hardened cutting edges, satin finish. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work.
Compliant with RoHS and REACH directives.

Tech. Code	L mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm	Steel 2300 N/mm² Ø max mm
F1745180	180	3.8	2.7	2.2

While stocks last

HEAVY-DUTY DIAGONAL CUTTING NIPPERS

KNIPEX

ITEM: 74 01 140/160/180/200/250



Standard DIN ISO 5749

Side cutting nippers "STRONG" for maximum continuous stresses with high load capacity and long life, can be used with minimum effort thaks to the optimal combination of the lever ratio and the geometry of the cutting edges.High performance forged and hardened chrome-vanadium steel, further precision cutting edges, hardened Induction hardness approx. 64 HRC.

Version with synthetic resin coated handles.

Tech. Code	L mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1736140	140	3,1	2,0	1,5
F1736160	160	3,4	2,5	2,0
F1736180	180	3,8	2,7	2,2
F1736200	200	4,2	3,0	2,5
F1736250	250	4,6	3,5	3,0

DOUBLE LEVER ACTION CUTTING NIPPERS

WODEX

ITEM: WX3650



Standard DIN ISO 5749

Diagonal cutting nippers, heavy duty **PREMIUM QUALITY** made of chromium-molybdenum steel, chamfered high strength induction hardened cutting edges suitable for cutting high strength piano steel wire. The double lever joint structure with integrated spring guarantees fast cuts with 50% less effort. Handles in deep drawn sheet metal with locking device, strong and comfortable in Soft-tex vinyl.

Tech. Code	L mm	Steel 800 N/mm² Ø max mm	Steel 1600 N/mm² Ø max mm	Steel 2000 N/mm² Ø max mm
F1771160	160	3.0	2.7	2.2

DOUBLE LEVER ACTION CUTTING NIPPERS WITH SPRING COBOLT®

KNIPEX

ITEM: 71 12 200 COBOLT®



Standard DIN ISO 5743

Version with spring for comfortable working and locking system for safe transport.
Handles coated in bi-component material.

Tech. Code	L mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1749200	200	3.6	4,0	3,6

ITEM: 71 01 200/250 COBOLT®



Standard DIN ISO 5743

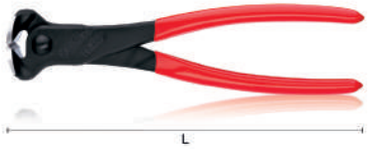
Double lever cutting nippers with precision cutting edges for low and high resistant wire, piano wire, for cutting bolts, nails and rivets up to Ø 5,2 mm. High performance chrome-vanadium steel, forged, oil-hardened with additional cutting edges Induction hardened, hardness approx. 64 HRC.
Handles coated in synthetic resin.

Tech. Code	L mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1746200	200	5,2	4,0	3,6
F1746250	250	5,6	4,0	3,8

END CUTTING NIPPERS FOR MECHANICS

KNIPEX

ITEM: 68 01 200



Standard DIN ISO 5748

End cutting nippers for metal wire of low and high resistance, also used to tie metal wires.
High performance chrome-vanadium steel, forged, oil-hardened, handles coated in resin.

Tech. Code	L mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1795160	160	4,0	2,8	2,3
F1795200	200	4,0	3,5	2,8

ITEM: 61 02 200



Cutting nippers with 85° angled front cutting edges for high-strength wire and piano wire. Chrome vanadium high-performance steel, with oil-hardened cutting edges, hardness approx. 64 HRC. Handles coated with bi-component material.

Tech. Code	L mm	Cutting force 2300 N/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Cutting value 2300 n/mm² Ø max mm
F1798200	200	4,0	3,5	3,0

CUTTING NIPPERS FOR ELECTRONICS AND PRECISION MECHANICS

WODEX

ITEM: WX3660

Standard DIN ISO 9654

Cutting nippers **PREMIUM QUALITY** particularly suitable for making precision cuts in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Rounded head with extra hard cutting edges hardness approx. 60 HRC, net cut.

Tech. Code	L mm	Copper 220 N/mm² Ø min/max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1603115	115	0.3 - 1.3	1.0	-



ITEM: WX3661

Standard DIN ISO 9654

Specification: Rounded head with extra hard cutting edges hardness approx. 60 HRC, net cut.

Tech. Code	L mm	Copper 220 N/mm² Ø min/max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1604130	130	0.3 - 1.6	1.3	-



ITEM: WX3665

Standard DIN ISO 9654

Specification: Pointed head with extra hard cutting edges hardness approx. 60 HRC, net cut.

Tech. Code	L mm	Copper 220 N/mm² Ø min/max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1611130	130	0.3 - 1.6	1.3	-



ITEM: WX3667

Nippers **PREMIUM QUALITY** nippers particularly suitable for precision cuts in the electronics, eyewear and fine mechanics sectors. Made of oil-hardened C67 steel, with double friction-free spring for soft and uniform opening and closing. The Greenflex® ML50 vinyl grips ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Pointed head with further hardened cutting edges, hardness approx. 62 HRC, semi-flush cut.

Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1621125	125	1,0	0,8	-



ITEM: WX3669

Standard DIN ISO 9654

NEW

PREMIUM QUALITY cutters particularly suitable for precision cuts in electronics, eyewear and fine mechanics. Made of oil-hardened C67 steel, with friction-free double spring for smooth opening and closing. The Greenflex® ML50 vinyl handles ensure high comfort and are suitable for extended use in assembly departments.

Specification: Pointed head with additionally hardened cutting edges hardness approx. 62 HRC, flush cut.

Tech. Code	L mm	Copper 220 N/mm² Ø min/max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1627120	120	0,3 - 1,0	0,7	-



ITEM: WX3668

Standard DIN ISO 9654

NEW

PREMIUM QUALITY cutters particularly suitable for precision cuts in electronics, eyewear and fine mechanics. Made of oil-hardened C67 steel, with friction-free double spring for smooth opening and closing. The Greenflex® ML50 vinyl handles ensure high comfort and are suitable for extended use in assembly departments.

Specification: Rounded head with additionally hardened cutting edges hardness approx. 62 HRC, semi-sharp cut.

Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1612130	130	2	1	0,8



CUTTING NIPPERS FOR ELECTRONICS AND PRECISION MECHANICS

WODEX

ITEM: WX3670

Standard DIN ISO 9654

Cutting nippers **PREMIUM QUALITY** particularly suitable for making precision cuts in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Extra hard front edges inclined at 20° hardness approx. 60 HRC, net cut.



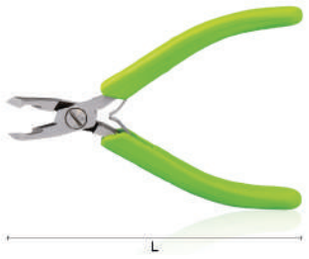
Tech. Code	L mm	Copper 220 N/mm² Ø min/max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1653120	120	0.3 - 1.3	0.3	-

ITEM: WX3677

Standard DIN ISO 9654

Nippers **PREMIUM QUALITY** particularly suitable for precision cuts in electronics, eyewear and fine mechanics sectors. Made of oil-hardened C67 steel, with double friction-free spring for soft and uniform opening and closing. The Greenflex® ML50 vinyl grips ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Front cutting edges inclined at 55° further hardened, hardness approx. 62 HRC, flush cut.



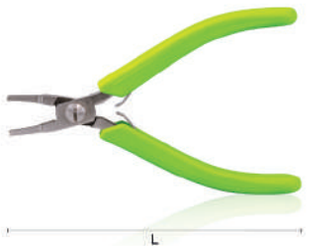
Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1655130	130	0,8	0,6	-

ITEM: WX3680

Standard STANDARD DIN ISO 9654

Nippers **PREMIUM QUALITY** particularly suitable for precision cuts in the electronics, eyewear and fine mechanics sectors. Made of oil-hardened C67 steel, with double friction-free spring for soft and uniform opening and closing. The Greenflex® ML50 vinyl grips ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: 3.3 mm wide 90° front cutting edges further hardened, hardness approx. 62 HRC, flush cut.



Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1659120	120	0,6	-	-

CUTTING NIPPERS FOR ELECTRONICS AND FINE MECHANICS

KNIPEX

ITEM: 77 02 115

Standard DIN ISO 9654

Cutting nipppers suitable for precise cutting in electronics and fine mechanics, pass-through hinge and low friction and double spring for a soft and uniform opening/closing. Special steel for hardened, forged, oil-hardened tools, further Induction cutting edges with hardness approx. 60 HRC, handles coated in bi-component material.

Specific:
Round head with semi-flush cutting edge.

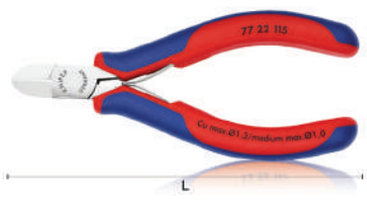


Tech. Code	L mm	High resistance wire Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1608115	115	0,6	1,2	0,6

ITEM: 77 22 115

Standard DIN ISO 9654

Specific:
Round head with satin cutting edge.



Tech. Code	L mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1614115	115	0,3 - 1,3	1,0	-

ITEM: 77 42 115

Standard DIN ISO 9654

Specific:
Pointed head with satin cutting edge.



Tech. Code	L mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1615115	115	0,3 - 1,3	0,8	-

ITEM: 77 52 115

Standard DIN ISO 9654

Specific:
Pointed flat head with semi-flush cutting edge.



Tech. Code	L mm	High resistance wire Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1618115	115	0,5	0,8	0,5

CUTTING NIPPERS FOR ELECTRONICS AND FINE MECHANICS

ITEM: 77 42 130

Standard DIN ISO 9654
Specific:
Pointed head with flush cutting edge.

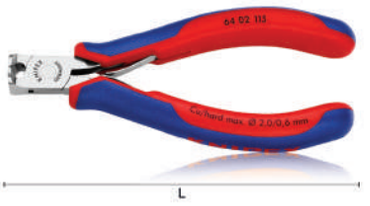
Tech. Code	L	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1616130	130	0,3 - 1,6	1,3	-



ITEM: 64 02 115

Standard DIN ISO 9654
Specific:
Form 0 Head with semi-flush front edge.

Tech. Code	L mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1650115	115	2,0	1,0	0,6



ITEM: 64 11 115

Standard DIN ISO 9654
Specific:
Form 1 Head with satin front edge and handles coated in synthetic resin.

Tech. Code	L mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1651115	115	1,4	0,8	-



ITEM: 75 02 125

Standard DIN ISO 9654
Cutting nippers suitable for precise cutting in electronics and fine mechanics, with screwed hinge for high precision and additional induction-hardened cutting edges with a hardness of approx. 64 HRC, double-fiction-free spring for soft and uniform opening and cloasing. Handles coated in synthetic resin.
Specific:
Form 0 with blunt precision cutting edges also suitable for cutting harmonic wire.

Tech. Code	L mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm	Steel 2300 N/mm² Ø max mm
F1639125	125	1,0	0,6	0,4



CUTTING NIPPERS FOR ELECTRONICS SUPER KNIPS®

ITEM: 78 03 125

Standard DIN ISO 9654
Cutting nippers for precise cutting in electronics and fine mechanics, cutting section with micro movement of the cutting edges controlled for an ultra-precise cut also of the finest metal wires articulation with alloy steel rivet, return spring and delimitation of opening. Stainless steel, cutting with approx. 54 HRC, handles coated in bi-component material.

Specific:
Flush cutting edge for mild and medium strength steel.

Tech. Code	L mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1619125	125	1,0	1,0	-



ITEM: 78 31 125

Standard DIN ISO 9654
Cutting nippers for precise cutting in electronics and fine mechanics, cutting section with micro-movement of the cutting edges controlled for an ultra-precise cut also of the finest metal wires articulation with alloy steel rivet, return spring and delimitation of opening. Stainless steel, cutting with approx, handles coated in bi-component material.

Specific:
Cutting edges additonal hardened, hardness approx. 60 HRC, flush cutting edge.

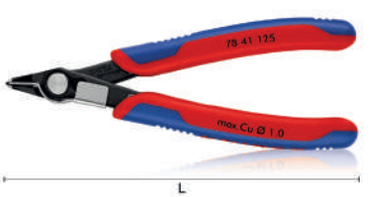
Tech. Code	L mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1624125	125	0,2 - 1,0	-	-



ITEM: 78 41 125

Standard DIN ISO 9654
Specific:
Cutting edges additional hardened, hardness approx. 60 HRC, flush cut with retaing device for the severed fragment.

Tech. Code	L mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1625125	125	0,2 - 1,0	-	-



CUTTING NIPPERS FOR ELECTRONICS SUPER KNIPS®

ITEM: 78 61 125

Standard DIN ISO 9654
Specific:
Cutting edges additional hardened, hardness approx. 64 HRC satin cut.

Tech. Code	L mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1626125	125	0,2 - 1,6	1,2	-



ITEM: 78 71 125

Standard DIN ISO 9654
Specific:
Cutting edges additional hardened, hardness approx. 64 HRC, flush cut with retaining device for the severed fragment.

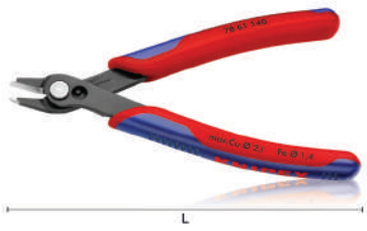
Tech. Code	L mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1632125	125	0,2 - 1,6	1,2	-



ITEM: 78 61 140

Standard DIN ISO 9654
Specific:
Version XL with additional hardened cutting edges hardness approx. 60 HRC, satin cut.

Tech. Code	L	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1630140	140	0,2 - 2,1	1,4	-



PLASTIC CUTTERS

ITEM: WX3690

Chromium-vanadium steel cutters suitable for cutting plastics, especially when it is necessary to mechanically separate injection moulded parts from the sprue, the flat-ground cutting edges allow flush cutting of moulded parts flush with surfaces, separating them from sprues or casting residues. Return spring for lighter and faster cutting operations, comfortable and durable Soft-tex handles.

Version with side cutting edges

Tech. Code	L mm	Weight g
F1755160	160	134



ITEM: WX3691

Chromium-vanadium steel cutters suitable for cutting plastics, especially when it is necessary to mechanically separate injection moulded parts from the sprue, the flat-ground cutting edges allow flush cutting of moulded parts flush with surfaces, separating them from sprues or casting residues. Return spring for lighter and faster cutting operations, comfortable and durable Soft-tex handles.

Version with 45° angled cutting edges

Tech. Code	L mm	Weight g
F1757150	150	136



DIAGONAL CUTTING NIPPERS FOR PLASTIC MATERIALS

ITEM: 72 01 140/160/180

Standard DIN ISO 5743
Diagonal cutting nippers rectified cutting edges for sharp cuts without smearing of synthetic resins, with return spring.
Chrome-vanadium steel, forged, oil.hardened, handles coated wtih synthetic resin.

Version with lateral cutting edges.

Tech. Code	L mm
F1758140	140
F1758160	160
F1758180	180



ITEM: 72 11 160

Standard DIN ISO 5743
Version with 45° inclined cutting edges.

Tech. Code	L mm
F1760160	160



NIPPERS FOR BLACKSMITHS AND CONCRETERS

ITEM: WX3858

Nippers made of tempered tool steel, forged and induction hardened. Suitable for twisting and cutting steel wires. Precision cutting edges with 60 HRC surface hardness. The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Tech. Code	L mm
F1841220	220
F1841250	250

ITEM: WX3860

Standard DIN/ISO 9242

Special steel nippers **Premium Quality** in special tempered tool steel, forged and induction hardened. Suitable for twisting and cutting steel wires. Precision cutting edges with surface hardness 61 HRC, strong and comfortable Softtex vinyl handles



Tech. Code	L mm
F1843250	250

NIPPERS FOR BLACKSMITHS AND CONCRETERS

ITEM: 99 00 200/220/250/280/300

Standard DIN/ISO 9242

Nippers forged from special tool steel, oil hardened and tempered, for twisting and cutting steel wires.
Cutting edge hardness approx. 61 HRC.



Tech. Code	L mm
F1842200	200
F1842220	220
F1842250	250
F1842280	280
F1842300	300

REINFORCED NIPPERS FOR BLACKSMITHS AND CONCRETERS

ITEM: 99 10 250/300

Standard DIN/ISO 9242

Special steel nippers for tempered, forged and oil hardened tools, for twisting and cutting steel wires. Articulation with a high transmission ratio, therefore less tiring work also using thicker metal wires, better absorption of vibrations due to cutting.
Cutting edge hardness approx. 61 HRC.



Tech. Code	L mm
F1846250	250
F1846300	300

HEAVY DUTY PINCERS

ITEM: 50 00 160/180/210/225/250/300

Standard DIN/ISO 9243

Special steel pincers for tools, forged and oil-hardened for maximum stress, appreciated by professionals thanks to the limited wear and balanced weight.
Cutting edge hardness approx. 60 HRC.



Tech. Code	L mm
F1860210	210

ITEM: 95 16 165

Shears for cutting copper and aluminum cables, which can not be used for steel wire or cold drawn copper cables. Cold,clean cut without crushing with contrast stop to avoid accidental crushing of the fingers. Special steel for hardened, forged and oil-hardened tools, VDE tested, compliant with EC 60900 DIN EN 60900 standard.



Tech. Code	Cables Ø max mm	L mm
F2201165	15	165

CABLE SHEARS

ITEM: 95 06 230

Shears for cutting single-core copper conductors with cross-section up to 16 mm², multipolar up to 50 mm² and thin wire up to 70 mm², not usable for steel wire or cold drawn copper cables, with contrast stop to prevent accidental cutting of the fingers. Adjustable screw joint, with return spring and pawl. Tempered stainless steel, Insulated coated handles with thermoplastic resin VDE tested, compliant with EC 60900 DIN EN 60900.



Tech. Code	Cables Ø max mm	L mm
F2210230	16	230

CABLE SHEARS FOR ROPES AND STEEL WIRE

ITEM: 95 61 190

Wire shears for steel and thin-wire copper cables, with two crimping profiles for Bowden cable caps and wire rope ends. Screw joint for precise blade guidance adjustable, optimum transmission ratio for cutting with minimum effort. Forged chrome-vanadium steel with cutting edge hardness of approx. 64 HRC, synthetic resin-coated handles.



Tech. Code	L mm	Copper cables Ø max mm	Steel ropes Ø max mm	Steel wire Ø max mm	Spring steel Ø max mm
F2200190	190	5	5	4	2,5

BOLT CUTTERS

ITEM: WX3870

Premium Quality Bolt Cutters Made in Germany with blades made of chrome-vanadium steel, forged and induction hardened.
- Surface hardness of cutting edges 62 HRC
- Cutting force up to 48 HRC - recommended up to 40 HRC
- Easy and precise blade adjustment thanks to eccentric screws
- Lever handles made of tubular steel with ergonomic angle
- Comfortable, non-slip plastic handles



Tech. Code	L mm	19 HRC Ø max mm	40 HRC Ø max mm	48 HRC Ø max mm
F23050460	460	8	7	5
F23050620	620	9	8	7
F23050780	780	11	9	8

ITEM: WX3869

Bolt cutters with chrome-vanadium steel blades, forged and induction hardened.
- Cutting force up to 40 HRC
- Blade adjustment by means of eccentric screws
- Lever handles made of tubular steel
- Non-slip plastic handles



Tech. Code	L mm	19 HRC Ø max. mm	40 HRC Ø max. mm	48 HRC Ø max. mm
F23070350	350	5	4	-
F23070450	450	6	5	-
F23070600	600	8	6	-
F23070750	750	10	8	-
F23070900	900	12	9	-

BOLT CUTTERS

ITEM: COMBICUT® 433

Compact and handy bolt cutters with head in special high quality forged tempered steel, top of the range distinguished by a yellow dot, to cut medium and strength steel.
- Cutting force up to 48 HRc
- No need for blade adjustments
- Reduction of separation effort due to optimal geometry
- Small dimension for Insertion of tool boxes



Tech. Code	L mm	19 HRc Ø max mm	40 HRc Ø max mm	48 HRc Ø max mm
F23000390	390	7	5	4

ITEM: UNIBOLT® 430

Bolt cutters with head in special high quality forged and tempered steel,
top of the range distinguished by the yellow dot, to cut medium and high strength steel.
- Cutting capacity up to 48 HRc
- Simple and precise adjustment of the blades thanks to the eccentric screws (*)
- Reduction of separation effort due to optimal geometry



Tech. Code	L mm	19 HRc Ø max mm	40 HRc Ø max mm	48 HRc Ø max mm
F23200460	460	8	6	5
F23200610	610	9	8	7
F23200760	760	11	9	8
F23200910	910	13	11	9
F23201070	1070	16	11	10

(*) The 1070 mm size is supplied in a traditional version with lateral adjustment of the blades

DOUBLE LEVER SHEARS FOR SHEET METAL

ITEM: WX3910-R

Double lever shears with micro-toothed blades in induction hardened hot forged steel.
Ergonomic handles in plastic material.

Features:
Suitable for right-handed cuts.



Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2405250	250	1.2	1.0	0.8	370

DOUBLE LEVER SHEARS FOR SHEET METAL

ITEM: WX3910-L

Features:
Suitable for left-handed cuts.

Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2406250	250	1.2	1.0	0.8	370



DOUBLE LEVER SHEARS FOR SHEET METAL

ITEM: WX3910-S

Features:
Suitable for straight cuts.

Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2407250	250	1.2	1.0	0.8	370



PREMIUM QUALITY DOUBLE LEVER SHEARS FOR SHEET METAL

ITEM: WX3900-R

Shears **PREMIUM QUALITY** double lever with micro-toothed blades in special hot forged induction hardened steel.
Ergonomic handles in plastic material.

Features:
Suitable for right-handed cuts.

Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2410250	250	1.5	1.2	1.0	510



ITEM: WX3900-L

Features:
Suitable for left-handed cuts.

Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2411250	250	1.5	1.2	1.0	510



ITEM: WX3905-R

Shears **PREMIUM QUALITY** double lever with micro-toothed blades in special hot forged induction hardened steel.
Ergonomic handles in plastic material.

Features:
Suitable for through cuts and right-hand contouring.

Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2415250	250	1.5	1.2	1.0	560



ITEM: WX3905-L

Features:
Suitable for through cuts and left-hand contouring.

Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2416250	250	1.5	1.2	1.0	560



SHEARS FOR SHEET METAL AMERICAN MODEL

ITEM: WX3950

Shears for sheet metal **PREMIUM QUALITY** American model in hot forged steel. Induction hardened straight blades (R = 600 N/mm²) suitable for through cuts. Comfortable and resistant PVC coated handles.

Tech. Code	L mm	Blade mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Weight g
F2495200	200	48	1	0.7	280
F2495250	250	58	1.2	0,8	490
F2495300	300	75	1.5	1	750
F2495350	350	95	1.5	1	1100

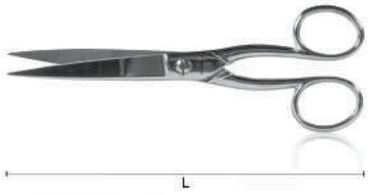


SCISSORS FOR PAPER

ITEM: WX4750

Scissors entirely made of C50 alloy steel with anti-rust nickel coating, blades with hardness 52-56 HRC sharpened and finished with precision machines, suitable for cutting paper, light fabrics, thin cardboard and plastic films.
Specification: Long blades with pointed ends

Tech. Code	L mm	Weight g
F2497180	180	95
F2497230	230	115



SCISSORS FOR PAPER

ITEM: WX4752

Specification: Safety blades with rounded ends

Tech. Code	L mm	Weight g
F2499125	125	59
F2499155	155	73



MULTIPURPOSE SCISSORS

ITEM: WX4755/M

Sturdy and handy work scissors with hardened stainless steel blades hardness 52-54 HRC and ergonomic bi-material handles. The **titanium coating** of the blades guarantees an excellent cut and a prolonged life, the micro-serration of the lower blade prevents the material to be cut from slipping. Suitable for cutting paper, cardboard, thin rubber, films, fabrics and leather.

Specification: Grips with symmetrical circles

Tech. Code	L mm	Weight g
F2500165	165	43



ITEM: WX4755/L

Specification: Grips with asymmetric rings

Tech. Code	L mm	Weight g
F2501210	210	106



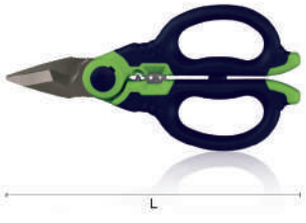
ELECTRICIAN SCISSORS

ITEM: WX4771

NEW

Premium Quality professional scissors with blades made of 4034 stainless steel and Impact Resistant handles made of two-component material with finger-protection stop.
Features:
- Hardened blades 58±2 HRC hardness and 3.7 mm thickness
- Non-slip micro serration on one blade
- Double profile for cutting cables up to 50 mm² cross section
- Metal device for stripping 1.5 and 2.5 mm² wires
- Metal device for crimping 1.5 to 2.5 mm² wires
- PP handle with TPR non-slip coating
- Plastic case complete with belt clip

Tech. Code	L mm
F2503160	160



ITEM: WX4770

PREMIUM QUALITY professional electrician's scissors with stainless steel blades, ergonomic handles made of two-component material with finger-protection stop.
- Vacuum-hardened blades with approx. 56±2 HRC hardness
- Non-slip micro serration on one blade
- Double profile for cutting cables up to 70 mm² cross-section
- Metal crimping system for wires from 1 to 6 mm² - AWG 22-14
- Nylon handle with TPR rubber coating

Tech. Code	L mm
F2504155	155



PROTECTIVE COVER FOR SCISSORS WX4770

ITEM: WX4770/H

Protective cover for electricians scissors WX4770 complete with belt clip.

Tech. Code	L mm
F250600	130



ELECTRICIAN'S SCISSORS

ITEM: WX4766

PREMIUM QUALITY professional electrician's scissors with stainless steel blades, ergonomic handles made of two-component material with finger-protection stop.
- Hardened blades with 54±2 HRC hardness
- Non-slip micro-toothing on one blade
- Nylon handle with TPR non-slip coating.

Tech. Code	L mm
F2518150	150



ITEM: WX4768

PREMIUM QUALITY professional electrician's scissors with stainless steel blades, ergonomic handles made from two-component material with finger-protection stop.
- Vacuum-hardened blades with approx. 56±2 HRC hardness
- Non-slip micro serration on one blade
- Double profile for cutting cables up to 50 mm² cross section
- Nylon handle with non-slip TPR coating

Tech. Code	L mm
F2520150	150



ITEM: WX4764

Premium Quality Made in Italy professional compact scissors with blades made of Chrome-Vanadium steel and ergonomic handles made of Nylon reinforced with fibreglass.
Features:
- Hardened blades 58±2 HRC hardness and 3.2 mm thickness
- Non-slip micro-toothing on one blade
- Profile for cutting cables up to 50 mm² cross section
- High-strength M6 connection screw
- Compact handle

Tech. Code	L mm
F2522140	140



ITEM: WX4765

Professional scissors with nickel-plated Chrome-Vanadium steel blades and ergonomic plastic handles.
Features:
- Hardened blades hardness 56±2 HRC
- Non-slip micro serration on one blade
- Notch cutter
- Compact handle

Tech. Code	L mm
F2523145	145



ITEM: WX4762

Electrician's scissors with stainless steel blades, ergonomic handles made of two-component material with finger-protection stop.
- Vacuum-hardened blades with 54±2 HRC hardness
- Non-slip micro serration on one blade
- Notch cutter
- Nylon handle with TPR coating

The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits

Tech. Code	L mm
F2525145	145



For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

ELECTRICIAN SCISSORS

ITEM: WX4774

NEW

Professional scissors with nickel-plated Chrome-Vanadium steel **CURVED blades** and ergonomic plastic handles.
Features:
- Hardened blades 56±2 HRC hardness
- Non-slip micro-toothing on one blade
- Notch cutter
- Compact handle



Tech. Code	L mm
F2530145	145

ELECTRICIAN'S SCISSORS INSULATED 1000V

ITEM: WX4775

Standard IEC 60900 DIN EN 60900
Professional use electrician's scissors with stainless steel blades and ergonomic grip handles, insulated up to 1000V, VDE tested.
- High cutting capacity blades
- Anti-slip micro-toothing on one of the blades
- Profile for cutting single core cables
- Anti-slip TPR coated grip handle
- Finger pinch safety stop



Tech. Code	L mm
F2640155	155

MULTIPURPOSE SHEARS

ITEM: WX4776

Shears **Premium Quality** with straight blades in 60 HRC stainless steel, one of which with fine teeth, return spring and bi-component handle. The adjustable opening in 2 different positions helps the operator, the safety lock prevents any accidental opening.



Tech. Code	Cutting blades mm	L mm
F2656205	50	205

SHEARS FOR CUTTING COPPER AND ALUMINUM CABLES

ITEM: WX4777

Shears **Premium Quality** with 60 HRC stainless steel blades for cutting copper and aluminum cables with section up to 10 mm², return spring and BI-component handle. the safety lock prevents any accidental opening.



Tech. Code	Cable Ø max mm	L mm
F2657165	12	165

PROFESSIONAL MULTIPURPOSE SCISSORS

ITEM: WX4778

Multipurpose scissors **Premium Quality** with blades made of manganese steel, suitable for cutting rubber, cardboard and synthetic fabrics.
Vinyl coated handles suitable for comfortable and extended use.



Tech. Code	L mm
F2658200	200
F2658250	250
F2658300	300

SWEDISH MODEL PIPE WRENCHES

ITEM: WX3780

NEW

Standard DIN 5234
Swedish model pipe wrench made of chrome-vanadium steel with induction hardened jaws, painted finish.

Features:
Version with 90° angled jaws - Shape A



Tech. Code	Max. pipe Ø Inch	Max. pipe Ø mm	L mm	Weight g
F332010	1" Gas	34	310	720
F332015	1.1/2" Gas	50	420	1150
F332020	2" Gas	66	560	2200
F332030	3" Gas	100	620	3100

SWEDISH MODEL PIPE WRENCHES

WODEX

ITEM: WX3782

NEW

Standard DIN 5234

Features:

Version with 45° inclined jaws - Shape B



Tech. Code	Max. pipe Ø Inch	Max. pipe Ø mm	L mm	Weight g
F332210	1" Gas	34	310	750
F332215	1.1/2" Gas	50	420	1200
F332220	2 Gases	66	560	2400
F332230	3 Gases	100	620	3500

45° BENT THIN JAW SWEDISH MODEL PIPE WRENCHES

WRK

ITEM: F3328

Chrome vanadium coated steel.



Tech. Code	Tube max Ø	L mm
F33281/2	1/2"	265
F33281	1"	310
F332811/2	1-1/2"	410
F33282	2"	570
F33283	3"	695

While stocks last

SWEDISH MODEL PIPE WRENCHES

WODEX

ITEM: WX3784

NEW

Standard DIN 5234

Features:

Version with 45° angled and shaped jaws - Shape C



Tech. Code	Max. pipe Ø Inch	Max. pipe Ø mm	L mm	Weight g
F332410	1" Gas	34	310	750
F332415	1.1/2" Gas	50	420	1200
F332420	2" Gas	66	560	2400
F332430	3" Gas	100	620	3500

45° BENT SLIM-LINE JAW SWEDISH MODEL PIPE WRENCHES

WRK

ITEM: F3319

Chrome vanadium coated steel.



Tech. Code	Tube max Ø	L mm
F33191/2	1/2"	265
F33193	3"	680

While stocks last

PIPE WRENCHES AMERICAN MODEL IN CAST IRON

WODEX

ITEM: WX3794

Pipe wrenches American model with painted malleable cast iron handle and forged steel jaws. The jaw is adjustable via a knurled roller, the double spring device allows immediate blocking of the tube and rapid resumption of the manoeuvre.



Tech. Code	L mm	Ø Pipe max Inches	Ø Pipe max mm	Weight g
F33290350	350	2" Gas	60	1280
F33290450	450	2"-1/2 Gas	73	2580
F33290600	600	3" Gas	89	4050
F33290900	900	5" Gas	141	9000

ITEM: WX3795

Pipe wrenches American model with light alloy handle and forged steel jaws. The mobile jaw is adjustable via a knurled roller, the double spring device allows immediate blocking of the tube and rapid resumption of the manoeuvre.



Tech. Code	L mm	Ø Pipe max Inches	Ø Pipe max mm	Weight g
F33300350	350	2" Gas	60	880
F33300450	450	2"-1/2 Gas	73	1380
F33300600	600	3" Gas	89	2235
F33300900	900	5" Gas	141	3880

While stocks last

BAND KEY FOR OIL FILTERS

WODEX

ITEM: WX3980

Adjustable metal strap spanners for oil filters



Tech. Code	Ø filter mm	Band length mm
F3340105	65 - 110	395
F3340145	110 - 155	537

REVERSIBLE CHAIN PIPE WRENCHES

ITEM: F3280

Bi-directional rotation maneuvering, without removing the tool, vanadium chrome painted steel lever.

Tech. Code	Max opening	L mm
F32804	4"	300



STRAP WRENCHES FOR OIL FILTERS

ITEM: F3283

Heavy-duty strap wrench for oil filters.

Tech. Code	Opening mm	Grip length mm
F3283140	140	230



ADJUSTABLE ROLLER WRENCHES

ITEM: WX1172

Standard DIN 3117 ISO 6787

Roller wrenches in forged and oil-hardened chrome-vanadium steel, satin chrome finish. Mouth inclined by 15°, millimeter scale, opening of the mobile jaw by rotating the roller.

The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied sets.

Tech. Code	a mm	L mm
F3418150	20	150
F3418200	25	200
F3418250	30	250
F3418300	35	300
F3418375	45	375
F3418450	55	450

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office



ITEM: WX1170

Standard DIN 3117 ISO 6787

Roller wrenches **PREMIUM QUALITY** forged oil-hardened chrome-vanadium steel, chrome-satin finish. 15° angled mouth, millimetre scale, movable jaw opening by rotating the roller.

Tech. Code	a mm	L mm
F3420200	32	200
F3420250	43	250



UNIVERSAL PIPE CUTTERS

ITEM: WX3800

Small **Hydraulic-Line** pipe cutters suitable for use in hard-to-reach areas, suitable for cutting pipes in stainless steel, copper, aluminium, brass and PVC. Die-cast aluminium body with device for quick cutter wheel changes.
Features:
2 rollers to slide the pipe mounted on bearings
Cutter wheel in special cobalt steel mounted on bearing
Adjustment handwheel with housing for spare wheel

Tech. Code	Opening inches	Opening mm	Cutting depth max. mm	Weight g
F351130	1/8" - 1-1/8"	3 - 30	2.5	215

The tool is equipped with a spare wheel



ITEM: WX3810

Ergonomic and compact **Hydraulic-Line** pipe cutters suitable for cutting pipes in stainless steel, copper, aluminium, brass and PVC with maximum precision. Body in magnesium with device for quick cutter wheel changes, practical deburring tool for finishing operations.
Features:
4 rollers to slide the pipe mounted on bearings
Cutter wheel in special cobalt steel mounted on bearing
Removable deburring tool with cobalt blade **E100S**
Adjustment handwheel with housing for spare wheel

Tech. Code	Opening inches	Opening mm	Cutting depth max. mm	Weight g
F352135	1/8" - 1-3/8"	3 - 35	2.5	335

The tool is equipped with a spare wheel



ITEM: WX3840

Spare wheels for pipe cutters WX3800 and WX3810 in special cobalt steel, suitable for cutting pipes in stainless steel, copper, aluminium, brass and plastics in general. The wheels are equipped with a roller bearing for maximum smoothness, even in the toughest jobs.

Tech. Code	Ø mm	Thickness mm	Hole mm
F351219	19	5	5



PLASTIC PIPE SHEARS

WODEX

ITEM: WX3850

Light alloy shears with interchangeable hardened steel blade hardness 62-64 HRC, particularly useful in the pneumatics, hydraulics and plant engineering sectors in general, **suitable for cutting** polyurethane, polyamide, nylon and rubber **hoses**.
The special hand sharpening makes the blade very resistant and guarantees a clean and precise cut.



Tech. Code	Pipe Ø max mm	L mm	Weight g
F353512	12	130	110
F353526	26	185	300

ITEM: WX3850/B

Hardened Steel Replacement Blades Hardness 62-64 HRC for WX3850 Plastic Hose Cutter. The special hand-made sharpening makes the blade very resistant and guarantees a clean and precise cut.



Tech. Code	Pipe Ø max mm	Dimension mm	Hole spacing mm
F353612	12	19,8 x 22,5 x 0,6	13
F353626	26	29,8 x 40,5 x 0,8	19

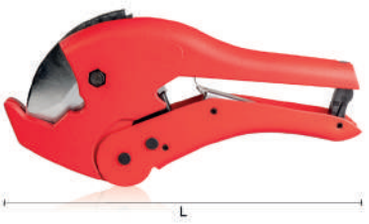
PLASTIC PIPE SHEARS

WODEX

ITEM: WX3855

NEW

Premium Quality plastic pipe cutters, special steel blade and rack feed mechanism **with quick release device**, suitable for cutting PE, PP, PVC and PPR pipes of medium thickness.



Tech. Code	Pipe Ø mm	L mm	Weight g
F353842	0 - 42	225	500

ITEM: WX3855/B

Replacement blades for WX3855 shears

NEW



Tech. Code	Pipe Ø max mm	Dimensions mm
F353942	42	105 x 78 x 2.5

ITEM: WX3856

Plastic pipe cutters, special steel blade and rack feed mechanism, suitable for cutting PE, PP, PVC and PPR pipes of medium thickness.
The excellent price-performance ratio also allows these tools to be used for kit compositions.

NEW



Tech. Code	Pipe Ø mm	L mm	Weight g
F354042	0 - 42	196	318

ITEM: WX3856/B

Replacement blades for WX3856 shears

NEW



Tech. Code	Pipe Ø max mm	Dimensions mm
F354142	42	104 x 61 x 2.5

PLASTIC PIPE CUTTERS

KNIPEX

ITEM: 90 20 185

Reinforced plastic material and fibreglass body, not fit to cut rebound spring and stop ratchet cables. Synthetic resin, reinforced fibreglass body, special oil hardened steel exchangeable blade.



Tech. Code	Pipe Ø max mm	L mm
F3558185	25	185
F3558RIC1	90 20 185 spare blades	-

PORTABLE MANUAL PIPE BENDERS

ITEM: P/22A

The F3595 pipe bender is the lightest and the fastest in its range of tools and thus the easiest to handle. At the same time, it is very powerful and able to bend big diameter pipes with the minimum effort.

Technical features: Light-alloy, high-resistance die cast block (kg. 1,15), Die-cast brass operating lever, Die-cast aluminium formers,Steel counterformers with die-cast aluminium laterals for quick coupling.



Tech. Code	Copper pipes Ø mm	Composition
F3595SET	10-12-14-16 18-20-22	1 pipe-bending machine 1 former and counterformer for copper pipes Ø 10-12-14-16-18-20-22 in kit 1 ABS suitcase

TELESCOPIC MIRRORS

ITEM: WX6070/40

Articulated telescopic inspection mirrors complete with magnet at the end of the handle.
Magnet Ø 5 mm, holding force 5 N. Metal handle with pocket clip.



Tech. Code	Ø mm	min - max extension mm
F359840	40	136 - 545

ITEM: WX6075

Articulated telescopic mirrors for inspection with ergonomic plastic handle.



Tech. Code	Ø mm	Extension min - max mm
F359930	30	250 - 680
F359950	50	310 - 720

TELESCOPIC MIRRORS IN STAINLESS STEEL

ITEM: 12921M

Unbreakable telescopic mirrors in stainless steel with 180° swiveling ball joint. Version without connection screws according to FOD for use in absolute safety.



Tech. Code	Ø mm	Extension min - max mm
F360232	32	171 - 699
F360257	57	178 - 921

ITEM: 12921M

Unbreakable telescopic mirrors in stainless steel with 180° swiveling ball joint. Version without connection screws according to FOD for use in absolute safety.



Tech. Code	Dimension mm	Extension min - max mm
F36034570	45 x 70	178 - 927

WODEX mro
Perfect ergonomics

SECTOR BLADE CUTTER

WODEX

NEW

ITEM: WX4651

Cutter with 9 mm sector blade, thin, ergonomic handle made of acid-resistant plastic material and steel blade-guide structure with device for opening cardboard boxes without cutting the contents.
Features:
- High-quality blade made of extremely sharp and long-lasting SK2 carbon steel



Tech. Code	Dimensions mm	Segment blade mm	Weight g
F366109	153 x 30 x 16	80 x 9 x 0.4	34

ITEM: WX4670

Extremely sharp and long-lasting 9 mm carbon steel sector blades.



Tech. Code	Dimensions mm	Material	Quantity blades
F367910	80 x 9 x 0.4	Steel SK2	10
F3679100	80 x 9 x 0.4	Steel SK2	100

ITEM: WX4672

9 mm sector blades in **Premium Quality** steel Made in Germany. Advanced hardening process at very high temperatures to achieve a fine, homogenous molecular structure, rapid cooling for further hardening and tempering to reduce excessive hardness and increase ductility. Extremely precise sharpening for a clean cut without burrs.



Tech. Code	Dimensions mm	Material	Quantity blades
F368110	80 x 9 x 0.4	C95	10
F3681100	80 x 9 x 0.4	C95	100

ITEM: WX4680

Cutters with **PREMIUM QUALITY** snap-off blades 18 mm, strong and resistant. Metal body and zinc alloy, anti-slip ergonomic TPR Soft-Grip handle.
Features:
- Container with 3 replacement blades integrated in the handle
- High quality blades in carbon steel SK2 extremely sharp and long lasting



Tech. Code	Dimensions mm	Snap-off blades mm	Weight g
F368018	167 x 37 x 23	100 x 18 x 0.5	237

ITEM: WX4675

Cutters with 18 mm snap-off blades, light and resistant. Metal blade guide structure and ergonomic two-component ABS handle with TPR inserts. The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Tech. Code	Dimension mm	Snapp-off blades mm	Weight g
F368218	170 x 40 x 22	100 x 18 x 0,5	73

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

ITEM: WX4710

Extremely sharp and long-lasting 18 mm carbon steel sector blades.



Tech. Code	Dimensions mm	Material	Quantity blades
F369910	100 x 18 x 0.5	Steel SK2	10
F3699100	100 x 18 x 0.5	Steel SK2	100

ITEM: WX4712

18 mm sector blades in **Premium Quality** steel Made in Germany. Advanced hardening process at very high temperatures to achieve a fine, homogenous molecular structure, rapid cooling for further hardening and tempering to reduce excessive hardness and increase ductility. Extremely precise sharpening for a clean cut without burrs.



Tech. Code	Dimensions mm	Material	Quantity blades
F370110	100 x 18 x 0.5	C95	10
F3701100	100 x 18 x 0.5	C95	100

CUTTERS WITH SEGMENTED BLADES

WODEX

NEW

ITEM: WX4690

Cutters with 25 mm **premium quality** sector blades, robust and durable thanks to metal construction with non-slip plastic coating.
Features:
- Self-locking blade device during use.
- Additional blade locking via side wheel.
- High-quality blade made of extremely sharp, long-lasting SK2 carbon steel.



Tech. Code	Dimension mm	Segment blade mm	Weight g
F369025	190 x 49 x 19	25	190

ITEM: WX4716

Extremely sharp and long-lasting 25 mm carbon steel sector blades.

NEW



Tech. Code	Dimension mm	Material	Quantity blades
F370410	140 x 25 x 0.7	Steel SK2	10

CUTTERS WITH SNAP-OFF BLADES 9MM

WRK

ITEM: F3710

Metal body, 9 mm snap- off blade.



Tech. Code	L mm	Snapp off blades mm	Weight g
F3710MET9	135	80 x 9 x 0,4	18

While stocks last

ITEM: F3720

ABS body, 18 mm snap- off blade.



Tech. Code	L mm	Snapp off blades mm	Weight g
F3720ABS18	160	100 x 18 x 0,5	15

While stocks last

ITEM: F3730

ABS body, steel blade guide, 18 mm snap- off blade



Tech. Code	L mm	Snapp off blades mm	Weight g
F3730ABSACC	165	100 x 18 x 0,5	61

While stocks last

ITEM: F3740

Bi-component ABS and termoplastic rubber body, steel blade guide, blade holder/loader with six 18mm splitting blades included.



Tech. Code	L mm	Snapp off blades mm	Weight g
F3740ABSBIC	155	100 x 18 x 0,5	137

While stocks last

Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10



The products are available in chapter K

SAFETY CUTTERS WITH TRAPEZOID BLADE

ITEM: WX4725



Safety cutter **PREMIUM QUALITY** robust and resistant, zinc alloy body, ergonomic TPR Soft-Grip handle.
Features:
- Slider to extract the blade with **automatic retraction**
- Simple and intuitive blade replacement
- Can be used by right and left handed people
- High quality trapezoid blade in SK2 carbon steel

Blade extraction adjustable by side wheel:
- Position 1 extraction 8 mm
- Position 2 extraction 15 mm
- Position 3 extraction 25 mm
- Position 0 blade extraction not permitted

Tech. Code	Dimensions mm	Trapezoid blade mm	Weight g
F374760	155 x 48 x 20	60 x 19 x 0.6	164

TUV Test Report N. 70.435.14.680.03-01 Ref. SX2010G

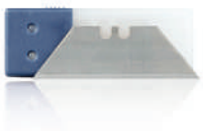
ITEM: WX4720



Multifunctional Safety cutters with **PREMIUM QUALITY** trapezium blades 60x19 mm, robust and resistant. Zinc alloy body, anti-slip ergonomic TPR Soft-Grip handle.
Features:
- Lateral slider for blade extraction
- Upper slider for blade extraction with automatic retraction
- Integrated device for cutting nylon threads and films
- Button for a quick-change of the blade
- Container with 3 replacement blades integrated in the handle
- High quality blades in carbon steel SK2 extremely sharp and long duration

Tech. Code	Dimensions mm	Trapezoid blade mm	Weight g
F374560	174 x 46 x 26	60 x 19 x 0.6	208

ITEM: WX4730



Extremely sharp and long-lasting 60x19 mm carbon steel trapeze blades.

Tech. Code	Dimensions mm	Material	Quantity blades
F374810	60 x 19 x 0.6	Steel SK2	10
F3748100	60 x 19 x 0.6	Steel SK2	100

ITEM: WX4732



Trapezium blades 60x19 mm in **Premium Quality** steel Made in Germany. Advanced hardening process at very high temperatures to achieve a fine and homogeneous molecular structure, rapid cooling for further hardening and tempering to reduce excessive hardness and increase ductility. Extremely precise sharpening for a clean cut without burrs.

Tech. Code	Dimensions mm	Material	Quantity blades
F375010	60 x 19 x 0.6	C125	10
F3750100	60 x 19 x 0.6	C125	100

SMALL GRAFIX CUTTERS

ITEM: 32132.00



Cutter in aluminium for cutting and deburring,easy to manage the handle and the avaiilable blades allows you to work with more precision.

Tech. Code	Dimension mm	Weight g
F405001	120 x 8 x 8	19,2

ITEM: 32.50



Package of 10 blades for Small Gafix cutters.

Tech. Code	Dimension mm	Material
F405510	51,5 x 5,7 x 0,63	Steel

TYPICAL MARTOR:
CUTTING WITHOUT CUTTING YOURSELF.

QUALITY MADE IN GERMANY

The company MARTOR based in Solingen is the leading international manufacturer of high-quality safety knives. These are equipped with reliable safety technologies that effectively protect against cutting accidents. The MARTOR range has the right safety knife for virtually every cutting application – from the versatile all-rounder to the perfect specialist. Also advantageous for customers and users: the ergonomics of the handles, the sharpness of the blades and the simplicity of the blade change.



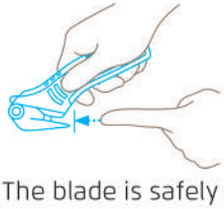




OUR SAFETY KNIVES = ACTIVE ACCIDENT PREVENTION.

SECUMAX

Concealed blade = Highest safety



The blade is safely shielded – and therefore does not come into contact with the user and the goods.

SECUPRO

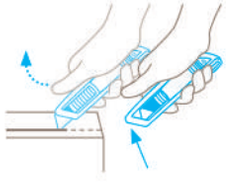
Fully automatic blade retraction = Very high safety



After the cut, the blade disappears immediately into the handle – even if you continue to press the trigger.

SECUNORM

Automatic blade retraction = High safety



Thumb off the slider – and the blade retracts in a flash after cutting.

THE SAFER WAY TO CUT.

martor

SAFETY CUTTERS SECUMAX 145

martor

ITEM: 145001.12 SECUMAX 145

Safety cutters small and thin with a plastic handle reinforced unexposed blade. Recommended for engraving and cutting cardboard of mono-layers, cellulose roller films, adhesive tapes. Blade not replaceable.
GS-Certification 602578-6075-55094-2016/2 C



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F390001	118 x 4 x 35,4	3,8	12

ITEM: 150001.12 SECUMAX 150

Safety cutters with a plastic handle reinforced unexposed blade. Recommended for engraving and cutting cardboard of mono-layers, cellulose roller films, adhesive tapes, plastic braids, fabric. Also Indicated for scrapering adhesive labels. Blade not replaceable.
GS-Certification S 60082479



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F391001	148 x 11 x 37,2	6,2	24,4

ITEM: 350001.02 SECUMAX 350

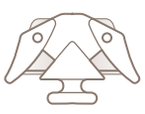
Safety cutters with plastic handle reinforced unexposed blade. Recommended for engraving and cutting cardboard of mono-layers, cellulose roller films, adhesive tapes, plastic braids, fabric. Double-use blade head both the blade and the tape cutter are two-sided and can be extracted in a simple way to Invert or replace it. In the handle there has been created a housing containing a replacement blade.
GS-Certification S 60082479



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F392001	154 x 12 x 40	6	37

ITEM: 3550.20

Package of 10 blades for Secumax 350 safety cutters.



Tech. Code	Dimension mm	Material
F392510	38,9 x 5,8 x 0,3	Steel

ITEM: 32000110.02 SECUMAX 320

Safety cutters ideal for cutting films and plastic straps, the hidden blade and rounded nose protect the operator and the goods in a particularly reliable way. Ergononic handle with Soft-Grip inserts.
GS-Certificate 603646-6680-55094-2018/1



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F393101	158 x 13 x 56	4	47,4

ITEM: 92043.66

Pack of 10 blades with rounded tips for Secumax safety cutters.



Tech. Code	Dimension mm	Material
F393210	26 x 18,5 x 0,40	Steel

ITEM: 121001.02 SECUMAX EASYSAFE

Safety cutters with a pronounced tip of the cutting tool which eases pentration and opening of bags or pallets banded with cellulose film. The Intergration plastic spring eases the cutting of thin films and sheets of paper even in Individual layers. Recommended for engraving and cutting cardboard of mono-layers, cellulose roller films, adhesive tapes, plastic braids, fabric and felt. Blade with 4-sided cutting edges. Removable by means of a safety key.
GS-Certification S 60077225



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F394001	207 x 10 x 66	6,6	67

ITEM: 45.60

Package of 10 blades for Secumax Easysafe - Secunorm 175.



Tech. Code	Dimension mm	Material
F403510	39 x 18,4 x 0,30	Steel

ITEM: 625001.02 SECUPRO 625

The SECUPRO cutter 625 stands out among the erogonomic lever handle cutters and brings together all the features required by professionals. Aluminum handle, sliding lever to unlock the blade, cutting depth particularly wide, an automatic return of the blade, changing of the blade very practical. An automatic blade return ensures maximum protection during cutting. The blade immediately enters the handle when it does not come to contact with the material even if you continue to actuate the lever.
GS-Certification 602091-5862-55094-2015/2 C



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F396001	154 x 22 x 67	21	151

ITEM: 60099.70

Package of 10 blades for Secumax 625 and Secupro Maxisafe safety cutters.



Tech. Code	Dimension mm	Material
F396510	55,5 x 19 x 0,63	Steel

SAFETY CUTTERS SECUPRO MARTEGO

martor

ITEM: 122001.02 SECUPRO MARTEGO

Aluminum cutter with pincushion grip handle and fully automatic blade retraction. Safe, robust, ergonomic, versatile and of very high quality, suitable for right and left handed users, for operators with very large hands.The automatic blade return ensures maximum protection during cutting, the blade immediately enters the handle when it does not come to contact with the material, even if you continue to actuate the lever.
GS-Certification S 60077225



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F397001	155 x 18 x 48,5	9	105

ITEM: 124001.02 SECUPRO MERAK

Plastic cutter with pincushion grip handle and fully automatic blade retraction. Safe, light weight ergonomic handle, versatile and of very high quality, suitable for right and left handed users. The automatic blade return ensures maximum protection during cutting, the blade immediately enters the handle when it does not come to contact with the material, even if you continue to actuate the lever.
GS-Certification S 60112078



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F398001	128 x 18 x 50	9	59

ITEM: 92.66

Package of 10 blades for Secupro Martego e Merak safety cutters.



Tech. Code	Dimension mm	Material
F397510	26 x 18,5 x 0,40	Steel

ITEM: 10139910.02 SECUPRO MAXISAFE

Safety cutter with automatic blade retraction. Very high cutting depth with the possibility of cuts up to 3 layers of cardboard, carpets or cellulose films. Extremely handy for right and left handed users. High security. The automatic blade return ensures maximum protection during cutting, the blade immediately enters the hankdle when it does not come to contact with material, even if you continue to actuate the lever.
GS-Ceritification 603523-6639-55094-2018



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F399001	148 x 18 x 42	16	64

ITEM: 125001.02 SECUNORM MIZAR

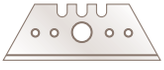
Safety cutters with automatic blade retraction. Very high cutting depth with the possibility of cutting on cardboard up to 3 layers, carpet or film. Extremely comfortable to handle, thanks to the gripper handle it is suitable for both right and left-handed users. High safety, the automatic blade retraction guarantees high protection against cutting injuries because it falls back into the handle immediately after releasing the lever. The SECUNORM MIZAR 3-in one safety is unique in its kind, with the latter you can not only lock and unlock your cutting tool, but also proceed with changing the blade in a simple and safe way.
GS-Certificate 179274-7111-55094-2020



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F399701	139 x 15,6 x 50,5	15	59

ITEM: 5232.70

Package of 10 blades for Secunorm 500, Secunorm Mizar, Secunorm 300 security cutter.



Tech. Code	Dimension mm	Material
F404510	53 x 19 x 0,63	Steel

ITEM: 380001.02 SECUNORM 380

Plastic safety cutters with a blade extension of almost 8 cm with an automatic blade retraction. A valid alternative to conventional cutters, moreover a safety mechanism that prevents the blade to come out without your Intervention. As soon as you put the blade onto the material to be cut, it is sufficient to remove your thumb from the mechanism and the blade will re-enter into the handle immediately after leaving the material cut.
GS-Certification S 60095195



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F400001	170,5 x 20 x 34	73	78

ITEM: 79.60

Package of 10 blades for Secunorm 380 and Secubase 383 safety cutters.



Tech. Code	Dimension mm	Material
F400510	109,5 x 17,9 x 0,5	Steel

F

SAFTEY CUTTERS

martor

ITEM: 50000110.02 SECUNORM 500

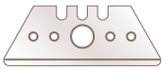
Safety cutters sturdy and ergonomic with a trapezoidal blade with rounded tips. Newly designed aluminum handle with operating slider mechanism that can be used flexibly on both sides. During cutting, the automatic retraction of the blade protects the user from being cut and wounded.
GS-Certificate 603574-6653-55094-2018/2



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F401101	143 x 16 x 36	17	72,5

ITEM: 65232.70

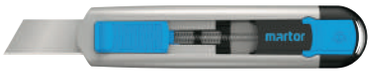
Pack of 10 blades with rounded tips for Secunorm and Argentax safety cutters.



Tech. Code	Dimension mm	Material
F401210	50,1 x 19 x 0,63	Steel

ITEM: 54000410.02 SECUNORM 540

Safety cutters robust and ergonomic equipped with a blade with cutting capacity up to 36 mm, aluminum handle of new conception with particularly large maneuvering cursor that we can operate even when wearing reinforced gloves. While cutting, the automatic blade retraction protects the user from cutting injuries.



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F401401	143 x 17 x 31	36	79

ITEM: 7940.60

Package of 10 blades for Secunorm Profi40 safety cutters.



Tech. Code	Dimension mm	Material
F401510	71,2 x 17,9 x 0,5	Steel

ITEM: 300004.10 SECUNORM 300

Safety cutters easy to use with automatic blade retraction. As soon as you put the blade onto the material to be cut it is sufficient enough to remove your thumb from the mechanism and the blade will re-enter into the handle after leaving the material cut. Can be used by right and left handed people to cut all the most common materials.
GS-Certificate 178531-7034-55094-2019/1



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F401801	143 x 16 x 36	19	52

ITEM: 175001.02 SECUNORM 175

Plastic safety cutters, practical, light-weighted with erogonomic handle suitable for also left-handed users. As soon as you put the blade onto the material to be cut it is sufficient enough to remove your thumb from the mechanism and the blade will re-enter into the handle after leaving the material cut.
GS-Certification S 60087371



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F403001	109,5 x 13,5 x 34	10	31

ITEM: 45.60

Package of 10 blades for Secumax Easysafe - Secunorm 175.



Tech. Code	Dimension mm	Material
F403510	39 x 18,4 x 0,30	Steel

Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10



The products are available in chapter K

HACKSAWS

ITEM: WX4780

Manual hacksaws **PREMIUM QUALITY** robust and ergonomic made of aluminium alloy with soft non-slip rubber inserts to work safely with minimum effort even in the most difficult situations. Maximum cutting precision with the possibility to tilt the blade to 40°. Easily adjustable blade tension through the clamping device integrated in the lower part of the handle. Supplied with **BI-METAL** 24 Z blade.



Tech. Code	Blade mm	Blade Inc.	Weight g
F4080300	300	12"	650

ITEM: WX4785

Manual hacksaws made of 18x10 mm rectangular steel tube and zinc alloy handle with non-slip rubber coating, to work in safety and with minimum effort. Blade tension easily adjusted by wing nut.
Supplied with BI-METAL 24 Z blade.



Tech. Code	Blade mm	Blade Inc.	Weight g
F4085300	300	12"	430

ITEM: WX4788

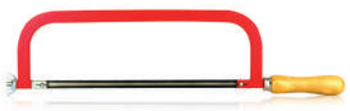
HIGH PERFORMANCE high cobalt **HSS BIMETAL** hacksaw blades.



Tech. Code	Blade mm	Blade Inc.	Z	Weight g
F4145300	300	12"	24	18

ITEM: F4135

Arch with 18x8 mm section and wooden handle.



Tech. Code	Blade mm	Blade Inc.	Weight g
F4135300	300	12"	560

While stocks last

MINI HACKSAWS

ITEM: WX4790

Mini hacksaws **PREMIUM QUALITY** sturdy and ergonomic made of aluminium alloy with non-slip plastic handle, to work safely and with minimum effort in difficult to access areas. Maximum cutting precision with the possibility of orienting the blade in 6 different positions. Blade tension by knurled clamping knob. Supplied with a 32 Z blade.



Tech. Code	Blade mm / inc.	Weight g
F4150150	150 / 6"	130

ITEM: WX4799

Pack of 12 **PREMIUM QUALITY** HSS steel blades for mini hacksaws.



Tech. Code	Length mm / inc.	Z
F4159150	150 / 6"	32

F

ITEM: SET E+3 HEAVY DUTY

Tool for deburring holes and edges with axial blade mounting, the very compact handle/blade coupling makes it suitable for heavy-duty work, supplied with 3 blades, fits all E-type blades.



Tech. Code	Blades holder Type	Blades Type
F4210SET1	-	E100 - E200 - E350

ITEM: SET B THE WORKHORSE

Tool for deburring holes and edges, blades can be mounted in the telescopic blade holder either axially or perpendicularly, supplied with 2 blades, fits all B-type blades.



Tech. Code	Blades holder Type	Blades Type
F4220SET2	B	B10 - B20

ITEM: SET E HEAVY DUTY

Tool for deburring holes and edges, tubes on both sides, axial mounting of the blade on the telescopic blade holder, supplied with 3 blades, fits all E-type blades.



Tech. Code	Blades holder Type	Blades Type
F4230SET3	E	E100 - E200 - E300

ITEM: SET BURR-BI HEAVY DUTY SHEET CLEANER

Tool for deburring linear edges on difficult to machine materials, can deburr single edges on large thicknesses using a single blade fixed in the centre of the holder, or the 2 edges of a sheet using 2 blades fixed at the side (up to a thickness of 12 mm). Supplied with a safety guard and 2 blades.



Tech. Code	Blade holders Type	Blades Type
F4240SET4	BR	R10

ITEM: SET D THE SHEET CLEANER

Tool for simultaneous double-sided deburring of sheet metal up to 3 mm thick, supplied with an HM blade.



Tech. Code	Blades holder Type	Blade Type
F4250SET5	D	D80

ITEM: SET C SCRAPER

Triangular scraper with three cutting edges for precision scraping of planes, edges and holes, the telescopic blade holder allows you to reach the most inaccessible work areas, supplied with a spanner for safe removal of the blade and a blade.



Tech. Code	Blades holder Type	Blade Type
F4260SET6	C	C42

ITEM: SET F COUNTERSINK

Tool for chamfering and countersinking holes up to Ø 20 mm, the telescopic blade holder allows you to reach deep working points, supplied with a countersinking tool, fits all F-type blades.



Tech. Code	Blades holder Type	Countersinks Type
F4270SET7	F	F20

ITEM: SET FR-ID RATCHET-BURR FOR ID

Tool for chamfering and countersinking holes up to Ø 20 mm, telescopic blade holder with non-return mechanism, ideal when rotary deburring becomes impossible due to space requirements, supplied with a countersinking tool, fits all F-type blades.



Tech. Code	Blades holder Type	Countersinks Type
F4280SET8	FR	F20

ITEM: SET BURR-EX RATCHET-BURR FOR OD

Tool for external chamfering up to Ø 26 mm, telescopic blade holder with non-return mechanism, ideal when rotary deburring becomes impossible due to space requirements, supplied with a deburring tool, fits all F-type blades.



Tech. Code	Blades holder Type	Countersinks Type
F4290SET9	FR	F26X

ITEM: SET G SLOT EDGE CLEANER

Tool for deburring inside and outside edges of slots up to 15 mm wide, supplied with an 8-edge blade, fits all G-type blades.



Tech. Code	Blades holder Type	Blade Type
F4291SET10	G	G10

ITEM: SET G/3 TRIPLE CORNER CLEANER

Tool for deburring and removing machining residues from machine tools, ensures a good finish on joints. The special angle of the blade holder allows easy access to the work area, supplied with a 3-edged blade, fits all G-type blades.



Tech. Code	Blades holder Type	Blade Type
F4292SET11	G	G30

DEVELOPERS

ITEM: DEBURRING & SCRAPING PREMIUM KIT

Heavy-Duty deburring and scraping kit, the set includes tools for the most common applications.
Supplied with 2 blade holders, 6 E-type blades, one C-type blade complete with mounting spanner.



Tech. Code	Blade holder Type	Blades Type
F4295SET11	E - C	E100P - E111 - E200 - E300 - E600 - E700 - C42

ITEM: UNIBURR UB1

Deburring tool with slim handle, robust and lightweight complete with pocket clip, for deburring steel, aluminium, copper and plastic, supplied with a non-replaceable blade.



Tech. Code	Blade Type
F4201A	E100

ITEM: UNIBURR MB2000

Deburring tool with hexagonal handle, suitable for deburring steel, aluminium, copper and plastic, supplied with one blade, fits all E-type blades.



Tech. Code	Blade Type
F4200B	E100

DEBURRER HANDLES

ITEM: ERGONOMIC HANDLES

Ergonomic handles with safety device for changing blades or blade holders.



Tech. Code	For blade holders Type	For blades Type
F420501	-	B
F420502	-	E
F420503	B - C - E - F - FR	-

HOLDERS FOR DEBURRING BLADES

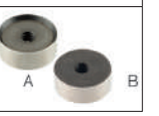
Tech. Code	Type	Mod.
F4300B	B	
F4300C	C	
F4300E	E	

Tech. Code	Type	Mod.
F4300F	F	
F4300FR	FR	

BLADES FOR DEBURRING TOOLS

ErgoBurr™ Deburring Tools

Tech. Code	Type	Description	Mod.
F4310B10	B10	HSS - Ø 2.6 mm - Right-hand rotation For steel, aluminium, copper and plastics For holes and linear edges	
F4310B10P	B10P	HSS-TIN - Ø 2.6 mm - Right-hand rotation For steel, aluminium, copper and plastics For holes and linear edges	
F4310B20	B20	HSS - Ø 2.6 mm - Right and left hand rotation For brass, cast iron and plastics For holes and linear edges	
F4310B20P	B20P	HSS-TIN - Ø 2.6 mm - Right and left-hand rotation For brass, cast iron and plastics For holes and linear edges	
F4310B30	B30	HSS - Ø 2.6 mm - Right-hand rotation For steel, aluminium, copper and plastics Deburring int/ext. of tubes max. thickness 4 mm	
F4310C40	C40	HSS - Type C - Right and left hand rotation For steel, aluminium, copper, brass and plastics Triangular scraper 4 mm	
F4310C42	C42	HSS - Type C - Right and left hand rotation For steel, aluminium, copper, brass and plastics Triangular scraper 8 mm	
F4310D80	D80	HM - Type G - 6 cutting edges For all materials Deburring of sheet metal up to 3 mm thick	
F4310E100	E100	HSS - Ø 3.2 mm - Right-hand rotation For steel, aluminium, copper and plastics For holes and linear edges	
F4310E100S	E100S	HSSE - Ø 3.2 mm - Right-hand rotation For stainless steel, aluminium, copper and plastics For linear holes and edges	
F4310E100P	E100P	HSS-TIN - Ø 3.2 mm - Right-hand rotation For steel, aluminium, copper and plastics For holes and linear edges	
F4310E110	E110	HSS - Ø 3.2 mm - Right-hand rotation For steel, aluminium, copper and plastics For holes Ø min. 2 mm	

Tech. Code	Type	Description	Mod.
F4310E111	E111	HSS - Ø 3.2 mm - Right-hand rotation For steel, aluminium, copper and plastics For holes Ø min. 1.5 mm	
F4310E200	E200	HSS - Ø 3.2 mm - Right and left hand rotation For brass, cast iron and plastics For holes and linear edges	
F4310E200P	E200P	HSS-TIN - Ø 3,2 mm - Right and left hand rotation For brass, cast iron and plastics For holes and linear edges	
F4310E300	E300	HSS - Ø 3.2 mm - Right-hand rotation For steel, aluminium, copper and plastics Deburring int/ext. of tubes max. thickness 6 mm	
F4310E350	E350	HSS - Ø 3.2 mm - Right and left hand rotation For brass, cast iron and plastics For linear edges	
F4310E600	E600	HSS - Ø 3.2 mm - Right-hand rotation For steel, aluminium, copper and plastics For deep holes up to 20 mm	
F4310F20	F20	HSS - Type F - Right-hand rotation For all materials 90° countersink Ø 20 mm	
F4310F30	F30	HSS - Type F - Right-hand rotation For all materials 90° countersink Ø 30 mm	
F4310F26X	F26X	HSS - Type F - Right-hand rotation For all materials External deburring of tubes up to 26 mm	
F4310G10	G10	HSS - Type G - 4 cutting edges For slot widths up to 15 mm For all materials	
F4310G30	G30	HSS - Type G - 3 cutting edges For all materials For right angles or grooves	
F4310R10	R10	HSS - Burr-Bi type - Double blade A-side for long chip materials B-side for short chip materials	



INNOVATION
SINCE 1929.

Fami® Storage Systems

WWW.FAMISPA.COM

FLAT SCRAPERS WITH HM INSERT

RENNSTEIG

ITEM: 465

Flat scrapers with hard metal inserts suitable for metal scraping. Chrome steel blade with screw bracket for insert locking.
Supplied with 4-sided cutting insert.



Tech. Code	Insert width mm	Blade holder mm	L mm
F440020	20	300 x 5	420
F440025	25	330 x 5	450
F440030	30	330 x 5	450

ITEM: 465-0

Replacement inserts for flat scrapers art. 465.



Tech. Code	Insert width mm	Insert thickness mm	Insert length mm
F440120	20	2	25
F440125	25	2	25
F440130	30	2	25

METAL SCRAPERS

WODEX

ITEM: WX4898

Triangular spoon-shaped scrapers for working on rounded profiles and for deburring operations.
Made of chrome-vanadium steel with honed and sharpened tip, wooden handle.



Tech. Code	Blade length mm	L mm	Weight g
F4415150	150	250	90

RIBBED CHISELS FOR MECHANICS

WODEX

ITEM: WX4900

Ribbed chisels in forged chrome-vanadium steel with resharpenable blade. Chrome-satin finish.



Tech. Code	L mm	Cutting edge mm
F443021	150	21
F443026	200	26
F443029	250	29
F443034	300	34

EXTRA-FLAT CHISELS FOR MECHANICS

WODEX

ITEM: WX4905

Standard DIN 7255
Chisels **PREMIUM QUALITY** in self-hardening chrome-vanadium steel, the special treatment of the head prevents chipping and complies with **DIN 7255**. Resharpenable blade, extra thin painted handle.



Tech. Code	L mm	Cutting edge mm
F4440240	240	26

ITEM: WX4905/H

Chisels complete with hand guard



Tech. Code	L mm	Cutting edge mm
F4441240	240	26

CHISELS FOR MECHANICS

WODEX

ITEM: WX4908

Standard DIN 6453 - DIN 7255
Chisels **PREMIUM QUALITY** in self-hardening chrome-vanadium steel, the special treatment of the head prevents chipping and complies with **DIN 7255**. Resharpenable blade, octagonal painted handle.



Tech. Code	L mm	Cutting edge mm
F4443125	125	12
F4443150	150	12

CHISELS, PUNCHES AND BURINS IN SET

ITEM: WX4980/S6PS

Standard DIN 7255

Set of chisels, punches and burins **PREMIUM QUALITY** in self-hardening chrome-vanadium steel. The special treatment of the head prevents chipping and complies with **DIN 7255**. Resharpenable blade, octagonal painted handle.
Practical plastic bench stand.



Composition:

WX4908 Flat chisels 12x125 - 12x150 mm
WX4925 Hook chisels 4x125 mm
WX4970 Conical punches 3x120 - 4x120 mm
WX4960 Burins 4x120 mm

Tech. Code	Pieces
F447006	6

CHISELS FOR MECHANICS

ITEM: WX4910

Standard DIN 6453 - DIN 7255

Chisels **PREMIUM QUALITY** in self-hardening chrome-vanadium steel, the special treatment of the head prevents chipping and complies with **DIN 7255**. Resharpenable blade, painted oval handle.



Tech. Code	L mm	Cutting edge mm
F4446100	100	15
F4446150	150	18
F4446175	175	21
F4446200	200	24
F4446250	250	25
F4446300	300	26

ITEM: WX4910/H

Standard DIN 6453 - DIN 7255

Chisels complete with hand guard



Tech. Code	L mm	Cutting edge mm
F4447300	300	26

HOOK CHISELS FOR MECHANICS

ITEM: WX4925

Standard DIN 6451 - DIN 7255

Chisels **PREMIUM QUALITY** in self-hardening chrome-vanadium steel, the special treatment of the head prevents chipping and complies with DIN 7255. Resharpenable blade, octagonal painted handle.



Tech. Code	L mm	Cutting edge mm
F4465125	125	5

CHISELS FOR ELECTRICIANS

ITEM: WX4930

Self-tempering chisels for electricians in chrome-vanadium steel with thin 10 mm octagonal section shank.
Version with flat cutting edge.



Tech. Code	L mm	Cutting edge mm	⬣ mm
F4500200	200	14	10
F4500250	250	14	10
F4500300	300	14	10

ITEM: WX4931

Self-tempering chisels for electricians in chrome-vanadium steel with thin 10 mm octagonal section shank.
Pointed version



Tech. Code	L mm	⬣ mm
F4501200	200	10
F4501250	250	10
F4501300	300	10

CHISELS FOR BUILDERS

WODEX

ITEM: WX4932

Chisels for bricklayers in hardened steel with 16 mm octagonal section shank.
Version with flat cutting edge



Tech. Code	L mm	Cutting edge mm	⬣ mm
F4502300	300	22	16
F4502400	400	22	16

ITEM: WX4933

Chisels for bricklayers in hardened steel with 16 mm octagonal section shank.
Pointed version



Tech. Code	L mm	⬣ mm
F4503300	300	16
F4503400	400	16

ITEM: WX4934

Chisels for bricklayers in self-tempering chrome-vanadium steel with Ø 16 mm shank.
Version with flat cutting edge



Tech. Code	L mm	Cutting edge mm	Ø mm
F4504250	250	22	16
F4504300	300	22	16

ITEM: WX4934/P

Chisels for bricklayers in self-tempering chrome-vanadium steel with Ø 16 mm shank.
Version with flat cutting edge and hand guard safety grip



Tech. Code	L mm	Cutting edge mm	Ø mm
F4505250	250	22	16
F4505300	300	22	16

ITEM: WX4935

Chisels for bricklayers in self-tempering chrome-vanadium steel with Ø 16 mm shank.
Pointed version



Tech. Code	L mm	Ø mm
F4506250	250	16
F4506300	300	16

ITEM: WX4935/P

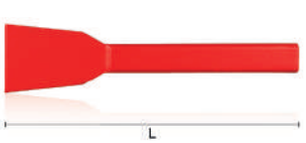
Chisels for bricklayers in self-tempering chrome-vanadium steel with Ø 16 mm shank.
Version with pointed cutting edge and hand guard safety grip



Tech. Code	L mm	Ø mm
F4507250	250	16
F4507300	300	16

ITEM: WX4937

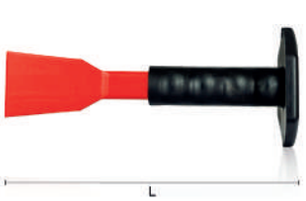
Steel chisels with extra wide hardened and resharpenable cutting edge.



Tech. Code	L mm	Cutting edge mm	Stem section mm
F450850	245	50	12 x 25
F450870	245	70	12 x 25

ITEM: WX4937/P

Steel chisels with extra wide hardened and resharpenable cutting edge, version with hand guard safety grip.



Tech. Code	L mm	Cutting edge mm	Stem section mm
F450950	245	50	12 x 25
F450970	245	70	12 x 25

PIN PUNCHES

WODEX

ITEM: WX4950



Standard DIN 6450 - DIN 7255
Pin punches **PREMIUM QUALITY** made of tool steel hardened to **≥ 58 HRC**. The specially treated head prevents chipping and complies with **DIN 7255**. The precise chrome plating ensures high protection against corrosion and the painted colour coding means that they can be selected quickly and easily.

Tech. Code	Ø mm	L mm	Useful length mm	⬣ mm
F451003	3	150	40	10
F451004	4	150	40	10
F451005	5	150	40	10
F451006	6	150	40	10
F451008	8	150	40	12
F451010	10	150	40	12

ITEM: WX4948



Standard DIN 6450 - DIN 7255
Pin punches **PREMIUM QUALITY** in hardened tool steel. The specially treated head prevents chipping and complies with **DIN 7255**. The precise chrome plating ensures high protection against corrosion. Octagonal painted handle.

Tech. Code	Ø mm	L mm	Useful length mm	⬣ mm
F452002	2	150	40	10
F452003	3	150	40	10
F452004	4	150	40	10
F452005	5	150	40	10
F452006	6	150	40	10
F452007	7	150	40	12
F452008	8	150	40	12
F452009	9	150	40	12
F452010	10	150	40	12
F452012	12	150	40	14

EXTRA LONG PIN PUNCHES

WODEX

ITEM: WX4948/L



Standard DIN 6450 - DIN 7255
Extra long Pin Punches **PREMIUM QUALITY** made of hardened tool steel. The special treatment of the head prevents chipping and complies with DIN 7255, the careful chrome plating guarantees high protection against corrosion, painted octagonal handle.

Tech. Code	Ø mm	L mm	Useful Length mm	⬣ mm
F452104	4	175	70	10
F452105	5	175	70	10
F452106	6	175	70	10
F452108	8	175	70	12
F452110	10	175	70	12

PIN PUNCHES IN SET

WODEX

ITEM: WX4948/S6-PS



Standard DIN 6450 - DIN 7255
Set of 6 pin punches with white plastic stand.

Composition:
2x150 - 3x150 - 4x150 - 5x150 - 6x150 - 8x150 mm

Tech. Code	Pieces
F452206	6

ITEM: WX4948/S6-MC



Standard DIN 6450 - DIN 7255
Set 6 of pin punches in a practical metal box.

Composition:
3x150 - 4x150 - 5x150 - 6x150 - 8x150 - 10x150 mm

Tech. Code	Pieces
F452406	6

PIN PUNCHES WITH HANDLE

ITEM: WX4948/H



Standard DIN 6450 - DIN 7255
Pin punches **PREMIUM QUALITY** made of hardened tool steel. The special treatment of the head prevents chipping and complies with **DIN 7255**, the careful chrome plating guarantees high protection against corrosion.Accident prevention handle in bi-component material for hand protection.

Tech. Code	Ø mm	L mm	Useful length mm	⬣ mm
F452602	2	150	40	10
F452603	3	150	40	10
F452604	4	150	40	10
F452605	5	150	40	10
F452606	6	150	40	10
F452608	8	150	40	12

ITEM: WX4948/H/S5-PS



Standard DIN 6450 - DIN 7255
Set of 5 chisels with handle in practical plastic box.

Composition: 2x150 - 3x150 - 4x150 - 5x150 - 6x150 mm

Tech. Code	Pieces	Price List Page
F452705	5	96

ITEM: WX4948/H/S6



Standard DIN 6450 - DIN 7255
Set of 6 chisels with handle

Composition: 2x150 - 3x150 - 4x150 - 5x150 - 6x150 - 8x150 mm

Tech. Code	Pieces
F452506	6

Boxed assortment

CONICAL PIN PUNCHES

ITEM: WX4970



Standard DIN 6458 - DIN 7255
Conical pin punches **PREMIUM QUALITY** in hardened tool steel. The specially treated head prevents chipping and complies with **DIN 7255**. Ground and polished tip, octagonal painted handle.

Tech. Code	Ø mm	L mm	⬣ mm
F452803	3	120	10
F452804	4	120	10

BURINS

ITEM: WX4960



Standard DIN 7250
Burins **PREMIUM QUALITY** in chrome-vanadium steel uniformly hardened over the entire length. The specially treated head prevents chipping and complies with **DIN 7255**. Ground and polished tip, octagonal painted handle.

Tech. Code	Ø mm	L mm	⬣ mm
F453003	3	100	8
F453004	4	120	10
F453005	5	150	12
F453006	6	150	14

BURINS WITH HANDLE

ITEM: WX4960/H



Standard DIN 7250
Burins **PREMIUM QUALITY** in chrome-vanadium steel uniformly hardened over the entire length. The special treatment ofhead prevents chipping and complies with **DIN 7255**. Ground and polished tip, accident-prevention handle in bi-component material to protect the hand.

Tech. Code	Ø mm	L mm	⬣ mm
F453205	5	150	12

AUTOMATIC PUNCHES

ITEM: WX4965

Automatic punches **PREMIUM QUALITY** with spring-loaded, pressure-activated striking mechanism. Adjustable percussion force via knurled ring, replaceable hardened steel tip and ergonomic bi-component plastic handle.



Tech. Code	Impact force N	Tip Ø mm	L mm
F4535050	20 - 50	3.5	95
F4535130	60 - 130	4	125
F4535250	180 - 250	6	130

ITEM: WX4965/SP

Spare tips for automatic punches WX4965



Tech. Code	Tip Ø mm	For burins Force N
F453635	3.5	20 - 50
F453640	4	60 - 130
F453660	6	180 - 250

AUTOMATIC CENTRE PUNCHES, MICRO SERIES

ITEM: F9315

Deep, fast stroke marking for characters, numbers, symbols and custom logo on metal, alloy, plastic and light cardboard materials. Automatic centre punches, Micro series stand as the smallest stroke marking system in the world, adjustable force up to 50 kg.
Spring system activated by hand pressure. Standard version supplied with tips for punch marking
Characters and numbers for MICRO serie centre punches. Font size 25/10



Tech. Code	Max. impact force N	Tip Ø mm	L mm
F9315140	500	6	140
F9315PS	Spare tip	6	58

SCRIBERS

ITEM: F4570

Nickel steel body with pocket clip, replaceable tungsten carbide tip



Tech. Code	L mm
F4570145	145
F4570145R	Spare part

ITEM: F4590

Zinc steel monoblock body, pocket clip, tungsten carbide tip.



Tech. Code	L mm
F4590145	145

ITEM: F4580

Special burnished hardened steel monoblock body, plastic handle.



Tech. Code	L mm
F4580200	220

ITEM: F4575

Top quality swiss made cardbrid scribers, steel body with pocket clip with changeable tips. Carbide tip diameter 1.5mm easily sharpened or replaced.



Tech. Code	L mm
F4575165	165
F4575165R	Spare part

GERMAN TYPE HAMMERS

ITEM: WX5110

Standard DIN 1041 - 1193 - 1195 - 5111

German type bench hammers with three component handle and safety collar in C45 steel, induction hardened, ground and stove enamelled, head with polished striking faces and chamfered edges. Additional nylon sleeve and permanent mechanical fastening with steel wedge and epoxy resin. The ergonomic and anti-slip handle is composed of an aluminium core covered in Nylon and an anti-vibration and anti-slip rubber grip.



Tech. Code	Weight g	Handle mm
F51000300	300	300
F51000500	500	320
F51001000	1000	360
F51001500	1500	360

ITEM: WX5100

Standard DIN 1041 - 1193 - 1195 - 5111

German type bench hammers with protective safety collar in C45 steel, induction hardened, ground and stove enamelled, head with polished striking faces and chamfered edges. Additional nylon handle protection sleeve and steel wedge fastening. Shaped HICKORY hardwood handles, flexible and resistant, lacquered.



Tech. Code	Weight g	Handle mm
F51100300	300	300
F51100400	400	310
F51100500	500	320
F51100600	600	330
F51100800	800	350
F51101000	1000	360

ITEM: WX5000

Standard DIN 1041 - 1193 - 1195 - 5111

German type bench hammers in induction hardened C45 steel, ground and stove enamelled, head with polished striking faces and chamfered edges. Nylon handle protection sleeve and steel wedge fastening. Shaped varnished ash wood handles.



Tech. Code	Weight g	Handle mm
F51150100	100	260
F51150200	200	280
F51150300	300	300
F51150400	400	310
F51150500	500	320
F51150600	600	330
F51150800	800	350
F51151000	1000	360
F51151500	1500	380
F51152000	2000	400

HAMMERS FOR CARPENTERS

ITEM: WX5200

Standard UNI 664.0

Hammers for carpenters in C45 steel with nail holder fitted with magnet, induction hardened and stove enamelled. Transparent varnished ash handle.



Tech. Code	Weight g	Handle mm
F5293400	400	450

STEEL MALLETS WITH NYLON HEAD 100 SH

ITEM: WX5350

Standard DIN 5136 - 1195 - 5111

Mallets with burnished 11SMnPb37 steel head, interchangeable nylon tips 100 Shore hardness and three-component handle.
The innovative mechanical double coupling fastening system of the striking tips ensures complete safety of the tool when in use. Additional nylon sleeve and permanent mechanical fastening with steel wedge and epoxy resin. The ergonomic and anti-slip handle is composed of an aluminium core covered in Nylon and an anti-vibration and anti-slip rubber grip.



Tech. Code	Ø head mm	Handle mm	Weight g
F529532	32	300	455
F529540	40	300	740
F529550	50	320	950

Replacement tips code WX5400/RN

ALUMINIUM MALLETS WITH NYLON HEADS 100 SH

ITEM: WX5400

Standard DIN 5136 - 1195 - 5111

Mallets with anodized 6026 aluminium alloy head and interchangeable striking tips in 100 nylon shore. The innovative mechanical double coupling fastening system of the striking tips ensures complete safety of the tool when in use. Additional nylon handle protection sleeve and steel wedge fastening. Shaped HICKORY hardwood handle, flexible and resistant, transparent varnished.



Tech. Code	Ø head mm	Handle mm	Weight g
F530032	32	300	230
F530040	40	320	375
F530050	50	320	490

ITEM: WX5400/RN

Nylon replacement tips 100 Shore, double coupling for Wodex mallets WX5350 and WX5400.



Tech. Code	Ø head mm	Hole Ø mm
F530132	32	7,7
F530140	40	10,8

Tech. Code	Ø head mm	Hole Ø mm
F530150	50	13

HAMMERS WITH NYLON HEADS

ITEM: WX5420

NEW

Standard UNI 7784

German model hammers with forged steel head and interchangeable nylon hammers, shaped beech wood handle with steel wedge.



Tech. Code	Ø head mm	Handle mm	Weight g
F531022	22	260	150
F531027	27	270	230
F531035	35	290	380
F531040	40	320	525
F531050	50	340	885

ITEM: WX5420/RN

Nylon hammers for Wodex WX5420 hammers

NEW



Tech. Code	Ø head mm	Hole Ø mm
F531122	22	7
F531127	27	9
F531135	35	12

Tech. Code	Ø head mm	Hole Ø mm
F531140	40	12
F531150	50	14,5

STEEL MALLETS WITH POLYURETHANE HEAD 95 SH

ITEM: WX5450

Standard UNI 7784

Mallets with painted steel head and interchangeable polyurethane striking tips hardness 95 Shore.
Shaped ash wood handle and steel wedge fastening.



Tech. Code	Ø head mm	Handle mm	Weight g
F533122	22	260	140
F533128	28	280	250
F533135	35	305	350
F533142	42	310	620
F533150	50	345	900
F533160	60	380	1300

ITEM: WX5450/RN

Polyurethane tips 95 Shore for mallets WODEX WX5450



Tech. Code	Ø head mm	Hole Ø mm
F533222	22	10,8
F533228	28	12,8
F533235	35	15,5

Tech. Code	Ø head mm	Hole Ø mm
F533242	42	21
F533250	50	22
F533260	60	24,5

MALLETS IN DRAWN COPPER 80 BRINELL

ITEM: WX5510

Standard DIN 5130 - 1195 - 5111
Mallets **PREMIUM QUALITY** with double hardened copper head obtained from drawn bar with 80/100 BRINELL hardness.

Three-component handle with protective nylon collar and permanent mechanical fastening with steel wedge and epoxy resin. The ergonomic handle is composed of an aluminium core covered in Nylon and an anti-vibration grip in non-slip rubber.



Tech. Code	Weight g	Handle mm
F53780500	500	300
F53780750	750	320
F53781000	1000	320

ITEM: WX5500

Standard DIN 5130 - 1195 - 5111
Shaped HICKORY hardwood handle, flexible and resistant, transparent varnished. Steel wedge fastening.



Tech. Code	Weight g	Handle mm
F53800500	500	300
F53800750	750	320
F53801000	1000	350

COPPER HAMMERS

ITEM: WX5495

Mallets with copper head and shaped ash wood handle. Handle with steel wedge fastening and locking pin.



Tech. Code	Weight g	Handle mm
F53910200	200	230
F53910300	300	255
F53910400	400	275
F53910500	500	275
F53910600	600	275
F53910800	800	280
F53911000	1000	280
F53911500	1500	295
F53912000	2000	295

NON-REBOUND POLYURETHANE MALLETS

ITEM: WX5600

Mallets with replaceable polyurethane heads, head partially filled with metal pellets to absorb rebound, painted steel body and handle, anti-slip rubber grip.



Tech. Code	Ø head mm	Weight g
F539335	35	740
F539340	40	875
F539350	50	1250
F539360	60	1710

ITEM: WX5600-RED



Tech. Code	Ø head mm	Weight g
F539735	35	740
F539740	40	875
F539750	50	1250
F539760	60	1710

ITEM: WX5610

Mallets with replaceable polyurethane heads, head partially filled with metal pellets to absorb rebound, painted steel body and ash wood handle.



Tech. Code	Ø head mm	Weight g
F539435	35	525
F539440	40	630
F539450	50	1020
F539460	60	1310

ITEM: WX5600/RN - WX5600/RN/N
Polyurethane faces for Wodex WX5600 and WX5610 mallets.



WX5600/RN Spare parts for hammers produced until the end of 2025
WX5600/RN/N Spare parts for hammers manufactured since 2026

Tech. Code	Ø head mm	Hole Ø mm
F539535	35	15,5
F539535N	35	15
F539540	40	17,5
F539540N	40	17

Tech. Code	Ø head mm	Hole Ø mm
F539550	50	21
F539550N	50	20
F539560	60	24
F539560N	60	22

SUPERCRAFT HAMMERS NO REBOUND

HALDER

ITEM: EH 3377 SUPERCRAFT

Hammers no rebound in steel with replaceable heads in high resistance white nylon.
Version with tubular steel handle and ergonmic rubber grip.



Tech. Code	Ø head mm	L	L2 mm	Weight g
F541125	25	270	110	385
F541130	30	295	110	585
F541135	35	300	110	690
F541140	40	305	115	805
F541145	45	310	120	935
F541150	50	315	120	1150
F541160	60	325	145	1750
F541170	70	335	150	2250

ITEM: EH 3366 SUPERCRAFT

No-rebound hammers in steel with replaceable heads in high resistance white nylon.
Version with handle in HICKORY, flexible and resistant hard wood.



Tech. Code	Ø head mm	L	L2 mm	Weight g
F541320	20	300	105	245
F541325	25	305	105	325
F541330	30	330	110	460
F541335	35	335	110	560
F541340	40	355	115	715
F541345	45	360	120	830
F541350	50	365	120	990
F541360	60	360	145	1705
F541370	70	370	150	2215
F541380	80	380	168	3210

NO-REBOUND HAMMERS SUPERCRAFT

HALDER

ITEM: EH 3366 SUPERCRAFT

No-rebound hammers in steel with replaceable heads in hight-resistant white nylon.
Version with handle in HICKORY, flexible and resistant hard wood.



Tech. Code	Ø head mm	Length mm	Width mm	Weight g
F5415080	80	880	200	4410
F541510007	100	1000	210	7050

NYLON REPLACEMENT TIPS SUPERCRAFT

HALDER

ITEM: 3508

Nylon replacement tips, high resistant for hammers and mallets Supercraft.



Tech. Code	Ø mm
F5420020	20
F5420025	25
F5420030	30
F5420035	35
F5420040	40
F5420045	45

Tech. Code	Ø mm
F5420050	50
F5420060	60
F5420070	70
F5420080	80
F5420100	100

ITEM: EH 3379 BLACKCRAFT

Blackcraft hammers no-rebound, made of steel with polyurethane coating and ergonomic non-slip handle, suitable for processing components with very delicate surfaces.



Tech. Code	Ø head mm	L mm	L2 mm	Weight g
F542940	40	300	110	640
F542950	50	310	115	900
F542960	60	315	120	1300

POLYURETHANE COATED HAMMERS NO REBOUND

ITEM: F5355

Hammers with internal metal soul with a cartridge containing micro steel constructed with polyurethane coating. Resistant to oil, acid and weak fluids. No visible metal
Coating hardness: 95 Shore
Resistant to heat: - 24°C + 90°C



Tech. Code	Ø External mm	Ø knocker mm	L mm	Weight g
F535542	42	32	280	500
F535552	52	40	310	800
F535560	60	48	350	1000
F535565	65	50	350	1500

RUBBER HAMMERS

ITEM: WX5690-B

Standard DIN 5128
Hammers **PREMIUM QUALITY** in non-deformable black rubber hardness 90 Shore, ash wood handle.



Tech. Code	Ø head mm	L mm	Width mm	Weight g
F543555	55	320	90	300
F543565	65	340	115	480

ITEM: WX5690-W

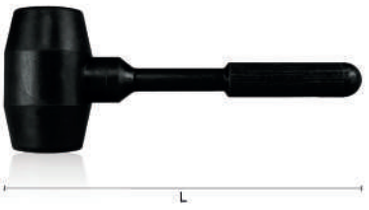
Standard DIN 5128
Hammers **PREMIUM QUALITY** in non-deformable white rubber hardness 70 Shore, ash wood handle.



Tech. Code	Ø head mm	L mm	Width mm	Weight g
F543655	55	320	90	300
F543665	65	340	115	480

ITEM: WX5691-B

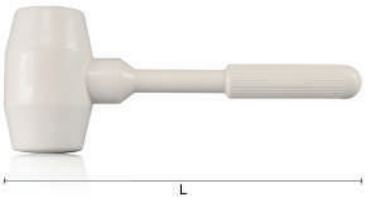
Monolithic mallets **PREMIUM QUALITY** with metal core covered in black SBR rubber, hardness 80 Shore. SBR rubber has good mechanical properties, a fair tensile strength value, good resistance to fatigue, tearing and permanent deformation.



Tech. Code	Max head Ø mm	L mm	Width mm	Weight g
F543760	60	285	100	660
F543775	75	300	120	1090

ITEM: WX5691-W

Monolithic mallets **PREMIUM QUALITY** with metal core covered in white SBR rubber, hardness 80 Shore. SBR rubber has good mechanical properties, a reasonable tensile strength value, good resistance to fatigue, tearing and permanent deformation



Tech. Code	Max head Ø mm	L mm	Length mm	Weight g
F543860	60	285	100	660
F543875	75	300	120	1090

HAMMERS WITH SAFETY GUARD COLLAR

ITEM: WX5695

Standard DIN 6475 - UNI 7777
Hammers with 2 flat heads and safety guard collar, induction hardened steel C45, ground and stove enamelled, head with polished striking faces and chamfered edges. Additional nylon handle protection sleeve and steel wedge fastening. Shaped HICKORY hardwood handles, flexible and resistant, lacquered.



Tech. Code	Weight g	Handle mm
F54610800	800	260
F54611000	1000	260
F54611250	1250	260
F54611500	1500	280
F54612000	2000	300

SLEDGE HAMMERS

ITEM: WX5700

Standard DIN 6475
Sledge hammers DIN standard, induction hardened and epoxy powder coated. Shaped ash wood handle and steel wedge fastening.



Tech. Code	Weight kg	Handle mm
F547303	3	900
F547305	5	900

DRAWN COPPER HAMMERS 80 BRINELL

ITEM: WX5710

Standard DIN 5130
Hammers **PREMIUM QUALITY** with double hardened copper head obtained from drawn bar, hardness 80/100 BRINELL, chamfered striking faces and DIN standard eye. Steel wedge handle fastening. Shaped transparent varnished ash wood handle.

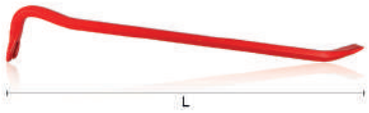


Tech. Code	Weight kg	Handle mm
F548003	3	900
F548005	5	900

CROWBARS FOR CARPENTERS

ITEM: WX4940

Crowbars for carpenters **PREMIUM QUALITY** in C40 steel with hexagonal section, moulded and hardened according to the highest quality standards. With one curved end with slotted claw and one slightly inclined with closed claw. Anti-corrosion painted finish.



German type

Tech. Code	L mm	⬢ mm
F56250500	500	18
F56250600	600	18
F56250700	700	18
F56250800	800	18
F56251000	1000	18

CROWBARS

ITEM: WX4942

Crowbars **PREMIUM QUALITY** in forged steel with closed angled claw for lifting very heavy parts.



Tech. Code	L mm	Weight kg
F56271000	1000	4
F56271200	1200	6
F56271500	1500	9

ITEM: WX4943

Crowbars **PREMIUM QUALITY** in forged steel with slotted angled claw for lifting very heavy parts.



Tech. Code	L mm	Weight kg
F56281000	1000	4
F56281200	1200	6
F56281500	1500	9

CROWBARS

ITEM: WX4944

Crowbars **PREMIUM QUALITY** in chrome-vanadium steel, hexagonal section with pointed and flat curved ends.
Chrome-satin finish.



Tech. Code	L mm
F5632400	400

ITEM: WX4945

Crowbars **PREMIUM QUALITY** in chrome-vanadium steel, round section with pointed ends and 90° bent nail.
Chrome-satin finish.



Tech. Code	L mm
F5634400	400

CROWBARS

ITEM: F5599

Vanadium chrome steel.



Tech. Code	L mm
F5599500	500

Related products

COWHIDE GRAIN LEATHER GLOVES

Tech. Code	Size	EU size
K210208	L	8
K210209	XL	9
K210210	XXL	10
K210211	XXXL	11



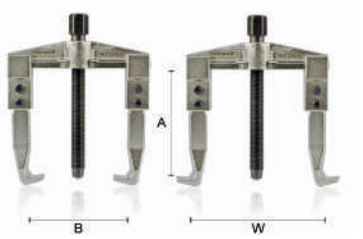
Products are available in the CAP. K

MECHANICAL PULLERS WITH 2 JAWS

WODEX

ITEM: WX5900

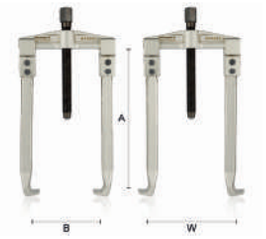
Mechanical pullers **PREMIUM QUALITY** with a wide range of uses, both internal and external, sliding jaws on ground guides, the quality of the jaws guarantees parallel traction force. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	W mm	Force max kN	Weight kg	Replacement arm F6400	Replacement screw F6497
F6400095	1	90	100	92-130	30	1.1	..B100	..040
F6400135	2	135	100	100-175	30	1.3	..B100	..040
F6400165	3	165	150	130-225	70	3.5	..B150	..080
F6400190	4	190	150	135-250	120	3.6	..B150	..080
F6400240	5	240	200	175-325	120	7.5	..B200	..120
F6400350	6	350	200	175-425	120	8.5	..B200	..120
F6400510	7	510	200	220-580	120	14	..B200	..160
F6400640	8	640	225	310-740	150	24	..B225	..160

ITEM: WX5902

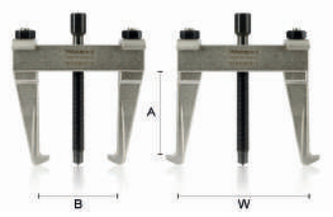
Long series.



Tech. Code	N.	B mm	A mm	W mm	Force max kN	Weight kg	Spare arm F6402	Replacement screw F6497
F6402095	1	95	200	92 - 130	30	1.3	..B200	..040
F6402135	2	135	200	95 - 175	30	1.4	..B200	..040
F6402165	3	165	305	130 - 225	70	3.9	..B305	..080
F6402190	4	190	305	130 - 270	120	4.1	..B305	..080
F6402250	5	250	380	175 - 340	120	8.5	..B380	..120
F6402350	6	350	380	180 - 425	120	10	..B380	..120
F6402510	7	510	380	220 - 580	120	16	..B380	..160
F6402640	8	640	350	310 - 740	150	26	..B350	..160

ITEM: WX5905

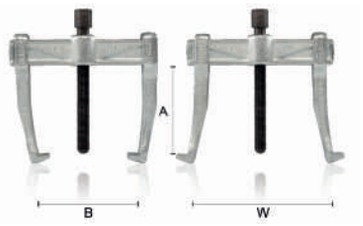
Mechanical pullers **PREMIUM QUALITY** with a vast range of uses, internal and external, sliding jaws with fast clamping via the upper nut. The quality of the jaws guarantees parallel traction force. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	W mm	Force max kN	Weight kg	Replacement arm F6404	Replacement screw F6497
F6404060	1	60	50	55 - 80	10	0.3	..B050	..010
F6404080	2	80	80	105 - 130	20	1	..B080	..030
F6404115	3	115	80	105 - 160	20	1.1	..B080	..030
F6404155	4	155	160	160 - 220	100	2.4	..B160	..090
F6404195	5	195	220	175 - 270	100	4.4	..B220	..090
F6404250	6	250	260	225 - 335	200	10.5	..B260	..110
F6404390	7	390	260	280 - 465	200	13	..B260	..110
F6404600	8	600	260	295 - 675	200	20	..B260	..110

ITEM: WX5907

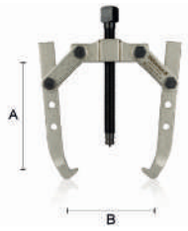
Mechanical extractors with wide range of uses, for both indoor and outdoor use, zinc-chrome finish.
The excellent price-performance ratio also allows these tools to be used for kit compositions



Tech. Code	N.	B mm	A mm	W mm	Max force kN	Weight kg	Replacement arm F6406	Replacement screw F6497
F6406060	0	60	70	90	10	0,3	..B070	..025
F6406080	1	80	95	130	20	0,8	..B095	..038
F6406120	2	120	95	170	25	0,9	..B095	..038
F6406160	3	160	150	210	70	2,5	..B150	..105
F6406200	4	200	150	250	120	2,7	..B150	..105
F6406250	5	250	200	320	120	7	..B200	..107

ITEM: WX5910

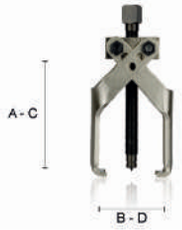
Mechanical pullers **PREMIUM QUALITY** with 2 height adjustable jaws. In traction it engages automatically with the parts to be extracted. Jaws with extension holes and grooved ends for possible attachment to a screw. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Replacement arm F6410	Replacement screw F6497
F6410110	1	110	105	10	0.4	..B105	..020
F6410175	2	175	185	40	1.3	..B185	..050

ITEM: WX5920

Mechanical extractors with 2 arms, light scissor model. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	C mm	D mm	Weight kg	Replacement screw F6497
F6420055	1	55	90	90	95	0.3	..020
F6420070	2	70	125	120	125	0.8	..050
F6420080	3	80	125	160	125	1	..055

MECHANICAL PULLERS WITH 2 JAWS

ITEM: WX5930

Mechanical extractors **PREMIUM QUALITY** with a wide range of uses, both internal and external, ideal for the separation of matched bearings. Chrome-satin finish.

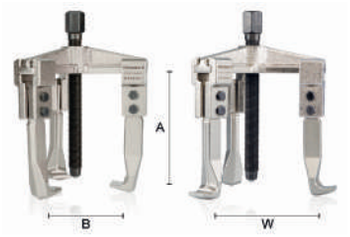


Tech. Code	N.	B mm	A mm	Weight kg	Replacement arm F6425	Replacement screw F6497
F6425095	1	95	175	2.4	..B175	..070

MECHANICAL PULLERS WITH 3 JAWS

ITEM: WX5950

Mechanical pullers **PREMIUM QUALITY** with a vast range of uses, both internal and external, sliding jaws on ground guides. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	W mm	Force max kN	Weight kg	Replacement arm F6400	Replacement screw F6497
F6450095	1	95	100	100 - 125	30	1.3	..B100	..040
F6450135	2	135	100	110 - 170	30	1.7	..B100	..040
F6450165	3	165	150	140 - 220	70	4.7	..B150	..080

ITEM: WX5960

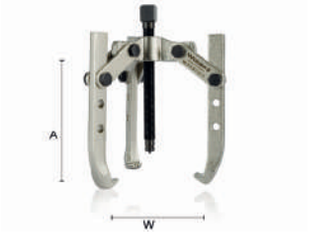
Mechanical pullers **PREMIUM QUALITY** with 3 self-centring jaws, external model with forged jaws and extension holes. Fitted with simultaneous jaw closing device. This series of extractors is designed to be used even with only 2 jaws (apart from sizes N.5 and N.6).



Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Replacement arm F6460	Replacement screw F6497
F6460110	1	110	105	10	1.0	..B105	..020
F6460175	2	175	185	40	2.5	..B185	..050
F6460240	3	240	225	70	6.5	..B225	..060
F6460350	4	350	410	100	14.5	..B410	..100
F6460480	5	480	500	170	31.5	..B500	..110
F6460680	6	680	600	300	55.5	..B600	..150

ITEM: WX5970

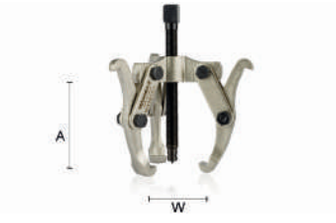
Mechanical extractors **PREMIUM QUALITY** . In traction it engages automatically with the parts to be extracted. Jaws with extension holes. Grooved ends for possible attachment to a screw. This series of extractors is designed to be used even with only 2 jaws. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Replacement arm F6410	Replacement screw F6497
F6470110	1	110	105	10	0.7	..B105	..020
F6470175	2	175	185	40	1.9	..B185	..050
F6470240	3	240	225	70	3.5	..B225	..060
F6470290	4	290	225	70	3.9	..B225	..060

ITEM: WX5973

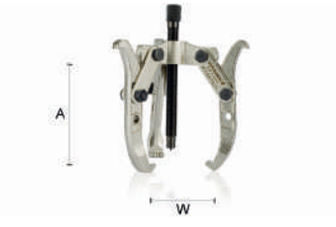
Mechanical pullers **PREMIUM QUALITY** reversible for internal or external use, in traction it automatically engages with the parts to be extracted. Grooved ends for possible attachment to a screw. This series of extractors is designed to be used even with only 2 jaws. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Replacement arm F6473	Replacement screw F6497
F6473080	1	80	65	10	0.6	..B065	..020
F6473150	2	150	85	40	1.5	..B085	..050

ITEM: WX5975

Mechanical extractors **PREMIUM QUALITY** reversible for indoors and outdoors, in traction it is automatically fixed to the parts to be extracted. Grooved ends for possible attachment to a screw. This series of extractors is designed to be used even with only 2 jaws. Chrome-satin finish.



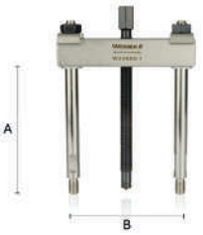
Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Spare arm F6475	Replacement screw F6497
F6475130	1	130	85	10	0.6	..B085	..020
F6475185	2	185	135	40	1.2	..B135	..050
F6475240	3	240	180	70	3.8	..B180	..060
F6475285	4	285	180	80	4.1	..B180	..060

EXTRACTOR-SEPARATORS FOR BEARINGS

WODEX

ITEM: WX5985

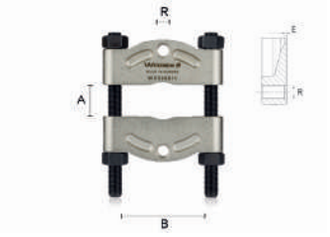
Extractor-separators for bearings with 2 threaded arms, to be used with separators WX5986 of the same size for removing bearings, bushings and toothed wheels positioned at the stop.



Tech. Code	N.	B mm	A mm	Force max kN	F Inc.	Weight kg	Replacement arm F6498	Replacement screw F6497
F6498110	1	47 - 110	115	20	3/8"	1	..8B115	..035
F6498140	2	47 - 140	115	20	3/8"	1.1	..B115	..035
F6498165	3	62 - 195	175	100	5/8"	3	..B175	..090

ITEM: WX5986

Separators to be used with the threaded arm extractors WX5985 of the same size for the extraction of bearings, bushings and toothed wheels positioned at the stop.



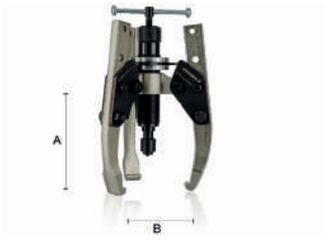
Tech. Code	N.	A mm	B mm	R mm	E mm	Weight kg	Replacement screw F6499
F6499060	1	4 - 60	60	3/8"	1	0.7	..V130
F6499081	2	6 - 80	80	3/8"	2.5	1.3	..V157
F6499110	3	10 - 110	110	5/8"	2.5	2.7	..V210

HYDRAULIC EXTRACTORS

WODEX

ITEM: WX5965

Hydraulic extractors **PREMIUM QUALITY** with 3 self-centring jaws, external model with forged jaws and extension holes. Fitted with simultaneous jaw closing device. This series of extractors is designed to be used even with only 2 jaws.
Hydraulic extractors allow high thrust forces with minimal operator effort.



Features:
F646528008 - WX5965/1-80 Activation of hydraulic pressure by crank
F646528012 - WX5965/1-120 Activation of hydraulic pressure by means of a 17 mm wrench

Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Replacement arm F6465	Repl. hydraulic device F6465
F646528008	1-80 Kn	280	270	80	7.5	..B270	..HS080
F646528012	1-120 kN	280	270	120	7.5	..B270	..HS120

SCREW CLAMPS

WODEX

ITEM: WX5800

NEW

Screw clamps made of galvanised steel, torque up to 5,000 N. Swivelling pressure plate made of pressed steel.



Tech. Code	Opening mm	Depths mm	Rod section mm	Weight kg
F66020160	160	80	15,5 x 7,5	0,60
F66020200	200	120	25 x 12	1,75
F66020300	300	120	25 x 12	2,00
F66020400	400	120	25 x 12	2,15
F66020500	500	120	25 x 12	2,40
F66020600	600	120	25 x 12	2,60
F66020800	800	120	25 x 12	2,95

ITEM: WX5810

Screw clamps made of galvanized steel, clamping force up to 11,000 N with a clamping torque of 40 Nm. Pressure plate with adjustable insert in hardened steel.



Tech. Code	Opening mm	Depth mm	Rod section mm	Weight kg
F66050300	300	140	30 x 15	2,65
F66050400	400	140	30 x 15	3,15
F66050500	500	140	30 x 15	3,46
F66050600	600	140	30 x 15	3,77
F66050800	800	140	30 x 15	4,35

SCREW CLAMPS

WRK

ITEM: F6611

High quality galvanized steel, burnished screw with tommy bar and tilting pressure plate.



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F6611160	160	80	16 x 7.5	0.5
F6611250	250	120	25 x 12	1.2
F6611300	300	120	25 x 12	1.5
F6611400	400	120	25 x 12	1.9
F6611600	600	120	25 x 12	2.3

While stocks last

SCREW CLAMPS

ITEM: GZ-K

Screw clamps made of high-quality galvanized steel, clamping force up to 6,000 N. The optimized profile shape guarantees greater clamping force, greater stability and safety. Replaceable pressure plate.



Tech. Code	Opening mm	Depth mm	Rod section mm	Weight kg
F66130200	200	100	22 x 8,5	0,93
F66130250	250	120	24,5 x 9,5	1,31
F66130300	300	140	28 x 11	1,89
F66130400	400	120	28 x 11	2,00
F66130500	500	120	28 x 11	2,20
F66130600	600	120	28 x 11	2,42
F66130800	800	120	28 x 11	2,76
F66131000	1000	120	28 x 11	3,18

ITEM: SGM

High quality galvanized steel, clamping force up to 12,000 N at a tightening torque of 40 Nm, long service life due to the tilting pressure plate with hardened steel insert. Pressure plate with swivelling insert made of sintered steel.



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F66170250	250	140	34 x 13	2.5
F66170300	300	140	34 x 13	3.0
F66170400	400	140	34 x 13	3.1
F66170500	500	140	34 x 13	3.4
F66170600	600	140	34 x 13	3.8
F66170800	800	140	34 x 13	4.4
F66171000	1000	140	34 x 13	4.9
F66171250	1250	140	34 x 13	5.8
F66171500	1500	140	34 x 13	6.6

ITEM: STBM

High performance screw clamps for heavy metal fabrication. High quality galvanized steel, clamping force up to 22,000 N at a tightening torque of 70 Nm, long service life due to the tilting pressure plate with hardened steel insert.
Screw with 19 mm hexagonal nut.



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F66190300	300	175	40 x 20	5.6
F66190400	400	175	40 x 20	6.1
F66190500	500	175	40 x 20	6.6
F66190600	600	175	40 x 20	7.2
F66190800	800	175	40 x 20	8.3
F66191000	1000	175	40 x 20	9.3
F66191250	1250	175	40 x 20	10.7
F66191500	1500	175	40 x 20	12.2

ITEM: SGTM

High quality galvanized steel, clamping force up to 8,500 N at a tightening torque of 40 Nm, long service life due to the tilting pressure plate with hardened steel insert.
Throat depth up to 200 mm



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F6621300	300	200	30 x 15	3.4
F6621600	600	200	30 x 15	4.3

LEVER CLAMPS

ITEM: WX5820

NEW

Clamps made of forged steel with quick-action lever locking mechanism, movable pressure plate and fine-adjustment ratchet.



Tech. Code	Opening mm	Depths mm	Rod section mm	Weight kg
F66230250	250	120	22 x 10,5	2,4
F66230300	300	140	25 x 12	2,5
F66230400	400	120	25 x 12	2,8
F66230500	500	120	25 x 12	3,0
F66230600	600	120	25 x 12	3,2

SCREW CLAMPS

ITEM: CLASSIX GSH

Screw lever clamps in galvanized steel, clamping force up to 7,500 N. Release lever with anti-skid mechanism.



Tech. Code	Opening mm	Depth mm	Rod section mm	Weight kg
F66250160	160	80	16 x 7,5	0,64
F66250200	200	100	19,5 x 9,5	1,11
F66250250	250	120	22 x 10,5	1,44
F66250300	300	140	25 x 12	2,27
F66250400	400	120	25 x 12	2,41
F66250500	500	120	25 x 12	2,61
F66250600	600	120	25 x 12	2,84

LEVER CLAMPS

ITEM: GH

Lever clamps made of high-quality galvanized steel, Clamping force up to 8,500 N. The optimized profile shape ensures greater clamping force, greater stability and safety. Release lever with anti-slip mechanism.

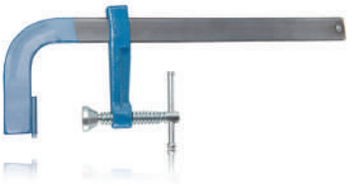


Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F6600120	120	60	15 x 6	0.49
F6600160	160	80	17.5 x 6.8	0.64
F6600200	200	100	22 x 8.5	1.11
F6600250	250	120	24.5 x 9.5	1.44
F6600300	300	140	28 x 11	2.22
F6600400	400	120	28 x 11	2.41
F6600500	500	120	28 x 11	2.61
F6600600	600	120	28 x 11	2.78
F6600800	800	120	28 x 11	3.14
F66001000	1000	120	28 x 11	3.59

SCREW CLAMPS ROLLED STEEL

ITEM: F6633

Rolled steel body, forged steel movable jaw, screw with tommy bar and swivel pressure plate.



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F6633200	200	80	25 x 6	0.8
F6633250	250	80	25 x 6	0.9
F6633300	300	90	30 x 6	1.2
F6633400	400	100	30 x 6	1.7
F6633500	500	100	35 x 7	1.9
F6633600	600	100	35 x 7	2.1
F6633800	800	100	35 x 7	2.5
F66331000	1000	110	40 x 7	3.5

SCREW CLAMPS

ITEM: WX5840

NEW

Forged and painted steel body, screw with sliding manoeuvring sleeve and tilting tip.



Tech. Code	Max. opening mm	Depths mm	Weight g
F6640075	75	56	800
F6640100	100	71	950
F6640150	150	93	1100

STEEL SCREW CLAMPS

ITEM: F6645

Forged and painted steel body, galvanised screw with sliding manoeuvring sleeve and tilting tip.



Tech. Code	Max. opening mm	Depth mm
F664550	50	28
F664575	75	38
F6645100	100	45

LEVER CLAMPS

ITEM: EZS

The extremely sophisticated technology makes it possible to clamp and spread workpieces up to a 2,000 N clamping force with just one hand, the upper section can be quickly converted from clamping to spreading. Ergonomic two-component handle.



Tech. Code	Opening mm	Spacing mm	Depth mm	Rod diameter mm	Weight kg
F6650150	150	170 - 360	170 - 360	19 x 6	0,7
F6650300	300	170 - 510	170 - 510	19 x 6	0.8
F6650450	450	170 - 660	170 - 660	19 x 6	0.9
F6650600	600	170 - 810	170 - 810	19 x 6	1.0
F6650900	900	170 - 1110	170 - 1110	19 x 6	1.2

TRANSPORT SUCTION CUPS

ITEM: WX8800

Suction cups for lifting and transporting sheets with smooth glass, plastic and metal surfaces.

Version with a rubber suction pad and clamping device via the handle.

Tech. Code	Suction cup Ø mm	Max. capacity Kg
F669100	118	50



ITEM: WX8802

Version with double rubber suction cups and lever clamps.

Tech. Code	Suction cups Ø mm	Max. capacity Kg
F669300	118	110



ITEM: WX8804

Version with a rubber suction cup, pump clamping device, vacuum control pressure gauge and release button.
The vacuum is achieved by operating the hand pump and can be monitored via the control pressure gauge.

Tech. Code	Suction cup Ø mm	Max. capacity Kg
F669600	200	110

Supplied in practical carrying case



TOOL BOXES

ITEM: WX9000/1S

Tool boxes in epoxy powder coated sheet steel, folding tubular handle, designed to be locked with a padlock.

One compartment version

Tech. Code	Dimensions mm	Weight kg
F7001S	450 x 210 x 100	1.5



ITEM: WX9000/3S

3 compartment version

Tech. Code	Dimensions mm	Weight kg
F7002S	450 x 210 x 150	3



ITEM: WX9000/5S - WX9000/5L

5 compartment version

Tech. Code	Dimensions mm	Weight kg
F7003S	450 x 210 x 200	4.5
F7003L	550 x 210 x 200	5.8



SMALL PARTS CASES

WODEX

ITEM: WX9010/1S

Small parts cases in epoxy coated sheet steel with practical carrying handle, lid with internal sponge to prevent small parts from falling out of the special containers, double lever closure and additional central spring closure against accidental opening. The cases are fitted with removable plastic containers for the optimal division of the contents.



Tech. Code	Dimensions mm	Containers 50x50 mm pcs	Containers 50x100 mm pcs	Containers 100x100 mm pcs	Containers 100x150 mm pcs	Weight kg
F70221S	320 x 220 x 70	16	4	-	-	1.5

ITEM: WX9010/1M



Tech. Code	Dimensions mm	Containers 50x50 mm pcs	Containers 50x100 mm pcs	Containers 100x100 mm pcs	Containers 100x150 mm pcs	Weight kg
F70231M	370x270x70	5	7	4	-	2.4

ITEM: WX9010/1B



Tech. Code	Dimensions mm	Containers 50x50 mm pcs	Containers 50x100 mm pcs	Containers 100x100 mm pcs	Containers 100x150 mm pcs	Weight kg
F70241B	420x320x70	12	6	3	2	3

WHEELED SERVICE TOOL CASES

WODEX

ITEM: WX9200

PREMIUM QUALITY injection-moulded polypropylene tool trolley cases, reinforced with an aluminium profile for greater impact resistance. Extremely lightweight compact cases suitable for professionals needing to transport hand tools, power tools or electronic instruments. Load capacity 20 kg (approximate capacity with weight evenly distributed inside).
Features:
- 2 locks with key
- lid support arm
- telescopic handle
- 2 wheels with ball bearings
- storage bottom with adjustable dividers
- ergonomic rubber-coated handle
- document compartment
- 2 panels with elastic tool holders
- 2 small parts boxes



Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F705000	460	380	200	100	100	3

WHEELED SERVICE TOOL CASES TSA APPROVED

WODEX

TSA PDF

ITEM: WX9250

PREMIUM QUALITY tool trolley cases made of impact-resistant, high-density polyethylene with outer shells made using the rotomoulding process. The double-walled shells guarantee maximum resistance to impacts, extreme temperatures and chemicals. Containers suitable for professionals who need to transport hand tools, power tools or electronic instruments. **TSA-approved locks** allow the luggage to be inspected by authorised airport personnel. Load capacity 35 kg (approximate capacity with weight evenly distributed inside).
Features:
- 2 TSA-approved locks
- 2 lid support arms
- Telescopic handle
- 2 ball-bearing wheels
- Storage bottom with adjustable dividers
- Rubber-coated ergonomic handle
- Document pocket
- 2 panels with elastic tool holders
- 2 small parts boxes



Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F710000	555	440	250	90	160	7.5

WHEELED SERVICE TOOL CASES - 62 TOOLS

ITEM: WX9210/TS62

Wheeled service tool cases **PREMIUM QUALITY** in injection-moulded polypropylene, reinforced with an aluminium profile for greater impact resistance. Extremely light compact cases suitable for technicians that need to transport hand tools, power tools or electronic instruments.
Features:
- 2 locks with keys
- lid support stay
- telescopic handle
- 2 wheels with ball bearings
- bottom compartment with adjustable dividers
- rubber coated ergonomic handle
- document compartment
- 2 panels with elastic tool holders
- 2 drawers for small parts

WHEELED SERVICE TOOL CASE containing a set of 62 tools for maintenance work.





Composition:

WX9200	Wheeled service tool case
WX4070	Stubby screwdrivers for Phillips screws PH1 - PH2
WX4020	Stubby screwdrivers for slotted screws 5.5x1.0 - 6.5x1.2 mm
WX3050	Universal combination pliers 160 mm
WX5100	Hammer 400g with wooden handle
WX4000	Screwdrivers for slotted screws 2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4050	Screwdrivers for Philips screws PH1x80 - PH2x100 - PH3x150 mm
WX3290	Adjustable pliers 250 mm
WX3600	Diagonal cutting nippers 125 mm
WX4650	Cutter with snap-off blades 9 mm
WX3350	Self-locking pliers, adjustable up to 240 mm
WX4770	Electrician's scissors 155 mm
WX4190	Voltage tester 105-250 Volt 3-70 mm
WX2580/S9	Hex key set, long, 9-piece
WX4590/31	Insert bit set 1/4"

Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F705262	460	380	200	100	100	3

WHEELED SERVICE TOOL CASES TSA - 51 TOOLS

TSA

ITEM: WX9260/TS51

WHEELED SERVICE TOOL CASES TSA containing a set of 51 tools for maintenance work.





Composition:

WX9250	Wheeled service tool case TSA
WX1060	Combination wrenches 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 22 mm
WX4190	Voltage tester VDE 3.0x70 mm
WX4050	Screwdrivers for Philips screws PH0x60 - PH1x80 - PH2x100 mm
WX4000	Screwdrivers for slotted screws 2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4770	Electricians scissors 155 mm
WX4680	Cutter with snap-off blades 18 mm
WX4622	Stubby screwdriver in set of 7 bits
WX3300	Adjustable pliers for pipes 250 mm
WX5100	Hammer 300 g with wooden handle
WX5400	Mallet with nylon head Ø 32 mm
WX2602/S9	Set of 9 long hex keys
WX3050	Universal combination pliers 160 mm
WX3600	Diagonal cutting nippers 125 mm
WX3350	Self-locking adjustable pliers 240 mm

Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F710251	555	440	250	90	160	12.4

WHEELED SERVICE TOOL CASES TSA APPROVED

WODEX

TSA PDF

ITEM: WX9300

PREMIUM QUALITY tool trolley cases in high thickness polyethylene. Large capacity cases suitable for professionals who need to transport hand tools, power tools or electronic instruments. **TSA-approved** locks allow the luggage to be inspected by authorised airport personnel. Load capacity 40 kg (approximate capacity with weight evenly distributed inside).
Features:
- Aluminium profile
- 2 lid support arms
- 2 TSA approved locks
- 2 ball-bearing wheels
- Telescopic handle
- Upper ergonomic handle
- Side ergonomic handle
- Document pocket
- 2 panels with elastic tool holders
- 3 small parts drawers



Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F715500	511	446	363	149	214	8.5

WHEELED SERVICE TOOL CASES TSA APPROVED WITH KIT FOR MECHANICS - 51 TOOLS

WODEX

TSA

ITEM: WX9310/TS51

SERVICE TOOL TROLLEY TSA APPROVED Containing a set of 51 tools for general mechanics.

Composition:

WX9300	Wheeled service tool case TSA
WX1060	Combination wrenches (2 per size) 7 - 8 - 10 - 13 - 17 - 19 mm
WX1060	Combination wrenches 9 - 11 - 12 - 14 - 15 mm
WX2600/S9	Set of 9 long hex keys
WX3050	Universal combination pliers 180 mm
WX3200	Half round nose pliers 200 mm
WX3300	Adjustable pliers for pipes 250 mm
WX3600	Diagonal cutting nippers 125 mm
WX4770	Electricians scissors 155 mm
WX6610	LED PEN-LIGHT torch 150 lm
WX6110	Pocket tape measure Profi-Line 5 m
WX4650	Cutter with snap-off blades 9 mm
WX4190	Voltage tester VDE 3.0x70 mm
WX4000	Screwdrivers for slotted screws 3x75 - 4x100 - 5.5x100 - 6.5x125 8x175 mm
WX4050	Screwdrivers for Philips screws PH0x60 - PH1x80 - PH2x100 - PH3x150 mm
WX4622	Stubby screwdriver in set of 7 bits





Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F715751	511	446	363	149	214	12.5

WHEELED SERVICE TOOL CASES TSA WITH SET FOR ELECTRICIANS - 45 TOOLS

WODEX

TSA

ITEM: WX9320/TS45

WHEELED SERVICE TOOL CASE TSA FOR ELECTRICIANS Containing a set of 45 tools for electricians.

Composition:

WX9300	Wheeled service tool case TSA
WX1060	Combination wrenches (2 per size) 7 - 8 - 10 - 13 - 17 - 19 mm
WX1060	Combination wrenches 9 - 11 - 12 - 14 - 15 mm
WX2602/S9	Set of 9 coloured hex keys
WX3060	Universal pliers VDE 180 mm
WX3210	Bent nose pliers 1/2t VDE 200 mm
WX3430	Stripping pliers VDE 160 mm
WX3610	Diagonal cutting nippers VDE 125 mm
WX4770	Electricians scissors 155 mm
WX6600	LED torch 150 lm
WX6110	Pocket tape measure Profi-Line 5 m
WX4650	Cutter with snap-off blades 9 mm
WX4190	Voltage tester VDE 3.0x70 mm
WX4030	VDE slotted screwdrivers 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
WX4080	VDE screwdrivers for Philips screws PH0x60 - PH1x80 - PH2x100 mm
WX4130	VDE Screwdrivers for Pozidriv screws PZ0x60 - PZ1x80 - PZ2x100 mm





Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F715945	511	446	363	149	214	12.5

WHEELED SERVICE TOOL CASES

ITEM: 4932464244

PACKOUT™ Trolley Starter Set 3 pieces is a PACKOUT™ modular storage system, built with a resistant polymer that increases impact resistance on construction sites. Load capacity up to 113 kg, extendable handle, large 9" wheels, IP65 rain and dust protection system, metal reinforced corners and closure, internal compartments for storing objects. Prepared for the Bluetooth® tracking system ONE-KEY™ TICK™.

Compositon:

1 PACKOUT™ Trolley
1 PACKOUT™ Toolbox 2
1 PACKOUT™ Toolbox 3



Tech. Code	Dimension mm	Load capacity kg
F71831	561 x 472 x 650	113

WORKTOPS FOR TOOL TROLLEYS

ITEM: 4932472128

PACKOUT™ Worktops is part of the PACKOUT™ modular storage system, constructed from marine grade plywood offering a smooth surface for light assembly work, writing or working on a laptop.



Tech. Code	Dimension mm	Load capacity kg
F718401	607 x 389 x 53	22

WHEELED SERVICE TOOL CASES

ITEM: 4932464078

Packout trolley is part of the PACKOUT modular storage system. Constructed with resistant polymer that increases the impact resistance on the construction site. Capacity up to 113 kg. Extensible handle. 9 " wheels, rain protection system, IP65 debris, reinforced metal corners and clasp, internal compartments for storing objects, Ready for the Bluetooth® ONE-KEY™ TICK™ tracking system.



Tech. Code	Dimension mm	Load capacity kg
F71851	561 x 472 x 650	113

TOOL BOXES

ITEM: 4932464079

Tool boxes Packout is part of the PACKOUT™ modular storage system. Constructed with resistant polymer that increases the impact resistance on the construction site. Rain protection system, IP65 debris. Reinforced metal corners and closure. Internal compartments for storing objects. Predisposition for the Bluetooth® ONE-KEY™ TICK™ tracking system.



Tech. Code	Dimension mm	Load capacity kg
F71861	560 x 410 x 290	45

ITEM: 4932464080



Tech. Code	Dimension mm	Load capacity kg
F71871	560 x 410 x 170	34

SMALL PARTS TOOLBOX

ITEM: 4932464082

PACKOUT™ organizer is part of the PACKOUT™ modular storage system. Constructed with a resistant polymer that increases the impact resistance on the construction site. Rain protection system, IP65 debris. The interior has 10 removable compartments. The compartments are sealed so that the contents do not disperse during transport.



Tech. Code	Dimension mm	Removable compartments
F71881	560 x 380 x 120	10

SMALL PARTS TOOLBOX

ITEM: 4932464083

Tech. Code	Dimension mm	Removable compartments
F71891	250 x 380 x 120	5



TOOL HOLDER BAGS

ITEM: 4932464084

PACKOUT™ compact tool bags is part of the PACKOUT™ modular storage system. Constructed with heavy duty 1680 ballistic nylon. Shock-resistant molded base. Reinforcement shell in metal. Comfortable and durable carrying handle.

Tech. Code	Dimension mm	Pocket tool holder
F71901	250 x 280 x 320	28



TOOLBOX WHEELED

ITEM: 4932478161

PACKOUT™ 2-wheeled tool box is part of the PACKOUT™ modular storage system, built with a durable polymer that increases impact resistance on the construction site. Load capacity up to 113 kg, 230 mm industrial wheels for easy sliding on uneven terrain, extendable handle and reinforced metal closure.

Tech. Code	Dimension mm	Capacity Kg
F719501	965 x 609 x 401	113



BASIC TOOL BOXES

ITEM: EKO 19

Polypropylene, removable internal tray for small objects, on-top organizer, retractable handle. Colours available: Black and Red

Tech. Code	Dimension mm	Weight kg
F7292480	480 x 255 x 230h	1,509



ITEM: CLUB CLASSIC 1210V

Polypropylene, internal removable tray for small objects, retractable handle, colour black and yellow.

Tech. Code	Dimension mm	Weight kg
F7300289	289 x 190 x 185h	0.681



TOOL BOXES

Terry

ITEM: CLUB CLASSIC 1622

Polypropylene, internal removable tray for small objects, retractable handle, colour black and yellow.

Tech. Code	Dimension mm	Weight kg
F7310395	395 x 255 x 237h	1,427



ITEM: CLUB CLASSIC 2033 V

Polypropylene, internal removable tray for small objects, retractable handle, colour black and yellow.

Tech. Code	Dimension mm	Weight kg
F7320505	505 x 255 x 270h	2,056



TOOL POUCHES

WORK by GT Line

ITEM: TOP BUMBAG R

Top Bumbag R is the ideal tool pouch for professionals who work on the move and need speed, organisation and lightness. Worn comfortably around the waist thanks to the adjustable belt. The padded inner area with dedicated tool pockets protects the contents from impacts and provides immediate access to the main tools. It is the perfect complement to a professional tool bag, tool backpack, or tool case, offering practical and immediate support during technical interventions.

Tech. Code	Dimension mm	Weight kg
F723000	320 x 140 x 180	0,6

Supplied without tools, demonstration only, image of possible preparation.



TOOL BAG

WORK by GT Line

ITEM: TOP 04 R

TOP 04 R is a compact and durable tool bag designed for maximum comfort and efficiency for those working in the range. Equipped with sturdy padded pockets to protect tools and an adjustable ergonomic shoulder strap, it is the ideal choice for electricians, installers, maintenance workers and technicians who require an easy-to-carry professional tool bag. The reinforced shockproof bottom ensures robustness and durability, making it perfect as a work tool bag.

Supplied without tools, image of possible set-up for demonstration purposes only.

Tech. Code	Dimension mm	Weight kg
F723200	410 x 230 x 300	1,3



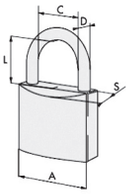
WODEX mro

Perfect ergonomics

PADLOCKS

ITEM: F8000

One-piece ground brass. Carbonitrurated and nickel-plated steel shackle with double-lock shackle.
Standard supply: 2 keys.

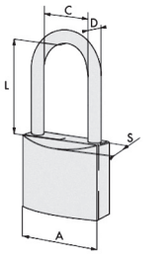




Tech. Code	A mm	C mm	D mm	L mm	S mm
F800020	20	9.6	3.5	11.3	10.4
F800025	25	13.5	3.9	13.1	12
F800030	30	16.2	4.7	16.9	13.8
F800040	40	22.1	6.3	22.4	13.8
F800050	50	27.9	7.9	28.7	17
F800060	60	33.5	9.5	34.7	17.2
F800070	70	39.0	11	36	18

ITEM: F8005

One-piece ground brass. Carbonitrurated and nickel-plated long steel shackle. Double-lock shackle.
Standard supply: 2 keys.

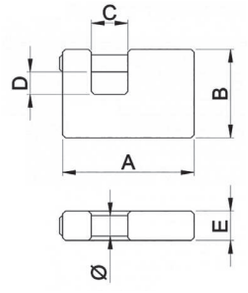




Tech. Code	A mm	C mm	D mm	L mm	S mm
F800530	30	16.2	4.7	24	13.8
F800540	40	22.1	6.3	40	13.8
F800550	50	27.9	7.9	80	17.0

ITEM: F8010

One-piece ground brass body, case-hardened and nickel-plated steel pin with strain relief head.
Standard equipment: 2 keys





Tech. Code	A mm	B mm	C mm	D mm	E mm	Ø mm
F801050	50	38	15	12	15	8
F801060	60	45	20	15	16	10
F801070	70	48	22	15	18	12
F801090	90	76	35	19	30	12

Dimensions are approximate

ADJUSTABLE TAP WRENCHES IN ZINC ALLOY

WODEX

ITEM: WX5848



Standard DIN 1814
Adjustable tap wrenches with hardened jaws, zinc alloy body and handles zinc-chromed steel.The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.

Tech. Code	Size N.	■ mm	For taps M	L mm
F819800	0	2 - 5	1 - 8	125
F819810	1	2 - 6,3	1 - 10	175
F819815	1-1/2	2 - 8	1 - 12	175
F819820	2	3 - 9	4 - 12	265
F819830	3	4,9 - 12	5 - 20	370
F819840	4	5,5 - 16	9 - 27	480
F819850	5	7 - 20	12 - 33	700
F819860	6	9 - 24	16 - 42	1000

ADJUSTABLE TAP WRENCHES IN STEEL

WODEX

ITEM: WX5850



Standard DIN 1814
Premium Quality adjustable pliers with high-strength nitrided jaws. Heavy-duty steel body and handles.

Tech. Code	Size N.	■ mm	Taps DIN352 M	L mm
F82000	0	2 - 5	1 - 8	125
F82001	1	2 - 6.3	1 - 10	175
F82002	2	3 - 9	4 - 12	265
F82003	3	4.9 - 12	5 - 20	370
F82004	4	5.5 - 16	9 - 27	480
F82005	5	7 - 20	12 - 33	700
F82006	6	9 - 24	16 - 42	1000
F82007	7	14,5 - 36	25 - 58	1258

ADJUSTABLE TAP WRENCHES WITH SPIRIT LEVEL

WODEX

NEW

ITEM: WX5852



Standard DIN 1814
Premium Quality adjustable tap wrenches with integrated spirit level for precision threading. Heavy-duty steel body and handles.

Tech. Code	Size N.	■ mm	Taps DIN352 M	L mm
F82020	0	2 - 5	1 - 8	125
F82021	1	2 - 6,3	1 - 10	175
F82022	2	3 - 9	4 - 12	265
F82023	3	4,9 - 12	5 - 20	370
F82024	4	5,5 - 16	9 - 27	480
F82025	5	7 - 20	12 - 33	700

TAP WRENCHES FIXED

WODEX

ITEM: WX5855/S

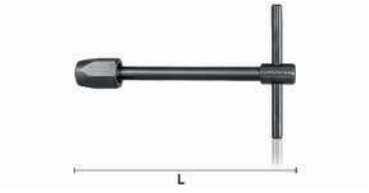
T-handle tap wrenches for right or left hand use. Hardened 4-jaw pliers for clamping tools with square section shank, hexagonal clamping ring nut and fixed T-handle, very useful for threading in difficult to access points.



Characteristics:
Short version

Tech. Code	Size N.	■ mm	For taps M	L mm
F82051	1	2,1 - 3,4	2 - 4	80
F82052	2	4,9 - 5,5	5 - 7	90
F82053	3	6,2 - 7,0	8 - 9	100
F82054	4	7,0 - 8,0	10 - 12	100

ITEM: WX5855/M



Characteristics:
Standard version

Tech. Code	Size N.	■ mm	For taps M	L mm
F82061	1	2,1 - 3,4	2 - 4	150
F82062	2	4,9 - 5,5	5 - 7	150
F82063	3	6,2 - 7,0	8 - 9	150
F82064	4	7,0 - 8,0	10 - 12	150

ITEM: WX5855/L



Characteristics:
Long version

Tech. Code	Size N.	■ mm	For taps M	L mm
F82071	1	2,1 - 3,4	2 - 4	200
F82072	2	4,9 - 5,5	5 - 7	200
F82073	3	6,2 - 7,0	8 - 9	200
F82074	4	7,0 - 8,0	10 - 12	200

T-HANDLE TAP WRENCHES

WODEX

ITEM: WX5860/S



Reversible ratchet Tap wrenches for right-handed, left-handed use or with block. Hardened 2-jaw pliers for clamping tools with square section shank and sliding T-handle, very useful for threading in difficult to access points.The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.

Features:
Short version

Tech. Code	Size N.	■ mm	For taps M	L mm
F82101	1	2,5 - 5,5	3 - 10	85
F82102	2	4,5 - 7	5 - 12	110
F82103	3	9 - 12	13 - 20	115

Size N.3 Reinforced execution Ø 45 mm, 22 mm hexagon and 310 mm long sliding handle

ITEM: WX5861/S



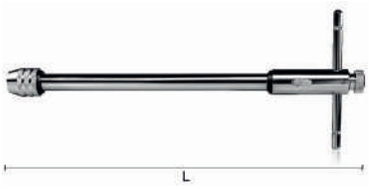
T-handle tap wrenches reversible ratchet for right-hand, left-hand or locking use. Hardened 2-jaw pliers for clamping tools with square section tang and sliding T-handle, very useful for threading in difficult to access points.
Premium Quality Made in Germany execution for heavy machining.
Features:
Short version

Tech. Code	Size N.	■ mm	For taps M	L mm
F82111	1	2 - 5	3 - 8	85
F82112	2	4,6 - 8	5 - 12	110

T-HANDLE TAP WRENCHES

ITEM: WX5860/L

T-handleTap wrenches reversible ratchet for right-handed, left-handed use with block. Hardened 2-jaw pliers for clamping tools with square section shank and sliding T-handle, very useful for threading in difficult to access points.The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Features:
Long version for deep threading in difficult to access points

Tech. Code	Size N.	■ mm	For taps M	L mm
F82141	1	2,5 - 5,5	3 - 10	250
F82142	2	4,5 - 7	5 - 12	300

DIE STOCKS IN ZINC ALLOY

ITEM: WX5868

Standard DIN 225

Die stocks usable with EN 22568 standard. Zinc alloy body and zinc-chromed steel handles. Complete with screws for adjusting and fixing the die. The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Tech. Code	For dies Ø x H mm	L mm
F8258160	16 x 5	160
F8258200A	20 x 5	180
F8258200B	20 x 7	180
F8258250	25 x 9	210
F8258300	30 x 11	260
F8258380A	38 x 10	315

Tech. Code	For dies Ø x H mm	L mm
F8258380B	38 x 14	315
F8258450A	45 x 14	450
F8258450B	45 x 18	450
F8258550A	55 x 16	500
F8258550B	55 x 22	500

DIE STOCKS IN STEEL

ITEM: WX5870

Standard DIN 225

Die stocks **Premium Quality** usable with dies in accordance with EN 22568. Stove-enamelled forged steel body and handles in zinc-chromed steel. Complete with adjusting screws and fasteners.



Tech. Code	For dies Ø x H mm	L mm
F8260160	16 x 5	200
F8260162	16.2 x 6.5	200
F8260200A	20 x 5	205
F8260200B	20 x 7	205
F8260206	20.6 x 7	205
F8260250	25 x 9	225
F8260254	25.4 x 9.5	225
F8260300	30 x 11	280
F8260317	31.7 x 11	280
F8260380A	38 x 10	335
F8260380B	38 x 14	335
F8260381	38.1 x 12.7	335

Tech. Code	For dies Ø x H mm	L mm
F8260450A	45 x 14	405
F8260450B	45 x 18	405
F8260508	50.8 x 15.9	500
F8260550A	55 x 16	500
F8260550B	55 x 22	500
F8260635	63.5 x 17	625
F8260650A	65 x 18	625
F8260650B	65 x 25	625
F8260750A	75 x 20	705
F8260750B	75 x 30	705
F8260762	76.2 x 23	705
F8260900	90 x 36	900

CONICAL EXTRACTORS FOR SCREWS AND STUDS

ITEM: WX5880

Conical chrome-vanadium steel extractors for the removal of broken screws and studs that cannot be gripped. The WX5880 extractors can only be used on right-hand threaded screws and require a pre-hole for inserting the tool.



Tech. Code	N.	For screws M	Pre-hole Ø mm	Ø A mm	Ø B mm	L mm
F827501	1	3 - 6	2.5	1.7	3.6	50
F827502	2	6 - 8	3.0	2.2	5.0	57
F827503	3	8 - 11	4.5	3.3	6.5	64
F827504	4	11 - 14	6.0	4.7	8.8	71

Tech. Code	N.	For screws M	Pre-hole Ø mm	Ø A mm	Ø B mm	L mm
F827505	5	14 - 18	8.0	6.3	11.0	78
F827506	6	18 - 24	11.0	9.5	15.0	85
F827507	7	24 - 33	13.5	12.7	19.0	92
F827508	8	33 - 45	18.5	17.5	24.0	100

CONICAL EXTRACTORS FOR SCREWS AND STUDS IN SET

ITEM: WX5880/S5 - WX5880/S6 - WX5880/S8

Composition:

F827605 - WX5880/S5 Extractors N. 1 - 2 - 3 - 4 - 5
F827606 - WX5880/S6 Extractors N. 1 - 2 - 3 - 4 - 5 - 6
F827608 - WX5880/S8 Extractors N. 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8



Tech. Code	Pieces
F827605	5
F827606	6
F827608	8

CONICAL EXTRACTORS FOR SCREWS AND STUDS

ITEM: WX5881

Conical extractors in chrome-vanadium steel suitable for removing broken screws and studs that do not offer gripping possibilities.Thanks to the blades with double non-slip edges, the WX5881 extractors can be used on screws with right and left threads using a pre-hole for inserting the tool.



Tech. Code	N.	For screws M	Ø pre-hole mm	⬣ mm	L mm
F827701	1	5 - 6	3,2 - 4,8	6,3	59
F827702	2	8 - 10	4,8 - 7,1	9,5	66
F827703	3	10 - 12	6,4 - 9,5	12,7	73
F827704	4	12 - 16	9,5 - 12,7	15,9	80
F827705	5	16 - 20	11, 1 - 15,9	19,0	87

CONICAL EXTRACTORS FOR SCREWS AND STUDS IN SET

ITEM: WX5881/S5-MC

Set of 5 extractors with practical metal box.



Compostion:

F827805 - WX5881/S5-MC Extractors N.1 - 2 - 3 - 4 - 5

Tech. Code	Pieces
F827805	5

THREAD REPAIR FILES

ITEM: F8230

Used to restore worn internal and external, right or left hand threads.



Tech. Code	Threads	Description
F8230M	Metric	Pitches 0,8 - 1 - 1,25 - 1,5 - 1,75 - 2 - 2,5 - 3 mm
F8230W	Whitworth	10" - 11" - 12" - 14" - 16" - 18" - 20" - 24"
F8230G	GAS - BSP	Ø 1/8" - 1/4" - 3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1"
F8230U	UNC - UNF	11" - 12" - 13" - 14" - 16" - 18" - 20" - 24"

RIVETING TOOLS FOR BLIND RIVETS

ITEM: DX5

Hand riveters.



Tech. Code	Rivets - aluminium mm	Rivets - steel - copper - stainless steel mm	Weight g
F8298DX5	2,4 - 3 - 3,2 - 4 - 4,8	3 - 3,2 - 4	540

ITEM: SUPER 5

Professional hand riveter for blind rivets.



Tech. Code	Rivets - aluminium mm	Rivets - steel - copper - stainless steel mm	Weight g
F8309SUPER5	2,4 - 3 - 3,2 - 4 - 4,8	2,4 - 3 - 3,2 - 4 - 4,8	600

ITEM: K39

Painted aluminum structure, painted steel lever, plastic handgrips. Supplied complete with four nozzles.



Tech. Code	Rivets ø mm	Weight g
F8300R/1	2,4 ÷ 4,8	550

HAND RIVETING TOOLS FOR BLIND RIVETS

ITEM: K14

Highly professional model. Bronze body, sheet steel levers, plastic handgrips. Supplied complete with four nozzles.



Tech. Code	Rivets ø mm	Weight g
F8310SETR/1	2,4 ÷ 4,8	1000

BATTERY RIVETERS

ITEM: M12 BPRT-201X

M12 BPRT-201X cordless riveting machine applies up to 325 4.8 mm stainless steel rivets with a single charge of a 2.0 Ah battery. Suitable for the application of rivets in aluminum, stainless steel and copper, with a diameter of Ø 2.4 mm up to a solid piece of Ø 4.8 mm. Stroke length of 20 mm. Clamps accessible without the use of tools. Possibility of storing the nozzles in the practical compartment placed on the tool.
Works with all Milwaukee® M12 ™ batteries.



Tech. Code		F834012
Battery capacity	Ah	2
Blade stroke	mm	20,32
Ø jaw max.	mm	2,4 - 4,8
Traction force	N	9000
Weight with battery	kg	2,1
Battery charging time	min	40
Battery type		Li-ion
Voltage	V	12

Supplied with:
- 1 battery 12V da 2,0 Ah
- 1 battery charger
- carrying case

PNEUMATIC RIVETERS FOR BLIND RIVETS

ITEM: RAC 83 AX

Model with rivet retention and sliced nail recovery.
Cast aluminum body, steel operating parts, supplied complete with four nozzles.



Tech. Code	Rivets ø mm	Weight g
F8360RP/2	2,4 ÷ 4,8 *	1500

*** 4,8 ø in aluminium only**

OLEOPNEUMATIC RIVETERS FOR RIVETS

ITEM: RAC 182

- Lightweight and ergonomic hydropneumatic riveting tools for standard blind rivets, Farbolt high performance rivets and similar by mounting the accessory kit code 74000090 (optional) or for high performance X/S Trifar rivets by mounting the nozzle code 71345652 (optional) .

Features:
- Safety system in the recovery of the cut nail
- Connection for compressed air on both sides
- Maximum traction force 10500 N
- 20.5 mm stroke
- Weighted acoustic power (A) 87 dBA

Power supply: Lubricated compressed air - Recommended pressure 6 BAR - Tube ø int. 8 mm



Tech. Code	Standard rivets ø mm	High performance rivets ø mm	Weight kg
F838100	2,4 - 6,0 (*)	3,2 - 4,8	1,7

(*) ø 6,0 in aluminium only

ALUMINUM ALLOY RIVETS

ITEM: F8387

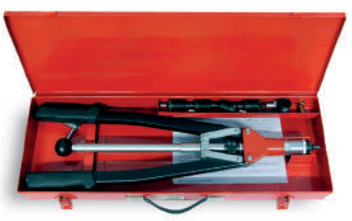
Standard EN ISO15977
Aluminum alloy rivets in self-service packaging.
Aluminum bushing AlMg3,5 - EN AW 5154A.
Nail in white galvanized steel Chrome **III.**



Tech. Code	Ø mm	Length mm	Ø head mm	Ø Chiodo mm	Pieces per pack
F83873008	3	8	6	1,7	100
F83873010	3	10	6	1,7	100
F83874010	4	10	8	2,2	100
F83874012	4	12	8	2,2	100
F83874016	4	16	8	2,2	100
F83874810	4,8	10	10	2,6	100
F83874812	4,8	12	10	2,6	100
F83874816	4,8	16	10	2,6	100

ITEM: NX65

Long handled riveter for threaded inserts complete with tie rods and heads.



Tech. Code	Threaded inserts	Weight g
F8409CNX65	M3 - M4 - M5 - M6 - M8 - M10	4500

Spare tie rods code F8409TM_

HAND RIVETERS FOR THREADED INSERTS

ITEM: KJ21

Painted sheet steel body, plastic handgrips.
Plastic case containing KJ21 riveter with tie rods and heads M3 ÷ M8.



Tech. Code	Insert capacity
F8400R/4	M3 ÷ M8

Spare tie rods code F8400TM_

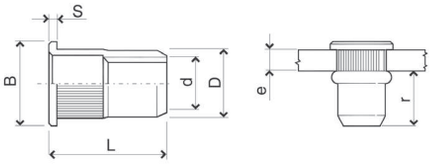
THREADED INSERTS WITH ROUND HEAD IN GALVANIZED STEEL

ITEM: F8480

Threaded inserts short version with round head in C43 steel (EN 1.0303) / C10C (EN1.0214)

Surface treatment:
White zinc plating with a minimum thickness of 7Micron (Fe / Zn 7 IV).

M3 size without knurling on the stem.





Tech. Code	M	L mm	Hole mm	e mm	D mm	B mm	S mm	r mm	Pieces per pack
F848003	3	9	5	0,3 ÷ 1,8	4,9	7	0,8	6,0	200
F848004	4	11	6	0,3 ÷ 1,8	5,9	9	1,0	7,5	200
F848005	5	13	7	0,5 ÷ 3,0	6,9	10	1,2	9,5	200
F848006	6	14,5	9	0,5 ÷ 3,0	8,9	12	1,5	10,0	200
F848008	8	17,5	11	0,8 ÷ 3,5	10,9	15	1,5	11,4	200
F848010	10	21	13	1,0 ÷ 3,5	12,9	17	1,7	14,5	200

MANUAL STAPLERS SERIES 113

ITEM: LT-33

Manual staplers for staples Series 113 made with wire with a rectangular section 0.50x0.75 mm, internal width 9.5 mm and length from 6 to 14 mm.



Tech. Code	Model	Staples Serie / mm	Magazine capacity	Weight kg	L x W x H mm
F850133	LT-33	113/06 ÷ 113/14	170	0,83	188 x 31 x 154

ITEM: G-19

Manual hammer staplers for 113 Series staples made with wire with rectangular section 0.50x0.75 mm, internal width 9.5 mm and length 6 and 8 mm.

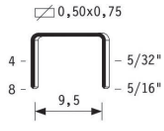


Tech. Code	Model	Staples Serie / mm	Magazine capacity	Weight kg	L x W x H mm
F850319	G-19	113/06 ÷ 113/08	157	0,41	274 x 32 x 53

ITEM: 113

Metallic staples Series 113 Zinc finish.





Tech. Code	Model	Length mm	Width Int. mm	Cross Section mm	Pack quantity
F850506	113/06	6	9,5	0,50 x 0,75	5000

PNEUMATIC STAPLERS SERIES 80

ITEM: 80

Pneumatic staplers **Top Quality** Made in Italy for Series 80 staples made with wire with rectangular section 0,65x0,95 mm, internal width 11,4 mm and length from 4 to 16 mm. Specification of models:
1/4 "BSP compressed air inlet connection.



Specification of models:

80.16 Standard stapler
80.16-NF Stapler with thin nose
80.16-S Stapler with contact safety
80.16-SL Stapler with 50 mm long nose
80.16-SLS Stapler with long nose and safe in contact
80.16-V Automatic stapler

Tech. Code	Model	Staples Serie / mm	Magazine capacity	Pressure Bar	Consumption Litries/Stroke	Weight kg	L x W x H mm
F852016	80.16	80/04 ÷ 80/16	145	4 ÷ 6	0,13	0,9	223 x 43 x 148

For other models consult the manufacturer's catalog.

ITEM: 80 STANOX

Matallic staples Series 80 Stanox finish (Liquor finish). Also available with other finishes, painted, stainless steel and aluminum.

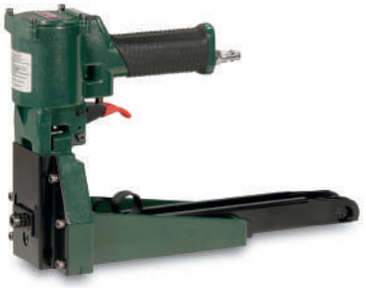


Tech. Code	Model	Length mm	Width Int. mm	Cross Section mm	Pack quantity
F852504	80/04	4	11,4	0,65 x 0,95	300.000
F852506	80/06	6	11,4	0,65 x 0,95	240.000
F852508	80/08	8	11,4	0,65 x 0,95	180.000
F852510	80/10	10	11,4	0,65 x 0,95	180.000
F852512	80/12	12	11,4	0,65 x 0,95	120.000
F852514	80/14	14	11,4	0,65 x 0,95	120.000
F852516	80/16	16	11,4	0,65 x 0,95	120.000

PNEUMATIC STAPLERS SERIES 35

ITEM: 35

Pneumatic staplers Top Quality Made in Italy for Series 35 staples suitable for closing cardboard boxes, made with wire with rectangular section 0.80x2.20 mm, external width 35 mm and length from 15 to 22 mm.
1/4 "BSP compressed air inlet connection.



Specification of models:

35.18 Standard stapler for staples length 15 ÷ 18 mm
35.22 Standard stapler for staples length 18 ÷ 22 mm

Tech. Code	Model	Staples Series / mm	Magazine capacity	Pressure Bar	Consumption Litres/Stroke	Weight kg	L x W x H mm
F858018	35.18	35/15 ÷ 35/18	100	5 ÷ 7	1,32	2,45	342 x 115 x 222
F858022	35.22	35/18 ÷ 35/22	100	5 ÷ 7	1,32	2,45	342 x 115 x 222

For other models, consult the manufacturer's catalog.

ITEM: 35 RAMATO

Metallic staples series 35 with copper finish, suitable for closing cardboard boxes.



Tech. Code	Model	Length mm	Width Ext. mm	Cross Section mm	Pack quantity
F858515	35/15	15	35	0,80 x 2,25	25.000
F858518	35/18	18	35	0,80 x 2,25	20.000
F858522	35/22	22	35	0,80 x 2,25	15.000

PNEUMATIC STAPLERS ROLL-A SERIES

ITEM: ROLL-A

Pneumatic staplers **Top Quality** Made in Italy for staples in roll Series ROLL-A suitable for closing cardboard boxes, made with wire with rectangular section0.90x2.20 mm, external width 35 mm (with closed clip) and length of 15 to 22 mm.
1/4 "BSP compressed air inlet connection



Specification of models:

A.18-ROLL Stapler for staples length 15 ÷ 18 mm
A.22-ROLL Stapler for staples length 18 ÷ 22 mm

Tech. Code	Model	Staples Series / mm	Magazine capacity	Pressure Bar	Consumption Litres/Stroke	Weight kg	L x W x H mm
F859018	A.18-Roll	RollA/15 ÷ RollA/18	1000	5 ÷ 7	1,32	2,35	237 x 115 x 222
F859022	A.22-Roll	RollA/18 ÷ RollA/22	1000	5 ÷ 7	1,32	2,35	237 x 115 x 222

ITEM: ROLL-A

Metallic staples in rolls of 1000 pieces Roll-A Series stanox finish (Liquor finish), suitable for closing cardboard boxes.



Tech. Code	Model	Length mm	Width Ext. (*) mm	Cross Section mm	Pack quantity
F859515	Roll-A/15	15	35	0,90 x 2,20	24.000
F859518	Roll-A/18	18	35	0,90 x 2,20	24.000
F859522	Roll-A/22	22	35	0,90 x 2,20	24.000

(*) External width with closed clip.

CABLE TIES FOR STANDARD CABLING POLYAMIDE 6.6

ITEM: F8701

These cable ties are made of polyamide 6.6 so as not to cause interferences with electronic devices. The black cable ties are made with the addition of carbon black, which gives a higher resistance to UV light compared to natural coloured cable ties.
Technical data:
- Halogen free polyamide 6.6
- Moisture absorbency: 2.7% (at 50% relative humidity)
- Operating temperature: -40°C to 85°C
- Flame resistance: UL 94 class V2
- Resistance to external agents: excellent resistance to aromatic solvents, oils, greases, oil based products, good resistance to bases, limited resistance to acids, not resistant to phenol and chlorinated solvents. Tested according to IEC EN 62275.



Tech. Code	Dimensions mm	Colour	Clamping Ø max mm	Pieces per pack
F8701B15	2.5 x 98	Natural	21	100
F8701B20	2.5 x 135	Natural	32	100
F8701B25	2.6 x 160	Natural	40	100
F8701B30	2.6 x 200	Natural	52	100
F8701B35	3.5 x 140	Natural	32	100
F8701B40	3.5 x 200	Natural	50	100
F8701B45	3.5 x 290	Natural	80	100
F8701B55	4.5 x 290	Natural	78	100
F8701B60	4.5 x 360	Natural	100	100
F8701B65	4.8 x 178	Natural	45	100
F8701B68	4.5 x 200	Natural	50	100
F8701B70	4.8 x 250	Natural	50	100
F8701B75	4.8 x 390	Natural	68	100
F8701B80	7.5 x 365	Natural	100	100
F8701B85	7.5 x 750	Natural	220	100
F8701B90	12,5 x 1000	Natural	302	50

Tech. Code	Dimensions mm	Colour	Clamping Ø max mm	Pieces per pack
F8701N15	2.5 x 98	Black	21	100
F8701N20	2.5 x 135	Black	32	100
F8701N25	2.6 x 160	Black	40	100
F8701N30	2.6 x 200	Black	52	100
F8701N35	3.5 x 140	Black	32	100
F8701N40	3.5 x 200	Black	50	100
F8701N45	3.5 x 290	Black	80	100
F8701N50	4.5 x 200	Black	50	100
F8701N55	4.5 x 290	Black	78	100
F8701N60	4.5 x 360	Black	100	100
F8701N65	4.8 x 178	Black	45	100
F8701N70	4.8 x 250	Black	50	100
F8701N75	4.5 x 390	Black	68	100
F8701N80	7.5 x 365	Black	100	100
F8701N83	7,5 x 540	Black	158	100
F8701N85	7.5 x 750	Black	220	100

The price shown refers to a pack of 100 pieces

CABLE TIE PLIERS

ITEM: WX3495

Pliers **Premium Quality** for tightening and cutting nylon cable ties for electrical wiring.

Functioning
- Tightening of the clamp by closing the main handles
- Removal of the excess part by operating the additional red lever



Tech. Code	For cable ties Max. width mm	For cable ties Max. thickness mm	L mm
F8708195	12	2,3	195

HOSE CLAMPS MM 9 W2B AISI 430 IN SET

ITEM: F8805

Set of hose clamps W2B AISI 430 in roll width 9 mm with trunnion. An instant solution for making any length of clip bands, ideal for maintance and assistance. Stamped threaded band with trunnion closure reversable quick thread release.

Material:
- Clip band in stainless steel AISI 430 TI
- Screw and pawl in carbon zinc steel



Tech. Code	Width mm	L mm	Screw pcs
F88050905	9	5	8

HOSE CLAMPS MM 12 W2B AISI 430 IN ROLLS

ITEM: F8807

Hose clamps W2B AISI 430 in roll length 12 mm. An instant solution, for making any length of clip bands, ideal for mantenance and assistance. Perforated band clips,trunnio closure to be ordered seperately code F8808.



Tech. Code	Width mm	L mm	Screw pcs
F88071225	12	25	-

TRUNNION OF CLOSURE FOR HOSE CLAMPS MM12

ITEM: F8808

Trunnion of quick closure reversable thread release, screw and pawl in carbon zinc steel. Usable with hose clamps width 12 mm code F8807.



Tech. Code	Width mm	Screw pcs
F88081225	12	25

HOSE CLAMPS STAINLESS STEEL W2B AISI 430 DIN 3017

ITEM: F8812

Stainless steel hose clamps Standard DIN 3017. They are made with a perforated band and rounded edges to avoid damaging the tubes. Mechanical seam of the tape to grarantee an effective seal. The tie has an high flexibility in the adaptment of the circumference of the tube and it is suitable for all industrial applications..

Material: Stainless steel tape AISI 430 TI - Screws and band in carbon zinc steel.



Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8812008	8 - 12	9	7
F8812010	10 - 16	9	7
F8812012	12 - 22	9	7
F8812016	16 - 27	9	7
F8812020	20 - 32	9	7
F8812025	25 - 40	9	7
F8812030	30 - 45	9	7
F8812032	32 - 50	9	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8812040	40 - 60	9	7
F8812050	50 - 70	9	7
F8812060	60 - 80	9	7
F8812070	70 - 90	9	7
F8812080	80 - 100	9	7
F8812090	90 - 110	9	7
F8812100	100 - 120	9	7
F8812110	110 - 130	9	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8813016	16 - 27	12	7
F8813020	20 - 32	12	7
F8813023	23 - 35	12	7
F8813025	25 - 40	12	7
F8813030	30 - 45	12	7
F8813035	35 - 50	12	7
F8813040	40 - 60	12	7
F8813050	50 - 70	12	7
F8813060	60 - 80	12	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8813070	70 - 90	12	7
F8813080	80 - 100	12	7
F8813090	90 - 110	12	7
F8813100	100 - 120	12	7
F8813110	110 - 130	12	7
F8813120	120 - 140	12	7
F8813130	130 - 150	12	7
F8813140	140 - 160	12	7
F8813150	150 - 170	12	7

HOSE CLAMPS STAINLESS STEEL W4 AISI 304 DIN 3017

ITEM: F8827

Stainless steel hose clamps standard DIN 3017 They are made with a perforated band and rounded edges to avoid damaging the tubes. Mechanical seam of the tape to guarantee an effective seal. The tie has an high flexibility in the adaptment of the circumference of the tube and it is suitable for all industrial applications.

Material: Stainless steel hose clamps AISI 304 - Screws and band in carbon zinc steel AISI 304



Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8827008	8 - 12	9	7
F8827010	10 - 16	9	7
F8827012	12 - 22	9	7
F8827016	16 - 27	9	7
F8827020	20 - 32	9	7
F8827025	25 - 40	9	7
F8827030	30 - 45	9	7
F8827032	32 - 50	9	7
F8827040	40 - 60	9	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8827050	50 - 70	9	7
F8827060	60 - 80	9	7
F8827070	70 - 90	9	7
F8827080	80 - 100	9	7
F8827090	90 - 110	9	7
F8827100	100 - 120	9	7
F8827110	110 - 130	9	7
F8827120	120 - 140	9	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8828016	16 - 27	12	7
F8828020	20 - 32	12	7
F8828023	23 - 35	12	7
F8828025	25 - 40	12	7
F8828030	30 - 45	12	7
F8828032	32 - 50	12	7
F8828040	40 - 60	12	7
F8828050	50 - 70	12	7
F8828060	60 - 80	12	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8828070	70 - 90	12	7
F8828080	80 - 100	12	7
F8828090	90 - 110	12	7
F8828100	100 - 120	12	7
F8828110	110 - 130	12	7
F8828120	120 - 140	12	7
F8828130	130 - 150	12	7
F8828140	140 - 160	12	7
F8828150	150 - 170	12	7

HOSE CLAMPS STAINLESS STEEL BAND WITH TRUNNION W2 AISI 430

ITEM: F8830

Stainless steel band hoses are partically indicated when there is a request of action of tightening. Strong tightening or re-inforced tubes. The wide range available allows usage in many sectors and applications.

Material: Stainless steel band AISI 430 TI - Screw and pawl in carbon zinc steel.

Available on request in galvanized steel (W1), AISI 304 (W4) carbon zinc steel AISI 316 (W5)



Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8830023	23 - 25	21	6 x 50
F8830026	26 - 28	21	6 x 50
F8830029	29 - 31	21	6 x 50
F8830032	32 - 35	21	6 x 50
F8830036	36 - 39	21	6 x 50
F8830040	40 - 43	21	6 x 50
F8830044	44 - 47	21	6 x 50
F8830048	48 - 51	21	6 x 60
F8830052	52 - 55	21	6 x 60
F8830056	56 - 59	21	6 x 60
F8830060	60 - 63	21	6 x 60
F8830064	64 - 73	21	6 x 60
F8830068	68 - 73	24	8 x 70
F8830074	74 - 79	24	8 x 70

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8830080	80 - 85	24	8 x 70
F8830086	86 - 91	24	8 x 80
F8830092	92 - 97	24	8 x 80
F8830098	98 - 103	24	8 x 80
F8830104	104 - 112	24	8 x 90
F8830113	113 - 121	24	8 x 90
F8830122	122 - 130	24	8 x 90
F8830131	131 - 139	26	10 x 100
F8830140	140 - 148	26	10 x 100
F8830149	149 - 161	26	10 x 100
F8830162	162 - 174	26	10 x 100
F8830175	175 - 187	26	10 x 100
F8830188	188 - 200	26	10 x 100
F8830201	201 - 213	26	10 x 100

PROTRACTORS

ITEM: F9001

Satin-chromed, stress-resistant steel, engraved scale.



Tech. Code	Arc structure mm	Rod mm	Resolution
F9001120	80	120	1°
F9001150	120	150	1°
F9001200	150	200	1°
F9001300	200	300	1°
F9001500	250	500	1°
F9001600	300	600	1°

ITEM: F9003

Sliding rod protractors in non-deformable chromed anti-reflective steel, laser engraved scale and ring nut for locking the rod.



Tech. Code	Arc mm	Rod mm	Resolution
F9003120	120	240	1°
F9003150	150	300	1°
F9003200	200	400	1°

MONOBLOCK DRAWING VERNIER CALIPERS

ITEM: F9005

1/10 vernier gauge, 0.1mm reading - satin-chromed scale, hardened steel tip.



Tech. Code	Useful mm	Accessories
F9005200	200	-
F9005400	400	-
F9005RP	-	Spare tip

TRAMMELS FOR TRACING

ITEM: F9007

Graduate round rod, hardened steel tip.

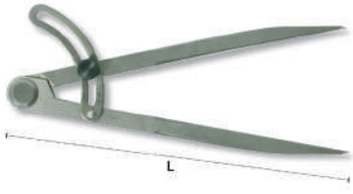


Tech. Code	Useful mm	Base mm
F9007200	200	100 x 50
F9007300	300	100 x 50
F9007500	500	100 x 50
F9007RP	Spare tip	-

DIVIDERS WITH SETTING WING

ITEM: F9017

Hardened scriber with click-stop device.



Tech. Code	L mm
F9017150	150
F9017200	200
F9017250	250
F9017300	300
F9017400	400

HIGH PRECISION SQUARES

ITEM: F9031

Standard DIN 875/0

Simple 90° squares compliant with **DIN 875 precision grade 0** in hardened stainless steel, fully retified, suitable for maximum precision in the mechanical workshops.



Tech. Code	Dimension mm	Accuracy mm	H mm	S mm
F9031050040S	50	40	15	4
F9031075050S	75	50	15	4
F9031100070S	100	70	20	5
F9031150100S	150	100	30	6
F9031200130S	200	130	30	6
F9031250165S	250	165	35	7
F9031300200S	300	200	40	8

ITEM: F9034

Standard DIN 875/00

Simple 90° bevelled edge squares conforming to **DIN 875 Precision grade 00** in hardened stainless steel, fully rectified, suitable for maximum precision checks in the mechanical workshop.



Tech. Code	Dimension mm	Accuracy mm	H mm	S mm
F90345040	50	40	13,5	4,5
F90347550	75	50	15,5	4,5
F903410070	100	70	20	5
F9034150100	150	100	30	6
F9034200130	200	130	32	7
F9034250165	250	165	35	7
F9034300200	300	200	38	9

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FLAT SQUARES FOR MECHANICS

ITEM: F9033

Standard DIN 875/1

Flat squares simple 90° compliant with **DIN 875 Precision grade 1** in hardened stainless steel, fully rectified,suitable for checks in the mechanical workshop.



Tech. Code	L mm	L1 mm	H mm	S mm
F90330100	100	70	20	5
F90330150	150	100	25	6
F90330200	200	130	30	7
F90330250	250	165	35	8
F90330300	300	170	35	8
F90330400	400	230	45	10
F90330500	500	280	45	10
F90330600	600	350	45	10

ITEM: F9032

Standard DIN 875/1

Squares 90° with screwed cap compliant with DIN 875 precision grade 1 in hardened and ground stainless steel, suitable for control in mechanical workshops.



Tech. Code	L mm	L1 mm	B mm	H mm	S mm
F9032100070A	100	70	20	20	5
F9032150100A	150	100	24	24	6
F9032200130A	200	130	24	26	6
F9032250165A	250	165	30	30	6
F9032300200A	300	200	30	30	6
F9032400250A	400	230	39	39	9
F9032500300A	500	280	39	44	11

Standard DIN 875/0

Squares 90° with screwed cap compliant with DIN 875 precision grade 0 in hardened and ground stainless steel, suitable for precision checks in mechanical workshops.

Tech. Code	L mm	L1 mm	B mm	H mm	S mm
F9032050040S	50	40	15	15	4
F9032075050S	75	50	15	15	4
F9032100070S	100	70	20	20	5
F9032150100S	150	100	30	30	6
F9032200130S	200	130	30	30	6
F9032250165S	250	165	35	35	7
F9032300200S	300	200	40	40	8

SQUARES FOR CARPENTRY

ITEM: F9037

90° squares non standardized with screwed cap in ground steel, suitable for marking and alighnment work in the workshop.



Tech. Code	L mm	L1 mm	B mm	H mm	S mm
F90370100	100	70	19	21	5
F90370150	150	100	19	21	6
F90370200	200	130	25	25	6
F90370250	250	160	25	25	6
F90370300	300	180	25	25	6
F90370400	400	210	30	30	6
F90370500	500	260	30	30	6
F90370600	600	300	30	30	6

Dimensions "B" - "H" are indicative

GALVANIZED STEEL SQUARES FOR BLACKSMITHS

ITEM: F9038

Simple **non-standard 90°** squares in galvanized steel.



Tech. Code	L mm	L1 mm	H mm	S mm
F90380100	100	70	19	5
F90380150	150	100	19	5
F90380200	200	130	24	5
F90380250	250	160	24	5
F90380300	300	180	29	6
F90380400	400	230	29	6
F90380500	500	280	29	6
F90380600	600	330	29	6

Dimensions "H" and "S" are indicative

ITEM: F9039

Flat squares 90° **not standanized** in zinc steel.



Tech. Code	L mm	L1 mm	B mm	H mm	S mm
F90390100	100	70	20	19	5
F90390150	150	100	20	19	5
F90390200	200	130	25	24	5
F90390250	250	160	25	24	5
F90390300	300	180	30	29	6
F90390400	400	230	30	29	6
F90390500	500	280	30	29	6
F90390600	600	330	30	29	6

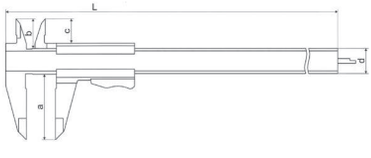
Dimension "H" AND "S" are indicative

VERNIER CALIPERS

ITEM: F9045

Vernier 1/20, graduation 0,05 – 4 functions: inside, outside, depth and marking. Cursor with locking button.





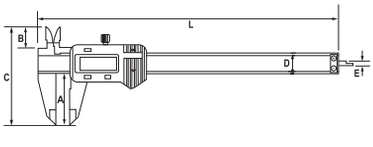
Tech. Code	Measuring range mm	A mm	B mm	C mm	D mm	L mm
F9045150	0 ÷ 150	40	20	15	16	230

DIGITAL CALIPERS

ITEM: 05.03

Resolution 0.01 mm. Switching on and off with button (ON/OFF), zeroing in any position, cursor with locking screw.





Tech. Code	Measuring range mm	A mm	B mm	C mm	D mm	E mm	L mm
F9040150	0 ÷ 150	40	16	77	16	3,8	236
F9040200	0 ÷ 200	50	20	90	16	3,8	292
F9040300	0 ÷ 300	61	22	105	16	3,8	391

SPIRIT LEVELS SLIM - 2 VIALS

ITEM: 4932459090 - 4932459091 - 4932459092

Aluminium spirit levels with 2 shockproof and UV resistant acrylic vials.
Milled measuring surface for maximum accuracy. The anti-slip grip prevents the spirit level from slipping whilst the reading is being taken.
Accurate to 0.029° (0.0005"/in, 0.5mm/m) in standard position.

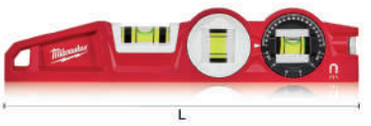


Tech. Code	L mm	N° vials
F9046040	400	2
F9046060	600	2
F9046080	800	2

MAGNETIC TORPEDO LEVELS WITH 360° ADJUSTABLE VIAL

ITEM: 4932459096

Magnetic torpedo level with 360° adjustable vial for measuring variable inclinations.
Locking mechanism for easier repetitive measurements.
Milled levelling surface ensures maximum accuracy in all working positions.
SHARPSITE technology with solid and shockproof vial housing.
Die cast aluminium body designed to withstand worksite conditions.
Accurate to 0.029° (0.0005"/in, 0.5mm/m) in standard position.



Tech. Code	L mm	N° vials
F905125	250	3

ALUMINIUM SPIRIT LEVELS

ITEM: WX1630

Premium Quality spirit levels made of 1.7 mm thick aluminium section with 3 unbreakable bubbles, horizontal, vertical and 45° inclined.



Tech. Code	L mm	Section mm	No. of vials	Precision mm/m
F90600400	400	50 x 23	3	0,5
F90600600	600	50 x 23	3	0,5

ALUMINIUM MAGNETIC SPIRIT LEVELS

ITEM: WX6132

Magnetic spirit levels in 2 mm thick aluminium profile with 3 unbreakable bubbles, horizontal, vertical and inclined with adjustment a 30° - 45° - 60°.



Tech. Code	L mm	Section mm	No. of vials	Precision mm/m
F90650400	400	58 x 23	3	1
F90650600	600	58 x 23	3	1

STAINLESS STEEL SEMIRIGID RULERS

ITEM: F9055

Flexible semi-rigid stainless steel matte-finish, one-sided millimetre division.



Tech. Code	Section mm	L mm
F9055300	30 x 1	300
F9055500	30 x 1	500
F90551000	30 x 1	1000
F90551500	30 x 1	1500
F90552000	30 x 1	2000

ITEM: F9057

Matt-finish stainless steel flexible millimetre scale, double-sided millimetre division mm/mm - mm/1/2 mm.



Tech. Code	Section mm	L mm
F9057150	13 x 0.5	150
F9057200	13 x 0.5	200
F9057250	13 x 0.5	250
F9057300	13 x 0.5	300

METRIC ROLLERS

ITEM: WX6120

Premium Quality metric rollers with nylon-coated steel tape, shock-proof ABS housing, crank winding. Tape with graduation on one side, division in millimetres, black printing on yellow background, progressive metre marking in red. Retractable tab for flush positioning on the edge of a flat wall.

Tech. Code	Belt length m	Belt widths mm	Dimensions mm
F911020	20	13	Ø 140 x 30

Accuracy Class II Conforms to EC Directive



ITEM: WX6122

Premium Quality metric rollers with nylon-coated steel tape, ABS housing with non-slip rubber coating, **quick** crank **winding**. Tape with graduation on one side, division into millimetres and centimetres, black printing on yellow background, progressive metre marking in red. Retractable tab for flush positioning on the edge of a flat wall.

Tech. Code	Belt length m	Belt widths mm	Dimensions mm
F911220	20	13	135 x 120 x 45

Accuracy Class II Conforms to EC Directive



ITEM: WX6124

Premium Quality metric rollers with PVC-coated fibreglass tape, shock-proof ABS housing, crank winding. Graduation on both sides, division in centimetres, black printing on white background, progressive metre indication in red.

Tech. Code	Belt length m	Belt widths mm	Dimensions mm
F911420	20	14	Ø 140 x 30

Accuracy class III Conforms to EC directive



POCKET TAPE MEASURES

ITEM: WX6100

TOP-LINE flexometers with ergonomic non-slip case made of 2-component ABS-TPR material resistant to falls from 3 metres, steel tape with wear-resistant coating resistant up to 100 hours in salt spray, graduation on both sides**, magnetic tip**, belt clip.

Tech. Code	Tape length m	Tape width mm	Dimensions mm
F912303	3	16	63 x 63 x 33
F912305	5	19	73 x 71 x 43

EC compliant Class II accuracy



ITEM: WX6105

ERGO-GRIP flexometers with ergonomic non-slip case made of ABS-TPR two-component material, steel tape with wear-resistant coating, belt clip.

Tech. Code	Belt length m	Belt widths mm	Dimension mm
F912703	3	19	75 x 69 x 34
F912705	5	25	75 x 71 x 40
F912708	8	25	87 x 81 x 40
F912710	10	25	87 x 81 x 40

Accuracy Class II Conforms to EC Directive



ITEM: WX6115

ROUND-FLEX compact tape measures with plastic case and steel tape, belt clip.

Tech. Code	Belt length m	Belt widths mm	Dimension mm
F913003	3	13	52 x 52 x 20

Accuracy Class II Conforms to EC Directive



DISTANCE METER DETECTOR LASER

ITEM: GLM 50-27 C PROFESSIONAL

The professional laser distance meter GLM 50-27 C offers a durable construction, designed for harsh conditions, allows quick documentation and is easy to use. Ideal for construction sites, it offers an IP65-rated construction with impact-resistant coating and withstands drops from 1.5 meters, even onto concrete. With data transfer via Bluetooth® connectivity or Bosch MeasureOn app.
Ideal for documentation and for calculating required materials, room volumes and wall surfaces as well as for positioning and installing elements. The meter offers increased battery life, acoustic and vibration feedback, to confirm the success of the measurements.



Tech. Code		F915650
Measuring range	m	0,05 - 50
Measuring range inclination		0-360° (4x90°)
Precision +/-	mm	1,5
Laser class		2
Automatic shutdown	min.	5
Protection class		IP65
Power supply		2 x 1,5-V-LR6 (AA)
Weight	g	200

Supplied with:
Protective case
Shoulder bag
2 batteries 1,5V LR6 (AA)

LASER DISTANCE METER

ITEM: GLM 40-31 PRO

NEW

Intuitive operating laser distance meter with an easy-to-read display for quick and trouble-free measurements.
Robust construction with IP65 certification and shock-proof housing that withstands falls of up to 1.5 m.
Seven measurement modes and automatic calculations for versatility in a wide range of applications.



Tech. Code		F915740
Measuring range	m	0,050 - 40
Accuracy +/-	mm	1,5
Laser class		2
Automatic switch-off	min.	5
Protection class		IP65
Feeding		2 x 1,5-V-LR6 (AA)
Weight	g	100

Included
1 case
2 x 1,5V LR6 (AA) batteries

LIQUID PAINT MARKERS

ITEM: SL.100

Liquid paint markers for all surfaces, even the most difficult, durable and weatherproof marking (up to 100°C), solid and wear-resistant tip.



Tech. Code	Colour
F9210BIANCO	White
F9210BLU	Blue
F9210GIALLO	Yellow
F9210NERO	Black
F9210ROSSO	Red
F9210VERDE	Green
F9210ARANCIO	Orange
F9210VIOLA	Violet

BALL POINT MARKERS

ITEM: STYLMARK® 3

Metal ballpoint tube markers ideal for rough, vertical, greasy or wet surfaces. Can be used for writing on metal, concrete, stone, plastic, rubber and textiles.
Features:Ball point tip, marking size 3 mm



Tech. Code	Colour
F9211BIANCO	White
F9211BLU	Blue
F9211GIALLO	Yellow
F9211NERO	Black
F9211ROSSO	Red
F9211VERDE	Green

SOLID PAINT STICKS

ITEM: QUIK STIK

Solid paint stick in twist-up holder with ball point, for all types of surfaces: wet, smooth, rough and hot, clear and durable marks up to 200°C, it dries in just 5 minutes.



Tech. Code	Colour
F9220BIANCO	White
F9220GIALLO	Yellow
F9220ROSSO	Red

PERMANENT INK MARKERS

ITEM: DURA-INK 5

Tip micro-extended for clear marks reaching the most difficult areas, permanent ink marker. Micro-tip in metal. Scratches, water and breaks resistant.



Tech. Code	Colour
F9230NERO	Black
F9230ROSSO	Red

ITEM: DURA-INK 15

Permanent ink marker scratches and water resistant, spherical tip ultra-hard for difficult works, perfect for industrial conditions, fast-drying quality and wear resistant.



Tech. Code	Colour
F9235NERO	Black
F9235ROSSO	Red

ITEM: DURA-INK® 60

Quick-drying markers with highly resistant tips for writing on metals, cardboard, plastic glass, wood, fabrics.
Features:
Medium round tip, marking size 3 mm



Tech. Code	Colour
F9240BLU	Blue
F9240NERO	Black
F9240ROSSO	Red

STEATITE CHALKS

ITEM: FM.400

Steatite chalks for marking during welding and metalworking operations.Suitable for marking steel, stainless steel and aluminum.



Tech. Code	Dimension mm	Pieces per pack
F925510	10 x 10 x 100	50

The displayed price refers to a pack of 50 pieces.

WODEX mro
Perfect ergonomics

BENCH TYPE IMPACT MANUAL MACHINES

ITEM: MB15 - 500

Perfect for quick and deep stroke marking of a logo, texts and numbers.
Manually activated lever-action mechanism, strip-pressing system to avoid work piece deformation. Uniform stroke even on pieces of various thickness. Suitable also for calking, riveting and blanking operations.

Main features:
- Net weight: 10Kg - 33 Kg
- T-shaped groove: 6 mm - 10 mm
- Taper diameter: 8 x 32 mm - 10 x 38 mm



Tech. Code	Dimension mm	Adjustable force kg / kN	Height max mm
F9330MB15	132 x 450 x 210	500 / 5	260

TAPERS FOR CHARACTER HOLDERS

ITEM: F9331

Coupling tapers/shanks to join character holders and numerators or other stroke marking tools.
D8 version for MB15 machines.
Manually operated version to be used with hammer.



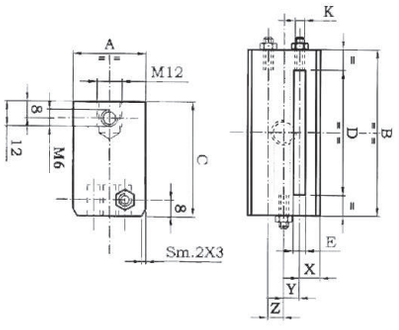
Tech. Code	Coupling shank/taper Ø	Adapter	Thread
F933108	8	MB15	M12
F9331MANO	-	MANUAL	M12

LINEAR CHARACTER HOLDERS

ITEM: PC

Linear type holders are suitable for flat surface marking with stroke marking machines or presses both on round shapes marking with rolling machines.
All models are equipped with an M12 threaded hole to insert the coupling shank to be selected according to the stroke marking tool used.

Upon request character holders can be provided so to multiple number alignment.





Tech. Code	Rows n°	A mm	B mm	C mm	D mm	E mm	Types per row
F9335PC13/6	1	20	55	40	40	6	3 x 13
F9335PC3/4	1	20	50	40	30	4	2 x 15

ASSORTMENT OF 100 CHARACTERS IN CASING

ITEM: F9340

Assortment of 100 characters and 20 spacers in casing.
Characters available in different sizes.

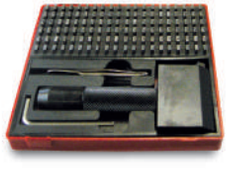


Tech. Code	Type size mm	Execution
F934020/10	2 - 20/10	Standard for use with Automator type holders
F934030/10	3 - 30/10	Standard for use with Automator type holders

ASSORTMENT OF 100 CHARACTERS IN CASING AND CHARACTER HOLDER

ITEM: F9341

Assortment of 100 characters and 20 spacers in casing, one type holder with manual shank, one plier and one key for perfect type fastening , types available in different sizes.



Tech. Code	Type size mm	Type holder model	N° casing for character holder
F934115/10	1,5	PC2/4S	9
F934120/10	2	PC2/4S	7
F934125/10	2,5	PC13/6	16
F934130/10	3	PC13/6	13

ALFANUMERIC CHARACTERS

ITEM: F9360

Hand punches with continuous thread engraving, resistance of the engraving line 58/60 HRC.

Set of 10 numbers from 0 to 9 for normal writing (right).



Tech. Code	Writing height mm	Stem section mm	L mm
F9360020	2	6,3 x 6,3	68,5
F9360030	3	6,3 x 6,3	68,5
F9360040	4	7,9 x 7,9	76
F9360050	5	7,9 x 7,9	76
F9360060	6	10 x 10	76
F9360080	8	12,9 x 12,9	94
F9360100	10	14,9 x 14,9	94

On request sets of numbers for mirrow writing are available (left)

ITEM: F9370

Set of 26 characters A to Z for normal writing (right)



Tech. Code	Writing height mm	Stem section mm	L mm
F9370020	2	6,3 x 6,3	68,5
F9370030	3	6,3 x 6,3	68,5
F9370040	4	7,9 x 7,9	76
F9370050	5	7,9 x 7,9	76
F9370060	6	10 x 10	76
F9370080	8	12,9 x 12,9	94
F9370100	10	14,9 x 14,9	94

A set of letters for mirror writing are available on request (left)

BRUSHES

ITEM: WX7200

Brushes with black plastic handle, copper ring and synthetic fiber bristles, usable with all liquid-fluid and dense-viscous paint density paints, good resistance also to solvents.



Tech. Code	Dimension mm	Bristle length mm
F940820	20 x 15	40
F940830	30 x 15	47
F940840	40 x 15	53
F940850	50 x 15	53
F940860	60 x 15	60
F940870	70 x 15	66

ITEM: WX7210

Radiator brushes with black plastic handle, copper ring and synthetic fiber bristles, usable with all liquid-fluid and dense-viscous paint density paints, good resistance also to solvents.



Tech. Code	Dimension mm	Bristle length mm
F941930	30 x 9	47
F941940	40 x 9	53
F941950	50 x 9	60
F941960	60 x 9	66

FLAT BRUSHES

ITEM: F9409

Blond Chinese bristle, opaque painted wooden handle with nickel-plated ferrule.



Tech. Code	Ring width mm	Die thickness mm
F9409P20	20 x 15	47
F9409P30	30 x 15	47
F9409P40	40 x 15	53
F9409P50	50 x 15	53
F9409P60	60 x 15	60
F9409P70	70 x 15	66

ITEM: F9400

Blond Chinese bristle, painted opaque wooden handle with nickel ferrule.



Tech. Code	N°	die ø mm	Bristle length mm
F9400T4	4	10	40
F9400T6	6	12	40
F9400T8	8	16	42
F9400T10	10	20	44
F9400T12	12	23	45
F9400T14	14	26	52
F9400T16	16	29	58
F9400T18	18	32	65
F9400T20	20	36	66

OVAL BRUSHES

ITEM: F9405

Blond Chinese bristle, opaque painted wooden handle with nickel-plated ferrule.



Tech. Code	N°	Die ø mm	Die thickness mm
F940502	2	18 x 13	43
F940504	4	22 x 16	43
F940506	6	27 x 20	45
F940508	8	34 x 23	53
F940510	10	39 x 28	53
F940512	12	45 x 32	61
F940514	14	50 x 37	68

BRUSHES

ITEM: F9420

Bristle radiator brushes that can be used with all paints, wooden nickel ferrule handle.



Tech. Code	Die width mm	Bristle length mm
F9420R20	20 x 9	40
F9420R30	30 x 9	47
F9420R40	40 x 9	47
F9420R50	50 x 9	53
F9420R60	60 x 9	60

MANUAL BRUSHES

WODEX

ITEM: WX6901

NEW

Handy and durable universal brushes with ergonomic plastic handle.

Version:
With corrugated brass-plated steel wires Ø 0.30 x 28 mm



Tech. Code	Wire	Handle	L mm
F946000	Brass-plated steel Ø 0.30	Red	260

ITEM: WX6902

NEW

Version:
With wavy stainless steel wires Ø 0.30 x 28 mm



Tech. Code	Wire	Handle	L mm
F946200	Stainless steel 0.30	Green	260

ITEM: WX6903

NEW

Version:
With corrugated brass wires Ø 0.30 x 28 mm



Tech. Code	Wire	Handle	L mm
F946400	Brass Ø 0.30	Yellow	260

ITEM: WX6904

NEW

Version:
With red polypropylene wire Ø 0.30 x 28 mm



Tech. Code	Wire	Handle	L mm
F946600	Polypropylene Ø 0.30	Blue	260

ITEM: WX6906

NEW

Handy and durable universal brushes with wooden handle.

Version:
With straight steel wires Ø 0.35 x 25 mm



Tech. Code	Wire	Ranges	L mm
F947000	Steel Ø 0.35	5	280

MANUAL BRUSHES

ITEM: F9505

Universal manual brushes with brass wires and wooden handle.



Tech. Code	Steel wire	Rows	Dimension mm
F95053	Brass 0,15	3	15 x 150
F95054	Brass 0,15	4	25 x 150
F95054/L	Brass 0,15	4	35 x 170

ITEM: F9506

Universal manual brushes with brass wires and wooden handle.



Tech. Code	Wire	Rows	Dimension mm
F95063	Steel 0,15	3	25 x 150

ITEM: F9520

SLIM brushes for better hand brushing of small surfaces or with small crevices, where it is impossible to work with traditional hand brushes.



Tech. Code	Wire	Rows	Dimension mm
F9520ACC	Steel	1	6 x 220
F9520OTT	Brass	1	6 x 220

SPATULAS

WODEX

ITEM: WX7245

Spatulas **Premium Quality** with stainless steel blade. Precision grinding guarantees perfect taper and adequate flexibility of the blade. Ergonomic bi-component handle made of polypropylene and non-slip thermoplastic rubber.



Tech. Code	Width mm	Thickness max mm	Thickness min mm
F9609030	30	1,35	0,35
F9609040	40	1,35	0,35
F9609060	60	1,35	0,35
F9609080	80	1,35	0,35
F9609100	100	1,35	0,35
F9609120	120	1,35	0,35

SPRAYERS WITH VAPORIZER

WODEX

ITEM: WX7020

Sprayers **Profi-Line** , with adjustable spray pump, suitable for use with moderately aggressive acid products. Polyethylene bottle, brass ring and Viton gasket.



Tech. Code	Capacity ml	Can Ø mm	Total height mm
F97701000	1000	100	305

SPRAY PUMPS FOR SPRAYERS WX7020

WODEX

ITEM: WX7020/SP

Spray pumps, complete, spare parts for sprayers with vaporizers WX7020



Tech. Code	Ring nut	Gaskets
F977100	Brass	Viton

SPRAYERS WITH VAPORIZER

ITEM: F9740

High density polyethylene.



Tech. Code	Capacity ml
F97401000	1000

PRESSURE OILERS

WODEX

ITEM: WX7000

Pressure oilers with top quality polyethylene can compliant with European accident prevention and safety regulations.

Version with spout and polyethylene cap.

Tech. Code	Capacity ml	Tank mm	Total height mm
F9750050	50	54 x 26	110



ITEM: WX7001

Version with spout and polyethylene cap.

Tech. Code	Capacity ml	Tank mm	Total height mm
F9751080	80	47 x 26	130



ITEM: WX7003

Version with spout and polyethylene cap.

Tech. Code	Capacity mm	Can Ø mm	Total height mm
F9753060	60	42	115



ITEM: WX7004

Version with spout and polyethylene cap.
Suitable for contact with food and compliant with EC 1935/2004 - EU 10/2011 standards

Tech. Code	Capacity ml	Can Ø mm	Total height mm
F97540250	250	60	220
F97540500	500	75	250



ITEM: WX7006

Version with fixed brass spout and polyethylene cap.

Tech. Code	Capacity ml	Can Ø mm	Total height mm
F97560125	125	50	220
F97560250	250	60	250
F97560500	500	75	280



LABORATORY PRESSURE SPRAYERS

WODEX

ITEM: WX7015

Pressure sprayers with high-grade polyethylene bottle compliant with European accident prevention and safety regulations.

Version with flexible spout and polyethylene anti-drip nozzle.
Suitable for contact with food and compliant with EC 1935/2004 - EU 10/2011 standards

Tech. Code	Capacity ml	Can Ø mm	Total height mm
F97650250	250	60	180
F97650500	500	75	210
F97651000	1000	95	250



PUMP OILERS

ITEM: WX7010



Premium Quality Made in Italy oilers suitable for continuous use in industries and machine shops. Tank, cap and handle are made of painted sheet metal, the brass pump can be used with all types of oil.
Warnings:
When using the oiler for the first time, put a few drops of oil into the pump according to the instructions on the packaging.
Version with rigid metal spout.

Tech. Code	Capacity ml
F9760200	200
F9760300	300
F9760500	500
F9760750	750

Replacement spout F9764R - WX7014-R

ITEM: WX7011



Version with flexible metal spout.

Tech. Code	Capacity ml
F9761200	200
F9761300	300
F9761500	500
F9761750	750

Replacement spout F9764F - WX7014-F

ITEM: WX7012



Lightweight, easy-to-handle **Premium Quality Made in Italy** oilers with semi-transparent, graduated high-density polyethylene tank. Handle, cap and pump are made of impact and low temperature resistant copolymer polypropylene.
Warnings:
When using the oiler for the first time, put a few drops of oil into the pump according to the instructions on the packaging.
Version with rigid spout.

Tech. Code	Capacity ml
F9762200	200
F9762300	300
F9762500	500

Replacement spout F9764R - WX7014-R

ITEM: WX7013



Version with flexible spout.

Tech. Code	Capacity ml
F9763200	200
F9763300	300
F9763500	500

Replacement spout F9764F - WX7014-F

PRESSURE SPRAYERS

ITEM: F9747



Pressure sprayers with big capacity mist spraying pump, with viton ring, for light oils, diesel fuel, detergent (not acid). Spout with adjustable nozzle and brass jet. Sturdy, polyethylene tank, with scaling.

Tech. Code	Capacity ml	Can
F97471250	1250	Yellow
F97472200	2200	Red

JUGS

ITEM: F9800

Measuring jugs made of high-density polypropylene.

Tech. Code	Capacity ml	Ø mm	Height mm
F98001000	1000	120	135
F98002000	2000	145	170
F98003000	3000	165	185
F98005000	5000	190	235



ITEM: F9813

Measuring jugs for oil made of high-density polypropylene.

Tech. Code	Capacity ml	Ø mm	Height mm
F98131000	1000	95	250
F98132000	2000	110	320
F98135000	5000	150	380



HEAVY DUTY BUCKET FOR POURING

ITEM: F9820

Measuring buket in polyethylene with pouring spout.

Tech. Code	Capacity L	upper ø mm	lower ø mm	Height mm
F982017	17	335	245	310



FUNNELS

ITEM: F9850

High-density polyethylene funnels complete with filter.

Tech. Code	Ø mm
F9850200	200
F9850250	250
F9850300	300



ITEM: F9870

Metal funnels complete with filter and removable flexible extension Ø 38 x 320 mm.

Tech. Code	Ø mm
F9870FLES	200




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WODEX

" HANDsome "



ABRASIVES

G



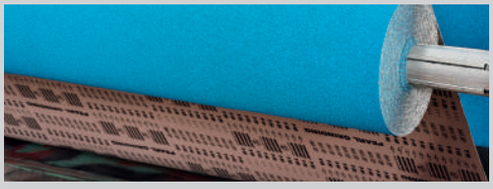
WODEX PFERD TOOLS NORTON 3M — 2 - 4 Cut-off & grinding wheels



WODEX WRK TYROLIT 3M — 5 - 10 Flap discs, non-woven fabric



3M PFERD TOOLS AVSM STARCKE — 11 - 16 Fibrediscs, quick change discs



STARCKE 3M NORTON WRK AVSM — 16 - 20 Abrasive rolls, sheets and belts



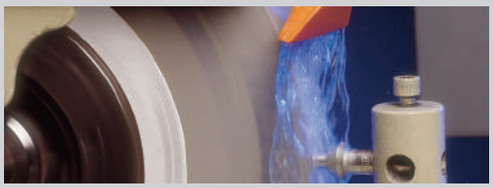
3M PFERD TOOLS WRK — 21 - 30 Flap wheels and brushes



PFERD TOOLS WRK WODEX — 31 - 37 Mounted points and felt polishing products Diamond pastes



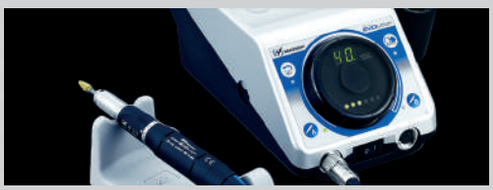
WODEX PFERD TOOLS — 38 - 44 Tungsten carbide burrs



NORTON TYROLIT WRK — 45 - 54 Bonded abrasive, diamond grinding wheel



WODEX PFERD TOOLS — 55 - 60 Engineering and needle files



NAKANISHI — 61 - 65 Polishing machines, mini-grinders

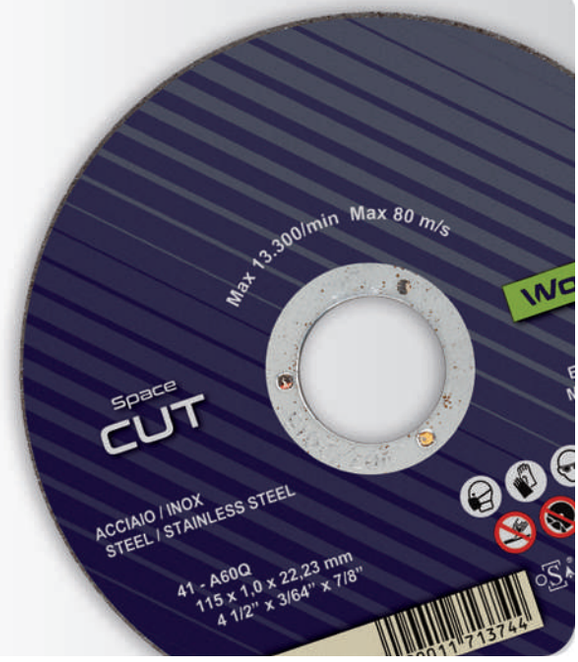
CUTTING-OFF AND GRINDING DISC - INSTRUCTIONS FOR USE

Grinding and cutting discs consist of abrasive grains,binding materials and additives, perfectly adapting to the electric and pneumatic angle grinders, fit for cutting and grinding on a wide range of materials.

All items herewith listed are free from additives that may contain iron, sulphur and chlorine.
All items should be used together with all the personal protective equipment (PPE) as stated by law and provided by employer..

FE	SS	AL	PL	WO
●○	●○	●○	●○	●○

● Recommended fot this material ○ Suitable for this material



CUTTING SPEED TABLE

Ø disc mm	115	125	180	230
Max speed (rpm)	13.200	12.200	8.500	6.600

FLAT CUTTING DISCS

WODEX

ITEM: SPACE CUT

Latest generation flat cutting discs, TOP QUALITY.
Excellent cutting performance and long service life.
Suitable for steel and stainless steel. To be used on angle grinders.

Tech. Code		G020711510	G020711516	G020712510	G020712516	G020723019
Ø	mm	115 x 1.0 x 22.2	115 x 1.6 x 22.2	125 x 1.0 x 22.2	125 x 1.6 x 22.2	230 x 1.9 x 22.2



FE	SS	AL	PL	WO
●	●	○		

FLAT CUTTING DISCS

NORTON SAINT-GOBAIN

ITEM: SUPER BLEUE 5

High performance. Suitable for steel and stainless steel. To be used on angle grinders.

Tech. Code		G021511510	G021511516	G021512510	G021512516	G021523019
Ø	mm	115 x 1.0 x 22.2	115 x 1.6 x 22.2	125 x 1.0 x 22.2	125 x 1.6 x 22.2	230 x 1.9 x 22.2



FE	SS	AL	PL	WO
●	●	○		

CUBITRON 3 FLAT CUTTING DISCS

3M

ITEM: CUBITRON 3

Cubitron 3 cutting disc. Ceramic abrasive characterised by an innovative grain shape of the latest generation, ideal for cutting metal in a variety of sectors, guaranteeing long life and speed. Suitable for all carpentry materials, improved performance compared to the previous version.

Tech. Code		G022111510	G022111516	G022112510	G022112516	G022123025
Ø	mm	115 x 1.0 x 22.2	115 x 1.6 x 22.2	125 x 1.0 x 22.2	125 x 1.6 x 22.2	230 x 2.5 x 22.2



FE	SS	AL	PL	WO
●	●	○		

FLAT CUTTING DISCS

ITEM: MULTICUT

Universal flat cutting discs. Suitable for cutting medium-small sections. To be used on angle grinders.

Tech. Code		G035011510	G035011516	G035012510	G035012516
Ø x S x F	mm	115 x 1,0 x 22,2	115 x 1,6 x 22,2	125 x 1,0 x 22,2	125 x 1,6 x 22,2



FE	SS	AL	PL	WO
●	●	○		

FLAT CUTTING DISCS

ITEM: SG STEELOX

Cutting discs of the latest generation with very high performance. Universal use on steel and stainless steel. High cutting performance and exceptional durability. Ideal for cutting sheet metal, profiles and solid material.

Tech. Code		G022311510	G022311516	G022312510	G022312516	G022323019
Ø	mm	115 x 1,0 x 22,23	115 x 1,6 x 22,23	125 x 1,0 x 22,23	125 x 1,6 x 22,23	230 x 1.9 x 22.23



FE	SS	AL	PL	WO
●	●	○		

DEPRESSED CENTRE CUTTING DISCS

ITEM: SUPER BLEUE 5

High performance. Suitable for steels and stainless steels. The depressed centre shape allows use of the flush clamping nut making it ideal for flush cuts. Use on angle grinders.

Tech. Code		G031211525	G031211532	G031212532	G031218032	G031223032
Ø	mm	115 x 2.5 x 22.2	115 x 3.2 x 22.2	125 x 3.2 x 22.2	180 x 3.2 x 22.2	230 x 3.2 x 22.2



FE	SS	AL	PL	WO
●	●	○		

FLAT CUTTING DISCS FOR NON-FERROUS MATERIALS

ITEM: G0314

Flat aluminum oxide cutting discs, ideal for processing Aluminum, Bronze, Copper, Brass and non-ferrous metals in general. This innovative disc structure avoids the clogging typical of these materials and guarantees fast and precise cuts.

Tech. Code		G031411510	G031411516	G031412510	G031412516
Ø	mm	115 x 1,0 x 22,23	115 x 1,6 x 22,23	125 x 1,0 x 22,23	125 x 1,6 x 22,23
Specification		A60N-BFP	A46N-BFP	A60N-BFP	A46N-BFP



FE	SS	AL	PL	WO
○		●		

NON-REINFORCED CUTTING DISCS

ITEM: G0405

Organic agglomerating aluminium oxide. Suitable for treated and hardened steels. Dry and wet use on stationary machines.

Tech. Code		G04051251016	G04051501016	G04051501020	G04051501616
Ø x S x F	mm	125 x 1.0 x 16	150 x 1.0 x 16	150 x 1,0 x 20	150 x 1.6 x 16
Specification		23A80-PB25	23A80-PB25	23A80-PB25	23A60-NB25

Tech. Code		G04051501620	G04051502016	G04051502020
Ø x S x F	mm	150 x 1,6 x 20	150 x 2.0 x 16	150 x 2,0 x 20
Specification		23A60-NB25	23A60-NB25	23A60-NB25



FE	SS	AL	PL	WO
●	●	○		

DEPRESSED CENTRE GRINDING DISCS

ITEM: SPACE GRIND

Depressed centre grinding wheels of the latest generation, TOP QUALITY. Great deburring and stock removal performance with high durability. Ideal on steels and stainless steels. Use on angle grinders.

Tech. Code		G031711570	G031712570	G031723070
Ø	mm	115 x 7.0 x 22.2	125 x 7.0 x 22.2	230 x 7.0 x 22.2



FE	SS	AL	PL	WO
●	●	○		

DEPRESSED CENTRE GRINDING DISCS

ITEM: SUPER BLEUE 5

High performance. Suitable for steel and stainless steel. To be used on angle grinders.

Tech. Code		G032511570	G032512570	G032518070	G032523070
Ø	mm	115 x 7.0 x 22.2	125 x 7.0 x 22.2	180 x 7.0 x 22.2	230 x 7.0 x 22.2



FE	SS	AL	PL	WO
●	●	○		

DEPRESSED CENTER GRINDING DISCS CUBITRON 3

ITEM: CUBITRON 3

Cubitron 3 depressed center grinding discs. Designed for the removal of heavy welds and other applications requiring high stock removal, excellent on many materials even if it is specifically formulated for stainless steel, mild steel and aerospace alloys. Improved performance compared to the previous version. Use on angle grinders of adequate power.

Tech. Code		G033111570	G033112570	G033123070
Ø	mm	115 x 7 x 22.2	125 x 7 x 22.2	230 x 7 x 22.2



FE	SS	AL	PL	WO
●	●	○		

CUBITRON 3 HYBRID CUTTING AND GRINDING DISCS

ITEM: CUT & GRINDING CUBITRON 3

Cubitron 3 hybrid disc for steel and stainless steel. The thickness of the discs makes them suitable for both cutting and deburring operations. The re-engineered grain with molecular bonding technology offers outstanding durability and fast stock removal performance. In certain operations its versatility guarantees significant time savings. Use on good power angle grinders.

Tech. Code		G033611542	G033612542	G033623042
Ø	mm	115 x 4.2 x 22.2	125 x 4.2 x 22.2	230 x 4.2 x 22.2



FE	SS	AL	PL	WO
●	●	○		

Related products

ANGLE GRINDERS

Tech. Code	Power W	No-load speed Rpm	Ø Grinding wheels mm
N421413125	1250	2800 - 11,500	125



The products are available in chapter N

FLAP GRINDING DISCS - INFORMATION FOR USE

Flap discs are typically used for grinding, chamfering or removal works in general.
They consist of abrasive flaps, slightly over lapped then glued by means of specific resins to plastic or fibreglass supports.
Their main feature is a consistent and even cutting thanks to the gradual consumption of the cloth and to its subsequent continuous renewal.
Used for angled grinding machines with adequate power to maximise performance.
They should be used together with all the personal protective equipment (PPE) as stated by law and provided by employer.

Abrasives didn't deemed to be harmful elements, but any way particular attention must be given to machining waste.



FE	SS	AL	PL	WO
● ○	● ○	● ○	● ○	● ○

● - RECOMMENDED FOR THIS MATERIAL
○ - SUITABLE FOR THIS MATERIAL

LEGEND OF ICONS MATERIAL

- A — Oxide of Aluminum
- A+ — Aluminum oxide Additivated
- Z — Zirconium
- Z+ — Additivated Zirconium
- SiC — Silicon carbide
- C — Ceramic
- C+ — Additivated Ceramic
- Z A — Zirconium Aluminum oxide
- Z A+ — Zirconium Aluminum oxide Additivated
- Z C — Zirconium Ceramic

FLAP DISCS ZIRCONIUM

WRK

Z

ITEM: FALCON FIBRA

Flap grinding discs with fiberglass backing and zirconium oxide cloth. Monolamellar-type execution with conic shaped backing pads. Cost-effective, high-performance product. The fiberglass support allows full consumption of the disc. For general use on steel, cast iron, aluminum and light alloys.



Tech. Code		G1214115040	G1214115060	G1214115080
Ø	mm	115 x 22.2	115 x 22.2	115 x 22.2
Grit		40	60	80

Tech. Code		G1214125040	G1214125060	G1214125080
Ø	mm	125 x 22.2	125 x 22.2	125 x 22.2
Grit		40	60	80

FE	SS	AL	PL	WO
●	●	○		

Z

ITEM: FALCON PLASTICA

Flap grinding discs with nylon backing and zirconium abrasive cloth. Monolamellar execution with flat shaped backing pads. High performance economical. Suitable for use on all stainless steel materials and also cast iron, aluminum and light alloys.



Tech. Code		G1218115040	G1218115060	G1218115080
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2
Grit		40	60	80

Tech. Code		G1218125040	G1218125060	G1218125080
Ø	mm	125 x 22,2	125 x 22,2	125 x 22,2
Grit		40	60	80

FE	SS	AL	PL	WO
●	●	○		

FLAP GRINDING DISCS

WRK

Z

ITEM: PYTHON FIBRA

Flap grinding discs in fiberglass and zirconium abrazive cloth. Bilamellar execution with conic shaped pads. Exploiting the abrasive cloth. The most wide spread in the world which guarantees an absolute balance between performance and profitability. Its fiberglass backing with conical geometry allows a uniform consumption of the cloth. Suitable for all types of stainless steel also cast Iron, alumium and light alloys.

Tech. Code		G1219115040	G1219115060	G1219115080	G1219115120
Ø	mm	115 x 22.2	115 x 22.2	115 x 22.2	115 x 22.2
Grit		40	60	80	120

Tech. Code		G1219125040	G1219125060	G1219180040	G1219180060
Ø	mm	125 x 22.2	125 x 22.2	180 x 22.2	180 x 22.2
Grit		40	60	40	60



FE	SS	AL	PL	WO
●	●	○		

Z

ITEM: PYTHON PLASTICA

Flap grinding discs with plastic backing and zirconium oxide cloth. double-sided excution with flat shaped back pad. Its abrasive cloth ensures long-lasting, quality performance. Ideal for stainless steel, as well as cast-iron, aluminum, light alloys.

Tech. Code		G1215115040	G1215115060	G1215115080	G1215115120
Ø	mm	115 x 22.2	115 x 22.2	115 x 22.2	115 x 22.2
Grit		40	60	80	120

Tech. Code		G1215125040	G1215125060	G1215180040	G1215180060
Ø	mm	125 x 22.2	125 x 22.2	180 x 22.2	180 x 22.2
Grit		40	60	40	60



FE	SS	AL	PL	WO
●	●	○		

ZIRCONIUM CLOTH FLAP DISCS

WODEX

Z

ITEM: TIGER

Flap disc with flat fibre backing and premium quality zirconium abrasive. Single-laminar execution. The large number of flap discs combined with their size ensure a long service life and higher stock removal. Suitable for all materials. Recommended for use with machines of appropriate power.

Tech. Code		G1221115040	G1221115060	G1221125040	G1221125060
Ø	mm	115	115	125	125
Grit		40	60	40	60



FE	SS	AL	PL	WO
●	●	○		

Z+

ITEM: RAVEN EVO PLASTICA

Flap disc with reinforced flat nylon backing for heavy-duty applications. Bi-laminar execution with zirconium additive coolant. Guarantees cool, self-lubricating operation. Above-average overlapping flap widths offer an increased abrasive surface and longer disc life. Ideal on steels, high-alloy and stainless steels, but also suitable for cast iron, aluminium and light alloys. Recommended for use with grinders of suitable power.

Tech. Code		G1224115040	G1224115060	G1224125040	G1224125060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22.2	125 x 22.2
Grit		40	60	40	60



FE	SS	AL	PL	WO
○	●	○		

FLAP DISCS ALUMINIUM OXIDE

WRK

A

ITEM: BULLDOG PLASTICA

Flap grinding discs with plastic backing and corundum abrasive cloth.
Mono lamellar feature with flat pad. Cost-effective, high-performance. Ideal on iron, plastic, polish, lacquer as well as on non-ferrous materials.

Tech. Code		G1230115040	G1230115060	G1230115080	G1230125040	G1230125060	G1230125080
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2	125 x 22,2	125 x 22,2	125 x 22,2
Grit		40	60	80	40	60	80



FE	SS	AL	PL	WO
●	○	○		

HIGH PERFORMANCE FLAP DISCS

WRK

Z A+

ITEM: RED DRAGON PLASTICA

Flap disc with reinforced plastic backing and M14 threaded coupling with ventilation holes. Zirconium and corundum additive abrasive cloth. Double-flap design with flat backing pad. The overlapping lamellae with a large width ensure an increase in lifetime while the combination of zirconium and corundum increases versatility. Does not overheat the machined material. The M14 thread of the backing pad allows direct mounting without the use of a classic clamping ring. Ideal on stainless steels, high-alloy steels but also suitable for cast iron, aluminium and light alloys. Recommended for use with medium and high power angle grinders.



Tech. Code		G1205115040	G1205115060	G1205125040	G1205125060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22,2	125 x 22,2
Grit		40	60	40	60

FE	SS	AL	PL	WO
●	●	○		

Z C

ITEM: BARRACUDA PLASTICA

Flap disc with thick reinforced plastic backing, zirconium abrasive cloth and ceramic abrasive. Bi-laminar execution with flat backing pad. Thanks to overlapping pairs of flap discs with a large width, an increased abrasive surface area and longer disc life are guaranteed. It speeds up grinding operations by exerting low pressure on very hard materials. Ideal on stainless steels, high-alloy steels but also suitable for cast iron and titanium. Recommended for use with good power grinders to ensure proper performance.



Tech. Code		G1240115040	G1240115060
Ø	mm	115 x 22,2	115 x 22,2
Grit		40	60

FE	SS	AL	PL	WO
●	●	○		

FLAP DISCS CARBIDE SILICON

WRK

SiC

ITEM: LION PLASTICA

Flap grinding discs with plastic backing and silicon carbide abrasive cloth. Bi-lamellar feature with flat back pad. Ideal on aluminum, copper, bronze, titanium, stone and high-alloy steels as well as for fibre reinforced synthetic materials.



Tech. Code		G1235115040	G1235115080	G1235115120	G1235115220
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2	115 x 22,2
Grit		40	80	120	220

Tech. Code		G1235180040	G1235180080	G1235180120	G1235180220
Ø	mm	180 x 22,2	180 x 22,2	180 x 22,2	180 x 22,2
Grit		40	80	120	220

FE	SS	AL	PL	WO
○		●	○	

CERAMIC FLAP DISCS

WODEX

C+

ITEM: CROCODILE

Flap disc with reinforced flat nylon backing and high quality ceramic abrasive. Additivated with coolant to ensure a cool cut even on materials such as stainless steel. Bi-lamellar execution, polyester backing. Disc designed for heavy-duty stock removal. Large sized and increased number of blades guarantee long blade life combined with the exceptional stock removal provided by the top quality ceramic granule. Ideal for heavy-duty use on all materials. Recommended for use on machines with adequate power.



Tech. Code		G1260115040	G1260115060	G1260125040	G1260125060
Ø	mm	115	115	125	125
Grit		40	60	40	60

FE	SS	AL	PL	WO
●	●	●		

C+

ITEM: SNAKE

Flap disc with flat nylon backing and high quality ceramic abrasive. Coolant additive. Single-laminar execution, polyester backing. The main feature of Snake flap discs is that they have a large number of smaller than standard sized flaps concentrated in the periphery of the backing. This arrangement allows the abrasive to wear off completely during grinding operations. Suitable for all materials. Recommended for use on machines with adequate power.



Tech. Code		G1265115040	G1265115060
Ø	mm	115	115
Grit		40	60

FE	SS	AL	PL	WO
●	●	●		

FLAP DISCS ZIRCONIUM STEARATE

WODEX

Z+

ITEM: HUSKY

Flap discs with fibre backing and zirconium stearate cloth. The stearate allows cold working and lower disc clogging. Ideal for low pressure machining of aluminium cast iron, brass, copper and all clogging materials.

Tech. Code		G1255115040	G1255115060
Ø	mm	115	115
Grain size		40	60



FE	SS	AL	PL	WO
○	●	●		

FLAT FLAP DISCS CUBITRON II

3M

C+

ITEM: 967/A CUBITRON II VERSIONE PIANA

Ceramic type flap discs Cubitron II. Fiber flat shaped. Precise cutting and quick grinding and weld removal, low heat development. Ideal for welding and deburring removal on steel, stainless steel, aluminum and non-ferrous metals.

Tech. Code		G1300115040	G1300115060	G1300115080
Ø	mm	115 x 22.2	115 x 22.2	115 x 22.2
Grit		40	60	80

Tech. Code		G1300125040	G1300125060	G1300125080
Ø	mm	125 x 22,2	125 x 22,2	125 x 22,2
Grit		40	60	80



FE	SS	AL	PL	WO
●	●	●		

SOFT FLAP GRINDING DISCS

WRK

Z

ITEM: FOX

Zirconium flap disc with glass fibre backing. The angularly arranged flaps are characterised by great flexibility comparable to that of a fibre disc but with a longer service life.
Particularly suitable for machining corners, shaped edges, corrugated surfaces, thin sheets or where low pressure is required. Cold cutting. Use on all materials with medium power grinders.
Operating speed 10,400 rpm (63 m/s)

Tech. Code		G1410115040	G1410115060	G1410115080
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2
Grit		40	60	80



FE	SS	AL	PL	WO
●	●	●		

SPARE RINGS FOR BACKING PADS

WRK

NEW

ITEM: G1412

Replacement ring nuts with M14 thread for angle grinders.

Tech. Code		G1412001	G1412002
Type		Low neck	High neck
Total H	mm	10	16,5



MINI-SOFT FLAP DISCS WITH QUICK COUPLING

WRK

Z

ITEM: MINI FOX

Shares the same Fox discs features, 50 mm diameter, Mini Fox guarantees full performance in restricted spaces.Pad in special Nylon with Roloc quick coupling.
Cutting speed 24000 rev. (63 m/s)

Tech. Code		G1415050040	G1415050060	G1415050080	G1415050120
Ø	mm	50	50	50	50
Grit		40	60	80	120



FE	SS	AL	PL	WO
●	●	●		

QUICK COUPLING ARBORS

3M

ITEM: 9884

Quick coupling Roloc arbor to be used with Mini Fox flap discs 6-mm guide.

Tech. Code		G1416025
ø	mm	25



NORTON
SAINT-GOBAIN
WINTER

ABRASIVE SOLUTIONS FOR INDUSTRY

Transforming surfaces ...and beyond



BONDED ABRASIVES



COATED ABRASIVES



SUPER ABRASIVES



CUTTING AND GRINDING WHEELS





SAINT-GOBAIN

SURFACE TREATMENT DISCS

WODEX

ITEM: POLISH TNT

Non-woven disc impregnated with Silicon Carbide abrasive grains on a glass fibre backing.
Characterised by a **closed mesh,** it enables the removal of slight imperfections left by the use of flap discs to achieve excellent polishing. It is low-noise and is particularly recommended for working on stainless steel, but also on all other ferrous surfaces, as well as on plastics, wood, marble and glass, or in any case on all surfaces where excellent degrees of finish are desired.
Use on angle grinders at a speed of 8,300 rpm (50 m/s).



Tech. Code		G1421115
Ø	mm	115 x 22.2
Grain size		Soft

FE	SS	AL	PL	WO
●	●	○	○	

ITEM: SURFACE TNT

Non-woven flap discs with fibreglass backing plate.
Special Nylon thread flaps impregnated with abrasive grit ensure consistent finishing throughout the entire process. Low noise. Allows a high degree of finish to be obtained on iron, stainless steel, aluminium, titanium, fibreglass, non-ferrous materials, plastics, paints and lacquers. The level of finish depends on the type of disc chosen.
Use on angle grinders at 10,400 rpm (63 m/s)



Tech. Code		G1426115C	G1426115M	G1426115VF
Ø	mm	115 x 22.2	115 x 22.2	115 x 22.2
Grain size		Coarse	Medium	Very fine

FE	SS	AL	PL	WO
●	●	●	○	

ITEM: CLEAN TNT

Non-woven disc impregnated with Silicon Carbide abrasive grains with glass fibre backing. Characterised by an **open mesh**, it allows the removal of material without clogging. Can be cleaned with compressed air. Low noise level. Leaves no contaminants. Can be used on all materials.
Use on angle grinders at 8,300 rpm (50 m/s).



Tech. Code		G1431115
Ø	mm	115 x 22.2
Grain size		Coarse

FE	SS	AL	PL	WO
●	●	●	○	○

UNITIZED DISCS

TYROLIT

ITEM: G1445

Untized discs, obtained from pressed layers of non-woven fabric, guarantee an excellent surface finish,cold grinding, reduced clogging and long life. The 3SF version in Silicon Carbide is more flexible and suitable for small burrs, cleaning of welding traces and polishing. The more rigid and agrresive 6AM version in Aluminum Oxide is suitable for burrs and bevels even on edges. 22.23 mm hole for use on angle grinders. Max speed 10,000 RPM - Recommended 5,000RPM



Tech. Code		G144512763SF	G144512766AM
Ø x L	mm	127 x 6	127 x 6
Grit		3SF	6AM

FE	SS	AL	PL	WO
●	●	●	○	

ALUMINUM OXIDE ABRASIVE FIBER DISCS

VSM

A

ITEM: KF708

Used for general machining from roughing to finishing of all metals, in particular non-ferrous materials.



Tech. Code		G2000115036	G2000115060	G2000125036	G2000125060	G2000180036	G2000180060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22.2	125 x 22.2	180 x 22.2	180 x 22.2
Grit		36	60	36	60	36	60

FE	SS	AL	PL	WO
●	○	●		

ZIRCONIA ABRASIVE FIBER DISCS

VSM

Z

ITEM: ZF713

Thanks to the high removal capacity of the zirconium they are indicated for heavy work.
They are recommended for use on high-power grinders.



Tech. Code		G2100115036	G2100115060	G2100125036	G2100125060	G2100180036	G2100180060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22.2	125 x 22.2	180 x 22.2	180 x 22.2
Grit		36	60	36	60	36	60

FE	SS	AL	PL	WO
●	●	○		

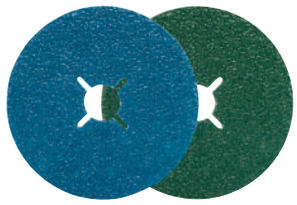
ACTIROX FIBERED DISCS

C

ITEM: AF979 - AF799

Fibre disc with the latest generation ceramic abrasive, featuring an innovative grain shape. Outstanding performance in terms of tool life and stock removal. Suitable for all steels and tough materials. Abrasive AF979 for grit 36 and AF799 for grit 60. To maximise performance, use with backing pad G2127.

Tech. Code		G212611536A	G212611560	G212612536A	G212612560	G212618036A	G212618060
Ø	mm	115	115	125	125	180	180
Grit		36	60	36	60	36	60



FE	SS	AL	PL	WO
●	○	○		

FIBER DISCS ACTIROX ADDITIVE

C+

ITEM: AF890

Fiber discs with latest generation ceramic abrasive with additives, characterized by an innovative grain shape. It offers extraordinary removal performance and long life. Suitable for all materials and in particular for working stainless steel. Only available in 36 grit, to maximize yield we recommend using it with the G2127 backing pad.

Tech. Code		G212511536	G212511560	G212512536	G212512560	G212518036	G212518060
Ø	mm	115	115	125	125	180	180
Grain		36	60	36	60	36	60



FE	SS	AL	PL	WO
○	●	●		

FIBER DISCS CERABOND X

C+

ITEM: CERABOND X

Ceramic fiber discs for steel and stainless steel processing. The new grain structure allows for extremely fast stock removal- The coolant layer makes the disc long-lasting and performing. Great working uniformity for the entire duration of the disc. The convenient bucket box version guarantees the shape of the disc over time.

Tech. Code		G212811536	G212811560	G212812536	G212812560
Ø	mm	115	115	125	125
Grain		36	60	36	60
Box		Box	Box	Box	Box

Tech. Code		G212811536BOX	G212811560BOX	G212812536BOX	G212812560BOX
Ø	mm	115	115	125	125
Grain		36	60	36	60
Box		Bucket	Bucket	Bucket	Bucket



FE	SS	AL	PL	WO
●	●	○		

ABRASIVE DISCS CUBITRON II

C

ITEM: 982 C

Fibre disc with ceramic abrasive Cubitron II. It has the characteristic of having the grains of constant shape and all oriented in the same way. Of extraordinary hardness, it maintains its sharpness during machining despite wear. In large stock removal it gives optimum results in terms of tool life and working speed, ensuring higher productivity. Predominantly used on carbon steels.

Tech. Code		G2180115036	G2180115060	G2180125036	G2180125060	G2180180036	G2180180060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22.2	125 x 22.2	180 x 22.2	180 x 22,2
Grit		36	60	36	60	36	60



FE	SS	AL	PL	WO
●	○			

ABRASIVE DISCS CUBITRON 3

C

ITEM: 1182C

New 3M™ Cubitron™ 3 1182C fibre disc, includes redesigned 3M Precision Shaped Grain technology, which takes abrasive speed and durability to the next level. For medium and high stock removal applications. Reduced vibration on hands and arms. Designed for use with angle grinders of suitable power or for automated processes such as robotic grinding of welds.

Tech. Code		G2182115036	G2182115060	G2182125036	G2182125060	G2182180036	G2182180060
Ø	mm	115 x 22,2	115 x 22,2	125 x 22,2	125 x 22,2	180 x 22,2	180 x 22,2
Grain		36	60	36	60	36	60



FE	SS	AL	PL	WO
●	○			

ABRASIVE DISCS CUBITRON II WITH ADDITIVATES

C+

ITEM: 987 C

Fibre disc with ceramic abrasive Cubitron II treated with cooling additive. It has the characteristic of having the grains of constant shape and all oriented in the same way. Of extraordinary hardness, it maintains its sharpness during machining despite wear. In large stock removal it gives optimal results in terms of tool life and working speed, ensuring higher productivity. Suitable for machining stainless steel, nickel alloy and all heat-sensitive materials.



FE	SS	AL	PL	WO
○	●	●		

Tech. Code		G2185115036	G2185115060	G2185115080	G2185125036	G2185125060
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2	125 x 22,2	125 x 22,2
Grit		36	60	80	36	60

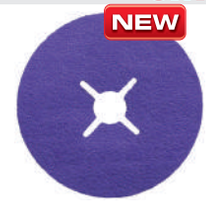
Tech. Code		G2185125080	G2185180036	G2185180060	G2185180080
Ø	mm	125 x 22,2	180 x 22,2	180 x 22,2	180 x 22,2
Grit		80	36	60	80

CUBITRON 3 FIBRE DISCS WITH ADDITIVES

C+

ITEM: 1187C

New 3M Cubitron 3 fibre disc, designed with sharp, angled structures that continuously fracture to form sharp points, for uniform use and less heat development. Includes a grinding cooling additive that helps reduce metal discolouration and the risk of stress cracking on heat-sensitive alloys such as stainless steel and non-ferrous metals.



FE	SS	AL	PL	WO
○	●	●		

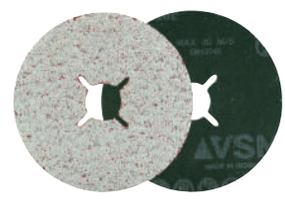
Tech. Code		G2188115036	G2188115060	G2188125036	G2188125060	G2188180036	G2188180060
Ø	mm	115 x 22,2	115 x 22,2	125 x 22,2	125 x 22,2	180 x 22,2	180 x 22,2
Grit		36	60	36	60	36	60

FIBER DISCS STEARATE CERAMIC

C+

ITEM: XF733

Ceramic fiber discs with stearate. Ideal for processing aluminum and its alloys. Thanks to the lubricating property of zinc stearate is solves many of the problems associated with the processing of material with low melting points. In addition, the ceramic abrasive offers a high removal capacity. Ideal for removing calamine.



FE	SS	AL	PL	WO
○	●	●		

Tech. Code		G2123115036	G2123115060	G2123125036	G2123125060
Ø	mm	115	115	125	125
Grit		36	60	36	60

AGGLOMERATED FIBER DISC

A

ITEM: KF736

The agglomerated fiber disc thanks to the particular shape of the abrasive granules offers an extraordinary performance in terms of durability and constant finish. Exceptional in finishing operations on stainless steel where it eliminates many steps.



FE	SS	AL	PL	WO
○	●	○		

Tech. Code		G2130115120	G2130115180	G2130125120	G2130125180	G2130180120	G2130180180
Ø	mm	115	115	125	125	180	180
Grit		120	180	120	180	120	180

BACK-UP PADS MEDIUM/HARD FOR FIBER DISCS

ITEM: G2149

Back-up pads medium/hard for fiber discs. Ideal for working with processes of medium pressure and fine grits.



Tech. Code		G2149115	G2149125	G2149180
Ø	mm	115	125	180
Coupling		M14	M14	M14

BACK-UP PADS FOR FIBER DISCS

ITEM: G2150

Back-up pads hard for discs in fiber. Ideal for severe removal. With holes to reduce the temperature of the processing.



Tech. Code		G2150115	G2150125	G2150180
Ø	mm	115	125	180
Coupling		M14	M14	M14

BACK UP PADS HARD FOR FIBER DISCS ACTIROX

ITEM: TURBO PAD 3

Back up pads hard suitable for processing with ACTIROX fiber discs. It improves performance and durability significantly.



Tech. Code		G2127115	G2127125	G2127180
Ø	mm	115	125	180
Coupling		M14	M14	M14

BACK-UP PADS FOR CUBITRON II FIBER DISCS

ITEM: 64860 - 64861 - 64862

Specific rigid backing pads for Cubitron II® 982 C and 987 C fibre discs



Tech. Code		G2190115	G2190125	G2190180
Ø	mm	115	125	180

VELCRO COATED CORUNDUM ABRASIVE DISCS

A

ITEM: 732EK

Aluminium oxide. Heavy paper backing type E. Mainly used for sanding flat metal surfaces, especially stainless steel, and rough wood. Semi-open anti-clogging coating.
Disc without holes.



FE	SS	AL	PL	WO
●	●	○	○	●

Tech. Code		G2250150040	G2250150060	G2250150080	G2250150100	G2250150120
Ø	mm	150	150	150	150	150
Grit		40	60	80	100	120
Type		without holes	without holes	without holes	without holes	without holes

VELCRO COATED ABRASIVE DISCS HOLED CORUNDUM

A

ITEM: 732EK

Aluminium oxide. Heavy paper backing type E. Mainly used for sanding flat metal surfaces, especially stainless steel, and rough wood. Semi-open anti-clogging coating. The disc has 6+1 holes.



FE	SS	AL	PL	WO
●	●	○	○	●

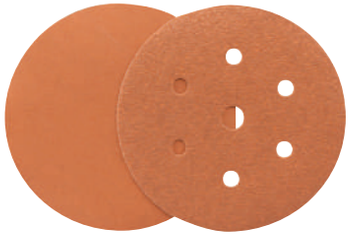
Tech. Code		G2300150040	G2300150060	G2300150080	G2300150100	G2300150120
Ø	mm	150	150	150	150	150
Grit		40	60	80	100	120
Type		6+1 Holes	6+1 Holes	6+1 Holes	6+1 Holes	6+1 Holes

VELCROME COATED ABRASIVE DISCS HOLED CORUNDUM

A+

ITEM: 542B7K

Aluminium oxide, light C-weight paper backing, with cooling additive. Particularly suitable for sanding all metal surfaces. Available without holes or with 6 holes plus centre. Other dimensions and grits available on request.



FE	SS	AL	PL	WO
●	●	●	○	○

Tech. Code		G2303150150	G2303150180	G2303150240	G2303150320	G2303150400
Ø	mm	150	150	150	150	150
Grain		150	180	240	320	400
Type		without holes	without holes	without holes	without holes	without holes

Tech. Code		G2303150150F6	G2303150180F6	G2303150240F6	G2303150320F6	G2303150400F6
Ø	mm	150	150	150	150	150
Grain		150	180	240	320	400
Type		6+1 holes	6+1 holes	6+1 holes	6+1 holes	6+1 holes

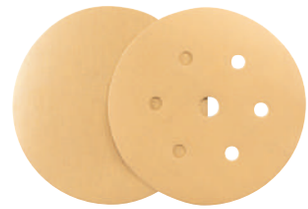
VELCRO COATED ABRASIVE DISCS HOLED CORUNDUM

STARCKE

A+

ITEM: 544C3K

Aluminium oxide, light C-weight paper backing, with stearate layer that prevents the abrasive from clogging prematurely. Suitable for sanding aluminium shells, acrylic and melamine paints, primers and plastic parts. Available without holes or with 6 holes plus centre. Other dimensions and grits available on request.



Tech. Code		G2306150150	G2306150180	G2306150240	G2306150320	G2306150400
Ø	mm	150	150	150	150	150
Grain		150	180	240	320	400
Type		without holes	without holes	without holes	without holes	without holes

Tech. Code		G2306150150F6	G2306150180F6	G2306150240F6	G2306150320F6	G2306150400F6
Ø	mm	150	150	150	150	150
Grain		150	180	240	320	400
Type		6+1 holes	6+1 holes	6+1 holes	6+1 holes	6+1 holes

FE	SS	AL	PL	WO
○	○	●	●	●

ZIRCONIUM VELCRO COATED ABRASIVE DISCS

STARCKE

Z

ITEM: 341XK

Zirconium coated abrasive discs with sturdy canvas backing. Suitable for heavy use. High stock removal. It is recommended to use it with grinders of adequate power.



Tech. Code		G2310115040	G2310115060	G2310115080	G2310115120
Ø	mm	115	115	115	115
Grain		40	60	80	120

Tech. Code		G2310125040	G2310125060	G2310125080	G2310125120
Ø	mm	125	125	125	125
Grain		40	60	80	120

Tech. Code		G2310150040	G2310150060	G2310150080	G2310150120
Ø	mm	150	150	150	150
Grain		40	60	80	120

FE	SS	AL	PL	WO
●	●	○		

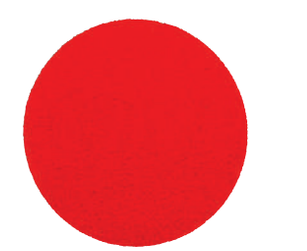
CERAMIC VELCRO COATED DISCS

VSM

C+

ITEM: XK870K

Discs with ceramic grain and sturdy polyester cloth. Exceptional stock removal capacity. Additives with coolants to allow a cold cut. Very efficient in the processing of hard and stainless steel.



Tech. Code		G2315115060	G2315115080	G2315115120	G2315125060	G2315125080
Ø	mm	115	115	115	125	125
Grain		60	80	120	60	80

Tech. Code		G2315125120	G2315150060	G2315150080	G2315150120
Ø	mm	125	150	150	150
Grain		120	60	80	120

FE	SS	AL	PL	WO
●	●	●		

AGGLOMERATED VELCRO DISC

VSM

A

ITEM: KK772K

The agglomerated velcro disc thanks to the particular shape of the abrasive granules offers an extraordinary performance in terms of durability and constand finish. Exceptional in finishing operations on stainless steel where it eliminates many steps. Indispensable to prepare the piece for the mirror finish.



Tech. Code		G23201150120	G23201150240	G23201150320	G23201150600	G23201151200
Ø	mm	115	115	115	115	115
Grit		120	240	320	600	1200

Tech. Code		G23201500120	G23201500240	G23201500320	G23201500600	G23201501200
Ø	mm	150	150	150	150	150
Grit		120	240	320	600	1200

FE	SS	AL	PL	WO
○	●	○		

VELCRO DISCS FOR SUPERFINISHING

ITEM: TR-K

Velcro discs with pyramid-shaped abrasive. Homogeneous finish. Reinforced stand ensures long life. Exceptional in the preparation of mirror polishing on stainless steel.
On request also available in diameter 125 and 150



Tech. Code		G2335115065	G2335115045	G2335115030	G2335115016	G2335115006
Ø	mm	115	115	115	115	115
Grit		A65	A45	A30	A16	A6

FE	SS	AL	PL	WO
○	●			

G

WAFFLE BACKING FOR VELCRO DISCS

ITEM: G2350

Back cover for velcro-coated discs with spongy inter-layer.



Tech. Code		G2350115M14	G2350150M14	G2350150M87F
Ø	mm	115	150	150 - 6+1 holes
Coupling		M14	M14	M8 (5/16")

ALUMINUM OXIDE QUICK CHANGE DISCS

A

ITEM: KK711X

Quick change discs with R type male thread aluminum oxide cloth. Suitable for general use in roughing small surfaces on all types of metals and particulary on ferrous metals. The quick change allows a fast tool replacement by optimizing work processes and reducing costs.



FE	SS	AL	PL	WO
●	○			

Tech. Code		G241050R036	G241050R060	G241050R080	G241050R120
Ø	mm	50	50	50	50
Coupling		Male thread type R	Male thread type R	Male thread type R	Male thread type R
Grit		36	60	80	120

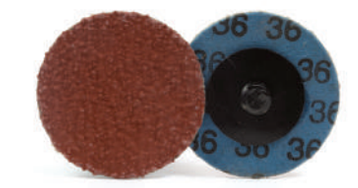
Tech. Code		G241075R036	G241075R060	G241075R080	G241075R120
Ø	mm	75	75	75	75
Coupling		Male thread type R	Male thread type R	Male thread type R	Male thread type R
Grit		36	60	80	120

CERAMIC QUICK CHANGE DISCS

C+

ITEM: XK880Y

Quick change discs with male thread type R. Latest generation ceramic cloth with cooling additive. Polyester support. Suitable for roughing small surfaces mainly of alloy steel and stainless steel. The quick change allows a quick replacement of the tool optimizing the work processes and reducing costs.



FE	SS	AL	PL	WO
●	●	●		

Tech. Code		G242050R036	G242050R060	G242050R080	G242050R120
Ø	mm	50	50	50	50
Coupling		Male thread type R	Male thread type R	Male thread type R	Male thread type R
Grit		36	60	80	120

Tech. Code		G242075R036	G242075R060	G242075R080	G242075R120
Ø	mm	75	75	75	75
Coupling		Male thread type R	Male thread type R	Male thread type R	Male thread type R
Grit		36	60	80	120

CLOTH QUICK CHANGE DISCS

ITEM: SCM - KV707X

Quick change discs type R in cloth. Suitable for satin finishing and cleaning operations of metal surfaces. Very low material removal. The quick change allows a quick replacement of the tool by optimizing work processes and reducing costs.



FE	SS	AL	PL	WO
●	●	●	●	○

Tech. Code		G2430R50M	G2430R50VF	G2430R75M	G2430R75VF
Ø	mm	50	50	75	75
Coupling		Male thread type R	Male thread type R	Male thread type R	Male thread type R
Grit		Medium	Very fine	Medium	Very fine

BACKING PADS FOR QUICK CHANGE DISCS TYPE R

ITEM: G2440

Backing pads for discs with male thread type R.



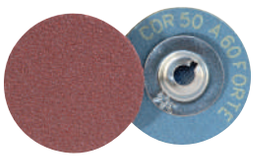
Tech. Code		G2440R25	G2440R50	G2440R75	G244075M14
Ø	mm	25	50	75	75
Coupling type		R	R	R	R
Shank	mm	6	6	6	M14

ALUMINUM OXIDE COMBI-DISCS

A

ITEM: CD FORTE

Corundum abrasive a vlies support, high removal.Suitable for general use on all metals.For use on SBH pads.



FE	SS	AL	PL	WO
●	●	○		

Tech. Code		G245025060	G245025120	G245038060	G245038120	G245050060	G245050120
Ø	mm	25	25	38	38	50	50
Grit		60	120	60	120	60	120

COMBI-DISC BACKING PADS

PFERD TOOLS

ITEM: SBH

Semi-rigid, blue, suitable for CD grinding discs.



Tech. Code		G246025	G246038	G246050
Ø	mm	25	38	50
Shank	mm	6 x 40	6 x 40	6 x 40

ALUMINUM OXIDE CLOTH SHEETS

STARCKE

A

ITEM: 641PF

Light flexible and cotton support, resin binder and corundum abrasive. Versatile long-lasting product.
Mainly used for grinding metals by hand, profile finishing and blanking burs, mechanical part finishing, cylinders and goose necks.



FE	SS	AL	PL	WO
●	●	●	●	●

Tech. Code	Dimension mm	Grit
G3250040	230 x 280	40
G3250050	230 x 280	50
G3250060	230 x 280	60
G3250080	230 x 280	80
G3250100	230 x 280	100
G3250120	230 x 280	120
G3250150	230 x 280	150
G3250180	230 x 280	180

Tech. Code	Dimension mm	Grit
G3250220	230 x 280	220
G3250240	230 x 280	240
G3250280	230 x 280	280
G3250320	230 x 280	320
G3250400	230 x 280	400
G3250500	230 x 280	500
G3250600	230 x 280	600

ALUMINUM OXIDE CLOTH SHEETS

NORTON SAINT-GOBAIN

A

ITEM: R222

Light and flexible cotton support, resin binder and corundum abrasive.
Suitable for roughing, finishing and deoxidizing metals. Excellent also for wood machining.



FE	SS	AL	PL	WO
●	●	●	●	●

Tech. Code	Dimension mm	Grit
G3205040	230 x 280	40
G3205050	230 x 280	50
G3205060	230 x 280	60
G3205080	230 x 280	80
G3205100	230 x 280	100
G3205120	230 x 280	120
G3205150	230 x 280	150

Tech. Code	Dimension mm	Grit
G3205180	230 x 280	180
G3205220	230 x 280	220
G3205240	230 x 280	240
G3205280	230 x 280	280
G3205320	230 x 280	320
G3205400	230 x 280	400
G3205600	230 x 280	600

WATERPROOF SILICON CARBIDE SHEETS

STARCKE

SiC

ITEM: 991A

For hand work, in particular on glass and paint, and for wet-sanding repair work on automobiles.



FE	SS	AL	PL	WO
●	○	●	●	○

Tech. Code	Dimension mm	Grit
G3380080	230 x 280	80
G3380100	230 x 280	100
G3380120	230 x 280	120
G3380150	230 x 280	150
G3380220	230 x 280	220
G3380320	230 x 280	320
G3380400	230 x 280	400
G3380600	230 x 280	600

Tech. Code	Dimension mm	Grit
G3380800	230 x 280	800
G33801000	230 x 280	1000
G33801200	230 x 280	1200
G33801500	230 x 280	1500
G33802000	230 x 280	2000
G33802500	230 x 280	2500
G33803000	230 x 280	3000
G33805000	230 x 280	5000

WATERPROOF SILICON CARBIDE SHEETS

3M

SiC

ITEM: WT734

Silicon carbide. Suitable for wet-machining stucco, priming and paint.



FE	SS	AL	PL	WO
●	○	●	●	○

Tech. Code	Dimension mm	Grit
G3405080	230 x 280	80
G3405120	230 x 280	120
G3405180	230 x 280	180
G3405220	230 x 280	220
G3405320	230 x 280	320

Tech. Code	Dimension mm	Grit
G3405400	230 x 280	400
G3405600	230 x 280	600
G3405800	230 x 280	800
G34051000	230 x 280	1000
G34051200	230 x 280	1200

ABRASIVE SPONGES ON 4 SIDES

NORTON SAINT-GOBAIN

A

ITEM: G3415

Abrasive sponges on 4 sides. Suitable for working on mutiple materials. Being made of sponge allows it to distribute the loads to work at its best even on irregular surfaces. Thesponges are washable and reusable ensuring a long life at the same time.

Tech. Code		G3415060	G3415100	G3415180
Dimension	mm	100 x 66 x 26	100 x 66 x 26	100 x 66 x 26
Grit		60	100	180



FE	SS	AL	PL	WO
●	●	●	○	●

NON-WOVEN ABRASIVE PADS

WRK

A SiC

ITEM: G3710

Abrasive cloth pads suitable for manual masking and cleaning operations on ferrous and non-ferrous metals, stainless steel, synthetics, fillers and paints. Usable both wet and dry, they render surfaces matt and satin-finished.
A/O - Aluminium Oxide
S/C - Silicon Carbide
GREEN - A/O for general use

Tech. Code		G37102AM	G37103AF	G37104AVF	G37107SVF	G37108SUF	G37105GR
Dimension	mm	120 x 280	120 x 280	120 x 280	120 x 280	120 x 280	120 x 280
Grain		A/O Medium	A/O Fine	A/O Very Fine	S/C Very Fine	S/C Ultra Fine	Green A/O Fine



FE	SS	AL	PL	WO
●	●	●	○	●

ABRASIVE CLEAN & FINISH PADS IN NON-WOVEN SCOTCH-BRITE

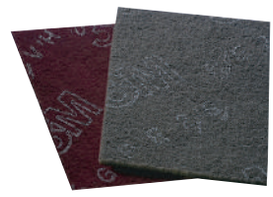
3M

A SiC

ITEM: CF-SH

Scotch-Brite abrasive material pads for cleaning and finishing.
Type A: Aluminum Oxide. Used for cleaning or re-polishing steel and aluminum.
Type S: Silicon Carbide. Used on the wood to prepare the surfaces before applying adhesives and to eliminate the raised fibers before and after applying the primer.

Tech. Code		G3720AVFN	G3720SUFN
Dimension	mm	120 x 280	120 x 280
Grit		A/VFN	S/UFN



FE	SS	AL	PL	WO
●	●	●	○	●

ALUMINUM OXIDE FLEX ABRASIVE CLOTH ROLLS

NORTON SAINT-GOBAIN

A

ITEM: G3300

Norton 222 aluminum oxide. Super-flexible cotton cloth, weight. Ideal for roughing, finishing and deoxidizing of metals. Excellent also for wood machining. 25-meter dispenser.

Tech. Code	H mm	Grit	Dispenser m
G330025040	25	40	25
G330025050	25	50	25
G330025060	25	60	25
G330025080	25	80	25
G330025100	25	100	25
G330025120	25	120	25
G330025150	25	150	25

Tech. Code	H mm	Grit	Dispenser m
G330025180	25	180	25
G330025220	25	220	25
G330025240	25	240	25
G330025320	25	320	25
G330025400	25	400	25
G330025600	25	600	25



FE	SS	AL	PL	WO
●	●	●	○	●

A

ITEM: G3302

Norton R222 Aluminum oxide. Super-flexible cotton cloth. Ideal for roughing, finishing and deoxidizing of metals. Excellent also for wood machining. 25-meter dispenser.

Tech. Code	H mm	Grit	Dispenser m
G330238040	38	40	25
G330238050	38	50	25
G330238060	38	60	25
G330238080	38	80	25
G330238100	38	100	25
G330238120	38	120	25
G330238150	38	150	25

Tech. Code	H mm	Grit	Dispenser m
G330238180	38	180	25
G330238220	38	220	25
G330238240	38	240	25
G330238280	38	280	25
G330238320	38	320	25
G330238400	38	400	25
G330238600	38	600	25



FE	SS	AL	PL	WO
●	●	●	○	●

ALUMINUM OXIDE FLEX ABRASIVE CLOTH ROLLS

NORTON SAINT-GOBAIN

A

ITEM: G3305

Norton 222 Aluminum oxide. Super-flexible cotton cloth, suitable for roughing, finishing and deoxidizing metals.
Excellent also for wood machining. 25-meter dispenser.



Tech. Code	H mm	Grit	Dispenser m
G330550040	50	40	25
G330550050	50	50	25
G330550060	50	60	25
G330550080	50	80	25
G330550100	50	100	25
G330550120	50	120	25
G330550150	50	150	25

Tech. Code	H mm	Grit	Dispenser m
G330550180	50	180	25
G330550220	50	220	25
G330550240	50	240	25
G330550280	50	280	25
G330550320	50	320	25
G330550400	50	400	25
G330550600	50	600	25

FE	SS	AL	PL	WO
●	●	●	○	●

ALUMINUM OXIDE ABRASIVE CLOTH ROLLS

STARCKE

A

ITEM: 641PF

Resin coated corundum cloth with light and flexible cotton support. Optimal for all metal grinding by hand. Use by hand to grind hard to reach spots. Thanks to the hight flexibility ideal for grinding and finishing concave and convex details. The strength of the support and the abrasive allow its use on all types of material.

50 mt



Tech. Code	H mm	Grit	Roll m
G335050040	50	40	50
G335050050	50	50	50
G335050060	50	60	50
G335050080	50	80	50
G335050100	50	100	50
G335050120	50	120	50
G335050150	50	150	50
G335050180	50	180	50

Tech. Code	H mm	Grit	Roll m
G335050220	50	220	50
G335050240	50	240	50
G335050280	50	280	50
G335050320	50	320	50
G335050400	50	400	50
G335050500	50	500	50
G335050600	50	600	50

FE	SS	AL	PL	WO
●	●	●	○	●

A

ITEM: 641PF

Corundum grained, resin-coated cloth with a light and flexible cotton backing. Optimised for hand grinding of all kinds of metal. Ideal for sanding hard-to-reach areas. Highly flexible cloth, ideal for finishing operations of cancave and convex detailed workpieces. The combination of a tough cloth back with the abrasive grit firmly anchored make it ideal on all material surfaces.

50 mt



Tech. Code	H mm	Grit	Dispenser m
G3355115060	115	60	50
G3355115080	115	80	50
G3355115100	115	100	50
G3355115120	115	120	50

Tech. Code	H mm	Grit	Dispenser m
G3355115150	115	150	50
G3355115180	115	180	50
G3355115220	115	220	50
G3355115240	115	240	50

FE	SS	AL	PL	WO
●	●	●	○	●

ALUMINUM OXIDE FLEX ABRASIVE CLOTHS ROLLS

STARCKE

A

ITEM: 531JFF

Corindone cloths with cotton support, extra flexible version.
Ideal for mould makers.

50 mt



Tech. Code	H mm	Grit	Roll m
G335150060	50	60	50
G335150080	50	80	50
G335150100	50	100	50
G335150120	50	120	50
G335150150	50	150	50
G335150180	50	180	50

Tech. Code	H mm	Grit	Roll m
G335150220	50	220	50
G335150240	50	240	50
G335150320	50	320	50
G335150400	50	400	50
G335150600	50	600	50
G335150800	50	800	50

FE	SS	AL	PL	WO
●	●	●	○	●

ABRASIVE CLEAN & FINISH ROLLS

WRK

A

ITEM: G3630

Used manually for removing oxidation and cleaning all metals, plastics, fibreglass, fillers and paints. Excellent resistance to clogging. Can be used both dry and wet. They can be cut to size to fit any workpiece contour. Aluminium oxide provides greater stock removal on wood, paint and steel, while silicon carbide leaves a better satin surface and is recommended for finishing particularly hard materials.
Type A: Aluminium Oxide.
S Type: Silicon Carbide



Tech. Code	Dimension mm	Grit
G3630AC	120 x 10,000	A-COARSE
G3630AM	120 x 10,000	A-MEDIUM
G3630AF	120 x 10,000	A-FINE

Tech. Code	Dimension mm	Grit
G3630AV	120 x 10,000	A-VERY FINE
G3630SV	120 x 10.000	S-VERY FINE
G3630SU	120 x 10.000	S-ULTRA FINE

FE	SS	AL	PL	WO
●	●	●	●	●

ALUMINUM OXIDE ABRASIVE CLOTH BELTS

WRK

A

ITEM: G3480

Aluminum oxide. Suitable for roughing and finishing ferrous and non-ferrous metals, wood and other materials.

Tech. Code	Dimension mm	Grit
G34800401000	100 x 1000	40
G34800401500	120 x 1500	40
G34800601000	100 x 1000	60
G34800601500	120 x 1500	60
G34800801000	100 x 1000	80

Tech. Code	Dimension mm	Grit
G34800801500	120 x 1500	80
G34801001000	100 x 1000	100
G34801001500	120 x 1500	100
G34801201000	100 x 1000	120
G34801201500	120 x 1500	120



FE	SS	AL	PL	WO
●	○	○		●

ZIRCONIA ABRASIVE CLOTH BELTS

WRK

Z

ITEM: G3490

Zirconium oxide for superior performance. Suitable for roughing and finishing stainless steel, ferrous and non-ferrous metals, wood and other materials.

Tech. Code	Dimension mm	Grit
G34900401000	100 x 1000	40
G34900401500	120 x 1500	40
G34900601000	100 x 1000	60
G34900601500	120 x 1500	60
G34900801000	100 x 1000	80

Tech. Code	Dimension mm	Grit
G34900801500	120 x 1500	80
G34901001000	100 x 1000	100
G34901001500	120 x 1500	100
G34901201000	100 x 1000	120
G34901201500	120 x 1500	120



FE	SS	AL	PL	WO
●	●	○		

ZIRCONIA ABRASIVE CLOTH BELTS

NORTON SAINT-GOBAIN

Z

ITEM: G3525

Zirconium oxide NORTON R822 for superior performance. Suitable for roughing and finishing stainless steel, ferrous and non-ferrous materials, wood and other materials.

Tech. Code	Dimension mm	Grit
G35250401000	100 x 1000	40
G35250401500	120 x 1500	40
G35250601000	100 x 1000	60
G35250601500	120 x 1500	60
G35250801000	100 x 1000	80

Tech. Code	Dimension mm	Grit
G35250801500	120 x 1500	80
G35251001000	100 x 1000	100
G35251001500	120 x 1500	100
G35251201000	100 x 1000	120
G35251201500	120 x 1500	120



FE	SS	AL	PL	WO
●	●	○		



ABRASIVE BELTS FOR PORTABLE MACHINES

VSM

C+

ITEM: XK850X

Ceramic abrasive belts with cooling additive and polyester support. Ideal for processing steel, stainless steel, aluminum, titanium, bronze. Can be used with portable electric or pneumatic grinders.



Tech. Code		G3555040	G3555060	G3555080	G3555120
Dimension	mm	10 x 330	10 x 330	10 x 330	10 x 330
Grit		40	60	80	120

Tech. Code		G3555040A	G3555060A	G3555080A	G3555120A
Dimension	mm	13 x 305	13 x 305	13 x 305	13 x 305
Grit		40	60	80	120

FE	SS	AL	PL	WO
●	●	●		

ABRASIVE STICKS

ITEM: G3620

Sturdy polypropylene support. Equipped with spring tensioner to facilitate the replacement of the belt or the rotation of the same. Ideal for smoothing and finishing areas that are difficult to access. When mounted an A 180-grade aluminum oxide belt.



Tech. Code		G36201506	G362025018
Dimension	mm	150 x 6	250 x 18
Belt	mm	320 x 18	520 x 18

BELTS FOR FILES

STARCKE

A

ITEM: 541JF

Aluminum oxide belts with semi-flexible support, suitable for use with belt files from the G3620 range.



Tech. Code		G3625A120	G3625A180	G3625A320
Grit		120	180	320
Dimension	mm	320 x 6	320 x 6	320 x 6

FE	SS	AL	PL	WO
●	●	●		

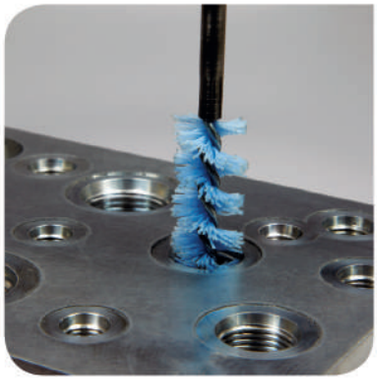
Tech. Code		G3625C120	G3625C180	G3625C320
Grit		120	180	320
Dimension	mm	520 x 18	520 x 18	520 x 18

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CUTTING SPEED CHART - FLAP WHEELS WITH SHANK

Ø ring mm	10	15	20-25	30	40	50	60	80
Recommended speed (rpm)	38.000	25.000	18.000	13.000	10.000	7.500	6.500	4.500
Max speed (rpm)	70.000	50.000	30.000	25.000	20.000	15.000	13.000	9.000



FLAP WHEELS WITH SHANK

WRK

A

ITEM: G4105

Aluminium oxide flap wheels, semi-flexible support. For grinding and finishing work on small or shaped workpieces made of carbon steel, stainless steel, non-ferrous metals, fiberglass, stone and marble.



FE	SS	AL	PL	WO
●	●	●		

Tech. Code	D x H mm	Shank mm	Grit
G41051010060	10 x 10	3 x 40	60
G41051010080	10 x 10	3 x 40	80
G41051010120	10 x 10	3 x 40	120
G41051515060	15 x 15	3 x 40	60
G41051515080	15 x 15	3 x 40	80
G41051515120	15 x 15	3 x 40	120
G41052010040	20 x 10	6 x 40	40
G41052010060	20 x 10	6 x 40	60
G41052010080	20 x 10	6 x 40	80
G41052010120	20 x 10	6 x 40	120
G41052515040	25 x 15	6 x 40	40
G41052515060	25 x 15	6 x 40	60
G41052515080	25 x 15	6 x 40	80
G41052515120	25 x 15	6 x 40	120
G41052525040	25 x 25	6 x 40	40
G41052525060	25 x 25	6 x 40	60
G41052525080	25 x 25	6 x 40	80
G41052525120	25 x 25	6 x 40	120
G41053010040	30 x 10	6 x 40	40
G41053010060	30 x 10	6 x 40	60
G41053010080	30 x 10	6 x 40	80
G41053010120	30 x 10	6 x 40	120
G41053015040	30 x 15	6 x 40	40
G41053015060	30 x 15	6 x 40	60
G41053015080	30 x 15	6 x 40	80
G41053015120	30 x 15	6 x 40	120
G41053020040	30 x 20	6 x 40	40
G41053020060	30 x 20	6 x 40	60
G41053020080	30 x 20	6 x 40	80
G41053020120	30 x 20	6 x 40	120
G41054010040	40 x 10	6 x 40	40
G41054010060	40 x 10	6 x 40	60
G41054010080	40 x 10	6 x 40	80

Tech. Code	D x H mm	Shank mm	Grit
G41054010120	40 x 10	6 x 40	120
G41054015040	40 x 15	6 x 40	40
G41054015060	40 x 15	6 x 40	60
G41054015080	40 x 15	6 x 40	80
G41054015120	40 x 15	6 x 40	120
G41054020040	40 x 20	6 x 40	40
G41054020060	40 x 20	6 x 40	60
G41054020080	40 x 20	6 x 40	80
G41054020120	40 x 20	6 x 40	120
G41055010040	50 x 10	6 x 40	40
G41055010060	50 x 10	6 x 40	60
G41055010080	50 x 10	6 x 40	80
G41055010120	50 x 10	6 x 40	120
G41055015040	50 x 15	6 x 40	40
G41055015060	50 x 15	6 x 40	60
G41055015080	50 x 15	6 x 40	80
G41055015120	50 x 15	6 x 40	120
G41055020040	50 x 20	6 x 40	40
G41055020060	50 x 20	6 x 40	60
G41055020080	50 x 20	6 x 40	80
G41055020120	50 x 20	6 x 40	120
G41055030040	50 x 30	6 x 40	40
G41055030060	50 x 30	6 x 40	60
G41055030080	50 x 30	6 x 40	80
G41055030120	50 x 30	6 x 40	120
G41056030040	60 x 30	6 x 40	40
G41056030060	60 x 30	6 x 40	60
G41056030080	60 x 30	6 x 40	80
G41056030120	60 x 30	6 x 40	120
G41058040040	80 x 40	6 x 40	40
G41058040060	80 x 40	6 x 40	60
G41058040080	80 x 40	6 x 40	80
G41058040120	80 x 40	6 x 40	120

FLAP WHEELS IN NON-WOVEN FABRIC WITH SHANK

WRK

A

ITEM: G4310

Sanding rollers with 6 mm shank made from non-woven fabric. Aluminium oxide in various grits. Ideal for satin finishing general metal, plastic and wood. The CP MED (Cut and Polish) version is a particularly dense weave that combines high durability with aggressive satin finishing and a fine, even finish.



FE	SS	AL	PL	WO
●	●	●	○	

Tech. Code	D x H mm	Grit	Max RPM
G43103020AC	30x20	Coarse	20000
G43103020AF	30x20	Fine	20000
G43103020AM	30x20	Medium	20000
G43103020CPM	30x20	CP Med	15000
G43103030AC	30x30	Coarse	20000
G43103030AF	30x30	Fine	20000
G43103030AM	30x30	Medium	20000
G43103030CPM	30x30	CP Med	15000
G43104020AC	40x20	Coarse	16000
G43104020AF	40x20	Fine	16000
G43104020AM	40x20	Medium	16000
G43104020CPM	40x20	CP Med	13000

Tech. Code	D x H mm	Grit	Max RPM
G43104030AC	40x30	Coarse	16000
G43104030AF	40x30	Fine	16000
G43104030AM	40x30	Medium	16000
G43104030CPM	40x30	CP Med	13000
G43105030AC	50x30	Coarse	12500
G43105030AF	50x30	Fine	12500
G43105030AM	50x30	Medium	12500
G43105030CPM	50x30	CP Med.	10500
G43106040AC	60x40	Coarse	10000
G43106040AF	60x40	Fine	10000
G43106040AM	60x40	Medium	10000
G43106040CPM	60x40	CP Med	8500

CUTTING SPEED CHART FOR ABRASIVE SPIRAL BANDS

Ø ring mm	10 - 13	15	22 - 25	30	45	60
Recommended speed (rpm)	35.000	25.000	17.000	13.000	8.500	6.500
Max speed (rpm)	45.000	40.000	25.000	18.000	12.500	9.000



ABRASIVE SPIRAL BANDS - ALUMINIUM OXIDE

WRK

A

ITEM: G4400

Abrasive spiral bands with aluminium oxide grain are universally suitable for many materials such as non-ferrous metals and plastic. Internally reinforced with cotton cloth.

Tech. Code	D x H mm	Grit
G44001020040	10 x 20	40
G44001020060	10 x 20	60
G44001020080	10 x 20	80
G44001325040	13 x 25	40
G44001325060	13 x 25	60
G44001325080	13 x 25	80
G44001530040	15 x 30	40
G44001530060	15 x 30	60
G44001530080	15 x 30	80
G44001925040	19 x 25	40
G44001925060	19 x 25	60
G44001925080	19 x 25	80
G44002220040	22 x 20	40
G44002220060	22 x 20	60
G44002220080	22 x 20	80

Tech. Code	D x H mm	Grit
G44002525040	25 x 25	40
G44002525060	25 x 25	60
G44002525080	25 x 25	80
G44003020040	30 x 20	40
G44003020060	30 x 20	60
G44003020080	30 x 20	80
G44003030040	30 x 30	40
G44003030060	30 x 30	60
G44003030080	30 x 30	80
G44004530040	45 x 30	40
G44004530060	45 x 30	60
G44004530080	45 x 30	80
G44006030040	60 x 30	40
G44006030060	60 x 30	60
G44006030080	60 x 30	80



FE	SS	AL	PL	WO
●	○	○		

ABRASIVE SPIRAL BANDS - ZIRCONIA

WRK

Z

ITEM: G4402

Zirconium abrasive spiral bands internally reinforced with cotton cloth to strengthen the structure.
Zirconium ensures a very aggressive material removal. Specifically recommended on steel and stainless steel.

Tech. Code	D x H mm	Grit
G44021020040	10 x 20	40
G44021020060	10 x 20	60
G44021020080	10 x 20	80
G44021325040	13 x 25	40
G44021325060	13 x 25	60
G44021325080	13 x 25	80
G44021530040	15 x 30	40
G44021530060	15 x 30	60
G44021530080	15 x 30	80
G44022220040	22 x 20	40
G44022220060	22 x 20	60
G44022220080	22 x 20	80

Tech. Code	D x H mm	Grit
G44023020040	30 x 20	40
G44023020060	30 x 20	60
G44023020080	30 x 20	80
G44023030040	30 x 30	40
G44023030060	30 x 30	60
G44023030080	30 x 30	80
G44024530040	45 x 30	40
G44024530060	45 x 30	60
G44024530080	45 x 30	80
G44026030040	60 x 30	40
G44026030060	60 x 30	60
G44026030080	60 x 30	80



FE	SS	AL	PL	WO
●	●	○		

ABRASIVE SPIRAL BANDS - CERAMIC

C+

ITEM: G4407

Ceramic abrasive spiral bands, excellent removal capacity and cold cutting. Their structure is internally reinforced with cotton cloth. Specifically recommended for alloy steel, stainless steel, titanium and aluminum alloys.



Tech. Code	D x H mm	Grit
G44071020060	10 x 20	60
G44071020080	10 x 20	80
G44071325060	13 x 25	60
G44071325080	13 x 25	80
G44071530060	15 x 30	60

Tech. Code	D x H mm	Grit
G44071530080	15 x 30	80
G44073030060	30 x 30	60
G44073030080	30 x 30	80
G44074530060	45 x 30	60
G44074530080	45 x 30	80

FE	SS	AL	PL	WO
●	●	●		

BAND HOLDERS FOR SPIRAL BANDS

ITEM: G4409

Band holders in expandable laminated rubber suitable for all abrasive spiral bands.



Tech. Code	D x H mm	Shank mm
G44091020	10 x 20	6 x 40
G44091325	13 x 25	6 x 40
G44091530	15 x 30	6 x 40
G44091925	19 x 25	6 x 40
G44092220	22 x 20	6 x 40

Tech. Code	D x H mm	Shank mm
G44092525	25 x 25	6 x 40
G44093020	30 x 20	6 x 40
G44093030	30 x 30	6 x 40
G44094530	45 x 30	6 x 40
G44096030	60 x 30	6 x 40

CARTRIDGE ROLLS

A

ITEM: G4430

Cartridge rolls in rolled-up aluminum oxide cloth. Ideal for grinding in difficult to acess areas. The canvas allows it to lengthen the life of the tool compared to traditional sleeves and rings. Available in cyclindrical shape and conical for restricted points.



FE	SS	AL	PL	WO
●	○	○		

Tech. Code		G4430A1238060	G4430A1238080	G4430A1238120
D x H x F	mm	12 x 38 x 3	12 x 38 x 3	12 x 38 x 3
Shape		Cylindrical	Cylindrical	Cylindrical
Grit		60	80	120

Tech. Code		G4430B1238060	G4430B1238080	G4430B1238120
D x H x F	mm	12 x 38 x 3	12 x 38 x 3	12 x 38 x 3
Shape		Conical	Conical	Conical
Grit		60	80	120

PIN FOR ABRASIVE WRAPPED ROLLS

ITEM: G4431

Pin with tang D.6 for rolls with 3 mm holes.



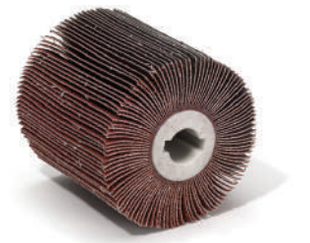
Tech. Code		G4431P38
Ø Pin	mm	3
Ø Shank	mm	6

ABRASIVE FLAP WHEELS FOR SATINEX MACHINES

A

ITEM: G4520

19-mm hole abrasive rolls and driving key seat. Made in abrasive clothed corindone flaps, various types of grit. Fit for satinex machines tools for metal grinding. Also used to remove polish, protective wax coating and oxidised parts on all surfaces. Coarse grain grinders are also used on marble and stone. Recommended speed 3.500/4.000 rpm.



FE	SS	AL	PL	WO
●	○	○		●

Tech. Code		G452010010040	G452010010060	G452010010080	G4520100100120
D x H	mm	100 x 100	100 x 100	100 x 100	100 x 100
Grit		40	60	80	120
Hole	mm	19	19	19	19
Speed	RPM	Max. 5.700	Max. 5.700	Max. 5.700	Max. 5.700

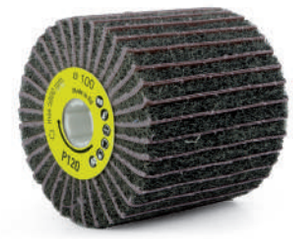
NON-WOVEN MIXED FLAP WHEELS FOR HAND-HELD GLAZING MACHINES

SiC | A

ITEM: G4540

Combination flap wheels with 19mm keyhole. These wheels alternate corundum-type flaps with non-woven fabric. For grade 40 and 60 (coarse), corundum type cloth wheel is used, while silicon carbide type is suitable for grade 80 and 120 (medium) Its structure combines non-woven fabric removal features with cloth finishing performance Recommended speed 2.500/3.000 rpm

Tech. Code		G4540110AM40	G4540110AM60	G4540110SM80	G4540110SM120
D x H	mm	100 x 100	100 x 100	100 x 100	100 x 100
Grit		40	60	80	120
Hole	mm	19	19	19	19
Speed	RPM	Max. 5.000	Max. 5.000	Max. 5.000	Max. 5.000



FE	SS	AL	PL	WO
●	●	●		

NON-WOVEN WHEELS FOR SATINEX MACHINES

A

ITEM: G4605

19-mm hole abrasive wheels, with driving key seat, made in non-woven fabric Aluminum oxide, various types of grit. Ideal for metal glazing. Removing scales oxide e rust. Produces homogeneus surfaces without defects. The Cuts and Polish version combines great cutting performance with smooth, consistent finishing. Recommended speed 3.000/3.500 rpm.

Tech. Code		G4605110100C	G4605110100F	G4605110100M	G4605110100VF	G4605110100CPM
D x H	mm	100 x 100	100 x 100	100 x 100	100 x 100	100 x 100
Hole	mm	19	19	19	19	19
Grit		Coarse	Fine	Medium	Very fine	CPM
Speed	RPM	Max. 5.000	Max. 5.000	Max. 5.000	Max. 5.000	Max. 5.000



FE	SS	AL	PL	WO
●	●		●	○

ABRASIVE FLAP WHEELS WITH HOLE

A

ITEM: G4705

Abrasive flap wheels with hole, are also used for fixed and portable machines' grinding and finishing.
Made in corundom with standard cotton support, can fit nearly all applications.
Max speed expressed in RPM: D.165 - 5.300 , D.200 - 4.400 , D.250 - 3.600

Tech. Code	D x H mm	Hole mm	Grit
G470516530060	165 x 30	54	60
G470516530080	165 x 30	54	80
G470516530120	165 x 30	54	120
G470516530180	165 x 30	54	180
G470516550060	165 x 50	54	60
G470516550080	165 x 50	54	80
G470516550120	165 x 50	54	120
G470516550180	165 x 50	54	180

Tech. Code	D x H mm	Hole mm	Grit
G470520050060	200 x 50	54	60
G470520050080	200 x 50	54	80
G470520050120	200 x 50	54	120
G470520050180	200 x 50	54	180
G470525050060	250 x 50	100	60
G470525050080	250 x 50	100	80
G470525050120	250 x 50	100	120
G470525050180	250 x 50	100	180



FE	SS	AL	PL	WO
●	●	○	●	

NON-WOVEN FABRIC CLOTH FLAP WHEELS WITH HOLE

A

ITEM: G4805

Abrasive flap wheels with hole for stationary machines, made in non-woven fabric.
Aluminum oxide, various types of grit Ideal for metal glazing.

Tech. Code		G480520050C8	G480520050F8	G480520050M8	G480520050VF8
D x H	mm	200 x 50	200 x 50	200 x 50	200 x 50
Hole	mm	76	76	76	76
Grit		Coarse	Fine	Medium	Very fine
Speed	RPM	Max. 2.500	Max. 2.500	Max. 2.500	Max. 2.500



FE	SS	AL	PL	WO
●	●	●		

FLAP WHEELS REDUCER FLANGES

ITEM: G4850

Manufactured in aluminum, supplied in pairs.

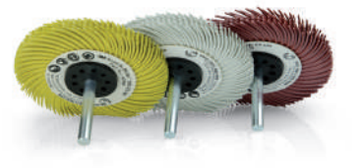
Tech. Code		G485054X25	G485076X25	G4850100X25
Ø	mm	54	76	100
Hole	mm	25	25	25



BRISTLE BRUSH ON SHAFT BB-ZS

ITEM: G4890

Brushes made from Aluminum Oxide and Cubitron. Ideal for removing microfilaments on flat profile surface. Its pattern makes it ideal for unevenly shaped profiles. Clogging free features allow for perfect paint and glue residues removal. Superior performance on finishing operations No clogging.

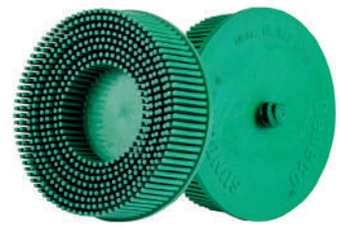


Tech. Code		G489075080	G489075120	G489075220
Ø	mm	75	75	75
Grit		80	120	220
Pivot	mm	6	6	6
Colour		Yellow	White	Red

SUNBURST CUP ABRASIVE BRUSHES WITH QUICK COUPLING

ITEM: G4894

Aluminium oxide abrasive brushes with thermoplastic bond. Cup shape with R-type quick-release coupling. Ideal for deburring, finishing and polishing various types of materials, including metals, plastics, ceramics and wood. The even distribution of the abrasive in the thermoplastic material guarantees a long tool life and a uniform result throughout the life of the tool. Flexible bristles to adapt to flat and contoured surfaces. Minimal dust generation and low heat emission.



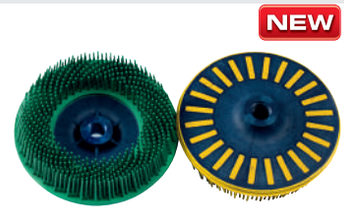
Tech. Code		G489425036	G489425050	G489425080	G489425120	G489450036	G489450050
Ø	mm	25	25	25	25	50	50
Grit		36	50	80	120	36	50
Colour		Brown	Green	Yellow	White	Brown	Green

Tech. Code		G489450080	G489450120	G489475036	G489475050	G489475080	G489475120
Ø	mm	50	50	75	75	75	75
Grit		80	120	36	50	80	120
Colour		Yellow	White	Brown	Green	Yellow	White

SUNBURST CUP ABRASIVE BRUSHES

ITEM: G4893

Aluminium oxide abrasive brushes with thermoplastic bond. Cup shape with M14 attachment for angle grinders. Ideal for deburring, finishing and polishing various types of materials, including metals, plastics, ceramics and wood. The even distribution of the abrasive in the thermoplastic material guarantees long tool life and a uniform result throughout the tool life. Flexible bristles to adapt to flat and contoured surfaces. Minimal dust generation and low heat emission.

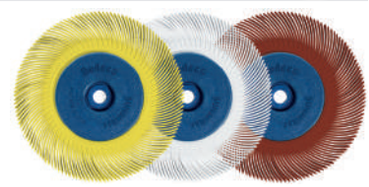


Tech. Code		G4893115036	G4893115050	G4893115080	G4893115120
Ø	mm	115	115	115	115
Grit		36	50	80	120
Specification		ULTRA-COARSE	EXTRA-COARSE	COARSE	MEDIUM
Colour		Brown	Green	Yellow	White

SUNBURST RADIAL ABRASIVE BRUSHES

ITEM: G4895

Aluminum oxide abrasive brushes with thermoplastic binder. Radial in shape, they are supplied complete in the 8-layer version. The bore of the brush includes reduction bushings to adapt it to multiple diameters. Ideal for deburring, finishing and polishing of many materials including metals and plastics. Low heat emission.

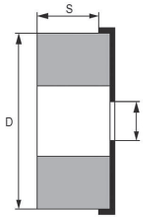


Tech. Code		G48951500808	G48951501208	G48951502208
Ø	mm	150	150	150
Grit		80	120	220
Colour		Yellow	White	Brown

FLAT BRUSHES FOR USE ON STATIONARY MACHINES

ITEM: DBUR

Ideal for deburring on machining centres. They have a resin body with drive holes. Nylon thread coated with Silicon Carbide. To be used with the specific support shaft. Particularly suitable for removing burrs after milling operations with interrupted cuts.





Tech. Code		G4918075080	G4918075120	G4918100080	G4918100120	G4918150080	G4918150120
D	mm	75	75	100	100	150	150
S	mm	38	38	38	38	38	38
F	mm	22,2	22,2	22.2	22.2	22,2	22,2
Grain		SIC 80	SIC 120	SIC 80	SIC 120	SIC 80	SIC 120
Ø Wire	mm	1,1	1,1	1.1	1.1	1,1	1,1
Max speed	RPM	4.500	4.500	3.500	3.500	2.500	2.500

ARBORS FOR FLAT BRUSHES

ITEM: BO 12/22

For use with brushes for stationary G4918 range.

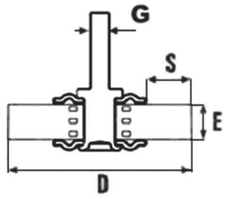


Tech. Code		G4919100	G4919150
For brushes Ø	mm	75 - 100	125 -150
Shank Ø	mm	12	12

WHEEL BRUSHES WITH SHANK

ITEM: G4901

High resistant crimped wire. Long service life and excellent industrial processing performances.



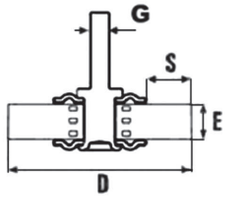


Tech. Code	D mm	E mm	S mm	G mm	Wire	Max speed RPM
G490140X9	40	9	8	6 x 25	Steel Ø 0,3	18.000
G490140X12	40	12	8	6 x 25	Steel Ø 0,3	18.000
G490150X9	50	9	13	6 x 25	Steel Ø 0,3	15.000
G490150X12	50	12	13	6 x 25	Steel Ø 0,3	15.000
G490160X9	60	9	15	6 x 25	Steel Ø 0,3	15.000
G490160X12	60	12	15	6 x 25	Steel Ø 0,3	15.000
G490170X9	70	9	20	6 x 25	Steel Ø 0,3	15.000
G490170X15	70	15	20	6 x 25	Steel Ø 0,3	15.000
G490180X12	80	12	20	6 x 25	Steel Ø 0,3	12.000
G490180X15	80	15	20	6 x 25	Steel Ø 0,3	12.000
G490140INOX	40	12	8	6 x 25	Stainless Steel Ø 0,3	18.000
G490150INOX	50	12	13	6 x 25	Stainless Steel Ø 0,3	15.000
G490160INOX	60	12	15	6 x 25	Stainless Steel Ø 0,3	15.000
G4901750INOX	70	12	20	6 x 25	Stainless Steel Ø 0,3	15.000

WHEEL BRUSHES WITH SHANK

ITEM: G4902

Crimped wire brushes. Universal use in cleaning steps. Ideal for removing rust, polishing, light deburring removing corrosion and varnish.





Tech. Code	D mm	E mm	S mm	G mm	Wire	Max speed RPM
G490202004	20	4	3	6 x 30	Steel Ø 0,20	20.000
G490203006	30	6	7	6 x 30	Steel Ø 0,20	20.000
G490204009	40	9	9	6 x 30	Steel Ø 0,20	18.000
G490205015	50	15	13	6 x 30	Steel Ø 0,20	15.000
G490206015	60	15	15	6 x 30	Steel Ø 0,20	15.000
G490207010	70	10	19	6 x 30	Steel Ø 0,30	15.000
G490207015	70	15	19	6 x 30	Steel Ø 0,30	15.000
G490208015	80	15	19	6 x 30	Steel Ø 0,30	12.000
G490210010	100	10	20	6 x 30	Steel Ø 0,30	12.000
G490202004IN	20	4	3	6 x 30	Stainless steel ø 0,20	20.000
G490203006IN	30	6	7	6 x 30	Stainless steel ø 0,20	20.000
G490204009IN	40	9	9	6 x 30	Stainless steel ø 0,20	18.000
G490205015IN	50	15	13	6 x 30	Stainless steel ø 0,20	15.000
G490206015IN	60	15	15	6 x 30	Stainless steel ø 0,20	15.000
G490207004IN	70	4	9	6 x 30	Stainless steel ø 0,20	15.000
G490207015IN	70	15	19	6 x 30	Stainless steel ø 0,30	15.000
G490208015IN	80	15	19	6 x 30	Stainless steel ø 0,30	12.000
G490210010IN	100	10	20	6 x 30	Stainless steel ø 0,30	12.000

END BRUSHES WITH SHANK

ITEM: G4903

High resistant crimped wire. Designed for front operations with electrical or air tools.





Tech. Code	D mm	S mm	B mm	G mm	Wire	Max speed RPM
G490318	18	24	15	6 x 21	Steel ø 0.3	18.000
G490322	22	27	20	6 x 21	Steel ø 0.3	18.000
G490325	25	27	25	6 x 21	Steel ø 0.3	18.000
G490335	35	30	30	6 x 21	Steel ø 0.3	15.000

END BRUSHES WITH SHANK

ITEM: G4904

End brushes with crimped wire. Ideal for lightbrushing and deburring or removing rust. During the rotation filament spread out permits to access even hard-to-reach locations into holes and cavities.



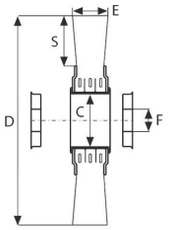


Tech. Code	D mm	S mm	B mm	G mm	Wire	Max speed RPM
G490410	10	20	10	6 x 21	Steel Ø 0.20	20.000
G490415	15	22	16	6 x 21	Steel Ø 0.20	18.000
G490420	20	25	22	6 x 21	Steel Ø 0.20	18.000
G490430	30	25	29	6 x 21	Steel Ø 0.20	15.000
G490410IN	10	20	10	6 x 21	Stainless steel Ø 0.20	20.000
G490415IN	15	22	16	6 x 21	Stainless steel Ø 0.20	18.000
G490420IN	20	25	22	6 x 21	Stainless steel Ø 0.20	18.000
G490430IN	30	25	29	6 x 21	Stainless steel Ø 0.20	15.000

WHEEL BRUSHES

ITEM: G4905

High resistant crimped wire. For deburring, etching and polishing.
K = multihole reduction kit 25-20-16



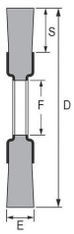


Tech. Code	D mm	E mm	S mm	C mm	F mm	Wire
G4905100	100	20	18	28	16	Steel Ø 0.35
G4905150	150	27	32	38	K	Steel Ø 0.35
G4905150/1	150	20	32	38	K	Steel Ø 0.35
G4905200	200	29	47	38	K	Steel Ø 0,35
G4905200/0	200	23	47	38	K	Steel Ø 0,35
G4905250	250	30	65	58	K	Steel Ø 0,35
G4905150/2	150	27	32	38	K	Steel Ø 0.50
G4905200/1	200	29	47	38	K	Steel Ø 0.50
G4905150INOX	150	27	32	38	K	Stainless steel Ø 0.30
G4905200INOX	200	29	47	38	K	Stainless steel Ø 0.30

WHEEL BRUSHES TWIST KNOTTED WIRE

ITEM: G4908

Aggressive brush, suitable for removing burning and rust. Cleaning of fillet weld and elimination of adhesive residues.



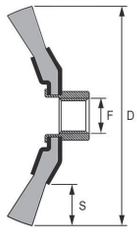


Tech. Code	D mm	E mm	S mm	F mm	Wire	Max speed RPM
G4908115	115	12	22	22,2	Steel Ø 0.50	12.500
G4908115IN	115	12	22	22,2	Stainless steel Ø 0.35	12.500
G4908125	125	12	28	22,2	Steel 0,50	11.000
G4908125IN	125	12	28	22,2	Stainless steel Ø 0.35	11.000

BEVEL BRUSHES

ITEM: G4911

Cone-shaped brushes suitable for uneven surfaces and surfaces with sharp edges. Suitable for removing scale, rust and residues from various materials. The crimped steel wires are extremely high strength and provide a long service life.



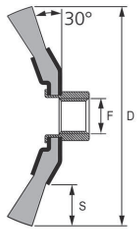


Tech. Code	D mm	S mm	F	Wire	Max speed RPM
G4911090	90	20	M14	Steel Ø 0.35	14,000
G4911090IN	90	20	M14	Stainless steel Ø 0.30	14,000
G4911120	120	22	M14	Steel Ø 0.35	12,500
G4911120IN	120	22	M14	Stainless steel Ø 0.30	12,500

THREADED BEVEL TWIST KNOTTED BRUSHES

ITEM: G4912

Aggressive brush. Excellent for heavy duty brushing, deburring e rust removal. The conical shape facilitates reaching difficult areas such as inner corners, grooves and gorges.





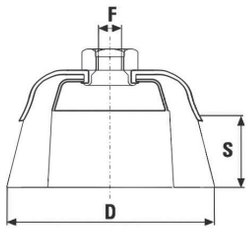
Tech. Code	D mm	S mm	F	Wire	Max speed RPM
G4912115	115	26	M14 x 2	Steel Ø 0.50	15.000
G4912115IN	115	26	M14 x 2	Stainless steel Ø 0.35	15.000

CUP BRUSHES

ITEM: G4910

Crimped, high-resistance wire. Used for angle grinders or fixed machines.
Ideal to prepare metal surfaces for the painting process.

Tech. Code	D mm	S mm	F	Wire	Max speed RPM
G491080	75	25	M14	Steel Ø 0.35	14.000
G4910100	100	25	M14	Steel Ø 0.35	8.500



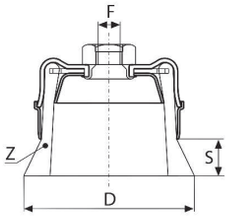


TWISTED KNOT CYLINDRICAL CUP BRUSHES

ITEM: G4915

Heavy-duty, tough performances high-standard safe operations. They can be fitted on fixed machineries, designed for removing fillet weld scale, rust, old paint and tough corrosion.

Tech. Code	D mm	S mm	F	Z = number of knots	Wire	Max speed RPM
G491570	70	17	M14	18	Steel Ø 0.35	14.000
G491570INOX	70	17	M14	18	Stainless steel Ø 0.50	14.000





DEBURRING STEEL BRUSHES

ITEM: G4920

Steel brushes for deburring and finishing smooth or threaded holes. Use on machine tools or portable machines.

Tech. Code	D mm	A mm	L mm	d1
G492008	8	80	115	M6
G492012	12	80	115	M6
G492016	16	80	115	M6
G492020	20	80	115	M6

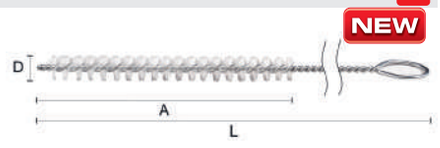


MANUAL NYLON CLEANING BRUSHES

ITEM: G4923

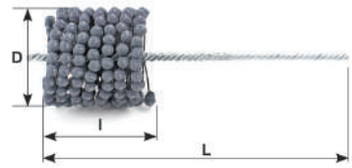
Nylon hand brushes for cleaning pipes, holes and cavities.

Tech. Code	D mm	A mm	L mm
G492303300	3	100	300
G492304300	4	100	300
G492306300	6	100	300
G492308300	8	100	300
G492310300	10	100	300
G492312300	12	100	300



SiC

ITEM: G4930



The Flex-Hone is a flexible sander for deburring, shaving, superfinishing and correcting the roughness of through holes.
It can be used by hand with a normal drill, on a drill press or in the machining cycle of CNC machines.
It produces a plateau-like finish with a surface free of ridges, tears and metal folds.
The tool works under pressure, its effective diameter is greater than the diameter of the hole to be machined. Dry use is not recommended.
Suitable for a variety of mechanical machining operations: valve seats, hydraulic and pneumatic power units, cylinders, oil passage intersection holes, gun parts, fittings and anywhere where precise holes are required.



Tech. Code	Model	Ø hole mm	Grit	Useful mm	D mm	l mm	L mm
G4930050SC120	BC5MM	5	120	4.75 - 5.00	5.5	38	203
G4930050SC180	BC5MM	5	180	4.75 - 5.00	5.5	38	203
G4930100SC120	BC10MM	10	120	9.50 - 10.0	11	57	203
G4930100SC180	BC10MM	10	180	9.50 - 10.0	11	57	203
G4930100SC240	BC10MM	10	240	9.50 - 10.0	11	57	203
G4930100SC320	BC10MM	10	320	9.50 - 10.0	11	57	203
G4930120SC120	BC12MM	12	120	11.0 - 12.0	13	57	203
G4930120SC180	BC12MM	12	180	11.0 - 12.0	13	57	203
G4930120SC240	BC12MM	12	240	11.0 - 12.0	13	57	203
G4930120SC320	BC12MM	12	320	11.0 - 12.0	13	57	203
G4930127SC120	BC1/2"	12.7	120	12.0 - 12.7	14.5	64	203
G4930127SC180	BC1/2"	12.7	180	12.0 - 12.7	14.5	64	203
G4930127SC240	BC1/2"	12.7	240	12.0 - 12.7	14.5	64	203
G4930127SC320	BC1/2"	12.7	320	12.0 - 12.7	14.5	64	203
G4930140SC120	BC14MM	14	120	12.7 - 14.0	15.5	64	203
G4930140SC180	BC14MM	14	180	12.7 - 14.0	15.5	64	203
G4930140SC240	BC14MM	14	240	12.7 - 14.0	15.5	64	203
G4930140SC320	BC14MM	14	320	12.7 - 14.0	15.5	64	203
G4930160SC120	BC5/8"	16	120	14,0 - 16,0	18	64	203
G4930160SC180	BC5/8"	16	180	14.0 - 16.0	18	64	203
G4930160SC320	BC5/8"	16	320	14.0 - 16.0	18	64	203
G4930180SC120	BC18MM	18	120	16.0 - 18.0	20	64	203
G4930180SC180	BC18MM	18	180	16.0 - 18.0	20	64	203
G4930180SC240	BC18MM	18	240	16.0 - 18.0	20	64	203
G4930180SC320	BC18MM	18	320	16.0 - 18.0	20	64	203
G4930190SC120	BC3/4"	19	120	18.0 - 19.0	21	64	203
G4930190SC180	BC3/4"	19	180	18.0 - 19.0	21	64	203
G4930190SC320	BC3/4"	19	320	18.0 - 19.0	21	64	203
G4930200SC120	BC20MM	20	120	19,0 - 20,0	22	64	203
G4930200SC180	BC20MM	20	180	19.0 - 20.0	22	64	203
G4930200SC320	BC20MM	20	320	19.0 - 20.0	22	64	203
G4930220SC120	BC7/8"	22	120	20,0 - 22,0	25	76	203
G4930220SC180	BC7/8"	22	180	20.0 - 22.0	25	76	203
G4930220SC320	BC7/8"	22	320	20.0 - 22.0	25	76	203
G4930254SC120	BC1"	25,4	120	23,8 - 25,4	28	76	203
G4930254SC180	BC1"	25.4	180	23.8 - 25.4	28	76	203
G4930254SC320	BC1"	25.4	320	23.8 - 25.4	28	76	203
G4930290SC120	BC1"-1/8	29	120	25.4 - 29.0	32	76	203
G4930290SC180	BC1"-1/8	29	180	25.4 - 29.0	32	76	203
G4930290SC320	BC1"-1/8	29	320	25.4 - 29.0	32	76	203
G4930318SC120	BC1"-1/4	31,8	120	29,0 - 31,8	35	76	203
G4930318SC180	BC1"-1/4	31.8	180	29.0 - 31.8	35	76	203
G4930318SC320	BC1"-1/4	31.8	320	29.0 - 31.8	35	76	203
G4930350SC120	BC1"-3/8	35	120	31,8 - 35,0	38,5	76	203
G4930350SC180	BC1"-3/8	35	180	31.8 - 35.0	38.5	76	203
G4930350SC320	BC1"-3/8	35	320	31.8 - 35.0	38.5	76	203
G4930380SC120	BC1"-1/2	38	120	35.0 - 38.0	41.5	76	203
G4930380SC180	BC1"-1/2	38	180	35.0 - 38.0	41.5	76	203
G4930380SC320	BC1"-1/2	38	320	35.0 - 38.0	41.5	76	203
G4930410SC120	BC1"-5/8	41	120	38,0 - 41,0	44,5	76	203
G4930410SC180	BC1"-5/8	41	180	38.0 - 41.0	44.5	76	203
G4930410SC320	BC1"-5/8	41	320	38.0 - 41.0	44.5	76	203
G4930510SC120	BC2"	51	120	47,6 - 51,0	54	76	203
G4930510SC180	BC2"	51	180	47.6 - 51.0	54	76	203
G4930510SC320	BC2"	51	320	47.6 - 51.0	54	76	203
G4930570SC120	BC2"-1/4	57	120	54.0 - 57.0	60.5	76	203
G4930570SC180	BC2"-1/4	57	180	54.0 - 57.0	60.5	76	203
G4930570SC320	BC2"-1/4	57	320	54.0 - 57.0	60.5	76	203

VITRIFIED GRINDING WHEELS WITH SHANK

ITEM: WX6968

White corundum and vitrified ceramic bond grinding wheels in cylindrical shape ZY. The excellent grinding properties of the abrasive make them ideal for finishing steels and alloy steels.



Tech. Code		G531002061003	G531003061003	G531004081003	G531005101003	G531006121003
D	mm	2	3	4	5	6
T	mm	6	6	8	10	12
Shank L x S	mm	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40
Grit		100	100	100	100	100

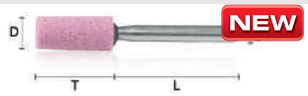
Tech. Code		G531008100806	G531008120803	G531010120803	G531010150806	G531012150606
D	mm	8	8	10	10	12
T	mm	10	12	12	15	15
Shank L x S	mm	6 x 40	3 x 40	3 x 40	6 x 40	6 x 40
Grit		80	80	80	80	60

Tech. Code		G531015200606	G531020200606	G531025250606	G531032320606
D	mm	15	20	25	32
T	mm	20	20	25	32
Shank L x S	mm	6 x 40	6 x 40	6 x 40	6 x 40
Grit		60	60	60	60

VITRIFIED GRINDING WHEELS WITH SHANK

ITEM: WX6970

Pink corundum and vitrified ceramic bond grinding wheels in cylindrical shape ZY. Ideal for machining steels and alloy steels, they offer a remarkable ratio of tool life to stock removal.



Tech. Code		G531202060803	G531203060803	G531204080803	G531205100603	G531206120603
D	mm	2	3	4	5	6
T	mm	6	6	8	10	12
Shank L x S	mm	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40
Grit		80	80	80	60	60

Tech. Code		G531208120603	G531210120603	G531208100466	G531210150466	G531212150466
D	mm	8	10	8	10	12
T	mm	12	12	10	15	15
Shank L x S	mm	3 x 40	3 x 40	6 x 40	6 x 40	6 x 40
Grit		60	60	46	46	46

Tech. Code		G531215200466	G531220200466	G531225250366	G531232320366
D	mm	15	20	25	32
T	mm	20	20	25	32
Shank L x S	mm	6 x 40	6 x 40	6 x 40	6 x 40
Grit		46	46	36	36

RESIN GRINDING WHEELS WITH SHANK

ITEM: WX6972

Black corundum grinding wheels with bakelite bond in cylindrical shape ZY. The mix of corundum abrasives combined with the resinoid bond give these grinding wheels perfect characteristics for working on stainless steels.



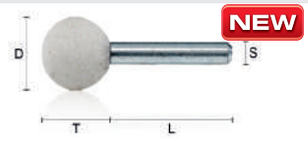
Tech. Code		G531410150366	G531412150366	G531415200366
D	mm	10	12	15
T	mm	15	15	20
Shank L x S	mm	6 x 40	6 x 40	6 x 40
Grit		36	36	36

Tech. Code		G531420200246	G531425250246	G531432320246
D	mm	20	25	32
T	mm	20	25	32
Shank L x S	mm	6 x 40	6 x 40	6 x 40
Grit		24	24	24

VITRIFIED GRINDING WHEELS WITH SHANK

ITEM: WX6974

Grinding wheels in white corundum and vitrified ceramic bond in spherical shape KU. The excellent grinding properties of the abrasive make them ideal for finishing steels and alloy steels.



Tech. Code		G5320100606	G5320120606	G5320150606	G5320200606
D	mm	10	12	15	20
Shank L x S	mm	6 x 40	6 x 40	6 x 40	6 x 40
Grit		60	60	60	60

VITRIFIED GRINDING WHEELS WITH SHANK

ITEM: WX6976

Pink corundum and vitrified ceramic bond grinding wheels in spherical shape KU. Ideal for machining steels and alloy steels, they offer a remarkable ratio of tool life to stock removal.



Tech. Code		G5322100466	G5322120466	G5322150466	G5322200466
D	mm	10	12	15	20
Shank L x S	mm	6 x 40	6 x 40	6 x 40	6 x 40
Grit		46	46	46	46

VITRIFIED GRINDING WHEELS WITH SHANK

ITEM: WX6978

White corundum and vitrified ceramic bond grinding wheels in KE radius cone shape. The excellent grinding properties of the abrasive make them ideal for finishing steels and alloy steels.



Tech. Code		G533010250606	G533020320606
D	mm	10	20
T	mm	25	32
Shank L x S	mm	6 x 40	6 x 40
Grit		60	60

VITRIFIED GRINDING WHEELS WITH SHANK

ITEM: WX6980

Pink corundum and vitrified ceramic bond grinding wheels in KE radius cone shape. Ideal for machining steels and alloy steels, they offer a remarkable ratio of tool life to stock removal.



Tech. Code		G533210250466	G533220320466
D	mm	10	20
T	mm	25	32
Shank L x S	mm	6 x 40	6 x 40
Grit		46	46

MOUNTED POINTS WITH PINK ALUMINUM OXIDE

ITEM: ZY

Cylinder-shaped, pink corundum, high-stability edges and shape, low-wear and long-lasting grinding wheels.
Suitable for mechanical workpiece grinding, bur removal, chamfers for welding preparation.



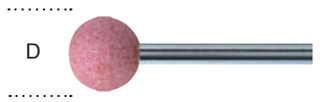
Tech. Code		G540502053	G540503063	G540504083	G540505103	G540506133
D	mm	2	3	4	5	6
T	mm	5	6	8	10	13
Shank L x S	mm	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40
Specification		AR 100 O 5 V	AR 100 O 5 V	AR 100 O 5 V	AR 100 O 5 V	AR 100 O 5 V

Tech. Code		G540508103	G540510133	G540506136	G540508106	G540510136
D	mm	8	10	6	8	10
T	mm	10	13	13	10	13
Shank L x S	mm	3 x 40	3 x 40	6 x 40	6 x 40	6 x 40
Specification		AR 80 O 5 V	AR 46 O 5 V	AR 100 O 5 V	AR 80 O 5 V	AR 46 O 5 V

Tech. Code		G540513206	G540516206	G540520206	G540525256	G540532326
D	mm	13	16	20	25	32
T	mm	20	20	20	25	32
Shank L x S	mm	6 x 40	6 x 40	6 x 40	6 x 40	6 x 40
Specification		AR 46 O 5 V	AR 30 O 5 V	AR 30 O 5 V	AR 30 O 5 V	AR 24 O 5 V

ITEM: KU

Sphere-shaped, pink corundum, high-stability edges and shape, low-wear and long-lasting grinding wheels.
Suitable for mechanical workpiece grinding, bur removal, chamfers for welding preparation.

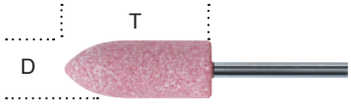


Tech. Code		G5410053	G5410083	G5410103
D	mm	5	8	10
Shank L x S	mm	3 x 40	3 x 40	3 x 40
Specification		AR 100 O 5 V	AR 80 O 5 V	AR 46 O 5 V

Tech. Code		G5410106	G5410136	G5410166	G5410206
D	mm	10	13	16	20
Shank L x S	mm	6 x 40	6 x 40	6 x 40	6 x 40
Specification		AR 46 O 5 V	AR 46 O 5 V	AR 30 O 5 V	AR 30 O 5 V

ITEM: SP

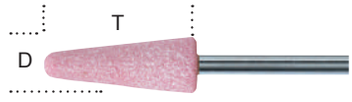
Ogive-shaped, pink corundum, high-stability edges and shape, low-wear and long-lasting grinding wheels.
Suitable for mechanical workpiece grinding, bur removal, chamfers for welding preparation.



Tech. Code		G541508166	G541513206	G541520326
D	mm	8	13	20
T	mm	16	20	32
Shank L x S	mm	6 x 40	6 x 40	6 x 40
Specification		AR 80 O 5 V	AR 46 O 5 V	AR 30 O 5 V

ITEM: KE

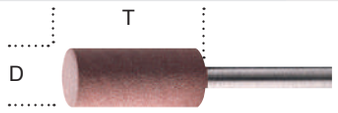
Radial cone-shaped, pink corundum, high-stability edges and shape, low-wear and long-lasting grinding wheels.
Suitable for mechanical workpiece grinding, bur removal, chamfers for welding preparation.



Tech. Code		G542010256	G542016456	G542020326
D	mm	10	16	20
T	mm	25	45	32
Shank L x S	mm	6 x 40	6 x 40	6 x 40
Specification		AR 46 O 5 V	AR 46 O 5 V	AR 30 O 5 V

POLIFLEX SHANK-MOUNTED ABRASIVE GRINDERS

ITEM: ZY

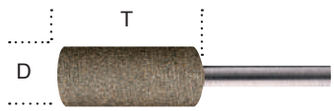


Cylinder-shaped, pink corundum and GR rubber bond. GR bond, soft and elastic, allows delicate grinding.
Suitable for finishing steel, stainless steel and non-ferrous materials resulting in fine and shiny surfaces.
Recommended for injection and pressure mold finishing.

Tech. Code		G551004083	G551006103	G551008123	G551010153
D	mm	4	6	8	10
T	mm	8	10	12	15
Shank L x S	mm	3 x 40	3 x 40	3 x 40	3 x 40
Specification		AR 120 GR	AR 120 GR	AR 120 GR	AR 120 GR

Tech. Code		G551010156	G551015156	G551020206	G551025256
D	mm	10	15	20	25
T	mm	15	15	20	25
Shank L x S	mm	6 x 40	6 x 40	6 x 40	6 x 40
Specification		AR 120 GR	AR 120 GR	AR 120 GR	AR 120 GR

ITEM: ZY



Cylinder-shaped with corundum and LR leather bond. LR hard bond provides good removal, long tool life and fine surface quality. Suitable for finishing steel, stainless steel and titanium material.
Recommended for mold manufacturing and tool finishing.

Tech. Code		G552004083	G552006103	G552008123	G552010153
D	mm	4	6	8	10
T	mm	8	10	12	15
Shank L x S	mm	3 x 40	3 x 40	3 x 40	3 x 40
Specification		AW 120 LR	AW 120 LR	AW 120 LR	AW 120 LR

Tech. Code		G552010156	G552015156	G552020206	G552025256
D	mm	10	15	20	25
T	mm	15	15	20	25
Shank L x S	mm	6 x 40	6 x 40	6 x 40	6 x 40
Specification		AW 120 LR	AW 120 LR	AW 120 LR	AW 120 LR

GESSWEIN ABRASIVE GRINDERS - FOR HARD MATERIALS

These top-quality grinding wheels are made of Aluminium oxide bonded with ceramic powder to achieve the high strength and rigidity required for grinding and roughing.
The ceramic bond gradually releases the abrasive grains in such a way that when the abrasive starts to lose sharpness it is replaced by a new grain with sharp cutting edges. The grit of all these grinding wheels is unique: 120
The blue grinding wheels hold their shape exceptionally well and are suitable for use on hardened materials.
They cut well and leave a smooth surface. Max. operating speed 30 m/sec.

Use goggles or face shield during grinding operations.

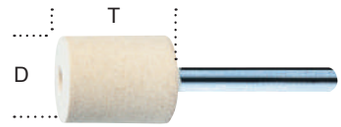
Tech. Code		G5650B44	G5652B52	G5654B53	G5656B55	G5658B96	G5660B97	G5680W176	G5682W215
D	mm	5,5	9,4	6,3	3,1	3,1	2,4	9,4	25,4
T	mm	9,5	18,8	15,7	6,3	6,3	9,3	12,5	3,1
Shank L x S	mm	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40
									

Tech. Code		G5662B105	G5664B123	G5668B125	G5670W142	G5672W144	G5674W145	G5676W153	G5678W163
D	mm	6,3	4,7	6,3	2,4	3,1	3,1	4,7	6,3
T	mm	6,3	4,7	6,3	6,3	6,3	9,4	9,4	12,5
Shank L x S	mm	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40
									

SHANK-MOUNTED FELT BOBS

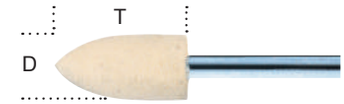
ITEM: FK ZYA

Cylinder-shaped. Suitable for pre-polishing and polishing mechanical forms in general.
To be used with diamond paste and polishing paste.



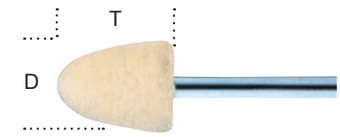
Tech. Code		G570506103	G570508103	G570510143	G570510146	G570515206	G570520256	G570525306
D	mm	6	8	10	10	15	20	25
T	mm	10	10	15	15	20	25	30
Shank L x S	mm	3 x 40	3 x 40	3 x 40	6 x 40	6 x 40	6 x 40	6 x 40
Shape		Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical

ITEM: FK SPK



Tech. Code		G571508123	G571510183	G571515206	G571520256
D	mm	8	10	15	20
T	mm	12	18	20	25
Shank L x S	mm	3 x 40	3 x 40	6 x 40	6 x 40
Shape		Pointed cone	Pointed cone	Pointed cone	Pointed cone

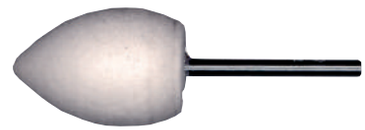
ITEM: FK KEL



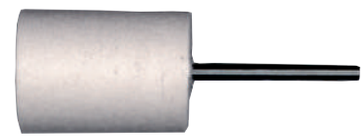
Tech. Code		G573015206	G573020256
D	mm	15	20
T	mm	20	25
Shank L x S	mm	6 x 40	6 x 40
Shape		Radius cone	Radius cone

SHANK MOUNTED FELT BOBS

The felt rotary tools are produced with 100% best-quality Australian wool. Suitable for use with diamond paste to produce a mirror finish on moulds for plastics, dies etc.
Shank Ø 3x30 mm. Recommended speed 5-10m/sec. Length tolerance ±5%.



Tech. Code		G58559X153MO	G585013X203MO	G584510X303MO	G584020X303MO
D	mm	9	12	10	20
T	mm	15	20	30	30
Shank L x S	mm	3 x 40	3 x 40	3 x 40	3 x 40
Material		Soft white felt	Soft white felt	Soft white felt	Soft white felt



Tech. Code		G58254X83MO	G58206X153MO	G581510X203MO	G581015X253MO	G580520X303MO
D	mm	4	6	10	15	20
T	mm	8	15	20	25	30
Shank L x S	mm	3 x 40	3 x 40	3 x 40	3 x 40	3 x 40
Material		Soft white felt	Soft white felt	Soft white felt	Soft white felt	Soft white felt



Tech. Code		G58206X153RE	G581510X203RE	G581015X253RE	G580520X303RE
D	mm	6	10	15	20
T	mm	15	20	25	30
Shank L x S	mm	3 x 40	3 x 40	3 x 40	3 x 40
Material		Hard resin felt	Hard resin felt	Hard resin felt	Hard resin felt



Tech. Code		G5835D103MO	G5830D153MO
D	mm	10	15
Shank L x S	mm	3 x 40	3 x 40
Material		Soft white felt	Soft white felt

SHANK MOUNTED SOFT FELT WHEELS

ITEM: G5875

Shank mounted soft felt wheels.



Tech. Code		G5875D212,35	G5875D252,35
Dimensions Ø	mm	21	25
Shank Ø	mm	2,35	2,35
Material		Soft felt	Soft felt

ROTARY FELT LAPPING TOOLS WITH SYNTHETIC SUPPORT

ITEM: G5880

Flexible body, steel shank.



Tech. Code		G5880D123	G5880D203	G5880D332	G5880D486
Description		Felt pad	Felt pad	Felt pad	Felt pad
Dimensions Ø	mm	12	20	32	48
Shank Ø	mm	3	3	3	6

SHANK MOUNTED SOFT COTTON STRING BUFFS

ITEM: G5935

Cotton wheel buffs of various sizes 21 mm, 30 mm and 40 mm, all with Ø 2.35 mm shank.



Tech. Code		G5935D21G2,35M	G5935D21G2,35D	G5935D30G2,35D	G5935D40G2,35D
Dimension	mm	21	21	30	40
Shank Ø	mm	2.35	2.35	2.35	2.35
Material		Soft cotton	Double twisted cotton	Double twisted cotton	Double twisted cotton

FELT FLAP WHEELS

NEW

ITEM: G5940

Felt flap wheels with a pin for polishing with straight grinders. They are used at low speed in conjunction with polishing pastes. Ideal for polishing pipes, fittings and internal parts of workpieces.



Tech. Code		G59406030	G59403030	G59404030	G59405030	G59408030
Ø x H	mm	60 x 30	30 x 30	40 x 30	50 x 30	80 x 30
Shank	Ø	6	6	6	6	6

FELT FLAP DISCS

WODEX

ITEM: FELT

Felt flap discs with fibreglass backing plate.
Specifically designed for use with abrasive paste in surface mirror polishing.
Use on angle grinders at 2500 rpm (16 m/s).



Tech. Code		G1441115
Ø	mm	115 x 22.2
Grain size		Coarse

To be used in combination with abrasive past G7984.

POLISHING ABRASIVE PASTES

PFERD TOOLS

ITEM: PP

Polishing pastes are characterised by different colours depending on their use.
They are generally used applied to G1441 felt discs or other polishing items. Approximate weight ~ 1,000 ÷ 1,150 g.



Tech. Code	G7984100	G7984300	G7984400
Application	Steel + Stainless Steel	Non ferrous metals	All metals
Colour	Green	Brown	Pink
Execution	Pre- polishing	Pre- polishing	Mirror polishing

Related products

NEW

NITRILE-COATED NYLON-POLYESTER GLOVES

Tech. Code	EU size
K235107	7
K235108	8
K235109	9



Products are available in CAP K

LUBRICATING FLUID FOR DIAMOND PASTES AND FLUIDS

SVERITAL

ITEM: G7985

Liquid Lubricant Type OS, soluble in oil. Oil based low viscosity fluid. Suitable for use with type KD pastes. Recommended for cleaning tools and polishing moulds.

Tech. Code	G7985OS0,45	G7985OS5
Type	OS	OS
Package	Bottle with sprayer	Drum
Quantity l	0.45	5



DIAMOND PASTES - TYPE KD

SVERITAL

ITEM: G7979

A series of diamond pastes for specific applications that complement the range of polishing products.
All pastes are made according to ISO 9001. The KD pastes are soluble in both oil and water.
Packaged in 5 g. "Applikator" type syringes.

Tech. Code	G79791KDC25	G79793KDC45	G79796KDC35	G79798KDC45
Use	Mirror finishing of steel, metallographic polishing of tungsten carbide.	Mirror finishing of tungsten carbide, sapphire, ruby.	Excellent rapid polishing of steel, sapphire, ruby. Improved polishing for general use.	Elimination of scratches and preliminary polishing of steel. Lapping of steel and tungsten carbide.
Microns	1	3	6	8
Colour	Sky blue	Green	Yellow	Red

Tech. Code	G797914KDC35	G797925KDC35	G797945KDC35	G797960KDC25
Use	Rapid removal of steel, preliminary polishing of tungsten carbide.	Fast removal with good finish on steel. Good stock removal on tungsten carbide.	Fast removal of steel especially from corrugated and tungsten carbide surfaces.	Roughing of hard materials.
Microns	14	25	45	60
Colour	Brown	Mahogany	Crimson	Orange



DIAMOND PASTES IN SYRINGES

WODEX

NEW

ITEM: G7962

Diamond pastes in 5 gram syringe characterised by high mineral density. Water-soluble monocrystalline diamond for lapping and polishing operations. High removal capacity and easy product removal after use.

Tech. Code	Micron	Colour	Content g
G796200501	1	Neutral	5
G796200503	3	Yellow	5
G796200506	6	Orange	5
G796200509	9	Green	5
G796200515	15	Blue	5
G796200530	30	Red	5
G796200545	45	Brown	5



DIAMOND PASTES IN JARS

WODEX

NEW

ITEM: G7965

Diamond pastes in 100 gram jar characterised by high mineral density. Water-soluble monocrystalline diamond for lapping and polishing operations. High removal capacity and easy product removal after use.

Tech. Code	Micron	Colour	Content g
G796510001	1	Neutral	100
G796510003	3	Yellow	100
G796510006	6	Orange	100
G796510009	9	Green	100
G796510015	15	Blue	100
G796510030	30	Red	100
G796510045	45	Brown	100



INFORMATION FOR USE

Metal cleaning and polishing is becoming increasingly important in order to meet the needs of today's customers. Below we offer a standard selection of products that can be used for most operations that are carried out with cleaning machines.
Fabric wheels should always be used with abrasive pastes and normally work at a speed of about 40 m/sec.
Various types of fabrics are available on request in all sizes to meet any requirement.



STITCHED SISAL MOPS FOR CLEANING METALS

ITEM: SISAL

Specific discs for roughing and pre-polishing operations. High in density, they are generally used with coarser abrasive pastes. The Sisal fabric guarantees good abrasive capacity and moderate hygroscopicity. Its compactness and hardness ensure a high cutting capacity. Suitable for use on all steels and metals in general.



Tech. Code		G595215020	G595220020	G595225020	G595230020
Diameter	mm	150	200	250	300
Width *	mm	16	16	16	16
Hole	mm	20	20	20	20

* The width due to the nature of the product is quite approximate.

QUILTED COTTON POLISHING DISCS

ITEM: COTONE

Medium/high density and toughness disc, excellent cleaning performance. Good hygroscopic absorption. Specific for ferrous and non-ferrous metals. Used in polishing operations with abrasive pastes. Also used in gold and silver finishing. The 20 mm bore fits well up to 25 mm shafts.



Tech. Code		G595515010	G595520020	G595525020	G595530020
Diameter	mm	150	200	250	300
Width *	mm	15	15	15	15
Hole	mm	20	20	20	20

* The width due to the nature of the product is quite approximate.

QUILTED CLOTH DISCS

ITEM: PANNO

Quilted military cloth discs for use with diamond polishing pastes. Softer than cotton discs, they guarantee a shiny or mirror finish. suitable on all metals and particularly on stainless steel. The 20 mm bore fits well up to 25 mm shafts.



Tech. Code		G595715020	G595720020	G595725020	G595730020
Diameter	mm	150	200	250	300
Width *	mm	15	15	15	15
Hole	mm	20	20	20	20

* The width due to the nature of the product is quite approximate.

VENTILATED COTTON POLISHING DISCS

ITEM: COTONE VENTILATO

Medium density hard-wearing disc, excellent cleaning performance. Good hydroscopic absorbency. Specific for ferrous and non-ferrous metals. The ventilation allows to the tool to be kept cooler, especially on automatic machines with very intense work cycles. The slightly crossed cut allows an improved and more uniform finish.



Tech. Code		G596015020G	G596020020G	G596025025C
Diameter	mm	150	200	250
Width *	mm	15	15	15
Hole	mm	20	20	20

* The width due to the nature of the product is quite approximate.

SHANK MOUNTED VENTILATED COTTON DISCS

ITEM: COTONE 20/20 VENTILATO

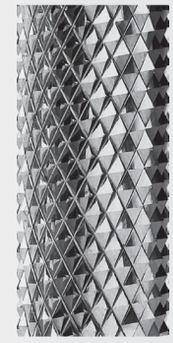
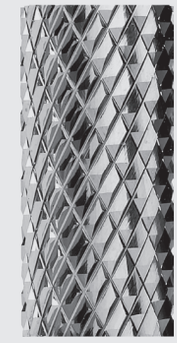
Ventilated cotton disc mounted on a D.6 shank and can therefore be used on straight grinders.



Tech. Code		G5961D6	G5961100
Diameter		Shank	Disc
Width *	mm	6	100
Hole	mm	-	Conical
Hole	mm	-	Conico

* The width due to the nature of the product is quite approximate.

TECHNICAL INFO
CARBIDE ROTARY CUTTERS - CUTTING SPEED

	CUTTING 1	CUTTING 3	CUTTING 4	CUTTING 6
				
CARBON STEEL		300 - 450	250 - 450	300 - 500
INOX			250 - 350	200 - 450
CAST IRON			200 - 350	300 - 450
ALLUMINIUM	800 - 1,000			
BRASS AND COPPER		600 - 800		500 - 800
HARDENED			250 - 400	150 - 300

EXAMPLES OF PROCESSING AND RECOMMENDED FORMS

 ZYAS type

 KUD type

 WRC type

 RBF type

 SPG type

 SKM type

 KEL type

 TREE type



WODEX mro

Perfect ergonomics

CARBIDE ROTARY BURRS - ZYAS TYPE

WODEX



ITEM: WX7450

Cylinder-shaped with cutting on the perimeter and at the head. Suitable for machining all materials of various strengths. Ideal for deburring work.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G60101,5833	1.5 x 8	3	40	3
G601021033	2 x 10	3	40	3
G601021034	2 x 10	3	40	4
G60102,51233	2.5 x 12	3	40	3
G601031333	3 x 13	3	40	3
G601031334	3 x 13	3	40	4
G601041033	4 x 10	3	45	3
G601041034	4 x 10	3	45	4
G601041036	4 x 10	3	45	6
G601041361	4 x 13	6	50	1
G601041363	4 x 13	6	50	3
G601041364	4 x 13	6	50	4
G601041366	4 x 13	6	50	6
G601051233	5 x 12	3	47	3
G601051234	5 x 12	3	47	4
G601051236	5 x 12	3	47	6
G601061333	6 x 13	3	48	3
G601061334	6 x 13	3	48	4
G601061336	6 x 13	3	48	6
G601061661	6 x 16	6	50	1
G601061663	6 x 16	6	50	3

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G601061664	6 x 16	6	50	4
G601061666	6 x 16	6	50	6
G601082061	8 x 20	6	65	1
G601082063	8 x 20	6	65	3
G601082064	8 x 20	6	65	4
G601082066	8 x 20	6	65	6
G6010102061	10 x 20	6	65	1
G6010102063	10 x 20	6	65	3
G6010102064	10 x 20	6	65	4
G6010102066	10 x 20	6	65	6
G6010122561	12 x 25	6	70	1
G6010122563	12 x 25	6	70	3
G6010122564	12 x 25	6	70	4
G6010122566	12 x 25	6	70	6
G6010162561	16 x 25	6	70	1
G6010162563	16 x 25	6	70	3
G6010162564	16 x 25	6	70	4
G6010162566	16 x 25	6	70	6
G6010202563	20 x 25	6	70	3
G6010202564	20 x 25	6	70	4
G6010202566	20 x 25	6	70	6

CARBIDE ROTARY BURRS WITH EXTENDED SHANK - ZYAS TYPE

WODEX



ITEM: WX7450L

Cylinder-shaped with cutting on the perimeter and at the head. Suitable for machining all materials of various strengths. Ideal for deburring work.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G616061863	6 x 18	6	150	3
G616061864	6 x 18	6	150	4
G616061866	6 x 18	6	150	6
G616081863	8 x 20	6	150	3
G616081864	8 x 20	6	150	4
G616081866	8 x 20	6	150	6

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6160102063	10 x 20	6	150	3
G6160102064	10 x 20	6	150	4
G6160102066	10 x 20	6	150	6
G6160122563	12 x 25	6	150	3
G6160122564	12 x 25	6	150	4
G6160122566	12 x 25	6	150	6

CARBIDE ROTARY BURRS - KUD TYPE

WODEX



ITEM: WX7453

Sphere-shaped. Suitable for machining all materials of various strengths. Ideal for machining profiles, deburring the inside of holes and pre-milling for build-up welds.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G60301,5133	1.5 x 1.35	3	40	3
G60301,5134	1.5 x 1.35	3	40	4
G60301,5136	1.5 x 1.35	3	40	6
G603021,533	2 x 1.8	3	40	3
G603021,534	2 x 1.8	3	40	4
G603021,536	2 x 1.8	3	40	6
G60302,5233	2.5 x 2.2	3	40	3
G60302,5234	2.5 x 2.2	3	40	4
G60302,5236	2.5 x 2.2	3	40	6
G603032,533	3 x 2.7	3	40	3
G603032,534	3 x 2.7	3	40	4
G603032,536	3 x 2.7	3	40	6
G603043,533	4 x 3.6	3	38.5	3
G603043,534	4 x 3.6	3	38.5	4
G603043,536	4 x 3.6	3	38.5	6
G603043,561	4 x 3.6	6	50	1
G603043,563	4 x 3.6	6	50	3
G603043,564	4 x 3.6	6	50	4
G603043,566	4 x 3.6	6	50	6
G60305433	5 x 4.5	3	39.5	3
G60305434	5 x 4.5	3	39.5	4

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G60305436	5 x 4.5	3	39.5	6
G60306533	6 x 5.4	3	40	3
G60306534	6 x 5.4	3	40	4
G60306536	6 x 5.4	3	40	6
G60306561	6 x 5.4	6	50	1
G60306563	6 x 5.4	6	50	3
G60306564	6 x 5.4	6	50	4
G60306566	6 x 5.4	6	50	6
G60308763	8 x 7.2	6	52	3
G60308764	8 x 7.2	6	52	4
G60308766	8 x 7.2	6	52	6
G603010963	10 x 9	6	54	3
G603010964	10 x 9	6	54	4
G603010966	10 x 9	6	54	6
G6030121163	12 x 10.8	6	56	3
G6030121164	12 x 10.8	6	56	4
G6030121166	12 x 10.8	6	56	6
G6030161563	16 x 14.4	6	60	3
G6030161564	16 x 14.4	6	60	4
G6030161566	16 x 14.4	6	60	6

CARBIDE ROTARY BURRS - WRC TYPE



ITEM: WX7456

Cylindrical shape with spherical head. Suitable for machining all materials of various strengths.
Ideal for machining surfaces, profiles and the pre-milling of build-up welds.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G60501,5833	1.5 x 8	3	40	3
G60501,5834	1.5 x 8	3	40	4
G60501,5836	1.5 x 8	3	40	6
G605021033	2 x 10	3	40	3
G605021034	2 x 10	3	40	4
G605021036	2 x 10	3	40	6
G60502,51233	2.5 x 12	3	40	3
G60502,51234	2.5 x 12	3	40	4
G60502,51236	2.5 x 12	3	40	6
G605031433	3 x 14	3	40	3
G605031434	3 x 14	3	40	4
G605031436	3 x 14	3	40	6
G605041033	4 x 10	3	45	3
G605041034	4 x 10	3	45	4
G605041036	4 x 10	3	45	6
G605041461	4 x 13	6	50	1
G605041463	4 x 13	6	50	3
G605041464	4 x 13	6	50	4
G605041466	4 x 13	6	50	6
G605051233	5 x 12	3	47	3
G605051234	5 x 12	3	47	4
G605051236	5 x 12	3	47	6

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G605061433	6 x 13	3	48	3
G605061436	6 x 13	3	48	6
G605061861	6 x 16	6	50	1
G605061863	6 x 16	6	50	3
G605061864	6 x 16	6	50	4
G605061866	6 x 16	6	50	6
G605082061	8 x 20	6	65	1
G605082063	8 x 20	6	65	3
G605082064	8 x 20	6	65	4
G605082066	8 x 20	6	65	6
G6050102061	10 x 20	6	65	1
G6050102063	10 x 20	6	65	3
G6050102064	10 x 20	6	65	4
G6050102066	10 x 20	6	65	6
G6050122561	12 x 25	6	70	1
G6050122563	12 x 25	6	70	3
G6050122564	12 x 25	6	70	4
G6050122566	12 x 25	6	70	6
G6050162561	16 x 25	6	70	1
G6050162563	16 x 25	6	70	3
G6050162564	16 x 25	6	70	4
G6050162566	16 x 25	6	70	6

CARBIDE ROTARY BURRS WITH EXTENDED SHANK - WRC TYPE



ITEM: WX7456L

Cylindrical shape with spherical head. Suitable for machining all materials of various strengths.
Ideal for machining surfaces, profiles and the pre-milling of build-up welds.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G616161863	6 x 18	6	150	3
G616161864	6 x 18	6	150	4
G616161866	6 x 18	6	150	6
G616181863	8 x 20	6	150	3
G616181864	8 x 20	6	150	4
G616181866	8 x 20	6	150	6

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6161102063	10 x 20	6	150	3
G6161102064	10 x 20	6	150	4
G6161102066	10 x 20	6	150	6
G6161122563	12 x 25	6	150	3
G6161122564	12 x 25	6	150	4
G6161122566	12 x 25	6	150	6

CARBIDE ROTARY BURRS - RBF TYPE



ITEM: WX7459

Tree-shaped. Suitable for machining all materials of various strengths.
Ideal for machining narrow profiles.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G607031433	3 x 13	3	40	3
G607031434	3 x 13	3	40	4
G607031436	3 x 13	3	40	6
G607041033	4 x 10	3	45	3
G607041034	4 x 10	3	45	4
G607041036	4 x 10	3	45	6
G607041461	4 x 14	6	50	1
G607041463	4 x 14	6	50	3
G607041464	4 x 14	6	50	4
G607041466	4 x 14	6	50	6
G607051233	5 x 12	3	47	3
G607051234	5 x 12	3	47	4
G607051236	5 x 12	3	47	6
G607061433	6 x 13	3	48	3
G607061434	6 x 13	3	48	4
G607061436	6 x 13	3	48	6
G607061861	6 x 18	6	50	1
G607061863	6 x 18	6	50	3

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G607061864	6 x 18	6	50	4
G607061866	6 x 18	6	50	6
G607081661	8 x 20	6	65	1
G607081663	8 x 20	6	65	3
G607081664	8 x 20	6	65	4
G607081666	8 x 20	6	65	6
G6070102061	10 x 20	6	65	1
G6070102063	10 x 20	6	65	3
G6070102064	10 x 20	6	65	4
G6070102066	10 x 20	6	65	6
G6070122561	12 x 25	6	70	1
G6070122563	12 x 25	6	70	3
G6070122564	12 x 25	6	70	4
G6070122566	12 x 25	6	70	6
G6070162861	16 x 30	6	75	1
G6070162863	16 x 30	6	75	3
G6070162864	16 x 30	6	75	4
G6070162866	16 x 30	6	75	6

CARBIDE ROTARY BURRS - SPG TYPE

WODEX



ITEM: WX7462

Ogive-shaped. Suitable for machining all materials of various strengths.
Ideal for machining narrow profiles and acute angles.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G609031433	3 x 13	3	40	3
G609031434	3 x 13	3	40	4
G609031436	3 x 13	3	40	6
G609041033	4 x 10	3	45	3
G609041034	4 x 10	3	45	4
G609041036	4 x 10	3	45	6
G609041461	4 x 14	6	50	1
G609041463	4 x 14	6	50	3
G609041464	4 x 14	6	50	4
G609041466	4 x 14	6	50	6
G609051233	5 x 12	3	47	3
G609051236	5 x 12	3	47	6
G609061433	6 x 13	3	48	3
G609061434	6 x 13	3	48	4
G609061436	6 x 13	3	48	6
G609061861	6 x 18	6	50	1
G609061863	6 x 18	6	50	3
G609061864	6 x 18	6	50	4

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G609061866	6 x 18	6	50	6
G609081661	8 x 20	6	65	1
G609081663	8 x 20	6	65	3
G609081664	8 x 20	6	65	4
G609081666	8 x 20	6	65	6
G6090102061	10 x 20	6	65	1
G6090102063	10 x 20	6	65	3
G6090102064	10 x 20	6	65	4
G6090102066	10 x 20	6	65	6
G6090122561	12 x 25	6	70	1
G6090122563	12 x 25	6	70	3
G6090122564	12 x 25	6	70	4
G6090122566	12 x 25	6	70	6
G6090162861	16 x 30	6	75	1
G6090162863	16 x 30	6	75	3
G6090162864	16 x 30	6	75	4
G6090162866	16 x 30	6	75	6

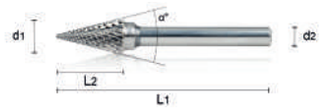
CARBIDE ROTARY BURRS - SKM TYPE

WODEX



ITEM: WX7465

Pointed cone shape. Suitable for machining all materials of various strengths.
Ideal for machining narrow profiles, acute angles and surfaces.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut	α°
G611031433	3 x 11	3	40	3	12
G611031434	3 x 11	3	40	4	12
G611031436	3 x 11	3	40	6	12
G611041033	4 x 10	3	45	3	19
G611041034	4 x 10	3	45	4	19
G611041036	4 x 10	3	45	6	19
G611041261	4 x 14	6	50	1	13
G611041263	4 x 14	6	50	3	13
G611041264	4 x 14	6	50	4	13
G611041266	4 x 14	6	50	6	13
G611051233	5 x 12	3	47	3	20
G611051234	5 x 12	3	47	4	20
G611051236	5 x 12	3	47	6	20
G611061433	6 x 13	3	48	3	23
G611061434	6 x 13	3	48	4	23
G611061436	6 x 13	3	48	6	23
G611061861	6 x 18	6	50	1	16
G611061863	6 x 18	6	50	3	16

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut	α°
G611061864	6 x 18	6	50	4	16
G611061866	6 x 18	6	50	6	16
G611081561	8 x 15	6	60	1	20
G611081563	8 x 15	6	60	3	20
G611081564	8 x 15	6	60	4	20
G611081566	8 x 15	6	60	6	20
G6110101861	10 x 20	6	65	1	25
G6110101863	10 x 20	6	65	3	25
G6110101864	10 x 20	6	65	4	25
G6110101866	10 x 20	6	65	6	25
G6110122061	12 x 25	6	70	1	25
G6110122063	12 x 25	6	70	3	25
G6110122064	12 x 25	6	70	4	25
G6110122066	12 x 25	6	70	6	25
G6110162261	16 x 25	6	70	1	32
G6110162263	16 x 25	6	70	3	32
G6110162264	16 x 25	6	70	4	32
G6110162266	16 x 25	6	70	6	32

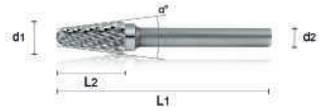
CARBIDE ROTARY BURRS - KEL TYPE

WODEX



ITEM: WX7468

Cone-shaped with rounded point. Suitable for machining all materials of various strengths.



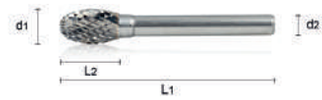
Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut	α°
G613031434	3 x 14	3	40	4	6
G613031436	3 x 14	3	40	6	6
G613041433	4 x 14	3	49	3	10
G613041434	4 x 14	3	49	4	10
G613041436	4 x 14	3	49	6	10
G613041461	4 x 14	6	50	1	10
G613041463	4 x 14	6	50	3	10
G613041464	4 x 14	6	50	4	10
G613041466	4 x 14	6	50	6	10
G613051633	5 x 16	3	51	3	10
G613051634	5 x 16	3	51	4	10
G613051636	5 x 16	3	51	6	10
G613062033	6 x 20	3	55	3	10
G613062034	6 x 20	3	55	4	10
G613062036	6 x 20	3	55	6	10
G613062061	6 x 20	6	50	1	10
G613062063	6 x 20	6	50	3	10
G613062064	6 x 20	6	50	4	10

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut	α°
G613062066	6 x 20	6	50	6	10
G613082461	8 x 20	6	65	1	14
G613082463	8 x 20	6	65	3	14
G613082464	8 x 20	6	65	4	14
G613082466	8 x 20	6	65	6	14
G6130102861	10 x 20	6	65	1	18
G6130102863	10 x 20	6	65	3	18
G6130102864	10 x 20	6	65	4	18
G6130102866	10 x 20	6	65	6	18
G6130123061	12 x 30	6	75	1	18
G6130123063	12 x 30	6	75	3	18
G6130123064	12 x 30	6	75	4	18
G6130123066	12 x 30	6	75	6	18
G6130163861	16 x 30	6	75	1	25
G6130163863	16 x 30	6	75	3	25
G6130163864	16 x 30	6	75	4	25
G6130163866	16 x 30	6	75	6	25

CARBIDE ROTARY BURRS - TREE TYPE

ITEM: WX7471

Drop-shaped, suitable for machining all materials of various strengths.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G61503533	3 x 7	3	40	3
G61503534	3 x 7	3	40	4
G61503536	3 x 7	3	40	6
G61504633	4 x 7	3	42	3
G61504634	4 x 7	3	42	4
G61504636	4 x 7	3	42	6
G61504661	4 x 7	6	50	1
G61504663	4 x 7	6	50	3
G61504664	4 x 7	6	50	4
G61504666	4 x 7	6	50	6
G61505833	5 x 8	3	43	3
G61505834	5 x 8	3	43	4
G61505836	5 x 8	3	43	6
G61506933	6 x 10	3	45	3
G61506934	6 x 10	3	45	4
G61506936	6 x 10	3	45	6
G61506961	6 x 10	6	50	1
G61506963	6 x 10	6	50	3

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G61506964	6 x 10	6	50	4
G61506966	6 x 10	6	50	6
G615081461	8 x 13	6	59	1
G615081463	8 x 13	6	59	3
G615081464	8 x 13	6	59	4
G615081466	8 x 13	6	59	6
G6150101661	10 x 16	6	61	1
G6150101663	10 x 16	6	61	3
G6150101664	10 x 16	6	61	4
G6150101666	10 x 16	6	61	6
G6150122161	12 x 20	6	66	1
G6150122163	12 x 20	6	66	3
G6150122164	12 x 20	6	66	4
G6150122166	12 x 20	6	66	6
G6150162561	16 x 25	6	70	1
G6150162563	16 x 25	6	70	3
G6150162564	16 x 25	6	70	4
G6150162566	16 x 25	6	70	6

CARBIDE ROTARY BURRS FOR DIES

ITEM: WX7480

Cylinder-shaped with cutting on the perimeter and at the head.
Suitable for machining dies and moulds.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G617016506	1 x 6	3	50	6
G61701,58506	1.5 x 8	3	50	6
G6170210506	2 x 10	3	50	6
G6170210656	2 x 10	3	65	6

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G61702,512506	2,5 x 12	3	50	6
G61702,512656	2,5 x 12	3	65	6
G6170314506	3 x 14	3	50	6
G6170314656	3 x 14	3	65	6

CARBIDE ROTARY BURRS - ZYAS TYPE - IN KIT

ITEM: WX7450/S5

Selection of 5 rotary burrs, including G6010, 6mm shank cut 6. Cylinder-shaped with cutting on the perimeter and at the head.
Suitable for machining all materials of various strengths, ideal for deburring operations.



Tech. Code	G6015BOX1
Description	Assortment D 4 - 6 - 8 - 10 - 12
Pcs	5

CARBIDE ROTARY BURRS - WRC TYPE - IN KIT

ITEM: WX7456/S5

Selection of 5 rotary burrs, including G6050, 6mm shank cut 6.
Cylindrical shape with spherical head. Suitable for machining all materials of various strengths, ideal for machining surfaces, profiles and for the pre-milling of build-up welds.



Tech. Code	G6055BOX1
Description	Assortment D 4 - 6 - 8 - 10 - 12
Pcs	5

CARBIDE ROTARY BURRS - RBF TYPE - IN KIT

ITEM: WX7459/S5

Selection of 5 rotary burrs, including G6070, 6mm shank cut 6. Suitable for machining all materials of various strengths. Ideal for machining narrow profiles.



Tech. Code	G6075BOX1
Description	Assortment D 4 - 6 - 8 - 10 - 12
Pcs	5

CARBIDE ROTARY BURRS
PFERD – TECHNICAL NOTES

Cut		Steel and steel casting	Stainless steel	Non ferrous materials	Cast iron	Plastic and others
Alu		-	-	N	-	H
3		-	-	N	K	-
3 PLUS		P	-	-	K	-
4		-	M	N	-	-
5		P	M	N	-	-

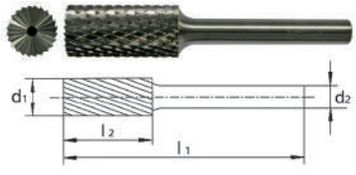
	Materials groups	Machining type	Cutting	Cutting speed
P	Carbon and construction steel. Steel used for tools, non-alloy steel, casehardened steel. Steel casting.	Coarse milling= high material removal	3 / 3 PLUS	450 - 600 m/min
P	Carbon and construction steel. Steel used for tools, non-alloy steel, casehardened steel. Steel casting.	Fine milling for ex. deburring	3	500 - 600 m/min
P	Tool steel, hardened and tempered steel, alloy steel with >35HRC mechanical resistance	Coarse milling= high material removal	3 / 3 PLUS	250 - 350 m/min
P	Tool steel, hardened and tempered steel, alloy steel with >35HRC mechanical resistance	Coarse milling= high material removal	4	250 - 350 m/min
P	Tool steel, hardened and tempered steel, alloy steel with >35HRC mechanical resistance	Fine milling for ex. deburring	5	300 - 400 m/min
M	Austenitic and ferritic stainless steel.	Coarse milling= high material removal	3 PLUS	250 - 350 m/min
M	Austenitic and ferritic stainless steel.	Coarse milling= high material removal	4	250 - 350 m/min
M	Austenitic and ferritic stainless steel.	Fine milling for ex. deburring	5	350 - 450 m/min
N	Aluminum, Brass, Copper, Zinc alloys.	Coarse milling= high material removal	Alu	600 - 900 m/min
N	Aluminum, Brass, Copper, Zinc alloys.	Fine milling for ex. deburring	Alu	800 - 900 m/min
N	Bronze, Titanium and related alloys. Extremely hard aluminum alloys (Yes>12%).	Coarse milling= high material removal	4	250 - 350 m/min
N	Bronze, Titanium and related alloys. Extremely hard aluminum alloys (Yes>12%).	Fine milling for ex. deburring	3	350 - 450 m/min
N	Nickel-based alloys. Cobalt-based alloys Exotic material alloys in general.	Coarse milling= high material removal	3 PLUS / 4	300 - 450 m/min
N	Nickel-based alloys. Cobalt-based alloys Exotic material alloys in general.	Fine milling for ex. deburring	5	350 - 500 m/min
K	Gray cast iron. Spheroidal cast iron.	Coarse milling= high material removal	3 / 3 PLUS	450 - 600 m/min
K	Gray cast iron. Spheroidal cast iron.	Fine milling for ex. deburring	3	500 - 600 m/min
H	Fibre reinforced synthetic materials Thermoplastic materials.	Coarse milling= high material removal	Alu	500 - 900 m/min
H	Fibre reinforced synthetic materials Thermoplastic materials.	Fine milling for ex. deburring	Alu	500 - 900 m/min

CARBIDE ROTARY BURRS

PFERD TOOLS

ITEM: ZYAS

Cylinder-shaped with cutting on the perimeter and in the head. Suitable for working all materials with different strengths. Ideal for deburring work.



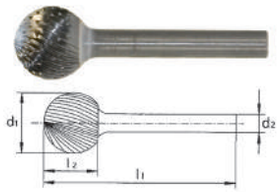
Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6210021035	2 x 10	3	40	5
G6210031333P	3 x 13	3	43	3P
G6210031335	3 x 13	3	43	5
G6210061333P	6 x 13	3	43	3P
G6210061663P	6 x 16	6	55	3P
G6210061664	6 x 16	6	55	4
G6210082063	8 x 20	6	60	3
G6210082063P	8 x 20	6	60	3P
G6210082064	8 x 20	6	60	4

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6210102063	10 x 20	6	60	3
G6210102063P	10 x 20	6	60	3P
G6210102064	10 x 20	6	60	4
G621012256ALU	12 x 25	6	65	ALU
G6210122563	12 x 25	6	65	3
G6210122563P	12 x 25	6	65	3P
G6210122564	12 x 25	6	65	4
G6210162563P	16 x 25	6	65	3P
G6210162564	16 x 25	6	65	4



ITEM: KUD

Sphere-shaped. Suitable for working all materials with different strengths. Ideal for machining profiles, deburring internal holes and in pre-processing millworking on fillet weld.



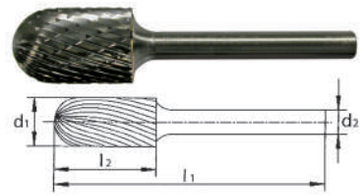
Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6230030233P	3 x 2	3	33	3P
G6230030234	3 x 2	3	33	4
G6230030235	3 x 2	3	33	5
G6230040333P	4 x 3	3	34	3P
G6230040334	4 x 3	3	34	4
G6230040335	4 x 3	3	34	5
G6230060533P	6 x 5	3	35	3P
G6230080763	8 x 7	6	47	3

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6230080763P	8 x 7	6	47	3P
G6230080764	8 x 7	6	47	4
G6230100964	10 x 9	6	49	4
G6230121063P	12 x 10.8	6	50	3P
G6230121064	12 x 10.8	6	50	4
G6230161463P	16 x 14.3	6	54	3P
G6230161464	16 x 14.3	6	54	4



ITEM: WRC

Cylinder-shaped with spherical head. Suitable for working all materials with different strengths. Ideal for machining surfaces, profiles, and in pre-processing millworking on fillet weld.



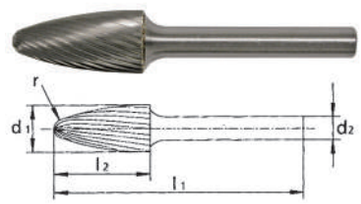
Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6240031333P	3 x 13	3	43	3P
G6240031334	3 x 13	3	43	4
G6240031335	3 x 13	3	43	5
G6240061335	6 x 13	3	43	5
G6240061663P	6 x 16	6	55	3P
G6240082063	8 x 20	6	60	3
G6240082063P	8 x 20	6	60	3P

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6240082064	8 x 20	6	60	4
G6240102063P	10 x 20	6	60	3P
G6240102064	10 x 20	6	60	4
G624012256ALU	12 x 25	6	65	ALU
G6240122563	12 x 25	6	65	3
G62401225363P	12 x 25	6	65	3P
G6240162563P	16 x 25	6	65	3P



ITEM: RBF

TREE shape. Suitable for working all materials with different strengths.
Ideal for working with narrow profiles.



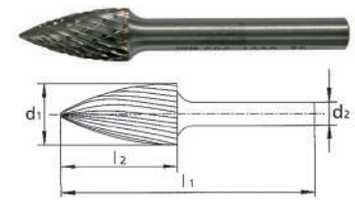
Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6250030735	3 x 7	3	37	5
G6250061333P	6 x 13	3	43	3P
G6250061335	6 x 13	3	43	5
G6250061863	6 x 18	6	55	3
G6250061863P	6 x 18	6	55	3P

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6250082063P	8 x 20	6	60	3P
G6250102063	10 x 20	6	60	3
G6250102063P	10 x 20	6	60	3P
G6250122563	12 x 25	6	65	3
G6250122563P	12 x 25	6	65	3P



ITEM: SPG

Ogive-shaped. Suitable for working all materials with different strengths.
Ideal for working with narrow profiles and acute angles.



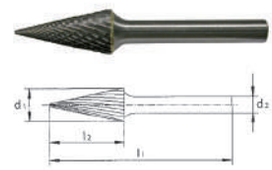
Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6260031335	3 x 13	3	43	5
G6260061334	6 x 13	3	43	4
G6260061863P	6 x 18	6	55	3P
G6260061864	6 x 18	6	55	4
G6260102063	10 x 20	6	60	3

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6260102064	10 x 20	6	60	4
G6260122563	12 x 25	6	65	3
G6260122563P	12 x 25	6	65	3P
G6260122564	12 x 25	6	65	4
G6260163063P	16 x 30	6	70	3P



ITEM: SKM

Pointed cone shape. Suitable for working all materials with different strengths.
Ideal for working with narrow profiles, acute angles and surfaces.



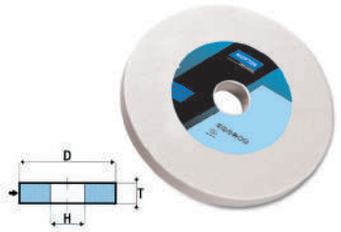
Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6270031134	3 x 11	3	41	4
G6270031135	3 x 11	3	41	5
G6270061333P	6 x 13	3	43	3P
G6270061335	6 x 13	3	43	5

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6270061863P	6 x 18	6	55	3P
G6270102063P	10 x 20	6	60	3P
G6270122563P	12 x 25	6	60	3P
G6270122564	12 x 25	6	60	4

A

ITEM: G7210

Aluminium oxide. Suitable for machining steel and super high-speed steel, general ferrous materials and hard bronze. Friable. Cool cutting action. First choice for sharpening HSS tools.
Abrasive 38A, colour white.



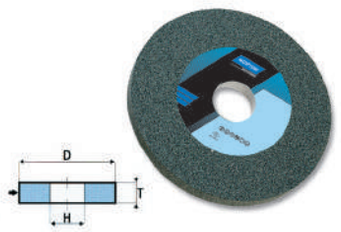
Tech. Code		G72101502020B	G72101502032	G72101502520	G72102002032
D x T x H	mm	150 x 20 x 32	150 x 20 x 32	150 x 25 x 20	200 x 20 x 32
Specification		38A46-MVS	38A60-NVS	38A60-MVS	38A60-NVS

Tech. Code		G72102002532	G72102002520	G72102502532B	G72102503232
D x T x H	mm	200 x 25 x 32	200 x 25 x 20	250 x 25 x 32	250 x 32 x 32
Specification		38A46-NVS	38A60-MVS	38A60-LVS	38A60-NVS

SiC

ITEM: G7205

Silicon carbide. Harder and sharper than aluminium oxide. Suitable for machining metal carbides, brass and soft bronze, copper, aluminium and its alloys and non-metallic materials. First choice for sharpening carbide tools.
Abrasive 39C, colour green.

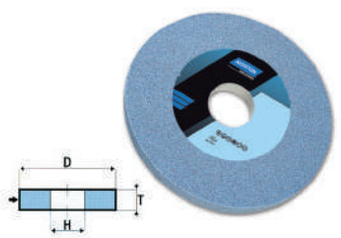


Tech. Code		G72051502020	G72051502520	G72052002020	G72052002520	G72052503232
D x T x H	mm	150 x 20 x 20	150 x 25 x 20	200 x 20 x 20	200 x 25 x 20	250 x 32 x 32
Specification		39C80-KVS	39C80-KVS	39C80-KVS	39C80-KVS	39C80-KVS

C

ITEM: G7220

High concentration SG Norton ceramic aluminum oxide. Self-restoring microcrystalline structure.
Outstanding cutting performances and long service life. Suitable for very hard steels.
Abrasive 35G, light blue colour.

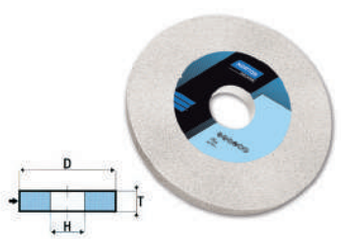


Tech. Code		G72201501032	G72201501632
D x T x H	mm	150 x 10 x 32	150 x 16 x 32
Specifications		3SG60-LVX	3SG60-LVX

C

ITEM: G7230

Next generation Quanton Norton + Vitrium ceramic abrasive.
Minimum clogging and significantly reduced heat development.
Unmatched removal performances and long life service up to 35%.
Highly versatile product. First choice for roughing and finishing operations on HSS steels.
Abrasive 2NQ + VITRIUM 3, ivory colour.



Tech. Code		G7230180133218	G72302002032
D x T x H	mm	180 x 13 x 32	200 x 20 x 32
Specifications		2NQ46I8VS3	2NQ60I8VS3

G

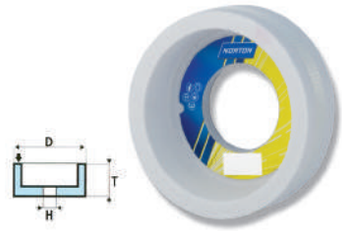
CUP GRINDING WHEELS

A

ITEM: G7305

Aluminum oxide. Suitable for machining steels and hardened steels. Machine use for surface grinding.
Abrasive 38A, white colour.

Tech. Code		G7305180AA	G7305200AA	G7305200BB
D x T x H	mm	180 x 76 x 78	200 x 82 x 78	200 x 82 x 78
Specification		38A36-JVS	38A36-HVS3	38A46-HVS3

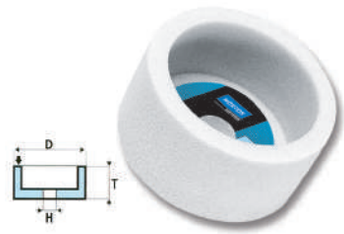


A

ITEM: G7310

Aluminum oxide. Suitable for machining SR steel. Use on universal sharpeners.
Abrasive 38A, white colour.

Tech. Code		G7310100A60	G7310100A80
D x T x H	mm	100 x 50 x 20	100 x 50 x 20
Specification		38A60-MVS	38A80-LVS

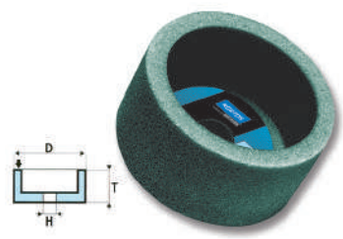


SiC

ITEM: G7315

Silicon carbide. Suitable for machining metal carbides. Use on universal sharpeners.
Abrasive 39C, green colour.

Tech. Code		G7315100CBO
D x T x H	mm	100 x 50 x 20
Specification		39C80-JVS



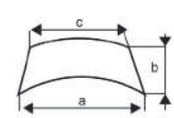
GRINDING SEGMENTS

A

ITEM: G7405

Aluminum oxide. SE shape. Suitable for working hardened steels.
Abrasive 38A, white colour.

Tech. Code		G7405A46VS3
a x c x b	mm	50 x 45 x 16
Length	mm	90
Specification		38A46HVS3

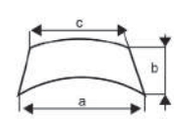




ITEM: G7410

High-performance ceramic oxide. SE shape. Suitable for machining steel and hardened steel . Machine use for surface grinding.
Abrasive 2NQ, ivory colour.

Tech. Code		G7410NQ46VS3
a x c x b	mm	50 x 45 x 16
Length	mm	90
Specification		2NQ46GVS3



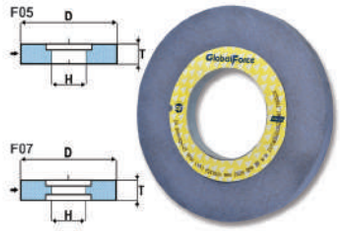


GRINDING WHEELS FOR FLAT SURFACE RECTIFYING PROCESSING

ITEM: GLOBAL FORCE

GF grinding wheels are characterised by a mixture of white aluminium oxide, monocrystal and ceramic. Excellent performance on common steels that are not particularly hard.
G7440P205 - Open, porous structure. For hard steels, excellent finish.
G7440P255 - Open, porous structure. Universal use for steels up to 50-55 Rockwell.
G7440P305 - Medium non-porous grinding wheel. Suitable for medium-soft steels and interrupted cutting.
G7440P357 - Open structure, porous. Universal use for steels up to 50-55 Rockwell.

Tech. Code		G7440P205	G7440P255	G7440P305	G7440P357
D x T x H	mm	355 x 50 x 127	406 x 50 x 127	406 x 50 x 127	406 x 76 x 127
Specification		GF54E12VXPM	GF46F12VXPC	GF46IVX	GF46F12VXPC
Shape		05	05	05	07

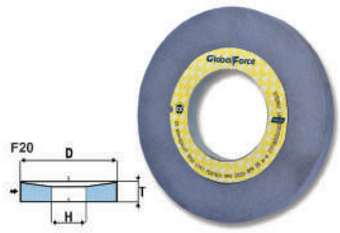


GRINDING WHEELS FOR EXTERNAL ROUND SURFACE RECTIFYING PROCESSING

ITEM: GLOBAL FORCE

GF grinding wheels are characterised by a mixture of white aluminium oxide, monocrystal and ceramic. Excellent performance on common steels that are not particularly hard.
G7450TE2020 - For soft steels
G7450TE2520 - For medium and hard steels up to 50-55 Rockwell
G7450P3020 - Universal, adapts well to many materials
G7450P3540 - For medium and hard steels up to 50-55 Rockwell

Tech. Code		G7450TE2020	G7450TE2520	G7450P3020	G7450P3540
D x T x H	mm	300 x 40 x 127	355 x 40 x 127	406 x 40 x 127	406 x 50 x 127
Specification		GF60-MVX	GF60-LVX	GF60-KVX	GF60-LVX
Shape		20	20	20	20

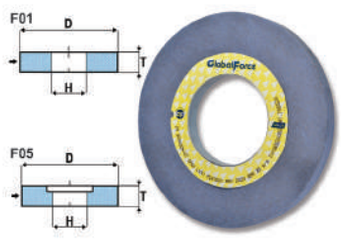


SPECIFIC GRINDING WHEELS FOR RECT. PROCESSING " JONES AND SHIPMAN"

ITEM: GLOBAL FORCE

GF grinding wheels are characterised by a mixture of white aluminium oxide, monocrystal and ceramic. Excellent performance on common steels that are not particularly hard.
G7460JS2005 - Suitable on soft steels, medium structure, excellent finish.
G7460JS2501 - Fine porosity grinding wheel, excellent stock removal and good surface finish.

Tech. Code		G7460JS2005	G7460JS2501
D x T x H	mm	180 x 20 x 31,75	200 x 20 x 31,75
Specification		3SG60JVS	3SG60GVSPF
Shape		05	01



Related products

NEW

NITRILE-COATED NYLON-POLYESTER GLOVES

Tech. Code	EU size
K235107	7
K235108	8
K235109	9



Products are available in CAP K

GRINDING WHEEL DRESSERS

ITEM: G7710

For dressing and sharpening. With a sturdy wooden handle. Stainless steel rolls.



Tech. Code		G771036	G771055	G7711R36	G7711R55
Wheel ø	mm	36	55	36	55
Length	mm	285	435	-	-
Toothed wheels	n°	3	4	3	4
Spare part		-	-	Wheel Ø36	Wheel Ø55

SILICON CARBIDE DRESSER STICKS

NORTON SAINT-GOBAIN

ITEM: 37C

For conventional grinding wheels. Round section.
Dark grey colour.





Tech. Code		G761020200C30	G761025200C30
Shape		●	●
D x L	mm	20 x 200	25 x 200
Specification		37C30-TV	37C30-TV

ALUMINUM OXIDE ABRASIVE STONES

NORTON SAINT-GOBAIN

ITEM: 38A

White corundum abrasive stones ideal for cleaning diamond and CBN wheels. Placed with a slight pressure on the wheels, they allow cleaning of the same while keeping the cut constant and uniform. The 320 grit stone is suitable for very fine grit wheels, up to a maximum of 76 grit. For coarser grits it is advisable to use the 220 grit stone.



Tech. Code		G76150220	G76150320
Shape		▬	▬
Dimension	mm	13 x 25 x 150	13 x 25 x 150
Specification		38A220	38A320

SINGLE DIAMOND DRESSERS

WRK

ITEM: G7625

Single diamond dressers good quality non-returnable. Suitable for dressing operations on abrasive wheels of various grain sizes. With cylindrical shank or morse taper.



Tech. Code		G762505010	G762510010	G762515010	G7625050CM1	G7625100CM1	G7625150CM1
Set		0,5	1,0	1,5	0,5	1,0	1,5
Shank	mm	Ø 10	Ø 10	Ø 10	CM 1	CM 1	CM 1
For grinding wheels Ø	mm	100 - 150	150 - 250	250 - 400	100 - 150	150 - 250	250 - 400

MULTIPLE DIAMOND DRESSERS

WRK

ITEM: G7635

Top quality multiple diamond dressers placed in 3 layers. Suitable for medium finishing grinding wheels on external and tangential grinding.



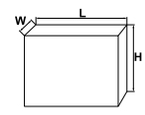
Tech. Code		G763520010	G7635200CM1
Kt		2,0	2,0
Shank	mm	Ø10	CM1
Ø head	mm	14	14

MANUAL DIAMOND DRESSERS

ITEM: G7640

Manual diamond dressing tool suitable for most bench wheels. The agglomerated diamond granules inside the plate ensure constant wear.



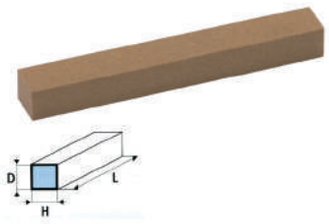


Tech. Code		G76402015A
L x H x W	mm	20 x 15 x 4,5
Carat	Kr	4

A

ITEM: G7505

Impregnation procedure with special oils. Homogeneous agglomeration, uniform hardness, dimensional accuracy.
Suitable for sharpening and touch-up deburring works. Square section.



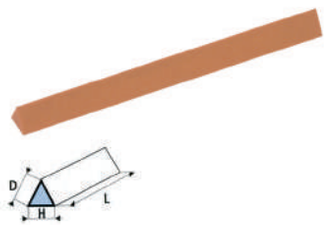
Tech. Code		G750513FF46	G750516MF56	G750519FF66	G750519MF66
Shape		■	■	■	■
D x H x L	mm	13 x 13 x 150	16 x 16 x 150	19 x 19 x 150	19 x 19 x 150
Specification		FF-46	MF-56	FF-66	MF-66

FF = Brick color fine grain
MF = Brown medium grain

A

ITEM: G7510

Impregnation procedure with special oils. Homogeneous agglomeration, uniform hardness, dimensional accuracy.
Suitable for sharpening and touch-up deburring works. Triangular section.



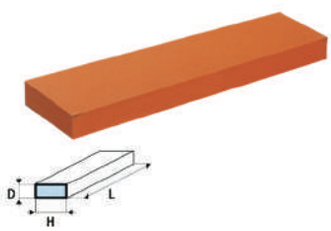
Tech. Code		G751010FF136	G751010MF136	G751013FF146	G751013MF146	G751016FF156	G751016MF156
Shape		▲	▲	▲	▲	▲	▲
D x H x L	mm	10 x 10 x 150	10 x 10 x 150	13 x 13 x 150	13 x 13 x 150	16 x 16 x 150	16 x 16 x 150
Specification		FF-136	MF-136	FF-146	MF-146	FF-156	MF-156

FF = Brick color fine grain
MF = Brown medium grain

A

ITEM: G7515

Impregnation procedure with special oils. Homogeneous agglomeration, uniform hardness, dimensional accuracy.
Suitable for sharpening and touch-up deburring works: Rectangular section.



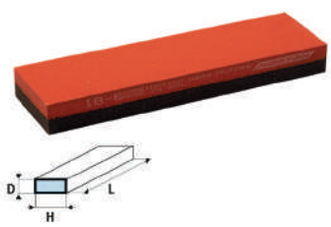
Tech. Code		G75150625FB14	G75150625MB14	G75151325FB24	G75151325MB24
Shape		▬	▬	▬	▬
D x H x L	mm	6 x 25 x 100	6 x 25 x 100	13 x 25 x 100	13 x 25 x 100
Specification		FB-14	MB-14	FB-24	MB-24

Tech. Code		G75151338MB26	G75151650MB36	G75152550FB8	G75152550MB8
Shape		▬	▬	▬	▬
D x H x L	mm	13 x 38 x 150	16 x 50 x 150	25 x 50 x 200	25 x 50 x 200
Specification		MB-26	MB-36	FB-8	MB-8

A

ITEM: G7520

Impregnation procedure with special oils. Homogeneous agglomeration, uniform hardness, dimensional accuracy. Suitable for sharpening and touch-up deburring works: Rectangular section.
Combined grain.



Tech. Code		G75202550IB6
Shape		▬
D x H x L	mm	25 x 50 x 150
Specification		38A320-SV / 57A100-OV

Combined grain

SYNTHERIZED BORON CARBIDE HAND LAPPING, GRIT-BIT

ITEM: GRIT-BIT

Grit-Bit represents a long-service life, high-performance, cost-effective tool A 2X magnifier built in the handle allows for an accurate check of the tool's cutting edge.

Main features:
It helps prevent chipping of hard metal inserts, burr and roughness that may develop on the cutting edge subsequent to the sharpening process is completely avoided.



Tech. Code	G8710240	G8710320	G8710400	G8710600
Shape	Flat	Flat	Flat	Flat
Model	GB-240	GB-320	GB-400	GB-400
Application	Degreasing	Sanding	Lapping	Ultra-fine
Grit	240	320	400	600

GESSWEIN ABRASIVE STONES - DIE MAKER (DF)

A

ITEM: G7800

Medium-hard stones made of aluminum oxide.
They combine fast cutting and moderate friability. Ideal for general use on hard and soft steel such as 2344, 2311, 2083 and to pre-finish aluminum.



Tech. Code	Dimension mm	Grit
G78006X3400	6 x 3 x 150	400
G78006X3600	6 x 3 x 150	600
G78006X3900	6 x 3 x 150	900
G780513X6150	13 x 6 x 150	150
G780513X6220	13 x 6 x 150	220
G780513X6320	13 x 6 x 150	320
G780513X6400	13 x 6 x 150	400

GESSWEIN ABRASIVE STONES - EDM

A

ITEM: G7810 - G7815

They remove the tough and tenacious deposits produced during electro-erosion processes much faster than any other stone. They contain very sharp Premium aluminum oxide for fast cutting action. A special clay-based binder allows EDM stones to keep their shape well during the machining of small details and live angles.
They crumble slowly, cut fast and do not paste up.



Tech. Code	Dimension mm	Grit
G78106X3120	6 x 3 x 150	120
G78106X3180	6 x 3 x 150	180
G78106X3220	6 x 3 x 150	220
G78106X3320	6 x 3 x 150	320
G78106X3400	6 x 3 x 150	400
G78106X3600	6 x 3 x 150	600
G781513X6120	13 x 6 x 150	120
G781513X6180	13 x 6 x 150	180
G781513X6220	13 x 6 x 150	220
G781513X6320	13 x 6 x 150	320
G781513X6400	13 x 6 x 150	400

GESSWEIN ABRASIVE STONES - OIL TREATED (OT)

A

ITEM: G7820

Medium hard stones with White Aluminum Oxide impregnated with oil; can be used without lubrication.
Excellent for machined surfaces, fine cutting.
They maintain their form well to polish the details of the moulds, moderate crushing.



Tech. Code	Dimension mm	Grit
G78206X3120	6 x 3 x 150	120
G78206X3220	6 x 3 x 150	220
G78206X3320	6 x 3 x 150	320
G78206X3400	6 x 3 x 150	400
G78206X3600	6 x 3 x 150	600
G78206X31200	6 x 3 x 150	1200
G782513X6120	13 x 6 x 150	120
G782513X6220	13 x 6 x 150	220
G782513X6320	13 x 6 x 150	320
G782513X6400	13 x 6 x 150	400

CERAMIC FIBRE STONES

ITEM: G7850

The long ceramic fibres and a special hardening resin make these stones flexible and heat-resistant, ideal for finishing in tight spaces. Primarily intended for use with ultrasound equipment but will also provide good performance with manual filing machines or by hand.

Tech. Code	Colour	Dimension mm	Grain size
G78501X4120	Green	1 x 4 x 100	120
G78501X4180	Gold	1 x 4 x 100	180
G78501X4300	Brown	1 x 4 x 100	300
G78501X4400	Orange	1 x 4 x 100	400
G78501X4600	Grey	1 x 4 x 100	600
G78501X4800	Blue	1 x 4 x 100	800
G78501X41000	White	1 x 4 x 100	1000
G78501X41200	Red	1 x 4 x 100	1200
G78551X6120	Green	1 x 6 x 100	120
G78551X6180	Gold	1 x 6 x 100	180
G78551X6300	Brown	1 x 6 x 100	300
G78551X6400	Orange	1 x 6 x 100	400
G78551X6600	Grey	1 x 6 x 100	600
G78551X6800	Blue	1 x 6 x 100	800
G78551X61000	White	1 x 6 x 100	1000
G78551X61200	Red	1 x 6 x 100	1200
G78651X10120	Green	1 x 10 x 100	120
G78651X10180	Gold	1 x 10 x 100	180
G78651X10300	Brown	1 x 10 x 100	300
G78651X10400	Orange	1 x 10 x 100	400
G78651X10600	Grey	1 x 10 x 100	600
G78651X101000	White	1 x 10 x 100	600
G78651X101200	Red	1 x 10 x 100	1200



CERAMIC FIBRE STONES

ITEM: G7875

The long ceramic fibres and a special hardening resin make these stones flexible and heat-resistant, ideal for finishing in tight spaces. Primarily intended for use with ultrasound equipment but will also provide good performance with the DIPROFIL filing machine or by hand.

Tech. Code	Colour	Dimension mm	Grain size
G7875D3120	Green	Ø 3 X 50	120
G7875D3180	Gold	Ø 3 X 50	180
G7875D3300	Brown	Ø 3 X 50	300
G7875D3400	Orange	Ø 3 X 50	400
G7875D3600	Grey	Ø 3 X 50	600
G7875D3800	Blue	Ø 3 X 50	800
G7875D31000	White	Ø 3 X 50	1000
G7875D31200	Red	Ø 3 X 50	1200
G7880D3120	Green	Ø 3 x 100	120
G7880D3180	Gold	Ø 3 x 100	180
G7880D3300	Brown	Ø 3 x 100	300
G7880D3400	Orange	Ø 3 x 100	400
G7880D3600	Grey	Ø 3 x 100	600
G7880D3800	Blue	Ø 3 x 100	800
G7880D31000	White	Ø 3 x 100	1000
G7880D31200	Red	Ø 3 x 100	1200



WOOD BARS FOR LAPPING AND POLISHING

ITEM: G7950

The wooden bars are ideal for use with diamond paste. They are made of laminated strips of wood bonded with a resin binder.

Tech. Code	Dimension mm	Material	Shape
G79503X3D	3 x 3 x 150	Hardwood = Resin-treated beechwood	■
G79504,5X4,5D	4.5 x 4.5 x 150	Hardwood = Resin-treated beechwood	■
G79506,5X6,5D	6.5 x 6.5 x 150	Hardwood = Resin-treated beechwood	■
G79553X7D	3 x 7 x 150	Hardwood = Resin-treated beechwood	▬
G79558X12,5D	8 x 12.5 x 150	Hardwood = Resin-treated beechwood	▬
G7960D3D	Ø 3 x 150	Hardwood = Resin-treated beechwood	●
G7960D4,5D	Ø 4.5 x 150	Hardwood = Resin-treated beechwood	●
G7960D6,5D	Ø 6.5 x 150	Hardwood = Resin-treated beechwood	●



SUPPORTS FOR ABRASIVE STONES

ITEM: G8010

Support for abrasive stones. Supports round stones Ø 6 mm and rectangular stones having a thickness of 3 mm and a width of 6 mm.



Tech. Code		G801066
Dim. supported	mm	Ø 6.0 - 3 x 6 - 6x6

ITEM: G8011

Support for round abrasive stones Ø 3 mm.



Tech. Code		G801130
Dim. supported	mm	Ø 3.0

ITEM: G8012

Support for rectangular abrasive stones.



Tech. Code		G801241	G801261	G8012101
Dim. supported	mm	4 x 1	6 x 1	10 x 1

ITEM: G8013

Support for rectangular abrasive stones with clamping screw. Suitable for 13x6 mm stones.



Tech. Code		G8013136
Dim. supported	mm	13 x 6

SUPPORT FOR ABRASIVE STONES

ITEM: G9341

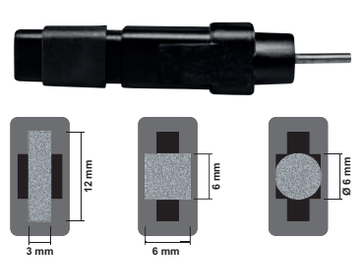
Support for rectangular abrasive stones usable with pneumatic filers. In burnished steel.



Tech. Code		G9341100
Round stem Ø	mm	4
Maximum opening	mm	6 x 13
Weight	g	41

ITEM: G9343

Support for abrasive stones in various shapes that can be used pneumatic filing machines.
In shockproof plastic.



Tech. Code		G9343100
Round stem Ø	mm	3
Maximum opening	mm	3x12 6x6 Ø6
Weight	g	17

USAGE INFORMATION FOR DIAMOND GRINDING WHEELS

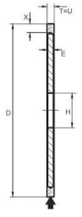
The extreme hardness of the diamond makes it valid in the processing of hard metal, glass, graphite, precious metals and all synthetic materials reinforced with fibers. Being the same carbon compound it is not suitable for machining steel. Cubic boron nitride (CBN), on the other hand, is particularly suitable for the machining of hardened steel above 50 Rockwell and superrapid steel (HSS).



DIAMOND CUTTING DISCS SHAPE 1A1R

ITEM: G7731

High-performance cut-off wheel for hard metal. Can be used with stationary manual or automatic parting-off systems, usually wet. Recommended working speed 50 m/s.



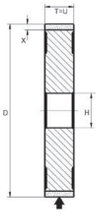


Tech. Code		G77311251126
D	mm	125
T	mm	1
H	mm	20
X	mm	5
Specification		D126 C100 B

DIAMOND WHEELS FORM 1A1

ITEM: G7736

Resin bonded diamond grinding wheels for hard metal working. For grounded, rounded and centerless grinding. Allows you to work with a high degree of precision. The high removal efficiency combined with reduced wear allows a considerable economic advantage over conventional silicon carbide wheels. Recommended lubrication. Max working speed 63 m/s



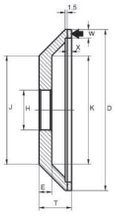


Tech. Code		G773610010126
D	mm	100
T	mm	10
H	mm	20
X	mm	3
Specification		11 D126 C75 B52 AL

DIAMOND WHEELS FORM 12A2D

ITEM: G7746

Resin bonded grinding wheels for sharpening and grinding, typically dry, to carbide cutting tools. Compared to traditional silicon carbide wheels, they offer greater durability and greater dimensional accuracy.



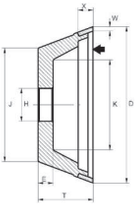


Tech. Code		G77461002564	G774610025126
D	mm	100	100
T	mm	25	25
H	mm	20	20
W - X	mm	6 x 2	6 x 2
Specification		11 D64 C50 B52 AL	11 D126 C75 B52 AL

DIAMOND WHEELS FORM 11V9

ITEM: G7751

Resin bonded grinding wheels for sharpening and grinding, typically dry, to carbide cutting tools. Compared to traditional silicon carbide wheels, they offer greater durability and greater dimensional accuracy.



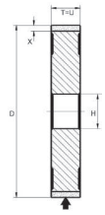


Tech. Code		G77511003564	G775110035126
D	mm	100	100
T	mm	35	35
H	mm	20	20
W - X	mm	3 x 10	3 x 10
Specification		11 D64 C50 B DIAGO	11 D126 C75 B DIAGO

WHEELS OF CBN FORM 1A1

ITEM: G7760

Resin bonded CBN grinding wheels for machinining high-alloy and super-rapid steel. For grounded, rounded and centerless grinding. Allows you to work a high degree of precision. The high removal efficiency combined with reduced wear allows a considerable economic advantage over conventional silicon carbide wheels. Recommended lubrication. Max working speed 63 m/s.



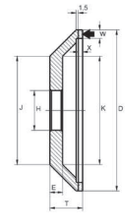


Tech. Code		G776010010126
D	mm	100
T	mm	10
H	mm	20
X	mm	6
Specification		51 B126 C50 B54 BA

WHEELS OF CBN FORM 12A2D

ITEM: G7770

CBN resin bonded grinding wheels for sharpening and grinding, typically dry, of cutting tools in non-alloy steels and super-rapid steels. Compared to traditional silicon carbide wheels, they offer greater durability and greater dimensional accuracy.



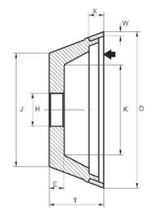


Tech. Code		G777010025126
D	mm	100
T	mm	25
H	mm	20
W - X	mm	6 x 2
Specification		51 B126 C50 B54 AL

WHEELS OF CBN FORM 11V9

ITEM: G7780

CBN resin bonded grinding wheels for sharpening and grinding, typically dry, of cutting tools in unalloyed and low alloy steel, highly alloyed steel and super-rapid steel. Compared to traditional silicon carbide wheels, they offer greater durability and greater dimensional accuracy.





Tech. Code		G778010035126
D	mm	100
T	mm	35
H	mm	20
W - X	mm	3 x 10
Specification		51 B126 C75 B

SHANK-MOUNTED DIAMOND GRINDERS

ITEM: G5610

EC-electroplated diamond for internal grinding. High speed removal, consistent profiling.

Tech. Code	D x T mm	Shank mm	Specification
G5610010040	1 x 4	3 x 40	D 107
G5610015040	1.5 x 4	3 x 40	D 107
G5610020050	2 x 5	3 x 40	D 107
G5610025060	2.5 x 6	3 x 40	D 107
G5610030060	3 x 6	3 x 40	D 107
G5610040060	4 x 6	3 x 40	D 107

Tech. Code	D x T mm	Shank mm	Specification
G5610050060	5 x 6	3 x 40	D 107
G5610060070	6 x 7	6 x 70	D 107
G5610080090	8 x 9	6 x 70	D 107
G5610100100	10 x 10	6 x 70	D 107
G5610120100	12 x 10	6 x 70	D 107



ITEM: G5613

Spherical head electroplated diamond for internal grinding. High speed removal, consistent profiling.

Tech. Code	D mm	Shank mm	Specification
G56130203	2	3 x 46	D126
G56130303	3	3 x 46	D126
G56130403	4	3 x 46	D126
G56130503	5	3 x 46	D126

Tech. Code	D mm	Shank mm	Specification
G56130603	6	3 x 46	D126
G56130803	8	3 x 46	D126
G56131003	10	3 x 46	D126

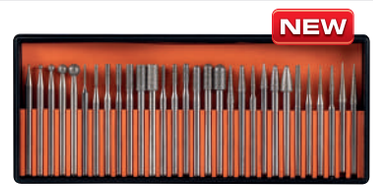


ELECTROPLATED DIAMOND AND CBN GRINDING WHEELS IN KITS

ITEM: G5630

Diamond and CBN grinding wheels in kits of 30 pcs. The kits consist of grinding wheels from Ø1 to Ø5 with 3 mm shank and in various shapes. 5 spherical, 7 cylindrical, 6 with rounded head and 12 conical

Diamond: for working hard metals, ceramics glass and fibreglass
CBN: for machining all carbon steels

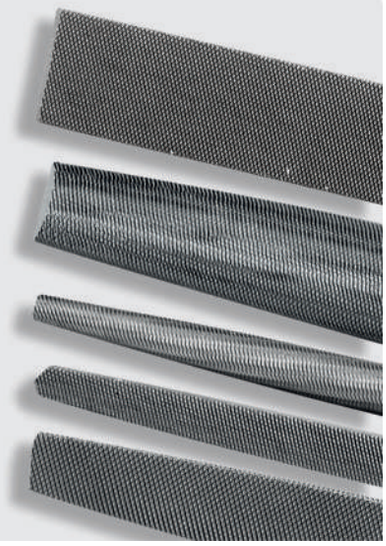


Tech. Code		G5630DIA	G5630CBN
Abrasive		Diamond	CBN
Grit		D107	B107
Shank	mm	3 x 40	3 x 40

APPLICATION AREAS OF FILES

The number of cuts in the files identifies the type of the same and refers to a number of teeth present in one centimeter of the file measured perpendicular to the axis of the same as in the table below. the greater number refers to a greater number of teeth per cm , therefore, as the number increases, the file will become more and more sweet. in mechanical files we define with cut 1 the bastard file, with cut 2 the medium soft and with cut 3 the SOFT.

Teeth per cm (tolerance according to ISO 234)		8	12	14	16	20	25	31	38	46
Files for mechanics	mm 100-125				1	2	3			
Files for mechanics	mm 150-200		1		2	3				
Files for mechanics	mm 250-350	1	2		3					
Raspe	mm 250-300	1		2						
Needle files						00	0	1	2	3



ENGINEER'S FILES - FLAT

WODEX

ITEM: WX7600

DIN 7261 shape A FLAT. High carbon steel.
Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8306100T1	G8306100T2	G8306100T3	G8306150T1	G8306150T2
Shape		▬	▬	▬	▬	▬
L	mm	100	100	100	150	150
Section	mm	12 x 2.5	12 x 2.5	12 x 2.5	16 x 4	16 x 4
Cut		1-B	2-MD	3-D	1-B	2-MD

Tech. Code		G8306150T3	G8306200T1	G8306200T2	G8306200T3	G8306250T1
Shape		▬	▬	▬	▬	▬
L	mm	150	200	200	200	250
Section	mm	16 x 4	20 x 5	20 x 5	20 x 5	25 x 6
Cut		3-D	1-B	2-MD	3-D	1-B

Tech. Code		G8306250T2	G8306250T3	G8306300T1	G8306300T2	G8306300T3
Shape		▬	▬	▬	▬	▬
L	mm	250	250	300	300	300
Section	mm	25 x 6	25 x 6	30 x 6.5	30 x 6.5	30 x 6.5
Cut		2-MD	3-D	1-B	2-MD	3-D

ENGINEER'S FILES - HALF-ROUND

WODEX

ITEM: WX7602

DIN 7261 shape E - HALF-ROUND. High carbon steel.
Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8308100T1	G8308100T2	G8308100T3	G8308150T1	G8308150T2
Shape		◓	◓	◓	◓	◓
L	mm	100	100	100	150	150
Section	mm	11 x 3	11 x 3	11 x 3	16 x 4.5	16 x 4.5
Cut		1-B	2-MD	3-D	1-B	2-MD

Tech. Code		G8308150T3	G8308200T1	G8308200T2	G8308200T3	G8308250T1
Shape		◓	◓	◓	◓	◓
L	mm	150	200	200	200	250
Section	mm	16 x 4.5	20 x 6	20 x 6	20 x 6	25 x7
Cut		3-D	1-B	2-MD	3-D	1-B

Tech. Code		G8308250T2	G8308250T3	G8308300T1	G8308300T2	G8308300T3
Shape		◓	◓	◓	◓	◓
L	mm	250	250	300	300	300
Section	mm	25 x 7	25 x 7	30 x 8.5	30 x 8.5	30 x 8.5
Cut		2-MD	3-D	1-B	2-MD	3-D

ENGINEER'S FILES - ROUND

ITEM: WX7604

DIN 7261 shape F ROUND. High carbon steel.
Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8310100T1	G8310100T2	G8310100T3	G8310150T1	G8310150T2
Shape		●	●	●	●	●
L	mm	100	100	100	150	150
Section	mm	Ø 4	Ø 4	Ø 4	Ø 6	Ø 6
Cut		1-B	2-MD	3-D	1-B	2-MD

Tech. Code		G8310150T3	G8310200T1	G8310200T2	G8310200T3	G8310250T1
Shape		●	●	●	●	●
L	mm	150	200	200	200	250
Section	mm	Ø 6	Ø 8	Ø 8	Ø 8	Ø 10
Cut		3-D	1-B	2-MD	3-D	1-B

Tech. Code		G8310250T2	G8310250T3	G8310300T1	G8310300T2	G8310300T3
Shape		●	●	●	●	●
L	mm	250	250	300	300	300
Section	mm	Ø 10	Ø 10	Ø 12	Ø 12	Ø 12
Cut		2-MD	3-D	1-B	2-MD	3-D

ENGINEER'S FILES - SQUARE

ITEM: WX7606

DIN 7261 shape D SQUARE. High carbon steel.
Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8312100T1	G8312100T2	G8312100T3	G8312150T1	G8312150T2
Shape		■	■	■	■	■
L	mm	100	100	100	150	150
Section	mm	4 x 4	4 x 4	4 x 4	6 x 6	6 x 6
Cut		1-B	2-MD	3-D	1-B	2-MD

Tech. Code		G8312150T3	G8312200T1	G8312200T2	G8312200T3	G8312250T1
Shape		■	■	■	■	■
L	mm	150	200	200	200	250
Section	mm	6 x 6	8 x 8	8 x 8	8 x 8	10 x 10
Cut		3-D	1-B	2-MD	3-D	1-B

Tech. Code		G8312250T2	G8312250T3	G8312300T1	G8312300T2	G8312300T3
Shape		■	■	■	■	■
L	mm	250	250	300	300	300
Section	mm	10 x 10	10 x 10	12 x 12	12 x 12	12 x 12
Cut		2-MD	3-D	1-B	2-MD	3-D

ENGINEER'S FILES - TRIANGULAR

ITEM: WX7608

DIN 7261 shape C TRIANGULAR. High carbon steel.
Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8314100T1	G8314100T2	G8314100T3	G8314150T1	G8314150T2
Shape		▲	▲	▲	▲	▲
L	mm	100	100	100	150	150
Section	mm	8	8	8	11	11
Cut		1-B	2-MD	3-D	1-B	2-MD

Tech. Code		G8314150T3	G8314200T1	G8314200T2	G8314200T3	G8314250T1
Shape		▲	▲	▲	▲	▲
L	mm	150	200	200	200	250
Section	mm	11	15	15	15	17.5
Cut		3-D	1-B	2-MD	3-D	1-B

Tech. Code		G8314250T2	G8314250T3	G8314300T1	G8314300T2	G8314300T3
Shape		▲	▲	▲	▲	▲
L	mm	250	250	300	300	300
Section	mm	17.5	17.5	20	20	20
Cut		2-MD	3-D	1-B	2-MD	3-D

ENGINEER'S FILES - IN SET

ITEM: WX7617/S5

Set of 5 engineer's files with thermoplastic resin handle in roll-up fabric bag.



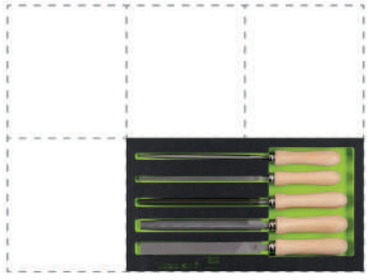
Tech. Code	G832605
mm	200
Cut	2-MD

FILES FOR MECHANICS IN FOAM

1/3 H WMS

ITEM: WX7620/SE5

Set of 5 files complete with Eva Tray module for Wodex trolleys - module size 400x223.5 mm - Horizontal position.



Composition:

WX7600 Flat file 8" - 200 mm T2 cut 2
WX7602 Half round file 8" - 200 mm T2 cut 2
WX7604 Round file 8" - 200 mm T2 cut 2
WX7606 Square file 8" - 200 mm T2 cut 2
WX7608 Triangular file 8" - 200 mm T2 cut 2
WX7742 Wooden handles - 2 x 120 mm - 3 x 130 mm

Tech. Code	Pieces
G832805	10

RESIN HANDLES FOR MECHANIC'S FILES

ITEM: WX7740

Ergonomic thermoplastic resin handles for files.



Tech. Code		G840001	G840002	G840003
L	mm	90	110	125
For L files	mm	100 - 150	200	250 - 300

WOODEN HANDLES FOR MECHANICS FILES IN FOAM

ITEM: WX7742

Wooden handles with metal ring for files.



Tech. Code		G8405080	G8405090	G8405100	G8405110
Size	N.	0	1	2	3
L	mm	80	90	100	110
For L files	mm	100	150	150	200

Tech. Code		G8405120	G8405130	G8405140
Size	N.	4	5	6
L	mm	120	130	140
For L files	mm	200	250	300

DUAL-COMPONENT PLASTIC HANDLES FOR FILES

ITEM: FH

Ergonomic file handles. They protect the hand from edges and corners.



Tech. Code		G88350406A	G88350810PH	G88350810TQR	G88351214PH	G88351214TQR
Model		3-10	4/1-10	4-10	5/1-10	5-10
For L files	mm	100 - 150	200 - 250	200 - 250	300 - 350	300 - 350
Shape		All	flat - half-round	3 sp - square - round	flat - half-round	3 sp - square - round

FLAT NEEDLE FILES

ITEM: WX7750

Flat, parallel shape in high-carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8552160T0	G8552160T1	G8552160T2	G8552180T0	G8552180T1
Shape		▬	▬	▬	▬	▬
L	mm	160	160	160	180	180
Section	mm	5.5 x 1.4	5.5 x 1.4	5.5 x 1.4	6 x 1.5	6 x 1.5
Cut	Ø	3,25	3,25	3,25	3,5	3,5
Size		0	1	2	0	1

Tech. Code		G8552180T2	G8552200T0	G8552200T1	G8552200T2
Shape		▬	▬	▬	▬
L	mm	180	200	200	200
Section	mm	6 x 1.5	6.4 x 1.6	6.4 x 1.6	6.4 x 1.6
Cut	Ø	3,5	3,75	3,75	3,75
Size		2	0	1	2

SEMI-ROUND NEEDLE FILES

ITEM: WX7752

Semi-round shape in high-carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8554160T0	G8554160T1	G8554160T2	G8554180T0	G8554180T1
Shape		◓	◓	◓	◓	◓
L	mm	160	160	160	180	180
Section	mm	5.6 x 1.8	5.6 x 1.8	5.6 x 1.8	6 x 2	6 x 2
Shank	Ø	3,25	3.25	3.25	3.5	3.5
Cut		0	1	2	0	1

Tech. Code		G8554180T2	G8554200T0	G8554200T1	G8554200T2
Shape		◓	◓	◓	◓
L	mm	180	200	200	200
Section	mm	6 x 2	6.5 x 2	6.5 x 2	6.5 x 2
Shank	Ø	3.5	3.75	3.75	3.75
Cut		2	0	1	2

ROUND NEEDLE FILES

ITEM: WX7754

Round shape in high-carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8556160T0	G8556160T1	G8556160T2	G8556180T0	G8556180T1
Shape		●	●	●	●	●
L	mm	160	160	160	180	180
Section	mm	Ø 3.25	Ø 3.25	Ø 3.25	Ø 3.5	Ø 3.5
Shank	Ø	3,25	3,25	3,25	3,5	3,5
Cut		0	1	2	0	1

Tech. Code		G8556180T2	G8556200T0	G8556200T1	G8556200T2
Shape		●	●	●	●
L	mm	180	200	200	200
Section	mm	Ø 3.5	Ø 3.75	Ø 3.75	Ø 3.75
Shank	Ø	3,5	3,75	3,75	3,75
Cut		2	0	1	2

TRIANGULAR NEEDLE FILES

ITEM: WX7758

Triangular shape in high carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8562160T0	G8562160T1	G8562160T2	G8562180T0	G8562180T1
Shape		▲	▲	▲	▲	▲
L	mm	160	160	160	180	180
Section	mm	3.7	3.7	3.7	4.1	4.1
Tang	Ø	3,25	3,25	3,25	3,5	3,5
Cut		0	1	2	0	1

Tech. Code		G8562180T2	G8562200T0	G8562200T1	G8562200T2
Shape		▲	▲	▲	▲
L	mm	180	200	200	200
Section	mm	4.1	4.4	4.4	4.4
Tang	Ø	3,5	3,75	3,75	3,75
Cut		2	0	1	2

SQUARE NEEDLE FILES

ITEM: WX7756

Square shape in high-carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8558160T0	G8558160T1	G8558160T2	G8558180T0	G8558180T1
Shape		■	■	■	■	■
L	mm	160	160	160	180	180
Section	mm	2.5	2.5	2.5	2.7	2.7
Tang	Ø	3,25	3,25	3,25	3,5	3,5
Cut		0	1	2	0	1

Tech. Code		G8558180T2	G8558200T0	G8558200T1	G8558200T2
Shape		■	■	■	■
L	mm	180	200	200	200
Section	mm	2.7	3	3	3
Tang	Ø	3,5	3,75	3,75	3,75
Cut		2	0	1	2

NEEDLE FILES IN SET

ITEM: WX7768/S6

Set of 6 needle files in plastic pouch. High carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.
Contents: 1 flat parallel file, 1 half round, 1 triangular, 1 square, 1 round, 1 flat-head shaped file.



Tech. Code		G8568160T0	G8568160T1	G8568160T2
Length	mm	160	160	160
Cut		0	1	2

WOODEN HANDLES WITH BRASS CHUCK FOR NEEDLE FILES

ITEM: WX7795

Beechwood handles with brass chuck and setting nut for needle files.



Tech. Code		G859003
L	mm	93
Description		For needle files length 140,160 and 180 mm

QUICK-CLAMPING PLASTIC HANDLES FOR NEEDLE FILES

ITEM: 210-1

Quick-clamping plastic handles for needle files.



Tech. Code	G8825001
Description	For models 140 - 160 - 180 - 200 mm

FLAT DIAMOND NEEDLE FILES

ITEM: WX7770

Flat needle files with electroplated diamond on 4 sides. Suitable for metal carbides, hardened and nitrided steel, stellite, ferrite, silicon, glass, ceramics, hard stone and carbon.

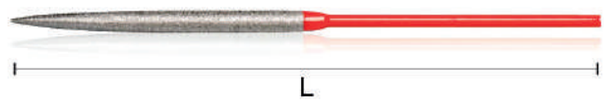


Tech. Code		G8715140126	G8715160126	G8715215151
Shape		▬	▬	▬
Section	mm	5.5 x 1.5	6 x 1.5	10 x 3
L (useful)	mm	140 (70)	160 (80)	215 (110)
Specification		D126	D126	D151

SEMI-ROUND DIAMOND NEEDLE FILES

ITEM: WX7772

Semi-round needle files with electroplated diamond. Suitable for metal carbides, hardened and nitrided steel, stellite, ferrite, silicon, glass, ceramics, hard stone and carbon.

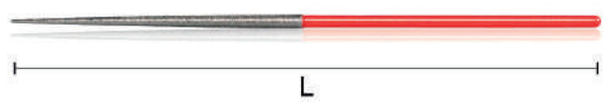


Tech. Code		G8716140126	G8716160126	G8716215151
Shape		▬	▬	▬
Section	mm	5 x 2	6 x 2	13 x 4
L (useful)	mm	140 (70)	160 (80)	215 (110)
Specification		D126	D126	D151

ROUND DIAMOND NEEDLE FILES

ITEM: WX7774

Round diamond needle files with electroplated diamond. Suitable for metal carbides, hardened and nitrided steel, stellite, ferrite, silicon, glass, ceramics, hard stone and carbon.



Tech. Code		G8717140126	G8717160126	G8717215151
Shape		●	●	●
Section	mm	3	3.5	5
L (useful)	mm	140 (70)	160 (80)	215 (110)
Specification		D126	D126	D151

SQUARE DIAMOND NEEDLE FILES

ITEM: WX7776

Square diamond needle files with electroplated diamond. Suitable for metal carbides, hardened and nitrided steel, stellite, ferrite, silicon, glass, ceramics, hard stone and carbon.



Tech. Code		G8718140126	G8718160126	G8718215151
Shape		■	■	■
Section	mm	3 x 3	3.5 x 3.5	6 x 6
L (useful)	mm	140 (70)	160 (80)	215 (110)
Specification		D126	D126	D215

TRIANGULAR DIAMOND NEEDLE FILES

ITEM: WX7778

Triangular diamond needle files with electroplated diamond. Suitable for metal carbides, hardened and nitrided steel, stellite, ferrite, silicon, glass, ceramics, hard stone and carbon.



Tech. Code		G8719140126	G8719160126	G8719215151
Shape		▲	▲	▲
Section	mm	4 x 4	4.5 x 4.5	10 x 10
L (useful)	mm	140 (70)	160 (80)	215 (110)
Specification		D126	D126	D215

SET OF DIAMOND NEEDLE FILES

ITEM: WX7780

Electroplated diamond.
Suitable for metal carbides, hardened steel, ferrite, silicon, glass, ceramic oxide and similar materials.
Contents: 5 needle files of G8716 range kit, 1 flat, 1 half-round, 1 round, 1 squared, 1 triangular.



Tech. Code		G87075L140	G87075L160
Length	mm	140	160

PNEUMATIC FILERS

ITEM: G9310

Pneumatic filers with low vibration level and reduced tool kickback. Extremely light and easy to handle for precision and finishing work. The round shank tool collet makes it ideal for working with needle files. Use with clean filtered air and a minimum of lubrication greatly increases the life of the machine.



Tech. Code		G9310060
Pliers for shank Ø	mm	from 3 to 4
Fixed stroke	mm	4
Power	HP/Watt	0,04 / 30
Operating pressure	Bar	8
Noise level	dB	71
Dimension max	Ø x L	30 x 200
Weight	kg	0,3

ITEM: G9330

Pneumatic filers with low vibration level and reduced tool kickback. Equipped with adequate power for heavy removal work on surfaces and removal of welds. Pliers for tools with round shank. Sturdy and reliable, it works very well even with large files. Use with clean filtered air and a minimum of lubrication greatly increases the life of the machine.



Tech. Code		G9330110
Collect for Ø	mm	From 4 to 6
Fixed stroke	mm	8
Power	HP/Watt	0,1 / 75
Operating pressure	Bar	8
Noise level	dB	77
Dimension max	Ø x L	34 x 200
Weight	kg	1,05

MINI-LUSTER FILERS FOR EMAX EVOLUTION

NAKANISHI

ITEM: ML-8

Filers handpiece to be used in combination with the standard ENK-410S motor of the Emax Evolution system. Compact, light and with very low vibrations. Ideal tool for polishing inside grooves and tight spaces. Supplied with support for diamond files and abrasive stones with max size 1x6



Tech. Code		G9435000
Collect for max Ø	mm	3,2
Fixed stroke	mm	0,8
Oscillations	n°/min	0 ~ 6.380
Weight	g	130

HANDPIECES PNEUMATIC IMPULSE

NAKANISHI

ITEM: NSP601

Ideal for high precision machining, absence of vibrations even at very high speed.
Extremely light and silent. Maintains constant engine speed even under varying loads.
Body in stainless steel and aluminum. It can mount optional calipers from 0.8 to 3.175 mm.
Connection joint to the articulated tube to avoid twisting.
The use of a dedicated filtration and lubrication system is recommended.

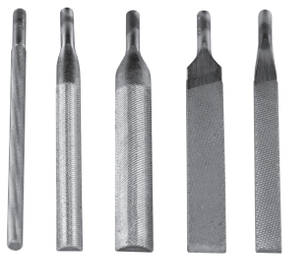


Tech. Code		G9400NSP601
Standard collet Ø	mm	3
Speed	Rpm	60.000
Length	mm	168
Weight	Kg	0,165

FILES FOR PNEUMATIC FILERS

ITEM: G8740

Small size files for working with pneumatic filers. Single cut suitable for multiple processes, from the deburring of light alloys and cast iron castings to the processing of plastic materials. Developed with a special technology that prevents kneading.



Tech. Code		G8740A1	G8740A2	G8740B1	G8740B2	G8740C1
Form		▬	▬	◓	◓	●
Section	mm	6,5 x 2	10 x 3	6,5 x 2,5	10 x 3	4
Length	mm	90	90	90	90	90
Stem Ø	mm	4	4	4	4	4

DIAMOND FILES FOR PNEUMATIC FILING MACHINES

ITEM: G8750

Small diamond files for working with pneumatic filing machines. The flat files are diamond-coated on 4 sides. D151 grain for universal use. Suitable for machining multiple materials including hard metals, hardened steels, ceramics, glass, precious stones and carbon fibers.



Tech. Code		G8750P431	G8750P452	G8750R2	G8750R4
Shape		▬	▬	●	●
Section	mm	3 x 1	5 x 2	2	4
L tot / useful	mm	50 / 15	50 / 15	50 /15	50 / 15
Shank Ø	mm	3	3	3	3

SUSPENDED 230/240V MOTORS COMPLETE WITH CONTRONIC RHEOSTAT

ITEM: G9500



The FARO laboratory motor offers the absolute security of double insulation, the durability of a motor sized for work far in excess of your work load, the quality of a product made with cutting-edge technologies.

Technical Data:
- Motor with double insulation
- High torque also at low rotation speed
- Electronic rheostat to ensure good progression of the motor rotation speed
- Rheostat speed from 8000 to 22000 rev/min - "Contronics" version from 3000 to 20000 rev/min

The arm for suspension, the flexible shaft and the handpiece are not included.

Tech. Code		G9500MOTORE
Power	W	300
Speed	rev/min.	22.000

REINFORCED FLEXIBLE SHAFTS

ITEM: G9510



The flexible shaft is particularly robust and easy to handle, thanks to the universal joint (patented) that is also useful to insulate the hose from the motor; the rotation is vibration-free.

Ready for use with SLIP-coupling handpieces.

Tech. Code		G9510ALB5X950
Ø Coupling	mm	5
Length	mm	950

TELESCOPIC ARMS FOR MOTOR SUSPENSION

ITEM: G9520



Telescopic arm ideal for suspending hanging motors. The spring at their end absorbs the motor's torsion during start-up. Complete with screw clamp for attachment to the work table.

Tech. Code		G9520BRACCIO
Dimensions	Ø x H	10 x 700
Extension	mm	700 / 1000
Weight	Kg	1,2

STRAIGHT SLIP-COUPLING HANDPIECES

ITEM: G9530



The Faro laboratory handpiece rotates on auto-adjusting ball bearings; particularly suitable for use with mini-cutters, cotton discs, felt and woods with shank for polishing.
Ruggedly built, lightweight and simple to use.

Technical Data:
- Speed up to 22000 rev/min.
- SLIP-type coupling (to flexible shaft)
- Collet Ø 2.35mm - Ø 3,00mm

Tech. Code		G9530MAN2,35	G9530MAN3,00
Collet for shank	Ø mm	2,35	3,00

MICRO GRINDER EMAX EVOLUTION

ITEM: EV410-230

Suitable for deburring polishing and engraving. The ideal tool for mould makers. Equipped with a large digital display. Memory speed function. Two micromotors can be mounted and managed independently and simultaneously. The standard micro motor can be adjusted from 1,000 to 40,000 rpm and can be used with many types of attachments according to the needs of the user.
It is brushless, extremely lightweight, vibration-free and equipped with a button for switching it on and off directly on the workstation. Foot controller available on request.



Composition:

- Controller NE249 230
- Power cable
- Motor ENK-410S
- Handpiece IR-310
- 2.35 mm collet
- 3.00 mm collet
- Table stand
- Maintenance spanners

Tech. Code		G9430100
Power supply	V / Hz	230 / 50-60
Dimensions	mm	130 x 524 x 97
Weight	kg	2,3

STANDARD MOTOR FOR EMAX EVOLUTION

ITEM: ENK-410S

Standard lightweight, compact and a small diameter motor. High rotation speed and high torque. Brushless, On/Off switch, perfect for high precision work. Can be used with many types of hand pieces.

Technical data:

- Speed adjustable from 1,000 - 40,000 rpm
- Cable length 1.5 m
- Weight without cable 90 g



Tech. Code		G9432100
Max power	W	73
Max torque	Ncm	4,3

ATTACHMENTS FOR EMAX EVOLUTION

ITEM: IR-310 - HG-200 - IC-300 - KC-300

The modular Nakanishi system features various easily interchangeable attachments to modify the machine for a variety of operations.

Tech. Code	Item Supplier	Type	Max speed Rpm	
G9434100	IR-310	Straight standard	40.000	
G9434200	HG-200	Straight for attachment of 6 mm	30.000	
G9434300	IC-300	Angled head of 90°	30.000	
G9434400	KC-300	Angled head of 50°	30.000	

MICRO GRINDER ESPERT 500

ITEM: ES50T-HR

Suitable for all situations where high torque is required at a high RPM. Equipped with a large digital display. Memory speed function. Two micromotors can be mounted and managed independently and simultaneously. The high torque motor can be adjusted from 1,000 to 50,000 rpm and can be used with many types of attachment according to the needs of the user. Brushless, extremely silent and vibration-free for extremely precise work. Foot controller available on request.



Composition

- Controller NE96
- Power cable
- Motor ENK-50T-HR
- Handpiece EHR-500
- 2.35 mm collet
- 3.00 mm collet
- Table stand
- Maintenance spanners

Tech. Code		G9450100
Power supply	V / Hz	230 / 50-60
Dimensions	mm	172 x 230 x 94
Weight	Kg	2,6

STANDARD MOTOR FOR ESPERT 500

ITEM: ENK-500T

High power high torque brushless motor. Equipped with On/Off switch. Can be used with many types of hand pieces. High precision and sturdiness.

Technical data:

- Speed adjustable from 1,000 - 50,000 rpm
- Cable length 1.5 m
- Weight without cable 160 g



Tech. Code		G9452100
Max power	W	200
Max torque	Ncm	8,7

ATTACHMENTS FOR ESPERT 500

ITEM: EHR-500 - EHG-400 - EIC-300 - EKC-300

The modular Nakanishi system features various easily interchangeable attachments to modify the machine for a variety of operations.

Tech. Code	Item Supplier	Type	Max speed Rpm	
G9454100	EHR-500	Straight standard	50.000	
G9454200	EHG-400	Straight for attachment of 6 mm	40.000	
G9454300	EIC-300	Angled head of 90°	30.000	
G9454400	EKC-300	Angled head of 50°	30.000	

ABRASIVE GRADE COMPARISON CHART

FEPA (P) coated abrasives	FEPA (F) bonded abrasives	FEPA (D) Diamond / CBN (µ)	Non - Woven abrasives (indicative parameters)		SC Surface Conditioning (indicative parameters)	Trizact (µ)	JIS (mesh) Japanese Industrial Standard	ANSI (grit) American National Standards Institute
P12	F12							12
	F14							
P16	F16							16
P20	F20							20
	F22							
P24	F24							24
P30	F30							
P36	F36							36
P40	F40	D357						40
	F46							
P50	F54					A500		50
P60	F60	D252				A400	J60	60
	F70							
P80		D181	A/O COARSE		A/O COARSE	A300	J80	80
	F80							
P100	F90	D151			A/O MEDIUM	A200		
P120	F100	D126	A/O MEDIUM			A160	J100	100
P150	F120	D107		S/C MEDIUM	A/O FINE	A130	J120	120
		D91				A110		
P180	F150				A/O VERY FINE	A100	J150	150
P220	F180	D76	A/O FINE	S/C FINE		A90	J180	180
	F220	D64				A85	J220	220
P240						A80	J240	
P280	F230				S/C ULTRA FINE	A75	J280	240
		D54				A60	J320	
P320	F240		A/O VERY FINE	S/C VERY FINE			J360	
								280
P360		D46					J400	320
P400	F280					A45	J500	
P500	F320	D40		S/C SUPER FINE		A35	J600	360
P600						A30		
		D30					J700	400
P800	F360	D15		S/C ULTRA FINE		A25		
P1000							J800	500
						A20		
	F400						J1000	600
P1200						A16		
P1500	F500	D7				A10	J1200	
								800
P2000	F600	D3					J1500	
							J1800	1000
P2500	F800					A6	J2000	
							J2500	1200
P3000	F1000					A5	J3000	
								1400
P4000	F1200					A3	J4000	
	F1500						J6000	1800
P5000	F2000						J7500	
							J8000	2000




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your safety, our future.

METALWORKING LUBRICANTS

H



Landoil

2 - 5

Metalworking fluids



Landoil
GUABO
WRK

6 - 8

Cutting oils
and accessories



Landoil

9 - 20

Lubrificants



Landoil

20 - 21

Cooling fluid
accessories
and additives



Landoil

22 - 26

Skimmers
and tramp
oil separators



Landoil

26 - 31

Oil mist collectors



FUTURA LAB

The quality of Landoil products is nothing other than the result of a series of elements, the common denominator of which is the human factor.
Why Futura Lab? Because our aim is to study and produce state-of-the-art lubricants.
Futura is our mineral oil-free product line.
Landoil's strong point, the Futura Lab works proactively with respect to the needs of the market. Optimising the performance of machining operations is fundamental, but doing so while protecting the health of its customers is even more so.



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LEGENDA FORMATI





SELECTION OF LUBRICANT-COOLING OILS

Bases	Classification	Article	Product Name	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	Non-metallic materials	Removal	Grinding	Refractive index	EP	Prodotto Biodinamico	Page
Esters	POWER	H0214	**Futura E POWER**	●●●	●●●	●	●●●	●●●	●●	-	✓	-	1.1	-	-	3
Esters	UNI	H0213	**Futura S UNI**	●●	●	●●	●	●●	●●	●	✓	✓	2.0	-	-	4
Minerals and esters	UNI	H0410	**Inova E UNI**	●●	●●	●●	●●	●●	●●	-	✓	-		-	✓	4
Minerals	POWER	H0012	**Multifluid E POWER EP**	●●●	●●●	●●	●●	●●	●●●	-	✓	-	1.1	✓	-	4
Minerals	POWER	H0031	**Multifluid E POWER**	●●	●●	●●	●●●	●●	●●	-	✓	✓	1.1	-	-	5
Minerals	UNI	H0044	**Multifluid S UNI**	●●●	●●	●●	●●	●●	●●	-	✓	✓	1.5	-	-	5
Esters	-	H0211	**Futura S**	●●	●	●●	●	-	●	●	✓	✓	2.5	-	-	5

WATER-MISCIBLE METALWORKING FLUID

Landoil

NEW

ITEM: FUTURA E POWER

Futura E POWER is an emulsifiable water-miscible metalworking fluid based on esters derived from renewable resources. It is free of chlorine, boron and bactericides.
Futura E POWER is a metalworking fluid specifically designed for very heavy-duty chip removal work on steels, stainless steels, titanium, nickel-based alloys and aluminium alloys. Due to its exceptional lubricity, the product is particularly suitable for all heavy-duty operations, even on difficult-to-machine materials.
It produces a very stable translucent emulsion in water.
Its characteristics make it suitable for use with all types of water, both hard and soft.

PHYSICAL PROPERTIES

Appearance concentrate		Amber
Density at 20°C	kg/L	0,95
Appearance emulsion		Milky
pH	5%	9,2 - 9,4
Refractometer factor		1,1
Water compatibility	°F	5 - 50



Tech. Code	Quantity L	Package
H02140025	25	Can
H02140200	200	Drum

WATER-MISCIBLE METALWORKING FLUID

ITEM: FUTURA S UNI

Futura S UNI is a semi-synthetic, ester-based water-miscible metalworking fluid derived from renewable raw materials.
It is free of chlorine, boron and bactericides.
Futura S UNI is a universal metalworking fluid designed for use in medium-heavy-duty machining and grinding operations on all materials: steels, stainless steels, titanium and cast irons; it can also machine aluminium alloys. The formulation has a very high balance between lubricity and detergency, making it an extremely versatile product for all types of machining.
In water it produces a very stable translucent emulsion.
Its characteristics make it suitable for use with all types of water, both hard and soft.

PHYSICAL PROPERTIES

Appearance concentrate		Amber
Density at 20°C	kg/L	0,998
Appearance emulsion		Translucent
pH	5%	9,4 - 9,7
Refractometer factor		1,8
Water compatibility	°F	5 - 50



Tech. Code	Quantity L	Package
H02130025	25	Can
H02130200	200	Drum

WATER-MISCIBLE METALWORKING FLUID

NEW

ITEM: INOVA E UNI

Inova E UNI is an innovative, emulsifiable water-miscible metalworking fluid based on highly refined mineral oils and esters derived from renewable raw materials. It is free of chlorine, boron and bactericides.
Inova E UNI is a universal metalworking fluid designed for use during medium-heavy-duty machining operations on all materials: steels, stainless steels, titanium, aluminium alloys, cast irons and also yellow alloys. The formula is designed to guarantee high performance combined with an advanced safety profile and an extremely low chemical risk.
In water, it produces a very stable milky emulsion.
Its characteristics make it suitable for use with all types of water, both hard and soft.

PHYSICAL PROPERTIES

Appearance concentrate		Amber
Density at 20°C	kg/L	0,960
Appearance emulsion		Milky
pH	5%	9,2 - 9,4
Refractometer factor		1,0
Water compatibility	°F	5 - 50



Tech. Code	Quantity L	Package
H04100025	25	Can
H04100200	200	Drum

WATER-MISCIBLE METALWORKING FLUID

ITEM: MULTIFLUID E POWER EP

Multifluid E POWER EP is an emulsifiable water-miscible metalworking fluid with a high lubricant content, based on highly refined mineral oils, grease additives and EP. It is free of bactericides.
Multifluid E POWER EP is a metalworking fluid specifically designed for use during medium to heavy metal removal operations on alloyed and stainless steels. However, it can also be used on aluminium alloys and yellow alloys. It has high anti-rust and odour resistance even under critical conditions.
In water it produces a very stable milky emulsion.
Its characteristics make it suitable for use with all types of water, both hard and soft.

PHYSICAL PROPERTIES

Appearance concentrate		Amber
Density at 20°C	kg/L	0,975
Appearance emulsion		Milky
pH	5%	9,0 - 9,3
Refractometer factor		1,1
Water compatibility	°F	5 - 50



Tech. Code	Quantity L	Package
H00120025	25	Can
H00120200	200	Drum

WATER-MISCIBLE METALWORKING FLUID

ITEM: MULTIFLUID E POWER

Multifluid E POWER is an emulsifiable water-miscible metalworking fluid with a high lubricant content, based on highly refined mineral oils and special additives of synthetic origin. It is free of boron, chlorine and biocides.
Multifluid E POWER is a metalworking fluid specifically designed for use in medium to heavy metalworking operations on steels, stainless steels, titanium, aluminium alloys and cast iron. It can also be used in grinding due to its good foam control. In water it produces a very stable milky emulsion. Its characteristics make it suitable for use with all types of water, both hard and soft.

PHYSICAL PROPERTIES

Appearance concentrate		Amber
Density at 20°C	kg/L	0,970
Appearance emulsion		Milky
pH	5%	9,0 - 9,3
Refractometer factor		1,2
Water compatibility	°F	5 - 50



Tech. Code	Quantity L	Package
H00310025	25	Can
H00310200	200	Drum

WATER-MISCIBLE METALWORKING FLUID

ITEM: MULTIFLUID S UNI

Multifluid S UNI is a semi-synthetic water-miscible metalworking fluid with medium lubricant content, based on highly refined mineral oils and special additives of synthetic origin. It is free of chlorine and bactericides.
Multifluid S UNI is a universal metalworking fluid designed for use during machining and grinding operations on all materials: steel, stainless steel, titanium, light alloys and cast iron. In water it produces a very stable translucent emulsion. Its characteristics make it suitable for use with all types of water, both hard and soft.

PHYSICAL PROPERTIES

Appearance concentrate		Amber
Density at 20°C	kg/L	0,989
Appearance emulsion		Translucent
pH	5%	9,1 - 9,4
Refractometer factor		1,5
Water compatibility	°F	5 - 50



Tech. Code	Quantity L	Package
H00440025	25	Can
H00440200	200	Drum

WATER-MISCIBLE METALWORKING FLUID

NEW

ITEM: FUTURA S

Futura S is a semi-synthetic, ester-based water-miscible metalworking fluid derived from renewable raw materials. It is free of chlorine and bactericides.
Futura S is a metalworking fluid designed for use in light to medium machining operations on all materials. In water it produces a translucent emulsion that is also very stable against bacterial attack.
Its characteristics make it suitable for use with all types of water, both hard and soft.

PHYSICAL PROPERTIES

Appearance concentrate		Amber
Density at 20°C	kg/L	1,01
Appearance emulsion		Translucent
pH	5%	9,2 - 9,3
Refractometer factor		2,5
Water compatibility	°F	5 - 50



Tech. Code	Quantity L	Package
H02110025	25	Can
H02110200	200	Drum

NEAT CUTTING OILS TABLE

Gamma	Nome prodotto	Olio base	Viscosità a 40°C	Flash Point	Pour Point
H1161705	MIRZAN S 705	Foreign	5	170	< -15
H1161708	MIRZAN S 708	Estere	8.8	>200	< 0
H1161715	MIRZAN S 715	Estere	15.25	225	-20
H1161722	MIRZAN S 722	Estere	21	239	-25
H1161730	MIRZAN S 730	Estere	30	210	-12
H116872	MIRZAN 720	Estere	20	220	-18
H1168740	MIRZAN 740	Estere	35	300	-10
H13310	TOP TOOL III	Estere	39	182	-5
H1345	TAP FLUID AL	Estere	40	> 300	< -10
H1355	TAP FLUID BLUE	Minerali + Estere	27.5	230	-12

NEAT CUTTING OIL

ITEM: MIRZAN S

Mirzan S is a synthetic ester-based whole cutting fluid with a very low atomisation and high flash point.
The product is designed for universal use during heavy-duty machining of steels, aluminium alloys and yellow alloys. Excellent in turning and grinding, its formulation fully protects the operator's health.
It is endowed with extraordinary cleaning power, high service life and significant anti-welding power in view of its viscosity. Also suitable for minimal lubrication.

PHYSICAL PROPERTIES

Series		705	708
Viscosity at 40°C	cSt	5	8,8
Viscosity at 100°C	cSt	-	-
Viscosity index		-	-
Flashpoint (COC)	°C	170	> 200
Pour point	°C	< -15	< 0
Specific gravity at 15°C	kg/L	0,86	0,86
Copper corrosion test	3h	1a	1a



Tech. Code	Series	Quantity L	Package
H1161705025	705	25	Can
H1161705200	705	200	Drum
H1161708025	708	25	Can
H1161708200	708	200	Drum

ITEM: MIRZAN EP

Mirzan EP is a synthetic ester-based whole cutting fluid totally free of mineral oils.
The product has been formulated with special anti-wear and EP additives that make it suitable for use during very heavy machining operations on various alloy steels, tool steels and stainless steels, aluminium alloys and yellow alloys.
It has an extraordinary lubricating power, a high service life and an important EP power in view of its viscosity.

PHYSICAL PROPERTIES

Series		715	722	730
Viscosity at 40°C	cSt	15,25	21	30
Viscosity at 100°C	cSt	4,1	5,1	6,9
Viscosity index		180	186	199
Flashpoint (COC)	°C	225	239	210
Pour point	°C	- 20	- 25	- 12
Specific gravity at 15°C	kg/L	0,875	0,939	0,900
Copper corrosion test	3h	1b	1b	2c



Tech. Code	Series	Quantity L	Package
H11657150025	715	25	Can
H11657150200	715	200	Drum
H11657220025	722	25	Can
H11657220200	722	200	Drum
H11657300025	730	25	Can
H11657300200	730	200	Drum

NEAT CUTTING OIL

ITEM: MIRZAN

Mirzan is a whole cutting fluid based on synthetic esters and antioxidant additives.
The product is designed for universal use during heavy-duty machining on all materials.
Excellent in turning and milling, its formulation fully protects the operator's health.
It has extraordinary cleaning power and is free of mineral oils, chlorinated compounds and PCB/PCT.

PHYSICAL PROPERTIES

Series		720	740
Viscosity at 40°C	cSt	20	35
Viscosity at 100°C	cSt	4,9	7,5
Viscosity index		182	189
Flashpoint (COC)	°C	220	300
Pour point	°C	- 18	- 10
Specific gravity at 15°C	kg/L	0,890	0,910
Copper corrosion test	3h	1a	1a



Tech. Code	Series	Quantity L	Package
H11687200005	720	5	Can
H11687200025	720	25	Can
H11687200200	720	200	Drum
H11687400400	740	0,4	Spray can
H11687400005	740	5	Can
H11687400025	740	25	Can
H11687400200	740	200	Drum

ITEM: SYNTOFORM 460 EP

SYNTOFORM 460 EP is a cutting oil produced from renewable bases, suitable for tapping, broaching, slotting, drilling of any type of difficult-to-machine material.
SYNTOFORM 460 EP cutting oil has been researched and formulated for ease of use and the highest safety characteristics, while maximising product performance.
SYNTOFORM 460 EP adheres to the surface of the tool to maximise cutting performance even under high stress.

Tech. Code	Quantity L	Package
H13210500	0,5	Flacon
H13210005	5	Jerry can



NEAT CUTTING OILS

ITEM: TOP TOOL III

TOP TOOL III is a universal cutting fluid for all tapping and threading operations of all materials, including aluminum, stainless steels, alloys composites and polymers. Formulated with raw materials of natural origin, entirely biodegradable, TOP TOOL III possesses an exceptional lubricating capacity able to reduce the friction between the tool and the worked piece, at the same time allowing rapid chip decanting.
TOP TOOL can be applied directly on the tool with a brush, an oil can and can also be dispensed with a minimal lubrication unit.

PHYSICAL PROPERTIES

Viscosity at 40°C	cSt	39
Flashpoint (COC)	°C	182
Specific gravity at 15°C	kg/L	0,911



ADVANTAGES
- Maximize lubrication
- Multimetal compatibility
- Excellent on aluminum and stainless steel
- Suitable for special alloys
- Specific for threading

Tech. Code	Quantity L	Package
H13310,4	0,4	Spray can
H133120	20	Can

While stocks last

READY-TO-USE METALWORKING FLUID FOR BAND SAWS

GUABO



ITEM: ALL IN ONE GREEN SAW

ALL IN ONE GREEN SAW is an innovative, ready-to-use, ester-based cooling lubricant derived from renewable raw materials. It is a universal product for machining steel, stainless steel, titanium and aluminium alloys, even those particularly sensitive to staining. It can also process yellow alloys and cast iron.

PROPERTIES

The special formulation, free of chlorine, boron and biocides, makes it an absolutely state-of-the-art product in terms of chemical safety. Moreover, thanks to the new generation components with which it is formulated, ALL IN ONE GREEN SAW has excellent foam resistance even at high pressures.
The advantage of having a ready-to-use emulsion with water of controlled hardness provides several advantages:
- No need for graduated jugs or mixing systems
- NO risk of calculation errors in finding the correct proportion
- ZERO risk of water hardness INCOMPATIBILITY
- ZERO waste of staff time

APPLICATIONS

The product is suitable for stamping operations with sawing machines on steel, stainless steel, titanium and aluminium alloys, even those particularly sensitive to staining. It can also process yellow alloys and cast iron.

STORAGE AND HANDLING

Store indoors if possible. The drums must be kept tilted or horizontal with the caps below the level of the contents. Avoid contamination with foreign substances during decanting or withdrawing. Tightly close the caps of the containers after opening them.

Tech. Code	Quantity L	Specific weight at 20°C kg/L	Appearance	pH	Concentration %
H005025	25	1,0	Translucent	9,4	10

TAPPING PASTE

Landoil

ITEM: HI-THREAD

HI-THREAD paste is specially designed for use in tapping, threading and drilling of any type of material, and thanks to its high adhesive qualities, it guarantees high protection of the tool.
The high adhesive capacity of HI-THREAD paste allows perfect lubrication of the tool in any input position.
The product, with additive of high EP components, guarantees maximum lubrication even under high stress and difficult-to-machine materials.



Tech. Code	Quantity g	Package
H13270500	500	Can

NEAT CUTTING OIL

Landoil

NEW



ITEM: TAP FLUID AL

Tap Fluid AL is a neat, universal cutting fluid with high lubrication power based on natural and synthetic esters, free of chlorine and mineral oils, making it particularly suitable for threading and tapping operations.
Ideal for use on aluminium alloys, even those sensitive to staining and in general on all ferrous materials such as construction steels, tempered and stainless steels, nickel alloys and titanium.

Tech. Code	Quantity L	Package
H13450001	1	Flacon
H13450005	5	Can



ITEM: TAP FLUID BLUE

Tap Fluid Blue is a neat, universal cutting fluid with high lubrication power and EP additives, free of chlorine, making it particularly suitable for threading and tapping operations.
The selected EP and antiwear additive package allows it to be used on all ferrous materials such as construction steels, hardened and stainless steels, nickel alloys and titanium.

Tech. Code	Quantity L	Package
H13550001	1	Flacon
H13550005	5	Can
H13550025	25	Can

GENERAL LUBRICATION OIL

ITEM: CARTER



Carter is a mineral-based general lubrication oil of first refining.
The product is designed for use inside closed crankcases, in hydraulic drives operating at low pressure, rolling bearings, variable speed drives, industrial gears not subjected to high loads, pneumatic tools and air compressor kinematics. The low viscosities (3-10) can be used as spindle cooling fluids where an oil-based product is required.
It has a high resistance to the formation of degradation products even at medium to high operating temperatures, excellent demulsibility and water separation capability.
Its excellent natural viscosity index makes it particularly stable at varying temperatures, ensuring rapid start-up of systems at low temperatures and avoiding loss of volumetric performance of pumps.

PHYSICAL PROPERTIES

Series		3	22	100
Viscosity at 40°C	cSt	3,6	22	100
Viscosity at 100°C	cSt	1,18	4,4	11,8
Viscosity index		-	115	105
Flashpoint (COC)	°C	120	200	230
Pour point	°C	-20	-24	-24
Specific gravity at 15°C	kg/L	0,8	0,865	0,888

Tech. Code	Series	Quantity L	Package
H2001030025	3	25	Can
H2001220025	22	25	Can
H2001100025	100	25	Can

HYDRAULIC OILS

ITEM: ABACUS PLUS



ABACUS PLUS are lubricants for hydraulic circuits formulated with very high quality paraffinic mineral bases, zinc-free anti-wear additives, detergents, dispersants and antioxidants.
In addition to use in hydraulic systems with possible contamination by water, they can also be used in closed gear reducers whose gears are moderately loaded.
They meet the technical specifications ISO-L-HM and DIN 51524/2 HLPD. They are also compliant with the MB-Approval DBL 6721 specification.

ADVANTAGES AND USES:
- Multiple uses
- Can be used in hydraulic controls of machine tools
- Used in bar pushers for lathes and hydraulic presses
- Can be used in forklifts and rolling mills
- Used in earth moving machines and hydraulic servo controls

PHYSICAL PROPERTIES

Series		32	46	68
Viscosity at 40°C	cSt	32	46	68
Viscosity at 100°C	cSt	5,5	6,8	9
Viscosity index		110	110	105
Flashpoint (COC)	°C	220	225	230
Pour point	°C	-30	-30	-27
Specific gravity at 15°C	kg/L	0,867	0,877	0,880

Tech. Code	Series	Quantity L	Package
H2021320025	32	25	Jerry can
H2021320200	32	200	Drum
H2021460005	46	5	Jerry can
H2021460025	46	25	Jerry can
H2021460200	46	200	Drum
H2021680025	68	25	Jerry can
H2021680200	68	200	Drum

The chemical-physical characteristics reported in the table do not constitute in any case a specification for the manufacturer.

SLIDEWAY OILS

ITEM: CARRIER

Carrier is a slideway oil consisting of selected oils and special zinc-free additives that promote high adhesiveness and lubricant film size.
The product has been specifically designed for the lubrication of hydrostatic guides rails, both horizontal and vertical, and is also ideal for guides and slide rails, hydraulic circuits and slow rolling bearings.
The EP additives ensure that lubrication even under high loads and in oil-loss and oil circulation lubrication systems.



PHYSICAL PROPERTIES

Series		1	2	4
Viscosity at 40°C	cSt	32	68	220
Viscosity at 100°C	cSt	5,2	9	19,5
Viscosity index		110	110	101
Flashpoint (COC)	°C	220	230	240
Pour point	°C	-24	-21	-9
Specific gravity at 15°C	kg/L	0,875	0,080	0,896

Tech. Code	Series	Quantity L	Package
H2016320025	1	25	Can
H2016680005	2	5	Jerrycan
H2016680025	2	25	Can
H2016680200	2	200	Drum
H2016220025	4	25	Can
H2016220200	4	200	Drum

GEAR OILS

ITEM: GEAR POWER

Gear Power is a mineral based gear oil with sulphur and phosphorus compounds and no lead additives.
The product is designed to be used under extreme pressure conditions (they pass EP tests such as TIMKEN, 4 ball EP, 4 ball water) and therefore on any type of gear: cylindrical, helical, conical, industrial hypoid, with worm screw (in the latter two cases only where polyalkylene glycol synthetic oils are not prescribed). It is also suitable for the lubrication of flat and rolling bearings and in circulating or oil mist lubrication systems.
It has excellent thermal and oxidation resistance of steel and copper components and ensures swift water separation under all operating conditions.
It has excellent resistance to high temperatures and therefore meets the demands of modern industry.



PHYSICAL PROPERTIES

Series		68	150	220	320
Viscosity at 40°C	cSt	68	150	220	320
Viscosity at 100°C	cSt	8,6	14,7	19,5	24
Viscosity index		105	100	100	98
Flashpoint (COC)	°C	220	235	235	240
Pour point	°C	-24	-21	-18	-18
Specific gravity at 15°C	kg/L	0,880	0,890	0,895	0,900

Tech. Code	Series	Quantity L	Package
H2031068025	68	25	Can
H2031150025	150	25	Can
H2031150200	150	200	Drum
H2031220025	220	25	Can
H2031320025	320	25	Can
H2031320200	320	200	Drum

PROTECTIVE FLUID

ITEM: PROTEX W

PROTEX W is a wax-based corrosion protection fluid for metal components that are stored in high humidity and high salinity conditions. Thanks to a specific formulation and excellent balance of detergents and solvents, PROTEX W has excellent degreasing properties and a dewatering effect.
The product passes ASTM B117 tests (salt spray test) with 90 hours of resistance. PROTEX W retains its protective capacity for 15 months in case of indoor storage while outdoors, by allocating the material to covered areas, it manages to maintain its protective capacity for 9 months.



PHYSICAL PROPERTIES

Viscosity at 40°C	cSt	3,5
Flashpoint (COC)	°C	78
Pour point	°C	-30
Specific gravity at 15°C	kg/L	0,820

Tech. Code	Quantity L	Package
H2117025	25	Can

PROTECTIVE FLUID

ITEM: PROTEX O



Protex O is an oil-based protective fluid consisting of paraffinic bases with the addition of anti-corrosive and anti-oxidant additives, specifically designed for the protection of semi-finished or finished products that must withstand extremely harsh storage or transport conditions. The product is easily applied by brush on previously dried parts and can be removed with rags, industrial detergents, alkaline solutions and/or petroleum solvents. The excellent hiding power and exceptional rustproofing power enable the product to effectively cling to the workpiece and guarantee effective protection even in critical conditions for periods of more than twelve months. The light grade is suitable for the protection of small components with even complex geometries; it is preferably used by dipping or spraying but can also be applied by brush. The heavy grade, due to its high adhesion, is used on even large portions of components and is preferably applied by brush or pad.

PHYSICAL PROPERTIES

Series		Light	Heavy
Viscosity at 40°C	cSt	22	160
Viscosity at 100°C	cSt	4,6	16
Viscosity index		127	101
Flashpoint (COC)	°C	175	230
Pour point	°C	-18	-18
Specific gravity at 15°C	kg/L	0,865	0,900

Tech. Code	Series	Quantity L	Package
H2112L025	Light	25	Can
H2112H025	Heavy	25	Can

PROTECTIVE FLUID

ITEM: PROTEX DW/O



Protex DW /O is a corrosion protection fluid with a dewatering action designed specifically for the protection of steel laminates and semi-finished products even of complex geometry, as well as for the external protection of parts subject to subsequent handling. It is ideal in situations where there is a need to leave a thin protective layer on the treated surface, easily removable with rags or ordinary solvents.
The product is easily applied by immersion, spray, brush and can be removed with rags, industrial cleaners, alkaline solutions and/or petroleum solvents.
The excellent wetting power allows any moisture or water film to be removed from the treated surfaces.
The anti-corrosion and anti-oxidant components form a thin film that protects the parts for a medium to long period (12 months) if the material is properly stored indoors after treatment.

PHYSICAL PROPERTIES

Viscosity at 40°C	cSt	2
Flashpoint (COC)	°C	78
Pour point	°C	-30
Specific gravity at 15°C	kg/L	0,793

Tech. Code	Quantity L	Package
H2106400	0,4	Spray can
H2106025	25	Can

MOULD PROTECTIVES

ITEM: 2301



The mould protector 2301 is designed to protect metal surfaces from corrosion caused by atmospheric agents.
2301 creates a non-sticky water repellent film against corrosion that is visible to the naked eye.
2301 has a characteristic green colour so that is can be quickly checked during application.
The film created by 2301 has a thickness of 10 microns per single application.
The product can easily be removed using cleaner 2611. Code (J3510500).

Tech. Code	Quantity mL	Package
H2120400	400	Spray can

PROTECTIVES FOR METALS

OKS

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ITEM: 2101



2101 is an NSF H2 certified metal protective. It creates an easily removable corrosion-resistant protective wax film that lasts for up to two years.
2101 is suitable for protecting any type of bare metal surface that is to be stored for a long time and that is exposed to atmospheric agents. The product can be used in the metalworking, shipbuilding and transport industries.
Its innovative formulation makes 2101 highly effective and its good film-forming properties mean that it provides exceptional protection against corrosion and oxidation.

Tech. Code	Quantity mL	Package
H2122400	400	Spray can

VCI PACKAGING

LTEC

ITEM: H2170



The LTEC VCI (Volatile Corrosion Inhibitor) bags have been designed to maximize the protection of machined components against rust or the formation of metal oxides during storage or transport.
They are made of low density polyethylene with the addition of volatile corrosion inhibitors and designed to effectively protect ferrous metals and alloys from oxidation. For the protection to be effective, the pieces to be protected should be dry and clean before they are inserted in the VCI bags and the package sealed. The volatile corrosion inhibitors become attached to the metal surface, preventing or blocking oxidation.
The LTEC VCI bags are compatible with the most common types of commercially available corrosion inhibitor oils and waxes.
The duration of protection is 36 months in an enclosed environment and 24 months in an open environment.

Advantages:
- easy and inexpensive to use
- compatible with most corrosion inhibitors
- very long protection.

Tech. Code	Pieces per pack	Dimensions mm	Thickness micron
H217010020X30	1600	200 x 300	100
H217010033X22	320	330 x 220 x 550h	100
H217010044X33	150	440 x 330 x 820h	100

Contact our technical department to assess the compatibility of the VCI LTEC bags with the corrosion inhibitors used.

While stocks last

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RUST REMOVER

Landoil

PDF

ITEM: RUST REMOVER



RUST REMOVER is a water-based liquid solution for removing surface rust. It is a product that restores the lustre of oxidised metals. RUST REMOVER is biodegradable; it is also a safe product for the operator, is non-toxic, non-corrosive or flammable and contains no volatile organic compounds.
RUST REMOVER will not damage copper, brass, aluminium, plastic, rubber, wood or vinyl. It will not remove paint or chrome, except when this is oxide-based.
For best results, rusted parts should be fully immersed in RUST REMOVER and removed when the rust layer is completely gone. A superficial patina of rust will take 20 to 30 minutes, a medium patina will take up to 4 hours and very rusty parts may require an overnight immersion.

Tech. Code	Quantity L	Package
H21910020	20	Can

SELECTION TABLE FOR GREASE

	Multipurpose	High Performances	PTFE - Ceramics	Silicones	Pastes
Industry	**Normal Drain** H2201 MULTIGREASE MP H2202 GLOBALGREASE H2203 SKF LGMT 2 H2204 OKS 402	**Hi Temp** H2221 DROPLESS GREASE H2300 OKS 424 H2330 OKS 420	H2422 DRY LUB GREASE H2412 SYSTEM TT163	H2536 DETACH H2526 HI-SIL H2505 SILICONE SPRAY H2510 OKS 1110 H2530 OKS 1361	H2600 OKS 265 H2630 OKS 240 H2631 OKS 241 H2636 CUPRO GREASE
		Hi EP Load H2346 MOS GREASE H2340 OKS 400 H2412 SYSTEM 41632			
	Long Drain H2236 CHAIN OIL PRO H2230 OKS 451 H2240 OKS 422	**Low Temp** -			
Food Industry	**Normal Drain** H2276 WHITE GREASE FU H2260 OKS 470 H2261 OKS 471 H2270 OKS 476	**Hi Temp** H2360 OKS 4220	H2370 OKS 475	-	H2660 OKS 250
		Hi EP Load H2380 OKS 480			
	Long Drain H2295 OKS 371	**Low Temp** H2370 OKS 475			

Normal Drain Normal drain greases

Long Drain Long drain greases

Hi Temp High temperatures greases

Hi EP Load Heavy loads greases

Low Temp Low temperatures greases

UNIVERSAL GREASE

Landoil

ITEM: MULTIGREASE MP

MULTIGREASE MP are high quality multi-purpose greases based on mineral oil thickened with lithium hydroxystate and with EP characteristics. Suitable for the lubrication of flat or rolling bearings, industrial, construction and road machinery and, in general, when operating conditions with high speeds, temperatures above ambient and the presence of water occur simultaneously. Temperature range of use: -20°C - 120°C. Drop point: 180°C. The product is designed for use with J4165 aeropulsometers, available in CAP J up to viscosity grade NLGI 2.



Tech. Code	Consistency NLGI	Quantity kg	Package	Colour
H2201MP0018	00	18	Bucket	Red
H2201MP018	0	18	Bucket	Amber
H2201MP118	1	18	Bucket	Amber
H2201MP218	2	18	Bucket	Amber
H2201MP318	3	18	Bucket	Amber

BEARINGS GREASE

OKS

ITEM: 402

OKS 402 is a multi-purpose grease based on mineral oil thickened with lithium soap, designed for lubricating machine elements subject to normal loads. Suitable for the lubrication of plain, rolling and oscillating bearings, splined and plug-in shafts, threaded rods and plain surfaces of all normally loaded types and at all speeds permissible for grease lubrication. Temperature range of use: -30°C - 120°C. Drop point: > 190°C.



Tech. Code	Consistency NLGI	Quantity kg	Package	Colour
H2204B	2	1	Can	Beige

MULTIPURPOSE GREASES

ITEM: GLOBALGREASE

GLOBALGREASE is a high-quality multipurpose grease based on mineral oil thickened with lithium soaps and with EP characteristics. It is suitable for lubricating flat or rolling bearings, industrial, construction, road and general machinery. Temperature range of use: -20°C - 120°C. Drop point: 180°C. For use with J4120 and J4122 lever compressors.



Tech. Code	Consistency NLGI	Quantity g	For compressors
H2202600	2	600	1000
H2202400	2	400	500

LUBRICANTS FOR CHAINS

ITEM: CHAIN OIL PRO

CHAIN OIL PRO is an adhesive lubricant for chain and transfer systems working under harsh conditions. Its high viscosity and excellent adhesive and flowing power maintain a high lubricating power even in applications with complex geometries of contact parts. It can be used on any type of chain, on bearings and on any part where lubrication is made difficult by conditions. Temperature range of use: -30°C - 160°C.



Tech. Code	Packaging mL	Quantity
H2236400	400	Spray can
H2236600	600	Spray can

UNIVERSAL GREASES

ITEM: LGMT 2

SKF LGMT 2 SKF LGMT 2 is a mineral oil-based grease, thickened with lithium soap, with excellent thermal stability within its operating temperature range. This high-quality general-purpose grease is suitable for a wide range of industrial applications. Operating temperature range: -30°C - 120°C. Drop point: > 180°C.



Tech. Code	Consistency NLGI	Quantity kg	Package
H2203B	2	1	Can
H2203S	2	5	Bucket
H2203F	2	18	Drums

LONG-LASTING UNIVERSAL GREASE

ITEM: 422

OKS 422 is a highly efficient synthetic grease based on polyalphaolefins, thickened with barium complex soap, suitable for long-life lubrication of machine element bearings at high temperature, speed and load. It can be used for the lubrication of rolling and plain bearings as well as threaded rods, toothed wheels, worm screws and for the lubrication of spindle bearing systems in machine tools. Temperature range of use: -40°C - 140°C. Drop point: 230°C.



Tech. Code	Consistency NLGI	Quantity kg	Package
H2240B	2	1	Can

CHAIN LUBRICANTS

ITEM: 451

OKS 451 is a high-adhesion synthetic lubricant for the lubrication of chains and machine elements operating at high speed in indoor and outdoor operation and subject to high loads or corrosion. It can be used for drive and conveyor chains of all types in open or semi-open operation, forklift chains and single and multiple slat chains without relubrication device; rope and tie-rod drives, e.g. load-bearing, conveyor, traction and hoisting ropes of lifting equipment, lifts and hoists. Oil viscosity: 300cSt. Temperature range of use: -30°C - 200°C. Flash point: 174°C.



Tech. Code	Quantity mL	Package
H2230400	400	Spray can

GREASES FOR THE FOOD INDUSTRY

ITEM: 470

OKS 470 is a white universal grease for the food industry with NSF H2 approval on a mineral oil base thickened with lithium hydroxystearate, with white solid lubricants. It can be used for lubrication of plain, rolling and oscillating bearings under normal loads, lubrication of threaded rods, machine guides and moving parts of precision mechanical devices. Temperature range of use: -30°C - 120°C. Drop point: > 195°C. NSF H2 (Reg. 137707)



Tech. Code	Consistency NLGI	Quantity kg	Package
H2260B	2	1	Can

GREASES FOR THE FOOD INDUSTRY

ITEM: 471

OKS 471 is a white universal spray grease for the food industry (NSF H2) on a mineral oil base thickened with lithium hydroxystearate, with white solid lubricants. It can be used for lubrication of plain, rolling and oscillating bearings under normal loads, lubrication of threaded rods, machine guides and moving parts of precision mechanical devices. Temperature range of use: -30°C - 120°C. Drop point: > 195°C.



Tech. Code	Consistency NLGI	Quantity mL	Package
H2261400	2	400	Spray can

HIGH PERFORMANCE GREASES

ITEM: 424

OKS 424 is a synthetic, poly-alphaolefin-based, polyurea-thickened grease for bearings that are subject to high temperature stress and exposed to corrosive environmental influences. It can be used for the lubrication of rolling and plain bearings at high temperatures and exposed to corrosive environmental influences. Temperature range of use: -30°C - 200°C. Drop point: > 230°C.



Tech. Code	Consistency NLGI	Quantity kg	Package
H2300B	1 - 2	1	Can

GREASES FOR THE FOOD INDUSTRY

ITEM: 476

OKS 476 is a universally applicable multi-purpose grease for food technology on a partially synthetic oil basis, thickened with aluminium complex soap, for the lubrication of rolling and plain bearings and other machine elements. Can be used for the grease lubrication of rolling and plain bearings, joints, linear drives and chains; lubrication of valves, seals, moulded parts and elastomer elements in the hot and cold water sector Use in hygienic valves and in machines throughout the food industry. Temperature range of use: -30°C - 110°C. Drop point: > 220°C. NSF H1 (Reg. 137619)



Tech. Code	Consistency NLGI	Quantity kg	Package
H2270B	2	1	Can

MULTI-PURPOSE HIGH TEMPERATURE GREASES

ITEM: 420

OKS 420 is a mineral oil-based, polyurea-thickened, high-temperature grease for universal use. It is ideal for corrosive operating conditions at high operating temperatures and under high pressure and impulse loads. It can be used for the lubrication of heavily loaded gearboxes at relatively low speeds, for drives under high pressure and impulsive stress, lubrication of chains in the presence of water and steam and high operating temperatures. Operating temperature range: -10°C - 160°C. Drop point: > 230°C.



Tech. Code	Consistency NLGI	Quantity kg	Package
H2330B	1 - 2	1	Can

LUBRICANTS FOR THE FOOD INDUSTRY

ITEM: 371

OKS 371 is a colourless, NSF H1 3H registered universal spray oil for food technology. It can be used for the lubrication of valve seals, sleeves, O-rings, drives, connecting rods and guides, lubrication of sliders and hinge and roller chains, cutting blades and needle and knitting machine fronts, removal of oxidised parts and removal of oily dirt and grease. Oil viscosity: 14cSt. Temperature range of use: -10°C - 180°C. Flash point: 195°C. NSF H1, 3H (Reg. 124384).



Tech. Code	Quantity mL	Package
H2295400	400	Spray can

MOLYBDENUM DISULPHIDE GREASES

ITEM: 400

OKS 400 is a highly efficient grease based on mineral oil, thickened with lithium soaps and MoS_2 additive, universally applicable for the lubrication of bearings, threaded rods and heavily loaded joints. Can be used for the lubrication of plain, rolling and oscillating bearings heavily loaded, also by shocks, of splined and plug-in shafts, threaded rods and sliding surfaces of all kinds. Temperature range of use: -30°C - 120°C. Drop point: 180°C.



Tech. Code	Consistency NLGI	Quantity kg	Package
H2340B	2	1	Can

GREASES FOR THE FOOD INDUSTRY

ITEM: 4220

OKS 4220 is a very high temperature grease based on perfluorinated polyether oil (PFPE) thickened with PTFE, for use in food technology at maximum loads and temperatures. It can be used for the grease lubrication of rolling and sliding bearings at very high temperatures, e.g. in tunnel kilns, baking, glazing and drying ovens, hot gas units, reaction vessels, boiler plants, wheels and transport rollers in continuous ovens. Temperature range of use: -40°C - 280°C. Drop point: none. NSF H1 (Reg. 124380).



Tech. Code	Consistency NLGI	Quantity g	Package
H2360500	2	500	Can

CERAMIC-BASED LUBRICANTS

ITEM: SYSTEM 41632

SYSTEM 41632 is a high-performance mineral grease based on an aluminium complex with solid ceramic-based lubricants. Special product used for the lubrication of O-rings, flat gaskets, bearings, gears and for the lubrication of all mechanisms requiring a high performance lubricant. NLGI grade: 2. Temperature range of use: -30°C - 170°C. Drop point: 265°C.



Tech. Code	Quantity mL	Packaging
H2465400	400	Spray can

GREASES FOR THE FOOD INDUSTRY

ITEM: 475

OKS 475 is a highly efficient synthetic grease based on polyalphaolefins, thickened with lithium hydroxystearate and with PTFE additive, for use at low temperatures and high speeds. Can be used for grease lubrication of low-backlash plain and rolling bearings and bearing systems with low mechanical torques due to inertia, high-speed plain bearings, as a lubricant-sealant and maintenance product on plastic and rubber parts. Temperature range of use: -60°C - 120°C. Drop point: > 185°C. NSF H2 (Reg. 137708).



Tech. Code	Consistency NLGI	Quantity kg	Package
H2370B	2	1	Can

SILICONE GREASE

ITEM: 1110

OKS 1110 is a silicone grease based on polymethylsiloxane, thickened with inorganic thickeners, with high adhesion and transparency for valves, gaskets and plastic parts. It can be used as a sealant and lubricant for cold and hot water valves of vehicle heating systems and circuits, ground gaskets of gas taps and dryers, for lubricating O-rings and rubber seals during assembly and operation. Temperature range of use: -40°C - 200°C. Drop point: none. NSF H1 (Reg. 124381).



Tech. Code	Consistency NLGI	Quantity g	Package
H2510080	3	80	Tube
H2510500	3	500	Can

GREASES FOR THE FOOD INDUSTRY

ITEM: 480

OKS 480 is a synthetic grease based on polyalphaolefins, thickened with calcium sulphonate complexes, for high pressures and loads in applications throughout the food technology sector. It can be used for the lubrication of rolling and sliding bearings, even at high temperatures or in contact with cleaning agents and disinfectants. Temperature range of use: -30°C - 160°C. Drop point: > 300°C. NSF H1 (Reg. 148971).



Tech. Code	Consistency NLGI	Quantity kg	Package
H2380B	2	1	Can

SILICONE RELASE AGENTS

ITEM: 1361

OKS 1361 is a colourless, silicone oil-based spray release agent and lubricant. It can be used as a release agent for casting, injection moulding, moulding and extrusion processes of plastics and elastomers; prevents sticking and build-up, e.g. of excess glue and mastic. Eliminates squeaking and creaking from rubbing of plastic, elastomer and metal surfaces; facilitates insertion of plastic and rubber profiles, e.g. in door and window construction. Oil viscosity: 350cSt (25°C). Temperature range of use: -50°C - 200°C. Flash point: > 300°C. NSF H1 (Reg. 129481).



Tech. Code	Quantity mL	Package
H2530400	400	Spray can

ANTI-SEIZE PASTES

ITEM: 265



OKS 265 is a synthetic paste based on polyalphaolefin, thickened with lithium soaps and admixed with white solid lubricants, for clamping chucks for the lubrication of friction and sliding points subject to high impulse loads. It can be used for the long-term lubrication of dirt-sensitive and vibration-prone sliding points; it is particularly suitable for the lubrication of clamping spindles of machine tools and has versatile use for stressed parts, also in contact with metalworking fluids. Temperature range of use: -40°C - 110°C. Drop point: 160°C.

Tech. Code	Consistency NLGI	Quantity mL	Package
H2600400	2 - 3	400	Cartridge
H2600B	2 - 3	1000	Can

ANTI-SEIZE PASTES

ITEM: CUPRO GREASE



CUPRO GREASE is a synthetic-based high-temperature screw spray paste, thickened with an inorganic thickener and copper additive, designed to prevent corrosion, seizing and locking. It can be used as an anti-seize for inserts, screws, nuts, pins, bolts and threaded metal fittings in general, which are subjected to extreme conditions: from machining with insert tools to oven chains. Temperature range of use -30°C - 1100°C. Drop point: none.

Tech. Code	Consistency NLGI	Quantity mL	Package
H2636125	2	125	Tube
H2636400	2	400	Spray can

ANTI-SEIZE PASTES

ITEM: 240



OKS 240 is a synthetically based high-temperature screw paste, thickened with inorganic thickener and additivated with copper, solid lubricants and MoS2, designed to prevent corrosion, seizing and locking. It can be used for mechanical fastening of inserts, assembly of threaded fittings, stressed by high temperatures and corrosion, screw connections of pipes, flanges and valves of high temperature steam lines. Temperature range of use -30°C - 1100°C. Drop point: none.

Tech. Code	Consistency NLGI	Quantity kg	Package
H26301	1 - 2	1	Can

ANTI-SEIZE PASTES FOR THE FOOD INDUSTRY

ITEM: 250



OKS 250 is a high-temperature paste based on synthetic oils, thickened with polyurea and additives with ceramic solids and Cox-Active, for the lubrication of heavily loaded sliding surfaces. It can be used for the lubrication of heavily loaded sliding surfaces, especially at low speeds or for oscillating movements, e.g. for screw, plug and bayonet joints in high-alloy steels or non-ferrous metals and separation of the surfaces of threaded connections under thermal stress. Temperature range of use -40°C - 1400°C. Drop point: none.

Tech. Code	Consistency NLGI	Quantity kg	Package
H2660B	1 - 2	1	Can

ANTI-SEIZE PASTES

ITEM: 241



OKS 241 is a synthetically based, high-temperature screw spray paste thickened with inorganic thickener and additivated with copper, solid lubricants and MoS2, designed to prevent corrosion, seizing and locking. It can be used for mechanical fastening of inserts, assembly of threaded fittings, stressed by high temperatures and corrosion, screw connections of pipes, flanges and valves of high temperature steam lines. Temperature range of use -30°C - 1100°C. Drop point: none.

Tech. Code	Consistency NLGI	Quantity mL	Package
H2631400	1 - 2	400	Spray can

UNIVERSAL HIGH TEMPERATURE GREASES

ITEM: DROPLESS GREASE



DROPLESS GREASE is an infusible multi-purpose spray lubricating grease, based on synthetic oils thickened with inorganic thickeners, with a high protective capacity against oxidation. It can be used to lubricate surfaces subject to high loads at high and low speeds, ball bearings, rollers, pivots, cylinders and parts subject to high stress and friction in general. Temperature range of use: -10°C - 200°C. Drop point: none.

Tech. Code	Consistency NLGI	Quantity mL	Package
H22210400	2	400	Spray can

VASELINE GREASES FOR THE FOOD INDUSTRY

ITEM: WHITE GREASE FU

WHITE GREASE FU is a white pharmaceutical spray grease based on high-purity hydrocarbons for the lubrication of organs potentially in contact with foodstuffs. It can be used for general lubrication. Temperature range of use: -30°C - 60°C. Drop point: 65°C.



Tech. Code	Consistency NLGI	Quantity mL	Package
H22760400	2	400	Spray can

SILICONE LUBRICANTS

ITEM: HI-SIL

HI-SIL is a multi-purpose spray lubricant and release agent based on polysiloxanes. It can be used to make surfaces smooth and shiny by removing the adhesion of glue, ink and paint residues.
It is ideal for graphic, textile and footwear equipment.
It is also recommended for the lubrication of plastic parts and sliding frames of tools and instruments.
Temperature range of use: -30°C - 150°C.



Tech. Code	Quantity mL	Package
H25260400	400	Spray can

MOLYBDENUM DISULPHIDE GREASES

ITEM: MOS GREASE

MOS GREASE is a spray lubricating grease, based on mineral oil thickened with lithium soaps and additivated with MoS2. It can be used for lubrication of chains, brakes, uncovered gears in the presence of water, dust, humidity, steam, temperatures at the limit of the range allowed for common lithium greases, for long periods of operation; it can also be used for bearings lubricated for life and parts that are difficult to access or that cannot be periodically greased, for threaded connections subjected to stress, for machine tool hinges. Temperature range of use: -20°C - 160°C. Drop point: > 195°C.



Tech. Code	Consistency NLGI	Quantity mL	Package
H23460400	2	400	Spray can

SILICONE RELEASE AGENTS

ITEM: DETACH

DETACH is a colourless spray lubricant and release agent based on silicone oil. It can be used as a release agent for casting, injection moulding, moulding and extrusion processes of plastics and elastomers. Eliminates squeaking and creaking from rubbing of plastic, elastomer and metal surfaces; facilitates insertion of plastic and rubber profiles, e.g. in door and window construction. Oil viscosity: 350cSt (25°C). Temperature range of use: -50°C - 200°C. Flash point: > 300°C.



Tech. Code	Quantity mL	Package
H25360400	400	Spray can

CERAMIC-BASED LUBRICANTS

ITEM: H2422

DRY LUB GREASE is a spray lubricating compound based on micronised mineral components and ceramic particles. It can be used for lubricating moulds, precision tools, sliding parts, hinges, drawers, locks and components of woodworking machines, reducing working time and increasing the lubrication life of the treated parts. Temperature range of use: -45°C - 900°C.



Tech. Code	Quantity mL	Packaging
H24220400	400	Spray can

AEROSOL SPRAY GUNS

ITEM: H2950

Plastic spray gun for spray cans. Allows the product to be dispesed with extreme ease. Fits most spray cans on the market.



Tech. Code	Package
H2950GUN	1 pc.

BIOCIDAL PRESERVATIVE ADDITIVE FOR EMULSIONS

ITEM: CLEAN BATT B

CLEAN BATT B is a broad-spectrum bactericidal product that can be used on any type of emulsion.The CLEAN BATT B bactericide is a specific formulation to counteract the degradation phenomena that cause bad odors insystems such as emulsions and washing waters.



ADVANTAGES:
- Wide spectrum of action
- Suitable for eliminating any microorganism
- Ease of use
- Eliminates bacteria and bad odors

Recommended concentrations: 100 mL per 100 liters

Tech. Code	Quantity L	Package	Appearance concentrate	Density at 20°C kg/L	pH (5%)
H35180005	5	Can	Straw Yellow	1,060	3,4

ALKALINISING ADDITIVE

ITEM: TC-315

NEW

TC-315 is an alkalinising and preservative additive in liquid form designed to restore the alkalinity of emulsions in use when they are degraded.



ADVANTAGES
- Fast action
- Effectively restores the alkaline reserve of emulsifiables
- Free of formaldehyde donors, borates and secondary amines

Recommended concentrations: 200 - 300 mL per 100 litres of emulsion.

Tech. Code	Quantity L	Package
H35510005	5	Can

SANITIZING DETERGENT FOR MACHINE TOOLS

ITEM: COOLSAN

NEW

COOLSAN is successfully used when the emulsion has to be replaced during operation and it is necessary to disinfect as well as clean effectively.
Used at the recommended concentration, it removes accumulated dirt from the system and pipes, making cleaning easier.
When introduced into the system, work can continue as it does not interfere with working conditions.



METHOD OF USE
- Introduce COOLSAN at 1-3% in the emulsion to be replaced 24 h before emptying
- Work normally or circulate the system
- Empty and remove all residues manually
- Rinse if possible
- Introduce new emulsion at the indicated concentration into the system

Tech. Code	Quantity L	Package
H35120005	5	Can
H35120025	25	Can

ANTIFOAM

ITEM: DEFOAMER 155

Defoamer-155 is a silicone antifoam in emulsion specific for aqueous systems with excellent dispersibility and rapid effectiveness, with a long-lasting effect.
Defoamer-155 can be added as is to the emulsion or possibly diluted 1:10. It can be used in emulsions for metalworking, in waste water treatment systems, purification plants, process waters etc. It is extremely effective even at low dosages and in a wide pH range. The product is inert and does not chemically interfere in the system into which it is introduced.



BENEFITS AND ADVANTAGES
- Quick action
- Long-lasting action
- Low dosages (from 5 to 200 ppm)
- Expansive pH range of use (2 -12)
- For all aqueous systems

Tech. Code	Quantity L	Package
H35420005	5	Can

ANTISUMA

ITEM: DEFOAMER TK-100

NEW

DEFOAMER TK-100 is a siloxane-modified defoamer designed primarily for use in a wide variety of metalworking emulsions with a long-lasting defoaming effect.
The properties and performance of an antifoam agent are highly dependent on the specific formulation in which it is used and, therefore, should always be tested (possibly at different treatment levels, temperatures and/or time intervals) prior to use.
An initial dosage level of 0.01 to 0.50 per cent of the emulsion volume in the tank is recommended.
Always stir before use as the product tends to separate slightly.
Stir the product and repeat the quality test one year after the date of manufacture.
Defoamer-TK-100 is washable according to typical industrial washing and rinsing procedures, so that the subsequent paintwork, after washing, is free of defects.



Tech. Code	Quantity L	Package
H35470005	5	Can

ANTIFREEZE

PDF

ITEM: ANTIFROST BLUE ECO

Antifrost BLUE ECO is a blue, concentrated ethylene glycol coolant that is free of amines, nitrites and phosphates and has an excellent toxicological profile.
It is used to lower the freeze point of the mixture to the set limit. Its additives allows it to avoid corrosion during use, to protect ferrous and non-ferrous alloys.
The product is designed to be applied to all metals that comprise the various parts of a cooling system, especially in aluminium.
At boiling point, it minimises any inconveniences by inhibiting foaming.

DILUTION TABLE

10% Vol.	-4°C
20% Vol.	-9°C
30% Vol.	-16°C
40% Vol.	-24°C
50% Vol.	-32°C



Tech. Code	Quantity L	Package
H2054005	5	Can
H2054025	25	Can

STOPPERS WITH TAP FOR JERRYCANS

ITEM: H2013

Stopper with dispensing cap suitable for use with plastic jerrycans. For jerrycans from 5 to 30 L.



Tech. Code	Package
H2013CAP	1 pc.

PH-CONTROL PAPERS

ITEM: H3609

The emulsion pH-control papers are used to verify that the value lies between 8.5 and 9.5. A too low pH value can generate oxidation processes, be a symptom of the formation of bacterial colonies and/or of the presence of extraneous elements, while a too high pH value is among the main causes of operator skin irritation; daily use is recommended.



Tech. Code	pH	Package	Pieces
H36096510	6,5 - 10	Box	100

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WATER HARDNESS CONTROL PAPERS

ITEM: H3615

Papers for controlling the emulsion water hardness are used to verify this value. If the value is higher than 50° French, the emulsion may separate; it is advisable to top up with emulsion prepared with demineralised water. The emulsion hardness tends to increase during use due to the evaporation of water and the high concentration of minerals dissolved in it; so we recommend a weekly control of this parameter.



Tech. Code	Package	Pieces
H3615100	Jar	100

REFRACTOMETER

ITEM: FLUID TESTER

The refractometer is an optical instrument that measures the refractive index of a fluid to determine the concentration percentage of the coolant lubricating emulsions. Its daily use makes it possible to verify the correct concentration of the emulsion in the tank, in order to avoid waste, protect machine tools and reduce total production costs.



Tech. Code	Reading grade Brix	Divisions
H3632018	0 - 18%	0,1

VOLUMETRIC MIXER

ITEM: MV10 - MV12

A volumetric mixer is an instrument driven only by water pressure that guarantees stable emulsions at the required concentration.
Using a volumetric mixer can reduce filling and topping up times for machine tool tanks, saving time and reducing costs. The volumetric mixer can also be used for topping up, specifying the concentration with ease and precision.
The LANDOIL volumetric mixer is made in Italy and all units are tested individually before being sold to the end user. The mixer in its full version is equipped with a filter, pressure reducer, suction tube, stainless steel housing to prevent the product from accidental impact and 2 valves so that it is ready for use.



Tech. Code	Concentration	Flow L/h	Water pressure Bar	Model
H366010	1 - 10%	1600	from 0.7 to 8	Base
H366012	1 - 10%	1600	from 0.7 to 8	Complete

BELT OIL SEPARATOR

ITEM: RASEN

The RASEN N series of belt oil separators are designed for the removal of foreign oil in machine tools, washing fluid tanks, compressor condensation and in general where it is necessary to separate surface oil from the underlying fluid.
They are easily applicable even in tight spaces, and allow for an effective mechanical removal of polluting oils from the surface of metalworking fluid emulsions.
Features:
- STAINLESS Steel and Light Alloy Construction
- PVC/Polyurethane Belt
- Low tension planetary gear motor, according to ISO standards, protected against dust and accidental impact
- 7 speeds adjustable via a potentiometer
- Air fitting for emulsion oxygenation included
- Can be equipped with a level switch
- 230 V power supply



Tech. Code	Suction tube mm	Tape size mm	Dimensions mm	Weight kg	Level switch
H4042N30X2,5	300	25	210 x 100 x 438	5,5	Yes
H40423025B	300	25	210 x 100 x 438	5	No
H4042N30X5	300	50	244 x 148 x 507	7,5	Yes
H40423050B	300	50	244 x 148 x 507	7	No

REPLACEMENT BELTS FOR RASEN OIL SEPARATORS

ITEM: H4043

Replacement polyurethane belts for Rasen oil separators. High oil extraction capacity.



Tech. Code	Width mm	Fishing mm
H4043N3025R	25	300
H4043N3050R	50	300

TOS COALESCENCE DE-OILING MACHINE

ITEM: TOS

Coalescence de-oiling machine capable of separating foreign oils, sludge and soap from emulsions.
Thanks to its self-levelling suction unit, it can also be used in tanks with narrow spaces and independently follows the level of the emulsion.
It does not require operator supervision, except in the discharge phase.
Effectively de-oils aqueous fluids with neutral or weakly alkaline pH, with temperatures up to 60°C.

Dotazione standard:
- Bag filter 200 µm
- Dynamic drawer with magnet H. 60/100 mm
- Suction hose Ø 20 mm - 2 m.
- Exhaust hose 40 mm - 1.5 m



Tech. Code	Tank capacity L	Flow L/h	Power kw	Voltage Volt	Dimensions mm	Empty weight kg	Temp. use °C
H4000TOS	105	250	0,29	230 to 50 Hz	570 x 550 x 980 h	80	< 60°C

TOS DE-OILING MACHINE - SPARE PARTS

ITEM: LN841

Spare parts for Tos Oil separator

Tech. Code	Description
H4002P070	Complete dynamic suction unit. Dimension H = 60/100 mm (standard)
H4002P250	Complete dynamic suction unit. Dimension H = 250/500 mm
H4002R070	Replacement neoprene float Ø 70 mm (standard)
H4002R125	Replacement neoprene float Ø 125 mm



ITEM: LN842

Tos de-oiling machine spare parts

Tech. Code	Description
H4004F100	Replacement filter 100 microns
H4004F200	Replacement filter 200 micron (standard)
H4004ORING	O-ring bag filter



ITEM: LN843

Tos de-oiling machine spare parts

Tech. Code	Description
H4006202	Suction hose Ø 20 L= 2 m
H4006205	Suction hose Ø 20 L= 5 m
H4006RF20	Female quick release Ø 20 mm
H4006RM20	Male quick release Ø 20 mm
H4006SC40	Exhaust pipe w/ elbow Ø 40 mm L=1.5 m


H4006RF20


H4006RM20


H4006SC40

TOS DE-OILING MACHINE - COALESCENCE FILTER REPLACEMENT

ITEM: LN846

NEW

Spare coalescing filter for TOS oil skimmer.

Tech. Code	Description
H4007001	Coalescence honeycomb filter



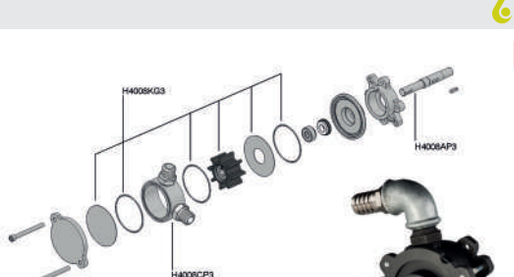
TOS DE-OILING MACHINE - PUMP SPARE PARTS

ITEM: LN844

NEW

Complete plug-and-play replacement pump assembly.
Alternatively, it is possible to purchase individual components, from the hardened pump body to the impeller kit to the drive shaft.

Tech. Code	Description
H4008GPP	Complete Pump (Plug and Play)
H4008AP3	Pump Shaft Replacement
H4008CP3	Pump housing with fittings
H4008KG3	NBR pump impeller kit

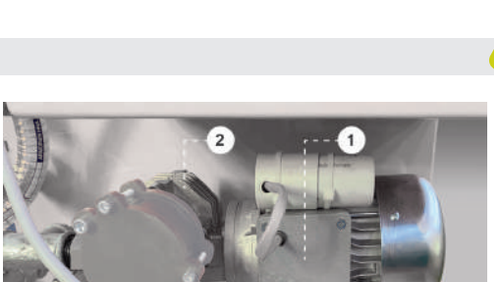


TOS DE-OILING MACHINE - SPARE PARTS

ITEM: LN845

Motor and gearbox for TOS deoiling machine.

Tech. Code	Description
H4010001	Engine (1)
H4010002	Reducers (2)



TOS DE-OILING MACHINE - REPLACEMENT CAN

ITEM: LN847

NEW

Spare canister for recovering oil separated from the emulsion. The canister is equipped with a float for blocking once the overflow level is reached.

Tech. Code	Description
H4014015	15 L canister complete with level sensor









Tel. 059.8635390 - info@land-oil.it

The latest generation of cooling lubricants

THAT PROTECT THE OPERATOR'S HEALTH

INDUSTRIAL SUMP VACUUMS

NEW

ITEM: TWIST OIL

Single-phase industrial sump vacuum suitable for the separation of liquids mixed with solids. The emptying of liquids takes place by reversing the flow of air generated by the turbine, eliminating any problem of possible blocking of the transfer pumps.



Features:
- Turbine with single-phase motor
- Liquid aspiration time L/sec 130/30
- Liquid discharge time L/sec 130/50
- Microperforated galvanized steel basket
- Level probe with automatic blocking system
- Suction mouth Ø 50 mm
- immediate recovery of metalworking fluids with direct return to the sump via drainage pipe with ball valve
- frame with storage compartment for accessories

Dotazione standard:
- Washable nylon filter cod. N004810
- Flexible PUR hose Ø 50 mm x 3 m cod. N00285003
- Rubber sleeve Ø 50 mm cod. N002750
- Exhaust hose Ø 35 mm x 3 m cod. N00313503
- Ball valve 1" - 1/4 cod. N003210
- Metal flat lance L 400 mm cod. N003350
- Conical lance in oil-resistant rubber cod. N003550

Tech. Code	Liquid capacity L	Solid capacities L	Power supply V - Hz	Power kw - HP	Max. depression mBar	Max. air flow rate L/min	Sound level dB(A)	Dimensions mm
H4100130	130	40	230 - 50/60	2.4 - 3	230	5500	70	700 x 1180 x 1320 h

INDUSTRIAL VACUUM CLEANERS

ITEM: MINI TWIST OIL

Industrial vacuum cleaner for suctioning and separating oil and metal swarf from tanks, tables and machine tools. The filtered liquids are discharged by gravity, thanks to a discharge tube positioned at the bottom of the container.



Features:
- Vacuum unit equipped with 2 bypass motors controlled by independent switches. The motors are contained in an insulating sponge to maintain a low noise level
- Separation unit that traps the chips in a gridded basket to simplify disposal and make the filtered liquid suitable for re-use
- Safety float: the electric level probe stops suction when the liquid exceeds the filling level of the container
- Indicative time for both suction and liquid discharge 70lt / 20 sec
- Liquid discharge ball valve for easy discharge of collected liquids by gravity
- Vacuum gauge for signalling when filter is clogged or needs replacing

Dotazione standard:
- Anti-oil cartridge
- PUR hose d. 50 mm x 3 m
- Rubber sleeve d. 50
- Metal flat lance L.400 mm
- Conical rubber anti-oil lance d. 50
- Optional - Nylon filter

Tech. Code	Liquid capacity L	Solid capacities L	Power supply V - Hz	Power kw - HP	Max. depression mBar	Max. air flow rate L/min	Sound level dB(A)	Dimensions mm
H4101070	70	40	230-50/60	2,6 - 3,5	250	380	70	565 x 770 x 1210

INDUSTRIAL VACUUM CLEANERS

NEW

ITEM: TWIST OIL EVO

Industrial vacuum cleaner for suctioning and separating oil and metal swarf from machining centre tanks. Equipped with three single-phase motors, it has a liquid capacity of 200 litres and has a pump for discharging the filtered liquid that allows simultaneous and continuous suction and discharge.

Features:
- Separation unit that traps the chips in a micro-perforated steel basket to simplify disposal and make the filtered liquid suitable for re-use
- Liquid discharge system by means of an electric pump for fast discharge of sucked and filtered liquids
- Approximate liquid suction time 200lt / 80 sec and liquid discharge 200lt / 100 sec
- Anti-oil cartridge for motor protection
- Vacuum gauge for signalling when filter is clogged or needs replacing

Dotazione standard:
- 150µm liquid filter
- Anti-oil cartridge
- PUR hose d. 50 mm x 3 m
- Rubber sleeve d. 50
- Metal flat lance L.400 mm
- Conical rubber anti-oil lance d. 50
- Galvanised scraper d.50



Tech. Code	Liquid capacity L	Solid capacities L	Power supply V - Hz	Power kw - HP	Max. depression mBar	Max. air flow rate L/min	Sound level dB(A)	Dimensions mm
H4102200	200	35	230-50/60	3,9 - 5,2	250	570	72	1050 x 619 x 1670

OIL MIST ASPIRATOR

ITEM: AFM MIST PLUS

Air filter capable of removing oil mists, fumes and vapours generated by machining operations. The innovative structural design with the electric fan placed downstream from the filtering battery places the entire system under vacuum, guaranteeing perfect filtration and an extraordinary seal against oil leakage. Clogged filter detection device and quick and easy replacement of all filters. The H14 absolute post filter guarantees a final filtration degree of 99.99%. Power supply voltage 400V/50 Hz three-phase.

Dotazione standard:
- Luminous clogging detector signal
- Pre-filters
- H12 cartridge
- Filter H14



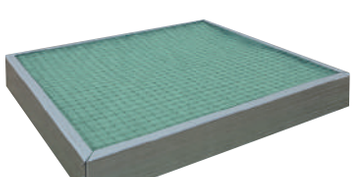
Tech. Code	Model	Suction air flow m^3/h	Power kw	suction Ø mm	Noise level dBa	Static pressure Pa	Filtering surface m^2	Cabin interior volume m^3
H54700500	AFM MIST PLUS 500	700	0,55	120	62	820	5.7	0-3
H54701000	AFM MIST PLUS 1000	1200	1,1	150	64	1100	8.4	3-5
H54702000	AFM MIST PLUS 2000	2100	1,5	200	68	1400	11.9	5-8
H54703000	AFM MIST PLUS 3000	3100	2,2	250	72	2000	14	8-10

SYNTHETIC PRE-FILTER CELLS

ITEM: LN881

Green-white glass fibre pre-filtered cells with efficiency class G3 and galvanised sheet metal frame. The air inlet side is green and the outlet side white.

Tech. Code	Compatible with model	Dimensions	Description
H5422RIC1	AFM 500	310 x 365 x 48	Synthetic pre-filter cells
H5422RIC2	AFM 1000	380 x 430 x 48	Synthetic pre-filter cells
H5422RIC3	AFM 2000	480 x 520 x 48 (2pcs)	Synthetic pre-filter cells
H5422RIC4	AFM 3000	540 x 580 x 48 (2pcs)	Synthetic pre-filter cells



FILTER CARTRIDGE

ITEM: LN885

Glass fibre cartridge with H13 classification and 99.95 per cent filtration efficiency proven through the DIN EN 1822 reference standard.

Tech. Code	Compatible with model	Dimensions Ø x H	Description
H5431500	AFM 500	280 x 210	Filter cartridge
H54311000	AFM 1000	325 x 250	Filter cartridge
H54312000	AFM 2000	410 x 310	Filter cartridge
H54313000	AFM 3000	430 x 350	Filter cartridge



EXTERNAL CARTRIDGE FILTER

ITEM: LN886

External cartridge sock filter, polypropylene with efficiency class M6.

Tech. Code	Compatible with model	Description
H5435500	AFM 500	External cartridge filter
H54351000	AFM 1000	External cartridge filter
H54352000	AFM 2000	External cartridge filter
H54353000	AFM 3000	External cartridge filter

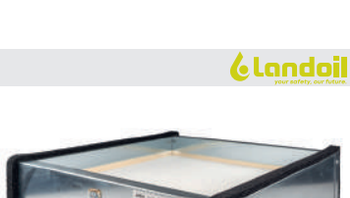


ABSOLUTE POST FILTER

ITEM: LN888

High-efficiency HEPA glass fibre final filter class H14 according to UNI EN 1882. Efficiency of 99.995%. Galvanised steel frame.

Tech. Code	Compatible with model	Dimensions	Description
H54190500	AFM 500	375 x 375 x 150	Absolute post filter
H54191000	AFM 1000	425 x 425 x 150	Absolute post filter
H54192000	AFM 2000	525 x 525 x 150	Absolute post filter
H54193000	AFM 3000	610 x 610 x 150	Absolute post filter



TO ORDER SPARE PARTS OR ACCESSORIES FOR BLAST CHILLERS, ALWAYS PROVIDE MACHINE MODEL AND SERIAL NUMBER

MINIMAL LUBRICATING CONTROL UNIT FOR SAWING MACHINES

LTEC



ITEM: MICRO DROP

LTEC minimal lubricating systems have been designed to replace traditional lubrication with oil emulsion or neat oil in machining with chip removal, molding and cold deformation. Uses lubricants from renewable bases that replace conventional fluids, eliminating registration requirement and disposal of exhausted liquid.
The micro-pneumatic pumps dose the minimum amount of lubricant that is transported by a flow of compressed air towards the tool/ workpiece contact point without creating mist or pollution. The lubricant is consumed only during the processing phase.
It is possible to obtain an immediate increase in productivity because machine, working area and piece cleaning times are eliminated.
A further advantage in cost reduction is derived from the increase in tool life, which kept at room temperature significantly increases its life; and also eliminates any possible health problems deriving from contact with traditional fluids.

MODEL FOR BAND SAWS
The ECU consists of a 1.2-liter tank with electric level control, frequency generator, needle valve to regulate the flow of compressed air coming out of the nozzel, micro-pump single-acting pneumatic pump, solenoid valve to start and the stop of the control unit, nozzel for band sawing machine complete with 5 meters of coaxial pipe.

Tech. Code	Nozzles n.°	Voltage Volt	For band saw blades mm
H145034	1	24 V-CC	≤ 34

WARNING: Available on request reel with different voltage in CC or AC.

MINIMAL LUBRICATING CONTROL UNIT FOR MACHINES

LTEC



ITEM: MICRO DROP

LTEC'S minimal lubricating systems have been designed to replace the traditional lubrication with oil emulsion or neat oil in machining with chip removal, molding and cold deformation. These units have been designed to use fluids from renewable bases which replace conventional fluids eliminating the obligation of registration and disposal of used liquids.
The micro pneumatic pumps dose the minimum amount of lubricant transported by a flow of compressed air flow to the contact point tool/ workpiece without creating fog or pollution. The lubricant is consumed only during the processing phase.
It is possible to obtain an instant increase in productivity as it helps eliminate cleaning times usually required by the machine as well as it surrounding working area.
A further advantage in cost reduction is derived from the increase in tool life, which, kept at a room temperature, significantly increases its life, it also eliminates the health problems derived from contact with traditional fluids.

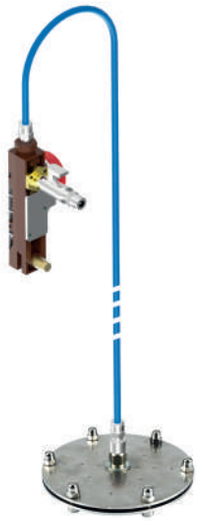
MODEL FOR MACHINE TOOLS
The ECU consists of a 1.2-liter tank with electric level control, frequency generator, needle valve to regulate the flow of compressed air coming out of the nozzel, micro-pump single-acting pneumatic pump, solenoid valve to start and stopping the control unit, articulated nozzel (s) with 5 meters of coaxial pipe.

Tech. Code	Nozzles n.°	Voltage Volt
H14521	1	24 V-CC
H14522	2	24 V-CC

WARNING: Available on request reel with different voltage in CC or AC.

OXYGENATORS FOR EMULSIONS

Landoil



ITEM: OXI COOLER

OXI COOLER is a system for oxygenating and cooling emulsions. Very simple to use.
Once the bubbler tubes are inserted in the bottom of the tank, simply connect the device to the compressed air.
The simple model with a single bubbler is combined with a Delta 40 cooler and is supplied with a neodymium magnet to be secured to a metal wall.
The maxi model with triple bubbler is driven by a Delta 40 Turbo Kompact and is supplied with a bracket to support the system consisting of cooler, solenoid valve and control unit.

ADVANTAGES:
- Longer emulsion life without added chemicals
- Optimises tool performance
- Elimination of odours caused by the metabolism of microorganisms
- Maintains pH at an optimal level
- Fights bacterial proliferation
- Reduced production of fumes and mists
- Reduces disposal costs

Tech. Code	Pressure Bar	Outlet temperature °C	Air NL/min	Weight kg
H3267001	1.5 3 4 5	-1.5 -15 -21.5 -24.5	32 74 94 115	1.2
H3267003	1.5 3 4 5	-9 -19 -22 -24	170 290 410 525	3.2

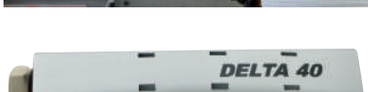
AIR COOLERS

ITEM: DELTA 40

DELTA 40 is a patented compressed air cooling device that converts the air into two flows: one of hot air and one of very cold air. The jets and the hot or cold air temperatures are adjustable by means of a valve that allows control. It is light, compact and economical and operates easily. It is made of corrosion resistant materials. The support is made of plastic material (nylon 6.6) which allows it to be installed using a dedicated, adaptable bracket. It does not use electricity or chemicals, it does not generate sparks or interference. Reduces pollution and increases tool processing speed by extending its service life.



Equipment: DELTA 40 is provided with a 160mm - 1/4" articulated tube.



Tech. Code	Pressure Bar	Outlet temperature* °C	Air NL/min	Weight g
H362210	5 6 7	-24,5 -26,5 -28,0	115 135 154	150

***Temperature detected on exit nozzle with an inlet air temperature of 20°C.**

ITEM: DELTA 40 TURBO KOMPACT

DELTA 40 TURBO is a patented compressed air cooling device. DELTA 40 TURBO divides the air into two flows: one of hot air and one of very cold air.
The jets and the hot and cold air temperatures can be adjusted and controlled by means of valve. It is lightweight, compact, economical and easy to operate. It is made of corrosion resistant material. The support is made of aluminium and the DELTA 40 TURBO can be installed using two magnets.
It does not use electricity or chemicals and it does not generate sparks or interference.
Reduces pollution and increases the speed of the machining tool, increasing its service life.



Tech. Code	Pressure Bar	Input temperature °C	Outlet temperature* °C	Air consumption NL/min	Weight g
H3629TURBOK	5 6 7	20	-16 -17 -19	525 650 750	225

*** Outlet temperature partly of cold air regulated about 50%.**

AIR COOLER - BAND SAW KIT

ITEM: DELTA 40 SAW KOMPACT

DELTA 40 SAW KOMPACT is a specific air cooling device for band saw machines. It is applied on saws to cool the blade and allow dry cutting on both metals and various types of plastic.
This cooler also finds a valid application on vertical band sawing machines for metals, wood, plastic, on disc sawing machines for cutting the sprue of aluminum molded parts and in all material cutting applications where it is not recommended or impossible to use coolants.



*Temperature detected on exit nozzle with an inlet air temperature of 20°C.

Tech. Code	Pressure Bar	Outlet temperature* °C	Air consumption NL/min.	Weight g
H36232K	5 6 7	-26 -28 -31	230 270 308	238

FIXING KITS FOR COOLERS

ITEM: H3640

Plate or magnet fixing kits designed for coolers.



Tech. Code	Type	For coolers
H3640P40B	Plate with screws	Delta 40
H3640P40CS	Plate with screws	Delta 40 Compact Saw
H3640P40T	Plate with screws	Delta 40 Turbo
H3640P40MG	Magnet with screws	Delta 40 Turbo and Compact Saw

NON-WOVEN MATERIAL FOR FILTER MATS

ITEM: H4110

Viscose BTZ offers higher filtration quality because porosity is uniform over the whole surface; it is more suitable for filtering emulsions.

The polypropylene BTK is more economical, but offers lower pore uniformity; it is also suitable for filtering neat oils.

The polyester is based of polyethylene which has the features to offer a perfect filtration for neat cutting oils on mineral based and synthetic fluids.

The weight per square meter is directly proportional to the filtration quality; a higher weight retains the finer dust, while a lighter weight allows the micro-scrap to pass through.



Tech. Code	Material	Length m	Height mm	Ø mm	Weight g/m²
H4110Z25500	Viscose	100	500	155	25
H4110Z30500	Viscose	100	500	165	30
H4110Z35500	Viscose	100	500	170	35
H4110Z50500	Viscose	100	500	195	50
H4110Z25700	Viscose	100	700	155	25
H4110Z30700	Viscose	100	700	165	30
H4110Z35700	Viscose	100	700	170	35
H4110Z50700	Viscose	100	700	195	50
H4110Z251000	Viscose	100	1000	155	25
H4110Z301000	Viscose	100	1000	165	30
H4110Z351000	Viscose	100	1000	170	35
H4110Z501000	Viscose	100	1000	195	50

Tech. Code	Material	Length m	Height mm	Ø mm	Weight g/m²
H4110K2500	Polypropylene	100	500	160	20
H4110K3500	Polypropylene	100	500	180	30
H4110K2700	Polypropylene	100	700	160	20
H4110K3700	Polypropylene	100	700	180	30
H4110K5700	Polypropylene	100	700	215	50
H4110K7700	Polypropylene	100	700	230	70
H4110K21000	Polypropylene	100	1000	160	20
H4110K31000	Polypropylene	100	1000	180	30
H4110K51000	Polypropylene	100	1000	215	50
H4110K71000	Polypropylene	100	1000	230	70

Tech. Code	Material	Length m	Height mm	Ø mm	Weight g/m²
H4110P30700	Polyester	100	700	155	30
H4110P45700	Polyester	100	700	175	45
H4110P70700	Polyester	100	700	215	70
H4110P301000	Polyester	100	1000	155	30
H4110P451000	Polyester	100	1000	175	45
H4110P701000	Polyester	100	1000	215	70

UNIVERSAL ABSORBENTS

ITEM: DRY GRAIN

DRY GRAIN is a granular environmentally friendly product based on natural components for the absorption of oils, greases, hydrocarbons and chemical products in the workplace. It is unalterable in contact with moisture and water, does not create slippery and dangerous mixtures. It is non-flammable and does not release the absorbed substances over time.
If stored in a dry place, DRY GRAIN has no expiry date. It can be disposed of as municipal waste as long as disposal is carried out in accordance with the regulations governing the disposal of the absorbed substance. DRY GRAIN is supplied in two grain sizes. The fine grained type is ideal for polluting films and is usually widely used in industry. The coarse grained type is more suitable if there is a large quantity of pollutants where the fine grained type is not effective. Absorbs approximately 130% of its own weight.
Complies with standard EU CEN TS 15366: 2010
Complies with standard Fr NF P 98-190



Tech. Code	Package	Grain size mm	Weight kg
H415110F	Bucket L 15	0,8 - 2,0	10
H415112F	Sack 17 L	0.8 - 2.0	12
H415108G	Sack 17 L	2.0 - 4.8	8

ABSORBENTS FOR OILS AND LIQUIDS

ITEM: H4155

Professional high-purity Sepiolite-based absorbent. The Sepiolite has internal channels called "zeolitic channels" that cross the entire structure of the material up to the outer surface forming pores of various sizes. The result is a highly porous mineral with low specific weight, ideal for absorbing all types of liquids (oil, petrol, water, etc.). It is an essential product for factories, workshops, roadbeds and work areas where spilled liquids can cause accidents, fermentation, danger and unwanted odours. It is very safe because it is a flame-retardant material. It also acts as a anti-slip agent in road maintenance in case of slippery bottoms due to the presence of spilled liquids.



Tech. Code	Grain	Package	Weight kg
H415515/30	Medium 15/30	Bag	20
H415530/60	Fine 30/60	Bag	20

BATTERY ACID NEUTRALIZERS

ITEM: SAFETY SAND

SAFETY SAND is a mixture of natural sand specific for acidic liquids, especially sulphuric acid. The product is environmentally friendly and does not contain irritants, toxic, corrosive or hazardous substances. **Does not require special storage containers.** The product has an expiry date of 7 years. When the product expires, it should be disposed of as non-hazardous special waste.



Absorbance ratio: 0.54 kg per 1 L of sulphuric acid
Neutralization ratio: 0.54 kg per 1 L of sulphuric acid

Test reports available upon request, in compliance with Ministry of Environment decree n. 20.

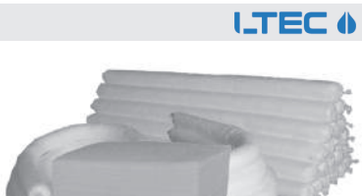
How to use
Pour the product gradually onto the spill. After a few minutes, the effervescent reaction finishes and an easily removable mortar-like material is formed. Collect and dispose of as non-hazardous special waste.

Tech. Code	Package	Weight kg
H421010	Bucket	10

ABSORBENTS FOR OILS AND HYDROCARBONS

ITEM: WHITE DRY

WHITE DRY is a floating and water repellent absorbent, effective for use with spilled pollutants both on the ground and on water as in the case of rain. It is suitable for use with all types of hydrocarbons and derivatives such as oils, solvents, petrol etc.
WHITE DRY is a hydrophobic absorbent that doesn't absorb water. It becomes rapidly impregnated and absorbs up to 20 times its own weight. The sheets are ideal for machinery leaks and the sleeves are excellent for absorbing and retaining spills.



Tech. Code	Description	Dimensions cm	Absorption L
H41315040F	Sheets per pack 200 pcs	50 x 40	145
H41318120	Sleeves per pack 24 pcs	8 x 120	168
H41318240	Sleeves per pack 12 pcs	8 x 240	168

UNIVERSAL ABSORBENT PADS

ITEM: GRAY DRY

GRAY DRY is a Universal product ideal for absorbing industrial liquids, oils, refrigerants, solvents etc. Absorbs instantly by capillary method up to 19 times its weight. Also suitable for water.



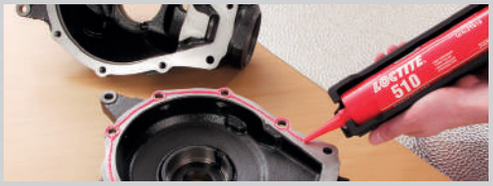
Tech. Code	Description	Dimensions cm	Absorption L
H41335040F	Sheets package 100 pcs	50 x 40	105
H41338120	Manicotti conf. 24 pz.	8 x 120	144
H41338240	Tubes package 12 pcs	8 x 240	144

WODEX mro
Perfect ergonomics


LTEC
" think clean "
LTEC
lubricants

ADHESIVES, CHEMICAL PRODUCTS AND WELDING

J



I_TEC adhesives LOCTITE — **2 - 16** Adhesives, hybrid, cyanoacrylate, anaerobic



I_TEC LOCTITE arexons — **17 - 23** Adhesives acrylic, epoxy. Sealants, silane, silicone



I_TEC arexons WD-40 — **24 - 25** Lubricants and greases



I_TEC OKS arexons — **25 - 29** Lubrificants



I_TEC LOCTITE arexons — **30 - 37** Protectives, detergents and accessories for greases



I_TEC LOCTITE — **38 - 40** Hygiene products, cleaning cloths, rags



SAF-FRO LINCOLN ELECTRIC — **41 - 42** Welding inverters, consumables



SAF-FRO LINCOLN ELECTRIC — **43 - 50** Antispatter products, welding accessories, welding protection



I_TEC SAF-FRO LINCOLN ELECTRIC — **51 - 60** Pressure reducers, safety device for welding

HYBRID ADHESIVES

They enclose the best characteristics of both instant and structural adhesives. They guarantee rapid polymerization even in the presence of gaps. They are suitable for gluing multiple substrates and guarantee excellent structural durability and atmospheric agents. They are safe to use.



HYBRID ADHESIVES

LOCTITE

PDF

ITEM: HY 4070

Hybrid adhesive Bi-component with extremely fast fixing time. It has ability to fill any gaps. Suitable for metal, plastic, rubber, wood, paper and leather. Formulation in gel does not drip. Good resistance to humidity, heat, UV rays and chemicals. Suitable for all maintenance and repair operations.



- Ready-to-use package with syringe, plunger and 4 mixing needles
- Fixing time: 1 minute
- Operating temperature: up to +120 °C
- Gel
- Light yellow
- Game filling: up to 5 mm

Tech. Code		J000511
Package		Double cartridge
Quantity	g	11

PDF

ITEM: HY 4090

Hybrid adhesives Bi-component in gel. Suitable for most substrates, it guarantees high adhesive strength. Excellent resistance to humidity, chemicals and temperature. Resistant to shock and vibration. Very limited halo effect. Perfect for all design requirements.



- Fixing time: 4 - 6 minutes
- Operating temperature: up to +150 °C
- Gel
- Light yellow
- **Little halo**

Tech. Code		J000750	J000750S
Package		Double cartridge with 5 nozzle mixer	Double cartridge without nozzle
Quantity	g	50	50

MIXING NOZZLES FOR HYBRID ADHESIVES

ITEM: J0009

Mixing nozzles for cyanoacrylate adhesives, to be used with the specified products.



Tech. Code		J0009A	J0009B
Mixing ratio		10:1	1:1
Package		Bag	Bag
Quantity	n°	10	10
Suitable for products		3090 - 4070 (10 ml)	4080 - 4090 (50 ml)

INSTANT ADHESIVES
PRODUCT INFO

Instant or cyanoacrylate adhesives dry very rapidly when applied in-between surfaces. Surface humidity of materials activates polymerization which develops from the materials surface towards the adhesive centre.
Cyanoacrylates are ideally suited for quick bonding application of small sized parts
This certain kind of adhesive does not feature excellent gap filling abilities therefore requiring nearly matching up surfaces.
Excellent adhesive results for most materials Superior after-gluing shear resistance and breaking resistance
Not suitable for glazed pottery, may be used on plastic and fibreglass.



To select the right instant adhesive the following aspects should be taken into account:

· **Instant adhesives for porous or acid surfaces bonding**
Such preparations are specifically formulated to obtain quick bonding and cure (polymerisation) on porous or acid substrates, as in the case of paper or galvanised metals.

· **Shock resistant instant adhesives**
Elastomer fed instant adhesive gives the product high shock resistance along with an increased high temperature resistance when bonding metals in moist environments.

· **High temperature instant adhesives**
Maintain their bond strength in operating temperatures as high as 120 °C, and up to 140 °C for short periods of time.

· **Flexible instant adhesives**
When bond components are faced with bending loads,flexible instant adhesives are formulated to reduce stress focus or favour a more homogeneous deformation.

· **Reduced halo and odor instant adhesive**
Instant adhesive with only minor halo are specifically developed for those applications where appearance as well as smell are considered important.

· **Bicomponent instant adhesives**
An innovative bicomponent technology ensure a a quick polymerisation regardless the gap. These products are specifically suitable for those assembly works that cannot perfectly match up or when an extra amount of adhesive is required

· **UV instant adhesives**
UV polymerized preparations are recommended when bonding transparent substrates with specific aesthetic requirements or to polymerizeany excess in products.

CYANOACRYLATE INSTANT ADHESIVES

LOCTITE

PDF NSF

ITEM: 401

Instant low viscosity adhesive, suitable on most substrates, including acidic surfaces.
High adhesive power on close contact parts.

- Fixing time: 3 - 10 sec
- Operating temperature: -40 / +120 °C
- Low viscosity
- Transparent
- **Universal**
- **NSF-P1 Certificate**



Tech. Code		J0010005	J0010020	J0010050	J0010500
Package		Blister	Bottle	Bottle	Bottle
Quantity	g	5	20	50	500

PDF

ITEM: 460

Instant adhesive for porous materials such as paper, wood, leather, cork and fabric.Practically odourless. Suitable for all those applications where the halo effect must be avoided.

- Fixing time: 3 - 20 sec.
- Operating temperature: -40 / +80 °C
- Low viscosity
- Colorless
- **Little halo and little smell**



Tech. Code		J0015020	J0015500
Package		Bottle	Bottle
Quantity	g	20	500

CYANOACRYLATE INSTANT ADHESIVES

ITEM: 406



Instant adhesive for rapid bonding of plastics and rubbers including elastomers and EPDM. For difficult bonding, e.g. with polyolefin plastics, use SF770 primer.

- Fixing time: 2 - 10 sec.
- Operating temperature: -40 / +120 °C
- Low viscosity
- Colorless
- **For "difficult" rubbers and plastics**

Tech. Code		J0020020	J0020050	J0020500
Package		Bottle	Bottle	Flacone
Quantity	g	20	50	500

ITEM: 424



Instant adhesive for rapid bonding of plastics and rubbers including elastomers and EPDM. More viscous than 406. For difficult bonding, e.g. with polyolefin plastics use SF770 primer.

- Fixing time: 2 - 10 sec
- Operating temperature: -40 / +80 °C
- Low - Medium viscosity
- Colorless
- **For "difficult" rubbers and plastics**

Tech. Code		J0025020	J0025500
Package		Bottle	Bottle
Quantity	g	20	500

INSTANT CYANOACRYLIC ADHESIVES

ITEM: 435



Instant adhesive with high resistance to impacts and peeling stress. For bonding plastics, rubbers, metals, porous materials and acidic surfaces.

- Fixation time: 10 - 20 sec
- Operating temperature: -40 / +100 °C
- Medium viscosity
- Colorless
- **Impact resistant**

Tech. Code		J0027020	J0027500
Packaging		Bottle	Bottle
Quantity	g	20	500

ITEM: 480



Universal adhesive for bonding metals with metals or with rubber or magnets. Withstands humid environments well. Ideal for all applications where impact resistance is required or where shock loads or peeling are present.

- Fixing time: 20 - 50 sec.
- Operating temperature: -40 / +100 °C
- Low - Medium viscosity
- Black
- **Impact resistant**

Tech. Code		J0050020	J0050500
Package		Bottle	Bottle
Quantity	g	20	500

CYANOACRYLATE INSTANT ADHESIVES

ITEM: 495



Instant ethyl-based adhesive. For general use. Good performance on many substrates.

- Fixing time: 5 - 20 sec
- Operating temperature: -40 / +120 °C
- Low viscosity
- Colorless
- **General use**

Tech. Code		J0070020	J0070050	J0070500
Package		Bottle	Bottle	Bottle
Quantity	g	20	50	500

METHYLIC CYANOACRYLATE INSTANT ADHESIVES

ITEM: 415



Rapid Methyl based adhesive suitable for metal to metal bonding. Excellent mechanical resistance.

- Fixing time: 20 - 40 sec.
- Operating temperature: -40 / +80 °C
- Colorless
- **High viscosity**

Tech. Code		J0030020	J0030050	J0030500
Package		Bottle	Bottle	Bottle
Quantity	g	20	50	500

METHYLIC CYANOACRYLATE INSTANT ADHESIVES

ITEM: 496



Rapid Methyl based adhesive suitable for metal to metal bonding. Excellent mechanical resistance.

- Fixing time: 10 - 30 sec
- Operating temperature: -40 / +80 °C
- Colorless
- **Low viscosity**

Tech. Code		J0060020	J0060050	J0060500
Package		Bottle	Bottle	Bottle
Quantity	g	20	50	500

UNIVERSAL CYANOACRYLATE INSTANT GEL ADHESIVES

ITEM: 454



Gel adhesive suitable for acidic surfaces such as chrome or galvanic and porous materials such as wood, paper, leather, cork, foams and metals. The gel formulation makes it suitable for vertical and drip-free applications.

- Fixing time: 5 - 10 sec
- Operating temperature: -40 / +120 °C
- Gel
- Colorless
- **Vertical gluing**
- **NSF-P1 Certificate**

Tech. Code		J0040020
Package		Tube
Quantity	g	20

BI-COMPONENT INSTANT CYANOACRYLATE ADHESIVES

ITEM: 3090



Instant, two-component, gel adhesive. Suitable for most surfaces. Suitable for filling up to 5 mm clearance. Without halos. Designed for general maintenance.

- Fixing time: 120 sec
- Operating temperature: -40 / +80 °C
- Gel
- Colorless
- **Filling games**

Tech. Code		J0118010
Package		Double cartridge
Quantity	g	11

ADHESIVE PRIMERS FOR NON-ADHESIVE PLASTIC

ITEM: SF 770



Specific for pre-treating difficult to bond plastic surfaces such as PP and PE polyolefins.

Tech. Code		J0091010
Packaging		Bottle
Quantity	g	10

ACTIVATORS FOR CYANOACRYLATE ADHESIVES

ITEM: J0093



Accelerates the curing process of cyanoacrylate adhesives. Can be applied before or after bonding.

Tech. Code		J0093150
Packaging		Spray can
Quantity	ml	150

THREADLOCKERS - PRODUCT INFO

Designed to prevent loosening of any threaded fastener from shock and vibration high fluidity liquid, extremely effective when filling gaps of threaded couplings is required.
Also featuring anti-corrosion and good rub resistance properties becoming one with the threads

To select the right threadlocker the following aspects should be taken into account:
• **Low-Strength Threadlockers:**
May be removed using standard hand tools, ideal for adjustment screws, calibration screws, meters, gauges, used on thread size uptoM80.
• **Medium-Strength Threadlockers:**
May be removed using standard hand tools,disassembling can be somewhat difficult, ideal for machine tools, presses,pumps and compressors, mounting bolts, gear boxes, used on thread size up to M80.
Threadlockers versions may vary according to viscosity and strength properties, employed for a wide range of applications .
• **High-Strength Threadlockers:**
Extremely hard to disassemble with standard handtools, removal may require a spot heating procedure. Ideal for permanent coupling of heavy duty equipment, stud bolts, motor and pump mounts, used onthread size up to M80.
• **Penetrating Grade Threadlockers:**
To secure preassembled fasteners already in place,such as mechanical devices or carburetor adjustment screws. Extremely hard to disassemble with standard hand tools, removal may require a spot heating procedure.
• **Stick Threadlockers (semi-solid):**
May be used with thread size up to M50. Ideal for vertical or upsidedown applications.



THREADLOCKERS WITH LOW MECHANICAL RESISTANCE

LOCTITE

ITEM: 222

Low resistance threadlocker. Recommended for devices made of light alloys or non-ferrous materials such as aluminium and brass.

- Resistance: Low
- Operating temperature: -55 / +150 °C
- Medium viscosity
- Max thread size: M36
- Colour: Violet
- NSF-P1 Certificate



Tech. Code		J0121250
Package		Bottle
Quantity	ml	250

THREADLOCKERS WITH MEDIUM MECHANICAL RESISTANCE

LOCTITE

ITEM: 243

Medium strength threadlocker. Excellent on any metal including passive materials such as stainless steel, aluminium and galvanised surfaces. Tolerates contamination by industrial oils. Ideal in the presence of parts subject to vibration. Permits disassembly with the aid of hand tools.

- Resistance: Medium
- Operating temperature: -55 / +180 °C
- Medium viscosity
- Max. thread size: M36
- Colour: Blue
- NSF-P1 certified



Tech. Code		J0122010	J0122050	J0122250
Package		Bottle	Bottle	Bottle
Quantity	ml	10	50	250

THREADLOCKERS WITH MEDIUM MECHANICAL RESISTANCE

ITEM: 248

Threadlocker in stick, suitable for vertical applications and on difficult to access components. Suitable on all metal couplings subject to disassembly.

- Resistance: Medium
- Operating temperature: -55 / +150 °C
- Semi solid
- Max thread size: M50
- Color: Red

Tech. Code		J0123019
Package		Stick
Quantity	g	19



ITEM: 2400

Medium strength threadlocker without risk and safety symbols or warnings. Excellent chemical resistance. To be used where periodic disassembly with hand tools is required. Approved for drinking water.

- Resistance: Medium
- Operating temperature: -55 / +150 °C
- Low viscosity
- Max thread size: M36
- Color: Blue

- Approval: WRAS

Tech. Code		J0124050	J0124250
Package		Bottle	Bottle
Quantity	ml	50	250

SAFETY DATA SHEET WITHOUT RISK PHRASES



THREADLOCKERS WITH HIGH MECHANICAL RESISTANCE

ITEM: 270

High strength threadlocker, suitable for all metal couplings including stainless steel, aluminium, galvanised surfaces and chrome-free coatings. Tolerates contamination from industrial oils. For use on parts that do not require frequent disassembly.

- Resistance: High
- Operating temperature: -55 / +180 °C
- Low viscosity
- Max thread size: M20
- Color: Green

- NSF-P1 Certificate

Tech. Code		J0125010	J0125050	J0125250
Package		Bottle	Bottle	Bottle
Quantity	ml	10	50	250



ITEM: 268

Threadlocker in stick, suitable for vertical applications and on difficult to access components. Suitable on all metal couplings not subject to frequent disassembly.

- Resistance: High
- Operating temperature: -55 / +150 °C
- Semi solid
- Max thread size: M50
- Color: Blue

Tech. Code		J0126019
Package		Stick
Quantity	g	19



THREADLOCKERS WITH HIGH MECHANICAL RESISTANCE

ITEM: 2700

High strength threadlocker without risk and safety symbols or warnings. Excellent chemical resistance. To be used where frequent disassembly is not required. Approved for drinking water.



- Resistance: High
- Operating temperature: -55 / +150 °C
- Low viscosity
- Max thread size: M20
- Color: Green
- Approval: WRAS

Tech. Code		J0127050	J0127250
Package		Bottle	Bottle
Quantity	ml	50	250

SAFETY DATA SHEET WITHOUT RISK PHRASES

ITEM: 2701

High strength threadlocker specifically for passivated, chrome-plated and galvanized surfaces. To be used where frequent disassembly is not required.



- Resistance: High
- Operating temperature: -55 / +150 °C
- Low viscosity
- Max thread size: M20
- Color: Green

Tech. Code		J0128250
Package		Bottle
Quantity	ml	250

PENETRATING THREADLOCKERS WITH MEDIUM/HIGH MECHANICAL RESISTANCE

ITEM: 290

Threadlocker with medium/high resistance and very low viscosity, penetrating, for already tightened screws.



- Resistance: Medium/High
- Operating temperature: -55 / +150 °C
- Very low viscosity, penetrating
- Max thread size: M6
- Color: Green

Tech. Code		J0129050
Package		Bottle
Quantity	ml	50

THREAD SEALANTS - PRODUCT INFO

Thread sealants are used to prevent gas and liquid leakage by filling the gap between threaded parts therefore providing immediate sealing Designed to be used both with high and low pressure
Ensuring much great seal properties when compared to traditional solvent based thread sealants, elastomer tape or hemp with sealing paste.

To select the right thread sealant the following aspects should be taken into account:
The type of materials requiring sealing are key in order to select the right thread sealant. According to whether it is a plastic thread application, or a metal one or again a combination of the two, choosing the right thread sealant is paramount.
• **Anaerobic Thread Sealant:**
Polymerizing under the absence of air and when theycome into contact with metals, as in pipe thread sealing applications.
Applications:
Any type of metal coupling.
• **Silicone Thread Sealants:**
Polymerizing at ambient temperature and reacting with environmental moist.
Applications:
Ideal for applications on threaded plastic or on a combination of materials such as plastic and metal.
• **Thread Sealing Yarn:**
A non-hardening coated multifilament yarn. For water,heating, oxygen pipes as well as for most industrial oils (Approved for drinking water (KTW), gas (DVGW) and oxygen (BAM).
Applications:
Recommended for cone plastic or metal threads. Allowsfor repositioning and pipe alignment .



THREADED FITTING SEALANTS

LOCTITE

PDF WRAS DVGW

ITEM: 542

Ideal for fine pitch threads used in pneumatics and hydraulics. Resistant to oil and coolants, only suitable for metal threads. Approved for gas and drinking water.

- **Resistance: Medium**
- Operating temperature: -55 / +150 °C
- Low viscosity
- Max. thread size: M26 - R3/4"
- Colour: Brown
- **Approval: DVGW, WRAS**



Tech. Code		J0131050	J0131250
Package		Bottle	Bottle
Quantity	ml	50	250

PDF

ITEM: 572

Suitable for low-precision metal threaded fittings where slow cure is required to allow repositioning of parts. High viscosity.



- **Resistance: Medium**
- Working temperature: -55 / +150 °C
- High viscosity
- Max. thread size: M80 - R3".
- Colour: Ivory white

Tech. Code		J0132050	J0132250
Package		Tube	Tube
Quantity	ml	50	250

THREADED FITTING SEALANTS

LOCTITE

ITEM: 577



Multi-purpose sealant for all coarse metal threads. Suitable for low temperatures and maintenance of outdoor installations. Approved for food and drinking water environment.

- **Resistance: Medium**
- Operating temperature: -55 / +150 °C
- High viscosity
- Max thread size: M80 - R3"
- Color: Yellow
- **Approval: DVGW, NSF, WRAS**

Tech. Code		J0133050	J0133250
Package		Tube	Tube
Quantity	ml	50	250

ITEM: 511



Low resistance product suitable for general use on threaded fittings. Thixotropic. Approved for use on gas fittings.

- **Resistance: Low**
- Working temperature: -55 / +150 °C
- High viscosity
- Max. thread size: M80 - R3".
- Colour: Ivory white
- **Approval: DVGW**

Tech. Code		J0134050
Package		Tube
Quantity	ml	50

ITEM: SI5331



Silicone gel-based sealant for threaded fittings in both plastic and metal, also combined, in contact with hot or cold water.

- Resistance: Low
- Operating temperature: -55 / +150 °C
- High viscosity
- Gel- Max thread size: M80 - R3"
- White colour
- Approval: DVGW, NSF

Tech. Code		J0140100
Packaging		Tube
Quantity	ml	100

THREADED FITTINGS SEALING CORD

LOCTITE

ITEM: 55



Nylon multi-fibre sealing wire for metal and plastic fittings and threaded pipes. Does not harden. Immediate high pressure sealing. Approved for use with gas, drinking water and food environment.

- **Resistance: Low**
- Operating temperature: -55 / +130 °C
- Semi solid
- Max thread size: R4"
- Color: White
- **Approval: DVGW, KTW, NSF**

Tech. Code		J0135160
Packaging		Roll
Quantity	m	160

RETAINING COMPOUND-CYLINDRICAL BONDING PRODUCT INFO

Designed for bonding roller bearings, sockets and cylindrical fitting parts on casing and shafts. Allows max transmission of load and uniformly distribution vibrations, preventing fretting corrosion.
Liquid is applied, filling gaps and allowing a complete contact between metal surface.
Some highly important aspects should be taken into account when choosing the product:

· **Parts clearance**
Traditionally, low-viscosity bonding or locking products (from 125 up to 2.000 mPa·s) are used for a clearance up to 0,15 mm. For a clearance greater than 0,15 mm higher-viscosity bonding products should be selected instead (>2.000 mPa·s).

• **Temperature resistance**
Most locking products feature a temperature resistance up to150 °C. For applications requiring higher temperature resistance, specific products have been formulated, with a temperature resistance up to 230 °C.

• **Bonding resistance**
For those applications requiring permanent bond, we recommend a high-resistance locking product. Should maintenance and disassembly of parts be required, a medium-strength product should be preferred, featuring a lowering shear resistance.

• **Polymerization speed**
Many applications require a quick-polymerization product so to maximize production time . On the other hand, some applications requirea slower polymerization so to permit readjustment of parts after assembly.



RETAINERS FOR CYLINDRICAL COUPLINGS

LOCTITE

ITEM: 603

Suitable for locking tight cylindrical couplings where a penetrating action is required. Low viscosity. High tensile strength. Oil impregnated applications.

- Resistance: High
- Operating temperature: -55 / +150 °C
- Low viscosity
- Color: Green
- **Max. diametrical clearance: 0.1 mm**
- **NSF-P1 Certificate**



Tech. Code		J0136050	J0136250
Package		Bottle	Bottle
Quantity	ml	50	250

ITEM: 638

High thermal resistance product suitable on all metals including corrosion resistant metals such as aluminium, steel and galvanized surfaces. Suitable for drive shafts, gears, pulleys and other cylindrical parts. Approved for gas, drinking water and food environment.

- Resistance: High
- Operating temperature: -55 / +180 °C
- Medium viscosity
- Color: Green
- **Max. diametrical clearance: 0.25 mm**
- **Approval: DVGW, WRAS, NSF**



Tech. Code		J0137050	J0137250
Package		Bottle	Bottle
Quantity	ml	50	250

ITEM: 641

Ideal for medium strength fixing of bearings, bushings, keys and grooved couplings in general. To be used for components requiring subsequent disassembly.

- Resistance: Medium
- Operating temperature: -55 / +150 °C
- Low viscosity
- Color: Yellow
- **Max. diametrical clearance: 0.1 mm**



Tech. Code		J0138050
Package		Bottle
Quantity	ml	50

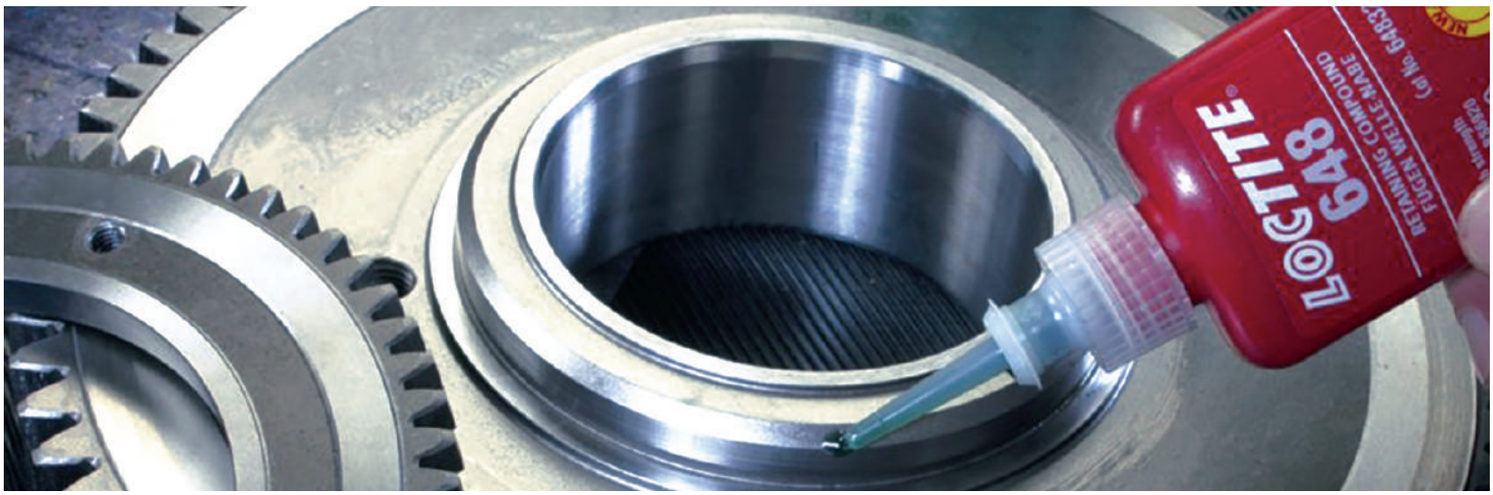
ITEM: 648

Product with high thermal resistance. It also glues in the presence of contaminants such as industrial oils. Excellent on all metals including corrosion resistant metals such as stainless steel and aluminium. Ideal for blocking parts with or without interference.
Approved for gas, drinking water and food environment.

- Resistance: High
- Operating temperature: -55 / +180 °C
- Low viscosity
- Color: Green
- **Diametric play max: 0.15 mm**
- **Approval: DVGW, WRAS, NSF**



Tech. Code		J0139050	J0139250
Package		Bottle	Bottle
Quantity	ml	50	250



FLANGE SEALANT - PRODUCT INFO

Flange sealants are employed to prevent leakage of fluids or gases. It's a liquid gasket designed to ensure perfect sealing of the components, for best adhesion between contact surfaces avoiding flange corrosion. An instant low-pressure sealing while polymerization takes up to 24 hour to complete



When choosing the right flange sealant we define what follows:
• Rigid Flange Sealant:
Remain liquid when exposed to air, yet polymerize to a tough solid when filling the space between the flange surfaces. Anaerobic sealants are ideal for rigid metal-metal joints with a very small to no clearance
• Silicone-based products for flexible flanges:
Silicone-based sealants comprise products with specific properties, such as, a superior fluid or high operating temperature resistance. Ideal for large-clearance applications and for joints where flange movement is required
• Liquid Gaskets:
May be used for any type of flange. Must be applied liquid on a flange surface before proceeding to parts coupling. Then the sealant agent distributes andpolymerizes in between flanges, filling gaps, scratches and uneven surfaces fora long-lasting sealing result.

FLANGE SEALANTS FOR HIGH TEMPERATURES

LOCTITE



ITEM: 510

Anaerobic paste adhesive for use on rigid flanges. High thermal and chemical resistance. Ideal for application on vertical surfaces. Approved for use in the food industry.

- Resistance: Medium
- Operating temperature: -55 / +200 °C
- Max clearance: 0.25 mm
- Color: Pink
- **Fixing time (steel): 25 min**
- **Fixing time (aluminium): 45 min**
- **NSF-P1 Certificate**

Tech. Code		J0141050	J0141250
Package		Tube	Tube
Quantity	ml	50	250

FLANGE SEALANT WITH LOW MECHANICAL STRENGTH

LOCTITE



ITEM: 573

Anaerobic paste adhesive for use on rigid and machined flanges. Low resistance, specific where slow polymerization is required.

- Resistance: Low
- Operating temperature: -55 / +150 °C
- Max clearance: 0.1 mm
- Color: Green
- **Fixing time (steel): 9 hours**
- **Fixing time (aluminium): 12 hours**

Tech. Code		J0142050	J0142250
Package		Tube	Tube
Quantity	ml	50	250

FLANGE SEALANT WITH MEDIUM MECHANICAL STRENGTH

ITEM: 518



Anaerobic gel adhesive for sealing rigid cast iron and aluminium flanges. Thixotropic, semi-flexible.Approved for use in contact with food.

- Strength: Medium
- Service temperature range: -55 / +150 °C
- Max clearance: 0.3 mm
- Colour: Red
- **Fixing time (steel): 25 min**
- **Fixing time (aluminium): 20 min**
- **NSF-P1 Certificate**

Tech. Code		J0144050	J0144300
Package		Syringe	Cartridge
Quantity	ml	50	300

MULTIPURPOSE FLANGE SEALANTS

ITEM: 574



Anaerobic paste adhesive, ideal for use on rigid metal parts such as iron moulds and pump housings.

- Resistance: Medium
- Operating temperature: -55 / +150 °C
- Max clearance: 0.25 mm
- Color: Orange
- **Fixing time (steel): 15 min**
- **Fixing time (aluminium): 45 min**

Tech. Code		J0143050
Package		Bottle
Quantity	ml	50

ANAEROBIC ADHESIVE ACTIVATOR

ITEM: SF 7649



Acetone-based activator specific for all anaerobic adhesives.
Increases the polymerization speed, particularly at temperatures lower than 15°C.
Very useful in case of large bond gaps.

Tech. Code		J0145500
Package		Canister
Quantity	ml	500

PERISTALTIC HAND PUMPS

ITEM: 98414 - 97001

Manual dispensers. They are easily screwed onto all bottles of Loctite anaerobic, threadlocker, thread sealer and blockers of 50 and 250 ml. Designed to dose drops from 0.01 to 0.04 ml of product from every angle without loss or waste. Suitable for low and medium viscosity products.

Tech. Code		J0146001	J0146002
For bottles	ml	50	250



MAUAL DISPENSER PRO PUMP

ITEM: PRO PUMP

Manual dispenser for 50 and 250ml bottles of thread locker. Adjustable nozzel in 3 positions. Guarantees precision and cleanliness of the application. Speeds up adhesive positioning operations and reduces product waste.

Tech. Code		J0149001
For bottles	ml	50 - 250



DOSING NEEDLES

ITEM: J0147

Loctite dispensing needles for correct and precise product dispensing. They can be attached directly to flacons in various sizes of 20, 50, 250, 500 ml.
PPF - Flexible polypropylene dispensing tips
PPC - Polypropylene conical dispensing tips
SSS - Stainless steel tips

Tech. Code		J0147025F	J0147061F	J0147084F	J0147137F
Tip type		PPF	PPF	PPF	PPF
Ø Nozzel	mm	0,25	0,61	0,84	1,37
Colour		Red	Rosa	Verde	Amber

Package consisiting of 50 pieces

Tech. Code		J0147041P	J0147061P	J0147084P	J0147119P
Tip type		PPC	PPC	PPC	PPC
Ø Nozzel	mm	0,41	0,61	0,84	1,19
Colour		Blue	Rosa	Verde	Grigio

Package consisiting of 50 pieces

Tech. Code		J0147025S	J0147061S	J0147084S	J0147137S
Tip type		SSS	SSS	SSS	SSS
Ø Nozzel	mm	0,25	0,61	0,84	1,37
Colour		Red	Rosa	Verde	Amber

Package consisiting of 50 pieces



DOSING NEEDLES KIT

ITEM: J0148

Dosing needles kit . Contains 2 needles of each type of the J0147 range.

Tech. Code	J0148KIT
Packaging	Bag



STRUCTURAL ADHESIVES - PRODUCT INFO

A structural bond joins strongly and permanently two similar or dissimilar materials by means of an adhesive and acts as a bridge between surfaces.

When designing bonded joints the following factors should be considered:
· surfaces to be joined should have the greater extent possible so to transfer sufficient forces.
· Stresses should be uniformly distributed.

Type of joints fit for structural bond: wherever parts are subject to shear stress, traction and compression.
Type of joints which are not fit for structural bond: end to end connectors, breaking and peel loads.

Rigid bonding (curing)
Hard rigid curing adhesives are commonly employed to transmit high loads therefore replacing commonly used mechanical fastening systems Two parts which bond by such kind of adhesives may be defined as structurally bond. It's mechanical properties such as high resistance and modulus jointly with superior adhesive performance have proved to be effective in highly demanding sectors such as aerospace and automotive industry.

Hard, rigid bonding offers users considerable benefits:
· An easier building process, better rigidity and higher resistance, an improved transmission of forces.
· It prevents stress failures while ensuring uniformly distributed tension stresses, preserving structural integrity.
(no weakening of the material due to the heat of welding or to drilling)
· Reduced production costs as no traditional fasteningmethods are used (screws, rivets or welding).
· Reduces costs of materials and related weight, allows to use thinner materials and does affect the product performance.
· It allows also to join a combination of materials such as metal and plastic, metal and glass, metal and wood, etc..

Among differing technologies we herewith define:
· Epoxy products
· Acrylics
· Polyurethanes
· Silicones
· Silane Modified Polymers



MULTIBOND ACRYLATE ADHESIVES

LOCTITE



ITEM: AA 330

Structural adhesive suitable for most materials (except rubber), to be used with activator SF 7388. Excellent impact resistance, rapid polymerization.

- Working temperature: up to 100 °C
- Fixing time: 3 min
- Color: Light Yellow
- **For all materials (except rubber)**
- **NSF-P1 Certificate**

Tech. Code		J1001315
Package		Tube
Quantity	ml	315

LIQUID ACTIVATORS FOR MULTIBOND ADHESIVES

LOCTITE

ITEM: SF 7386 / SF 7388

Heptane based activator for acrylic adhesives. Fixing time and polymerization speed depend on the adhesive, glued material and surface cleaning.

Tech. Code		J1003150	J1003500
Package		Canister	Bottle
Quantity	ml	150	500



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MULTIBOND ADHESIVE + ACTIVATOR KIT

ITEM: AA 330 / SF 7388

Kit composed of multiband acrylate adhesive AA 330 + activator SF 7388.



Tech. Code		J10045040
Package		Tube + Spray
Quantity	ml	50 + 40

BI-COMPONENT TOUGH EPOXY ADHESIVES WITH HIGH VISCOSITY

ITEM: EA 3425

Two-component structural epoxy adhesive with slow polymerization. Excellent for bonding metals and large surfaces. Thixotropic.



- Working temperature: -55 / +120 °C.
- Fixing time: 240 min
- Peel resistance: 1.5 - 2.5 N/mm
- Colour: Yellow/White
- **For metals and large surfaces**

Tech. Code		J1010050
Package		Double cartridge
Quantity	ml	50

BI-COMPONENT EPOXY QUICK ADHESIVES

ITEM: EA 3430

Fast structural two-component epoxy adhesive. Impact and water resistant. Suitable for applications requiring a transparent joining line. Ideal for glass, decorative panels and general DIY applications.



- Working temperature: -55 / +100 °C.
- Fixing time: 15 min
- Peel resistance: 3 N/mm
- Colour: Ultra transparent
- **For glass**

Tech. Code		J1011024
Package		Double syringe
Quantity	ml	24

BI-COMPONENT EPOXY QUICK ADHESIVES CHARGED WITH STEEL

ITEM: EA 3450

Two-component structural epoxy adhesive with rapid polymerization. The play filling capacity makes it ideal for repairing damaged metal parts.



- Operating temperature: -55 / +100 °C
- Fixing time: 15 min
- Peeling resistance: -
- Colour: Grey
- **Repairs of metal parts**

Tech. Code		J1012025
Package		Double syringe
Quantity	ml	25

APPLICATOR GUNS DUAL CARTRIDGE

ITEM: 96001

For the continuous and automatic mixing of two-component structural adhesives. Suitable for epoxies, polyurethanes, acrylics, cyanoacrylates and modified silane polymers.



Tech. Code		J1013050
Cartridge size	ml	50
Mixing ratio		1:1 , 2:1

QUICK EPOXY COMPOUNDS

LOCTITE

ITEM: EA 3463 METAL MAGIC STEEL



Two-component epoxy in kneadable stick format loaded with steel. Adheres on wet surfaces and polyerizes in water. Resistant to chemicals. Can be drilled, sanded and painted.

- Operating temperature: -30 / +120 °C.
- Fixing time: 10 min
- **For leaks in pipes and tanks. Repairing small cracks**

Tech. Code		J1014114
Package		Stick
Quantity	g	114

HIGH VISCOSITY BLUE TAMPER EVIDENT PASTE

LOCTITE

ITEM: SF 7414



LOCTITE® SF 7414 is a blue, high-viscosity, solvent-based, fast-drying paste. The product has been developed for use on bolts, parts and assemblies after they have been tightened to the correct torque or correctly positioned. It has excellent adhesion to all metals.

Tech. Code		J1050050
Package		Tubetto
Quantity	ml	50

SILANE MODIFIED POLYMER SEALANTS

TEROSON

ITEM: MS 930 BIANCO



Multipurpose.
Single-component modified silane adhesive specifically for flexible bonding and sealing. Medium-modulus, pasty consistency, thixotropic, shock-absorbent. Excellent UV resistance.
White colour. MPA certified for fire resistance.

Tech. Code		J1107300
Package		Cartridge
Quantity	ml	310

MODIFIED SILANE POLYMER SEALANTS

Sigill

ITEM: UNIVERSAL 625



High permanent flexibility.
State-of-the-art hybrid-based sealant, without casting. High bonding performance, permanent elasticity, resistance to ageing and weathering. Solvent-free and isocyanate-free, paintable, versatile in the building trade, for floor or vertical expansion joints, exterior walls and cladding. Suitable for sealing roofs, metal gutters and balconies. Also suitable for metal, sheet metal and tinwork in general.
Certified EC1+ for very low VOC (volatile organic compounds) emissions.
ISEGA certified for food environments.

Tech. Code		J1112625B
Colour		White
Packaging		Cartridge
Quantity	ml	290

ITEM: FIX 655



Very strong adhesion on metals.
State-of-the-art single-component adhesive sealant with very high performance on a wide range of materials. Adheres even to wet surfaces. Free of isocyanates, solvents, phthalates and halogen derivatives. Fast curing with extraordinary adhesion on iron, steel, zinc, copper, galvanised or pre-painted sheet metal, chipboard, plywood, MDF, building materials and most rigid plastics such as PVC, PC, PS, ABS.
ISEGA certified for food environments.

Tech. Code		J1115655B	J1115655G	J1115655N
Colour		White	Grey	Black
Packaging		Cartridge	Cartridge	Cartridge
Quantity	ml	290	290	290

MODIFIED SILANE POLYMER SEALANTS

Sigill

ITEM: CRYSTAL 600



Crystalline clearcoat.
Fully crystalline single-component adhesive and sealant. High adhesion performance, permanently elastic, excellent resistance to ageing and weathering. Free of solvents and isocyanates.
Adheres even when wet. Versatile for various applications in the mechanical engineering or furniture industry and in general where a crystal-clear seal is required.
EC1+ certified for very low VOC (volatile organic compounds) emissions.
ISEGA certified for food environments.

Tech. Code		J1118600C
Colour		Transparent
Packaging		Cartridge
Quantity	ml	290

J

POLYURETHANE SEALANTS

ITEM: POLIFLEX 550



Strong adhesion between different materials.
Single-component, multi-application elastic polyurethane sealant and adhesive without pouring. High modulus. Remarkable resistance to ageing and weathering. Perfect for bonding between different materials where a flexible joint or a powerful elastic adhesive is required. Suitable for vertical and horizontal applications on all sheet metal, replaces rivets and mechanical fasteners.

Tech. Code		J1124550B
Colour		White
Packaging		Cartridge
Quantity	ml	310

ACETIC SILICONE SEALANTS

PDF

ITEM: SILICON 5



Multipurpose.
High mould resistance, ideal for sealing non-porous materials (glass, ceramics), sanitary ware, sinks and most plastics (except PE, PP, PTFE).

Tech. Code		J1222280T	J1222280B
Colour		Transparent	White
Package		Cartridge	Cartridge
Quantity	ml	280	280

PDF

ITEM: SL 503



Glass
Ideal for sealing glass, greenhouses, skylights, solar panels and window frames. Only for compact, non-porous materials. Suitable for interior and exterior use.

Tech. Code		J1225300T
Colour		Transparent
Package		Cartridge
Quantity	ml	300

ACETIC SILICONE SEALANTS

ITEM: SILCOFLEX 589



Professional construction
Solvent-free pure acetic silicone. Adheres to most plastics and coatings. Elastic in a temperature range of -40°C to +160°C, resistant to mould and bacteria. Perfect for glass, glazing and window frames, its excellent chemical resistance also makes it ideal for all sanitary environments, spas and swimming pools.

Tech. Code		J1227589T	J1227589B
Colour		Transparent	White
Packaging		Cartridge	Cartridge
Quantity	ml	300	300

NEUTRAL SILICONE SEALANTS

PDF

ITEM: SL 620 FUSION



Oxime-free
High resistance to mould, weathering, acid and UV radiation, ideal for sealing in construction (window and door frames, tinwork, air conditioning and ventilation systems).
New oxime-free Fusion formulation.

Tech. Code		J1232300T	J1232300B	J1232300G	J1232300N
Colour		Transparent	White	Grey	Black
Package		Cartridge	Cartridge	Cartridge	Cartridge
Quantity	ml	300	300	300	300

NEUTRAL SILICONE SEALANTS

ITEM: SILCOFLEX 599



Construction and industrial applications
High-performance, solvent-free, neutral silicone sealant. Suitable for working on sheet metal, metal, support structures or as a sealant in the aircraft and shipbuilding industries. Suitable for sealing expansion and connection joints in construction, adheres to most alkaline substrates such as concrete, cement and mortar without the need for primer. High flexibility between -40°C and +150°C.

Tech. Code		J1236599T	J1236599G	J1236599B	J1236599N
Colour		Transparent	Grey	White	Black
Packaging		Cartridge	Cartridge	Cartridge	Cartridge
Quantity	ml	300	300	300	300

ACETIC SILICONE SEALANTS HEAT RESISTANT

ITEM: SL 509



High temperatures
Ideal for sealing metal parts exposed to high temperatures (250° continuous), replacing seals on pumps, motors and machine tools, and for bonding profiles to oven glass.

Tech. Code		J1237300R
Colour		Red
Package		Cartridge
Quantity	ml	300

HIGH TEMPERATURE ACETIC SILICONE SEALANTS

ITEM: SILCOFLEX 583 - 587



High temperatures
Acetically cross-linked silicone sealant. Great adhesion and high temperature resistance up to 300°C. Retains elastic properties at constant temperatures up to 250°C with resistance to short peaks up to 300°C.
Suitable for all industrial applications where temperature resistance is an important issue.

Tech. Code		J1239300N	J1239300R
Colour		Black	Red
Packaging		Cartridge	Cartridge
Quantity	ml	300	300

POLYURETHANE FOAM

ITEM: PF 100



Universal.
Pattex PF 100 is a universal one-component polyurethane foam with fire resistance class B3 for manual applications.
It is particularly suitable for the installation of doors and windows, for filling cavities between frame and subframe or between frame and wall.
After hardening, the foam can be cut, grouted, drilled and painted. Resistant to chemicals, mould and micro-organisms.

Adheres to all building materials, wood, metals and plastics (except PE, PP, PTFE)

Tech. Code		J12430750
Application		Manual
Quantity	ml	750

POLYURETHANE FOAM

ITEM: POLIPUR 705



High expansion.
One-component polyurethane foam for insulation and assembly with dimensional stability. High expansion, thermal and acoustic insulation. Ideal for sealing, plugging, filling, fixing and insulating. Fire resistance class B3. Once cured it can be cut, sanded, painted and plastered. Adheres perfectly to concrete, metal, glass, and plastics except polyethylene, Teflon and silicone.

Tech. Code		J1244705
Colour		Orange
Packaging		Cylinder
Quantity	ml	750

SILICONE CARTRIDGE GUNS

ITEM: WX8900



Premium quality metal hand guns with double reinforcement and end stop for standard silicone and chemical anchor cartridges from 150 to 310 ml.

Tech. Code		J131100
Cartridge holder	mm	240
Max. strength	Kn	3,6
Transmission ratio		26:1

SILICONE CARTRIDGE GUNS

ITEM: J1312

Suitable for standard silicone cartridges.



Tech. Code	J1312001
Type	Economic

SILICONE CARTRIDGE PNEUMATIC GUNS

ITEM: J1314

Aluminum body, anodized tube, quick exhaust valve to allow instantaneous interruption of product delivery.



Tech. Code	J1314001
Coupling	Milled nut 1/4"

HOT GLUE GUNS

ITEM: PKP18E

Suitable for hot glue sticks max. length mm 200, mechanical dosage feed, extrusion capacity 20 g/min.

INCLUDED:
1 hot glue stick - 1 extra-long nozzle



Tech. Code		J1316060
Absorbed power	W	200

ITEM: GKP200CE

Suitable for hot glue sticks max. length mm 200, mechanical dosage feed, with electronically controlled temperature, extrusion capacity 30 g/min, removable cable, supplied with plastic carrying case.

INCLUDED:
1 universal nozzle, 1 extra-long nozzle,
1 wide-slot nozzle, 8 hot glue sticks.



Tech. Code		J1318500
Absorbed power	W	500

TRANSPARENT HOT MELT GLUE STICKS

PDF

ITEM: J1320

Hot melt adhesives are solvent-free hot melt adhesives. When heated by special applicators they set and solidify in seconds.



Tech. Code	J132001	J132005
Stick	12 x 200	12 x 200
Package	1 Kg bag	5 Kg box
Pieces	50	250

MULTI-PURPOSE SPRAY ADHESIVE

PDF

ITEM: SPRAYGLUE

Spray glue is a non-reusable multi-purpose spray adhesive.
Ideal for many types of gluing, It can withstand up to 200°C
Suitable for bonding paper, cardboard, wood, fabrics, leather, plastic, glass, fibers, rock wool and absorbent materials.



Tech. Code		J1330400
Package		Spary can
Quantity	ml	400

GASKET MASTICS

PDF

ITEM: 0019

Suitable for positioning and fixing all types of traditional gaskets, resistant to coolant, oil, petrol and pressure.



Tech. Code		J1340200
Package		Jar
Quantity	ml	200

LIQUID GASKET

ITEM: 0012



Liquid natural rubber gaskets for mechanical couplings. Resistant to water, mineral oils, fuel, diluted acids and greases. It resists temperatures from -20°C to +110°C.

Tech. Code		J1345065
Package		Tube
Quantity	ml	65

RED SILICONE AUTO-LEVELING GASKETING

ITEM: 596



Single-component, fluid silicone adhesive sealant, cures at room temperature to form a high temperature resistant rubber seal (-55°C + 250°C).
Suitable for flexible assemblies and seals with up to 8 mm clearance.

Tech. Code		J1347080
Package		Tube
Quantity	ml	80

RED SILICONE AUTO-LEVELING GASKETING

ITEM: 0096



RTV silicone with acetic cross-linking, self-levelling. Suitable for forming gaskets for mechanical couplings operating under difficult conditions. Resistant to temperatures from -70°C to +250°C with peaks of 300°C. Vulcanises at room temperature, excellent resistance to water, moisture and oils, good dielectric properties. Does not expand or shrink. Shore-A 50 hardness. Colour Red.

Tech. Code		J1350060
Packaging		Tube
Quantity	g	60

ITEM: RS01



RTV silicone with acetic cross-linking, self-levelling. Suitable for forming gaskets for mechanical couplings operating under difficult conditions. Resistant to temperatures from -70°C to +250°C with peaks of 300°C. Vulcanises at room temperature, excellent resistance to water, moisture and oils, good dielectric properties. Does not expand or shrink. Shore-A 50 hardness. Colour Red.

Tech. Code		J1351300R
Package		Cartridge
Quantity	ml	310

BLACK SILICONE GASKETING

ITEM: 0094



RTV silicone with acetic cross-linking, thixotropic. Suitable for all automotive uses and wherever a sealing gasket is necessary. It resists temperatures from -70°C to +250°C with peaks of 300°C. Fast polymerization. Shore-A hardness 24. Colour Black.

Tech. Code		J1353060
Package		Tube
Quantity	g	60

QUICK PENETRATING RELEASE AGENT WITH LUBRICATING ACTION

ITEM: BOLT SBLOC

BOLT SBLOC is a multi-purpose lubricant, unblocker and cleaner with high action capabilities. It contains highly refined solvents that guarantee high product performance.
Thanks to its formulation and high penetration power it has the ability to unblock and at the same time lubricate oxidised and corroded mechanical parts. High water-repellent and protective capacity against atmospheric agents preventing corrosion. Triple position spray nozzle, also works upside down. Free of solvents and chlorinated compounds. BOLT SBLOC is entirely manufactured in Italy to the highest standards. Recommended for lubricating, cleaning and protecting mechanical parts of machines.



Tech. Code		J2120400
Package		Spray can
Quantity	ml	400

MULTI-PURPOSE LUBRICANTS

ITEM: SVITOL

New double-action spray nozzle for targeted or wide-range vaporization. Suitable for releasing hard oxidized pieces, protects and prevents rust formation.



Tech. Code		J2140200	J2140500
Package		Spray can	Spray can
Quantity	ml	200	500

MULTI-PURPOSE LUBRICANTS

ITEM: LB 8201

Multi-purpose lubricants Five-way mineral-based release agent. unlocks, lubricates, cleans, removes moisture and prevents corrosion. Ideal for lubricating metal. Resistant up to 120°C.



Tech. Code		J2150400
Package		Spray can
Quantity	ml	400

MULTI-PURPOSE LUBRICANTS

ITEM: WD 40

In spray format, new double-action nozzle for targeted or wide-range vaporization. Suitable for releasing, clean, lubricating and protecting parts subject to oxidation. It is waterproof, anti-corrosion, usable on painted surfaces.



Tech. Code		J2160500	J21605000	J216025000
Package		Spray can	Can	Can
Quantity	L	0.5	5	25

VASELINE OIL SPRAY

ITEM: 4230

Odourless and colourless lubricant based on pharmaceutical grade Vaseline oil. Does not stain. Ideal for lubricating precision instruments, textile and food industry machinery, hinges and locks.



Tech. Code		J2310400
Spary can		Spray can
Quantity	ml	400

PROTECTOR WITH HIGH ZINC CONTENT

ITEM: ULTRA ZINC II

The ULTRA ZINC II high zinc protective product is a product designed and formulated to cover all ferrous surfaces and has the task of improving the protection of surfaces. Contains 99% purity zinc with the task of maximizing surface protection. The surface of the product after the application of ULTRA ZINCE II takes on the apperance of a bright zinc coating.



Tech. Code		J2450400
Package		Spray can
Quantity	ml	400

STAINLESS STEEL COATING

ITEM: INOX SHIELD

INOX SHIELD is a stainless steel-based coating in a spray can suitable for coating ferrous metals in general.
INOX SHIELD coating has the ability to restore the stainless patina compromised by welding operations.
Thanks to its innovative formulation INOX SHIELD withstands high temperatures of up to 600 °C.



Tech. Code		J2460400
Package		Spray can
Quantity	ml	400

POLISH FOR STAINLESS STEEL

ITEM: LUCIDANTE SHINOX

LUCIDANTE SHINOX is a polishing product for parts and surfaces in steel and is also effective on chrome-plating. Thanks to its innovative formulation, the SHINOX polish is effective as a polishing and brightening product on all stainless steel and chrome surfaces, guaranteeing exceptional cleanliness and shine.



Tech. Code		J2465400
Package		Spray can
Quantity	ml	400

CONCENTRATED SAFETY CLEANER

ITEM: DEGREASE

DEGREASE concentrated detergent is a high efficiency product formulated to remove stubborn dirt from surfaces.
DEGREASE quickly and efficiently removes grease, oils and greases from metal and plastic.
The product is specific for manual washing of mechanical parts.
Average concentration of use: 5%.



Tech. Code		J3530T1	J3530T3
Package		Can	Can
Quantity	kg	5	20

CLEANER - DEGREASER

LOCTITE

ITEM: SF 7840

Multipurpose biodegradable cleaner. Suitable for removing grease, oil and dirt in general. Must be diluted in water. Solvent-free. Non-flammable.

Tech. Code		J3515FL	J3515T
Package		Bottle with sprayer	Can
Quantity	L	0.75	5



ITEM: SF 7063

Multipurpose cleaner. Suitable for preparing components for the application of an adhesive or a sealant, can be used with metal, glass, rubber. Leaves no residue.

Tech. Code		J3680400	J3680010
Package		Spray can	Can
Quantity	L	0.4	10



CLEANER - DEGREASER

arexons

ITEM: FULCRON

Cleaner suitable for removing any type of dirt, non-abrasive, non-toxic, free from ammonia, phosphates and dyes, it can be used pure or diluted in relation to the dirt, it is not flammable.

Tech. Code		J3520FL	J3520T	J3520F
Package		Bottle with sprayer	Can	Drum
Quantity	L	0.5	5	30



UNIVERSAL CLEANER - DEGREASER

OKS

ITEM: 2611

OKS 2611 is a universal cleaner with high cleaning power.
It evaporates quickly without leaving any residue and protects the material from accidental contacts with corrosive agents, thanks to VCI additives. It has the ability to degrease all surfaces, even those with a high friction value such as brakes and clutches, surfaces that are to be painted or adhered. Removes oil and grease residues, brake fluids, silicones, bonding and sealing materials. It prevents condensation on the surface. It is also free of chlorinated hydrocarbons and petrol.

Tech. Code		J3510500
Package		Spray can
Quantity	ml	500



GLASS CLEANING

LTEC

ITEM: VETRI PLUS

VETRI PLUS, thanks to its innovative formulation, allows excellent cleaning of glass and guarantees an effective anti-static action to eliminate and avoid the accumulation of dust on the surface. Leaves no haloes.
Ideal for cleaning glass, mirrors, lacquered surfaces, steel surfaces of machines or measuring instruments, chrome surfaces and tiles.
Use the product by spraying it directly onto the surface to be cleaned and wipe with a clean cloth. No rinsing required.

Tech. Code		J35251
Package		Bottle with sprayer
Quantity	L	1



CLEANERS FOR ELECTRIC AND ELECTRONIC DEVICES

ITEM: ELECLEAN

Cleaner for electrical cabinets formulated to dissolve grease and oil deposits from electrical and electronic equipment.
Very high penetration capacity to dissolve dirt even in the hardest to reach places. Very fast drying. Recommended for cleaning electrical contacts, printed circuit boards, mechanical and electrical parts of printers and photocopiers.

Tech. Code		J3620400
Package		Spray can
Quantity	ml	400



ANTISTATIC CLEANER

ITEM: PULISCREEN

PULISCREEN is a product for cleaning and maintenance of monitors, keyboards and office equipment in general.
It cleans and polishes without haloes, leaving an invisible protective film on surfaces. Removes and prevents the build-up of static electricity.
Suitable for all types of surfaces, PVC, rubber-plastic, wood, steel, glass, ceramics.
Areas of use: LCD and plasma screens, computers, crystals, mirrors, glass, wood and metal furniture, motorbikes, cars, boats.

Tech. Code		J3640400
Package		Spray can
Quantity	ml	400



BRAKE AND METAL CLEANER

NEW

ITEM: 8164

Product for cleaning disc brakes, drums, calipers and brake blocks. Quickly dissolves and removes grease, oil and dirt from brake discs and metals in general without leaving residue. Prevents the dispersion of harmful dust into the air. Does not corrode metals and does not corrode rubber parts. Suitable for cleaning all metal objects and surfaces.

Tech. Code		J3645500
Packaging		Spray cans
Quantity	ml	500



COMPRESSED AIR SPRAY

ITEM: AIR JET

AIR JET is a CFC-free air blower suitable for daily maintenance of optical and electronic equipment. It is ideal for cleaning electronic boards and integrated circuits.

Tech. Code		J3650400
Package		Spray can
Quantity	ml	400



GAS LEAK DETECTORS

ITEM: LEAK VIEWER

Specific to quickly detect gas, nitrogen, oxygen, carbon dioxide, compressed air leakage.

Tech. Code		J3670400
Package		Spray can
Quantity	ml	400



NEUTRAL DETERGENT

ITEM: FULNET



FULNET is a pH-neutral liquid detergent that can be used either diluted or pure. Low foaming, it requires little rinsing.
Also suitable for removing whole and emulsifiable oils from any surface.
After application of FULNET detergent, wait a few seconds for the product to fully exert its disintegrating action on dirt.
APPLICATIONS
Hard surfaces in general, plastic and painted surfaces, synthetic surfaces, porcelain, marble, aluminium, linoleum. Suitable for cleaning machine tools, textiles and printing machines and industrial vehicle interiors.

Tech. Code		J35181
Package		Bottle with sprayer
Quantity	L	1

UNIVERSAL DETERGENT

ITEM: BLU WASHER



BLU WASHER detergent is a product composed of a balanced mixture of alkalis, wetting agents and detergents. BLUE WASHER is formulated to be a fast acting detergent safeguarding the material from surface corrosion of both natural and synthetic matrices.Thanks to the balancedformulation BLUE WASHER cleans and provides a slight anti- rust protection on the degreased metal surfaces.

The product should be used diluted in water at 4% - 8%.

Tech. Code		J3545T2
Package		Can
Weight	kg	20

DETERGENT FOR HOT CLEANING SYSTEM

ITEM: MC CLEAN



MC CLEAN is a hot detergent for washing machines specially formulated to cleanse all metals and yellow alloys by spraying, flotation, immersion and ultrasound, obviating the drawbacks of strongly alkaline formulations. It can be used in the mechanical industry, engineering, for the degreasing of mechanical parts, small parts, engine parts, to easily revove neat oils and emulsions, sludge, scraps. The product has an effective detergent and antioxidant action; the concentration of use can vary between 1% and 3 % for steel parts, with an operating temperature between 40°C and 60°C. Contact times are based on the dirt toughness. The maximum detergent power is obtained starting from 2%.

Tech. Code		J3552T2
Package		Can
Quantity	kg	20

DETERGENTS FOR HYDRO CLEANERS

ITEM: MRN BLU



MRN BLU is a universal degreaser for use in high-pressure washers.
Effectively removes oils, greases, mineral or synthetic oils residues from surfaces, the low alkaline also makes it suitable for washing the bodywork of operating machines. The standard dilution of the product ranges from 2 to 4%

Tech. Code		J3560T
Package		Can
Weight	kg	25

CONCENTRATED DETERGENT FOR FLOOR CLEANING MACHINES

ITEM: FAST CLEAN



FAST CLEAN is a liquid detergent for washing floors with washer-dryer machines, It is not foaming. Suitable for cleaning floors in cement, clinker, natural and artifical stones. (not wood). FAST CLEAN is suitable for cleaning very dirty rooms, workshops, warehouses, industrial floors and sports facilities. It has a strong degreasing power and eliminates any kind of dirt, Dilute to 2.5 - 4 % with water, depending of the degree of dirt on the surface to be treated. Pour the product directly into the machine tank. Warnings: before applying it, check the colour of the floor.

Tech. Code		J3565T
Package		Can
Weight	kg	25

UNIVERSAL SAFETY SOLVENT

ITEM: UNISOLV

The odorless, low-volatility solvent UNISOLV is a product formulated to maximize the cleaning and dissolving characteristics of dirt. Suitable for removing grease, oils and protective agents from mechanical parts and ideal for preparing surfaces to be painted and glued. The product has been designed to replace more dangerous solvents in mechanical workshops, maintaining very high cleaning power.



Tech. Code		J3540T1	J3540T2
Package		Can	Can
Quantity	L	5	20

HELP - LABEL REMOVER

ITEM: 4235

Facilitates the quick detachment of paper labels and glue residues of labels of different material (plastic, aluminium, etc.). It does not run even if sprayed on upright surfaces. Also eliminates traces of ink and paint.



Tech. Code		J3675400
Packaging		Spray can
Quantity	ml	400

DE-MINERALIZED WATER

ITEM: AQUAPUR

For industrial use. Produced with reverse osmosis technology.
Electrical conductivity: max 17 µs.



Tech. Code		J36850005	J36850025	J36851000
Packaging		Can	Can	IBC
Quantity	L	5	25	1000

ACRYLIC SPRAY ENAMELS

NEW

ITEM: J3812

The new Pro Tech spray enamels in RAL colours are the ideal product for the professional who needs speed, protection and reliability even on compromised or difficult surfaces. They are characterised by high thickness and high resistance and can also be applied directly on rust.



Tech. Code		J38127001	J38122004	J38129006	J38126011	J38125012
Packaging		Spray cans	Spray cans	Spray cans	Spray cans	Spray cans
Quantity	ml	400	400	400	400	400
Colour		Silver grey brilliant	Pure orange polish	Aluminium	Reseda green polish	Light blue
RAL		7001	2004	9006	6011	5012

Tech. Code		J38125015	J38121021	J38123020	J38127035	J38129005NL	J38129005NO
Packaging		Spray cans	Spray cans	Spray cans	Spray cans	Spray cans	Spray cans
Quantity	ml	400	400	400	400	400	400
Colour		Sky blue glossy	Cadmium yellow polish	Traffic Red brilliant	Light grey glossy	Intense black glossy	Intense black matt
RAL		5015	1021	3020	7035	9005	9005

GREASE GUNS

ITEM: J4110

Black painted steel body, "Zerk" tip type for lubricators with convex head.



Tech. Code		J4110C
Capacity	g	200
ø body	mm	45
Length	mm	320

ITEM: J4111

Black painted steel body, "Lub" tip type for lubricators with concave head.



Tech. Code		J4111P
Capacity	g	200
ø body	mm	45
Length	mm	320

GREASE LEVER COMPRESSORS

ITEM: J4120

Black galvanized steel body suitable also for bulk grease charging.



Tech. Code		J4120250	J4120500	J41201000
For cartridges	g	-	400	600
For cartridges ø	mm	Unpackaged grease only	52	56
Capacity	g	300	500	1000

PROFESSIONAL HAND OPERATED GREASE PUMPS

ITEM: J4122

Professional greasing kit in box including a professional hand operated grease pump, complete with 300 mm rubber hose and 4-chuck jaw grease coupler Suitable for general-purpose standard cartridges or bulk grease.



Tech. Code		J41220500
For cartridges	g	400
For cartridges ø	mm	52
Capacity	g	500

PROFESSIONAL LEVER AND GUN COMPRESSORS

ITEM: J4124

Professional manual compressor that can be lever operated or even pistol operated with one hand. Aluminum head and black anti-slip knob, with vent valve for air bubbles. It can also be used with bulk grease. The kit includes a 400mm flexible hose, a rigid pipe straw and a 4-jaw head.



Tech. Code		J4124500
For cartridges	g	400
For cartridges ø	mm	52
Capacity	g	500

FLEXIBLE NYLON HOSE FOR GREASE COMPRESSORS

ITEM: J4125

Nylon tubing feature a working pressure of 200 Bar and are tested to max pressure of 800 Bar.
Rubber hoses feature a working pressure of 400 Bar and are tested to a max pressure of 1000 Bar.



Tech. Code	L mm	Hose ø mm	Type	Threaded coupling
J4125300	300	4 x 8,4	Nylon	M 10 x 1
J4125400	400	4 x 8,4	Nylon	M 10 x 1
J4125500	500	4 x 8,4	Nylon	M 10 x 1
J4125300G	300	4 x 11	Rubber	M 10 x 1
J4125400G	400	4 x 11	Rubber	M 10 x 1
J4125500G	500	4 x 11	Rubber	M 10 x 1

LUBRICATOR HEADS

ITEM: J4130

Three-jaw model.
Suitable for lubricators with "Hydraulic" spherical head type.



Tech. Code	J41301
Threaded coupling	M 10 x 1

ITEM: J4131

EXCELLENT Swiss four-jawed model. High quality.
Suitable for lubricators with "Hydraulic" spherical head type.



Tech. Code	J41312
Threaded coupling	M 10 x 1

ITEM: J4132

Suitable for lubricators with 15 mm hexagonal head.



Tech. Code	J41323
Threaded coupling	M 10 x 1

GREASE NIPPLE COVERS

ITEM: J4137

PVC red coloured covers for hydraulic grease nipples.

Price refers to 10 pcs blister packaging. Retail minimum order packaging.



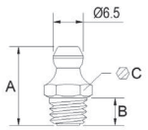
Tech. Code	J4137R10
Description	Grease nipple cover

HYDRAULIC GREASE NIPPLES-STRAIGHT

ITEM: J4134

UNI 7663-A Standard compliant hydraulic straight nipples-1:16 conical threading
AVP steel, white zinc plated as standard supply.

Price refers to 10 pcs blister packaging. Retail packaging.





Tech. Code	Thread mm	A mm	B mm	C mm
J41340761Z	M 6 x 1	13,5	5	7
J41340981Z	M 8 x 1	17	6	9
J4134098125Z	M 8 x 1,25	17	6	9
J41341161Z	M 6 x 1	17	5,2	11
J41341181Z	M 8 x 1	17,5	5,7	11
J4134118125Z	M 8 x 1,25	17,5	5,7	11
J413411101Z	M 10 x 1	17,5	7,2	11
J4134111015Z	M 10 x 1,50	17,5	7,2	11
J4134111/8Z	R 1/8	17,5	7,2	11
J4134141/4Z	R 1/4	18,5	6,8	14

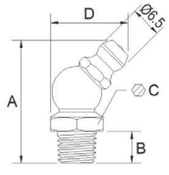
Stainless steel, DIN standard compliant version also available upon request.

HYDRAULIC GREASE NIPPLES - 45 DEGREES

ITEM: J4135

UNI 7663-B Standard compliant hydraulic 45°- nipples-1:16 conical threading
AVP steel, white zinc plated as standard supply.

Price refers to 10 pcs blister packaging. Retail packaging.





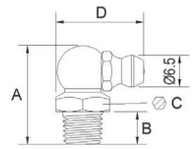
Tech. Code	Thread mm	A mm	B mm	C mm	D mm
J41351161Z	M 6 x 1	25,5	5,5	11	16,2
J41351181Z	M 8 x 1	25,5	6,7	11	16,2
J4135118125Z	M 8 x 1,25	25,5	6,7	11	16,2
J413511101Z	M 10 x 1	25,5	6,7	11	16,2
J4135111015Z	M 10 x 1,50	25,5	6,7	11	16,2
J4135111/8Z	R 1/8	25,5	6,7	11	16,2
J4135141/4Z	R 1/4	25,5	6,7	14	17,5

Stainless steel, DIN standard compliant version also available upon request.

HYDRAULIC GREASE NIPPLES - 90 DEGREES

ITEM: J4136

UNI 7663-C Standard compliant hydraulic 90°- nipples-1:16 conical threading
AVP steel, white znc plated as standard supply.





Price refers to 10 pcs blister packaging. Retail minimum order packaging.

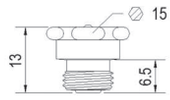
Tech. Code	Thread mm	A mm	B mm	C mm	D mm
J41361161Z	M 6 x 1	20,3	5,5	11	18
J41361181Z	M 8 x 1	20,3	6,7	11	18
J413611101Z	M 10 x 1	20,3	6,7	11	18
J4136111015Z	M 10 x 1,50	20,3	6,7	11	18
J4136111/8Z	R 1/8	20,3	6,7	11	18
J4136141/4Z	R 1/4	20,3	6,7	14	19,5

Stainless steel, DIN standard compliant version also available upon request.

BUTTON-HEAD HEX TAT HEAD GREASE NIPPLES

ITEM: J4138

UNI 7662-A Standard compliant button-head hex tat head grease nipples featuring cylindrical threading.
AVP steel, white zinc plated as standard supply.





Price refers to 10 pcs blister packaging. Retail minimum order packaging.

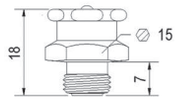
Tech. Code	Thread mm
J4138151/4Z	G 1/4
J4138151/8Z	G 1/8
J4138151015Z	M 10 x 1,5
J413815101Z	M 10 x 1
J41381561Z	M 6 x 1
J4138158125Z	M 8 x 1,25
J41381581Z	M 8 x 1

Stainless steel, DIN standard compliant version also available upon request.

BUTTON-HEAD DOUBLE HEX TAT HEAD GREASE NIPPLES

ITEM: J4139

UNI 7662-A Standard compliant button-head double hex tat head grease nipples featuring cylindrical threading. AVP steel, white zinc plated as standard supply.





Price refers to 10 pcs blister packaging. Retail minimum order packaging.

Tech. Code	Thread mm
J4139151/4Z	G 1/4
J4139151/8Z	G 1/8
J4139151015Z	M 10 x 1,5
J413915101Z	M 10 x 1
J41391561Z	M 6 x 1
J4139158125Z	M 8 x 1,25
J41391581Z	M 8 x 1

Stainless steel, DIN standard compliant version also available upon request.

Related products

WODEX ADJUSTABLE PLIERS FOR TUBES AND NUTS

Tech. Code	L mm	Max opening mm
F0510250	250	50
F0510300	300	70



The products are available in chapter F

MANUAL LEVER GREASERS

ITEM: J4152

Portable hand operated grease pump. 13 kg high pressure tank. Equipped with follower membrane that protects the lubricant and preserves its characteristics over time.



Tech. Code		J415213
Tank	kg	13
Grease pressure	bar	350/400
Tube		2,5 m - 1/4"
Weight	kg	10,4

WHEELED PEDAL GREASERS

ITEM: J4153

Wheeled pedal manual grease pump. Allows hands-free use. 13 kg high pressure tank. Equipped with follower membrance that protects the lubricant and preserves its characteristics over time.



Tech. Code		J415313
Tank	kg	13
Grease pressure	bar	300/350
Tube		2,5 m - 1/4"
Weight	kg	14

GREASE AIR PULSOMETERS FOR 20-30 KG DRUMS

ITEM: J4165

Grease distribution kits. Available with or without trolley. Complete with drum cover and pre-grease membrane.
Compression ratio 50:1 - Flow rate 1500 rpm - Suitable for drums from ø 260 mm to ø 300 mm and for grease types 0, 1, and 2



Tech. Code		J4165030	J4165030SC	J4165030CR
Description		Replacement pump	Aeropulsometer	Wheeled Aeropulsometer
For drums		12 - 30 kg	12 - 30 kg	12 - 30 kg
Drum covers and grease presses		No	Yes	Yes
Grease hose with gun		No	Yes - 4 m - 400 bar	Yes - 4 m - 400 bar
Trolley		No	No	Yes
Weight	Kg	4,8	11,4	17

GREASE AIR PULSOMETERS FOR 180-200 KG DRUMS

ITEM: J4167

Grease dispensing kits. Available with or without trolley. Complete with drum cover and pre-grease membrane.
Compression ratio 50:1 - Flow rate 1500 rpm - Suitable for grease types 0, 1 and 2



Tech. Code		J4167200	J4167200SC	J4167200CR
Description		Replacement pump	Aeropulsometer	Wheeled Aeropulsometer
For drums		180 - 200 kg	180 - 200 kg	180 - 200 kg
Drum covers and grease presses		No	Yes	Yes
Grease hose with gun		No	Yes - 4 m - 400 bar	Yes - 4 m - 400 bar
Air regulator plus tube		No	Yes	No
Trolley		No	No	Yes
Weight	Kg	6,7	21	40,3

PNEUMATIC OIL DISTRIBUTION KIT

ITEM: J4220

Pneumatic kit for transferring or distributing oil for 180 - 220 kg drums. NBR seals. The 5:1 compression ratio guarantees functionality even in the presence of high density oils. Equipped with gun with digital liter counter with 16 mm nozzle and pressure reducer on the hose connecting to the air system.



Tech. Code		J422018
Ratio		5:1
Capacity	L/min	18
Eragation tube	m	4 (M 1/2" x F 1/2" - 150 bar)
Connection tube	m	1 (M 1/4" x F 1/4" - 20 bar)
Weight	Kg	13,5

LEVER ACTION BARREE PUMPS

ITEM: J4180

Steel body, suitable for petrols and lubricants with low and medium viscosity, do not use with corrosive liquids and solvents.



Tech. Code		J418075
Capacity	L/min	75
Suction tube	cm	110

OIL BRASS SYRINGES

ITEM: J4140

Brass body, rigid tube.



Tech. Code		J4140500	J41401000
Capacity	g	500	1000
Ø body	mm	50	50
Length	mm	290	490

SAFETY CONTAINERS WITH PLUNGER AND PLATE IMPREGNATED

ITEM: J4145

Safety containers in painted powder steel to moisten cloths and sponges. The residual liquid flows back in to the container.



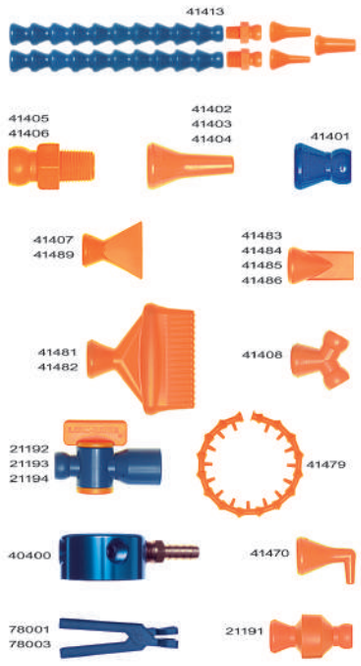
Tech. Code		J41451L
Capacity	L	1
Dimension	mm	180 x 200h

MODULAR FLEXO HOSE 1/4”

LOC-LINE

ITEM: J4410

Tech. Code	Supplier code	Description
J441001	40413	Standard pack of 20 modular segments 3 nozzles Ø 1.6 - 3.17 - 6.35 2 connections 1/4" and 1/8" NPT Total length. 330 mm
J441002	41401/1	1/4" segment
J441003	41402/1	Nozzle ø 1.6
J441004	41403/1	Nozzle ø 3.17
J441005	41404/1	Nozzle ø 6.35
J441006	41407/1	Flat nozzle 24 x 0.8
J441007	41489/1	Flat direct flow nozzle 25 x 1.3
J441008	41481/1	16-hole flat nozzle ø 1
J441009	41482/1	16-hole flat nozzle ø 1.5
J441010	41483/1	Flat nozzle 11 x 1
J441011	41484/1	Flat nozzle 11 x 1.5
J441012	41485/1	5-hole flat nozzle ø 1.5
J441013	41486/1	7-hole flat nozzle ø 1
J441014	41405/1	Connection 1/8" NPT
J441015	41406/1	Connection 1/4" NPT
J441016	41408/1	6 mm Y-coupling
J441017	41470/1	90° nozzle ø 1.6
J441018	41479	15 assembled radial nozzles and 1 cap package
J441019	21191/1	1/4" valve
J441020	21192/1	Flow regulator 1/4" NPT male
J441021	21193/1	Flow regulator 1/4" NPT female
J441022	21194/1	Intermediate flow regulator for 6 mm hose
J441023	40400	Magnetic base with 4 1/4" outputs
J441024	78001	Pliers 1/4"
J441219	78003	2 pliers 1/4" and 1/2" package

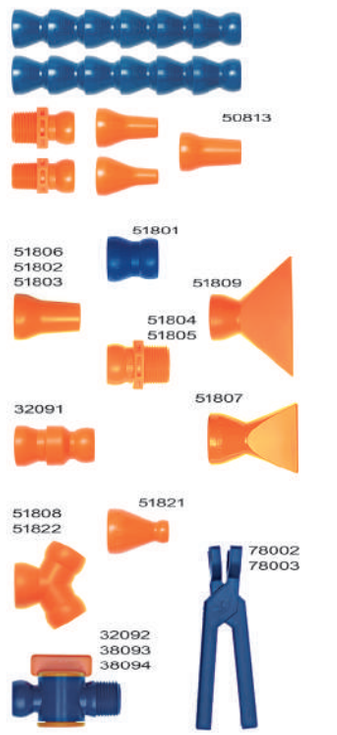


MODULAR FLEXO HOSE 1/2”

LOC-LINE

ITEM: J4412

Tech. Code	Supplier code	Description
J441201	50813	Standard pack of 12 modular segments 3 nozzles Ø 6.35 - 9.3 - 12.7 2 connections 1/2" and 3/8" NPT Total length. 330 mm
J441202	51801/1	1/2" segment
J441203	51806/1	Nozzle ø 6.35
J441204	51802/1	Nozzle ø 9.3
J441205	51803/1	Nozzle ø 12.7
J441206	51807/1	Flat nozzle 32 x 4.5
J441207	51809/1	Flat nozzle 60 x 3
J441208	51804/1	Connection 3/8" NPT
J441209	51805/1	Connection 1/2" NPT
J441210	51808/1	12 mm Y-coupling
J441211	51822/1	Y-Reducer from 1/2" to 1/4"
J441212	51821/1	Reducer from 1/2" to 1/4"
J441214	32091/1	1/2" valve
J441215	32092/1	Flow regulator 1/2" NPT male
J441216	32093/1	Flow regulator 1/2" NPT female
J441217	32094/1	Intermediate flow regulator for 1/2" hose
J441218	78002	Pliers 1/2"
J441219	78003	2 pliers 1/4" and 1/2" package

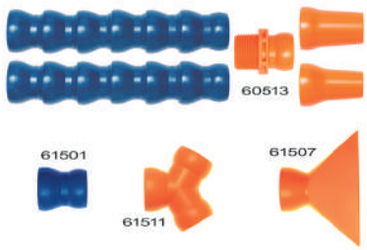


MODULAR FLEXO HOSE 3/4”

LOC-LINE

ITEM: J4414

Tech. Code	Supplier code	Description
J441401	60513	Standard pack of 12 modular segments 2 nozzles Ø 16 - 20 1 connection 3/4" NPT Total length. 350 mm
J441402	61501/1	3/4" segment
J441403	61507/1	Flat nozzle 75 x 5
J441404	61511/1	20 mm Y-coupling



J

NOZZLE FOR SB LATHES – 10 BARS

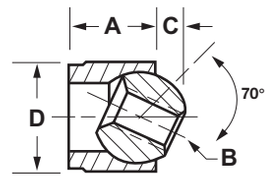
ITEM: J4500

Nozzles to be pressed, just drill and ream with H9 tolerance.
Nozzles with threaded hole for use with SBT-ST ET nozzles and pipe.

Acetal resin body - Stainless steel sphere - Max. operating temperature 70°

Tech. Code	Supplier code	Thread B	D mm	A mm	C mm
J450010	SB 9510	M4 x 0.7	10	7	2
J450012	SB 9520	M5 x 0.8	12	8	2.5
J450014	SB 9530	M6 x 1	14	10	3
J450015	SB 9540	M6 x 1	15	6	3





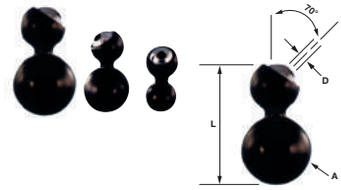
NOZZLE FOR CNC LATHES – 10 BARS

ITEM: J4510

Nozzles for CNC lathes, ideal for employment when it is not possible to use standard nozzles with spheres.

Acetal resin body - Stainless steel sphere - Max. operating temperature 70°

Tech. Code	Supplier code	Diameter A mm	D mm	L mm
J451012	BU 2310	12	4	28
J451014	BU 2320	14	4	30.5
J451015	BU 2330	15	4	31



NOZZLE FOR JJ LATHES – 10 BARS

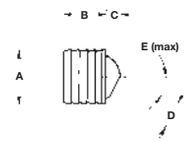
ITEM: J4520

These nozzles are particularly suited for special applications on equipment and tool machines.
Just drill a passage for the liquid, ream the hole with a tolerance of 0 + 0.05 and then press the nozzle in the seat obtained.

Acetal resin body - Stainless steel sphere - Max. operating temperature 70°

Tech. Code	Supplier code	Diameter A mm	D mm	B mm	C mm	E Degrees
J452008	JJ 0119	8	3.2	6.35	1.5	35°
J452010	JJ 0113	10	4	8	2	35°





Related products

NEW

U-Power NITRILE-COATED NYLON-POLYESTER GLOVES

Tech. Code	EU size
K235107	7
K235108	8
K235109	9



Products are available in CAP K

NOZZLE FOR LATHES – 33 BARS

ITEM: J4530

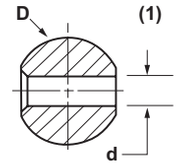
Nozzles with brass sphere and smooth threaded hole, ideal for CNC lathes.

Brass sphere – Max operating temperature 150°

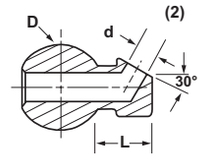
Tech. Code	Supplier code g	Diameter D mm	d mm	L mm	Hole
J4530A10	BB 1007	10	4	-	Plain straight hole
J4530A12	BB 1024	12	4	-	Plain straight hole
J4530A14	BB 1037	14	4	-	Plain straight hole
J4530A15	BB 1049	15	4	-	Plain straight hole
J4530B12	BB 1021	12	4	9.15	Plain angled hole
J4530B14	BB 1034	14	4	9.15	Plain angled hole
J4530B15	BB 1046	15	4	9.15	Plain angled hole
J4530C10	BB 1001	10	M6 x 1	0	Straight threaded hole
J4530C12	BB 1018	12	M5 x 0.8	6	Straight threaded hole
J4530C14	BB 1031	14	M6 x 1	7.9	Straight threaded hole
J4530C15	BB 1043	15	M6 x 1	7.9	Straight threaded hole
J4530C22	BB 1065	22	M6 x 1	7.9	Straight threaded hole



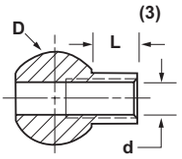
Plain straight hole



Plain angled hole



Straight threaded hole



NOZZLE FOR LATHES – 100 BARS

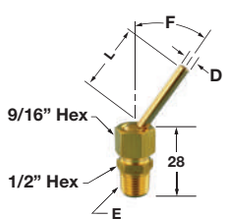
ITEM: J4540

Nozzles for high-pressure CNC machines.

Brass body – Stainless steel sphere and extension - Max. operating temperature 150°

Tech. Code	Supplier code	Thread E	D mm	L mm	F Degrees
J45403	LJ 18130	1/8" NPT	2.2	6.35	33°
J45404	LJ 18140	1/8" NPT	2.2	31.7	28°
J45405	LJ 18150	1/8" NPT	3.0	12.7	33°
J45406	LJ 18160	1/8" NPT	3.0	31.7	28°
J45407	LJ 18165	1/8" NPT	3.0	15.2	28°
J45408	LJ 18170	1/8" NPT	4.0	12.7	28°
J45409	LJ 18180	1/8" NPT	4.0	31.7	28°





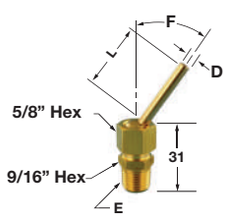
1/8" NPT

ITEM: J4550

Nozzles for high-pressure CNC machines.

Brass body – Stainless steel sphere and extension - Max. operating temperature 150°

Tech. Code	Supplier code	Thread E	D mm	L mm	F Degrees
J455008	LJ 18260	1/4" NPT	3.0	12.7	33°
J455009	LJ 18265	1/4" NPT	4.0	31.7	33°
J455010	LJ 18270	1/4" NPT	5.6	12.7	27°
J455011	LJ 18275	1/4" NPT	M6 x 1	31.7	27°



1/4" NPT

DETGREEN HYGIENE

The LTEC DETGREEN line offers a complete series of products for hygiene in industrial environments.

All products are formulated to respect the environment.
Like most detergents, they are most effective when used dry with subsequent rinsing.



HAND-WASH LIQUID

PDF

ITEM: DETGREEN HANDYSOAP

DETGREEN HANDYSOAP is a pH neutral liquid detergent, whose mild and effective formulation allows frequent use without altering the hydrolipidic balance of the skin. Formulated using vegetable surfactants from renewable sources. Suitable for hands and body, ideal for office use and light soiling.



Tech. Code		J5415500	J541510
Package		Small container with dispenser	Refill
Quantity	L	0,5	10

HAND-WASH GEL

PDF

ITEM: DETGREEN HANDYGEL ORANGE

DETGREEN HANDYGEL ORANGE is a solvent-free handwash gel, with a softer mineral abrasive (calcium carbonate), with aloe and vegetable surfactants. Very effective for removing industrial dirt without harming the skin.



Tech. Code		J52213	J5221B3
Package		Small container with dispenser	Refill sachet for Handygel Orange dispenser
Quantity	L	3	3

HAND-WASH CREAM

PDF

ITEM: DETGREEN HANDYCREAM WHITE

DETGREEN HANDYCREAM WHITE is a creamy solvent-free detergent. It contains a mineral abrasive (calcium carbonate) and vegetable surfactants. Creamy, mild and pH neutral. Suitable for frequent washing.



Tech. Code		J52263	J52265	J5226B3
Package		Small container with dispenser	Small container with dispenser	Refill sachet for HANDYCREAM WHITE dispenser
Quantity	L	3	5	3

WALL DISPENSER

ITEM: DETGREEN

3 L dispenser. Use Handygel and Handycream refill bags.



Tech. Code	J52293
Description	Hand-washing product dispenser
Dimensions	340h x 200l x 100p

WALL HOLDER FOR DRUMS WITH DISPENSER

ITEM: DETGREEN

Chromed metal for 3 L and 5 L drums. Supplied with dowels and screws for perfect mounting.



Tech. Code		J52313	J52315
Package		Holder for 3 L drum	Holder for 5 L drum
Weight	g	400	510

HAND-WASH PASTE

PDF

ITEM: DETGREEN PASTE

DETGREEN PASTE is a sand-free ecological handwash paste that contains natural surfactants and soaps. A natural wood flour based abrasive produced from renewable sources. Ideal for removing stubborn and ingrained dirt.



Tech. Code		J52401	J52405
Package		Tub	Bucket
Quantity	L	1	5

DERMA-PROTECTIVE CREAM FOR HANDS

PDF

ITEM: HANDYSAVE SPRAY

Derma-protective fluid, it creates an invisible barrier against dirt and irritating substances. Makes hand cleaning easy.



Tech. Code		J5310400
Package		Spray can
Quantity	ml	400

HAND-WASHING CREAM

PDF

ITEM: SF 7850

Natural citrus fruit extracts, suitable for removing deep-seated dirt while protecting the skin. Biodegradable.



Tech. Code		J52103
Package		Can with dispenser
Quantity	L	3

PAPER ROLL BOBIN

ITEM: J5420

Havana: 80% cellulose fibre + 20% recycled - 3 ply - weight: 3.2 Kg
Strong: 100% cellulose fibre - 3 ply - weight: 2.9 Kg
Sand: 100% recycled - 3 ply - weight: 2.2 Kg



Tech. Code		J5420HAVANA	J5420STRONG	J5420SABBIA
Description		Havana embossed	Strong embossed white	Embossed sand
Tear off	n°	568	526	500
Dim. tear off	cm	26 x 28	24 x 38	26 x 34
Coil height	m	216	200	170

FLOOR ROLL HOLDER

ITEM: J5421

Painted tubular steel structure.

Tech. Code	J5421A2
Description	Without wheel



WALL ROLL HOLDER

ITEM: J5422

Painted tubular steel structure.

Tech. Code	J5422A1
Description	White structure



CLEANING CLOTH FORM NON-WOVEN MATERIAL

ITEM: J5425

Anti-silicone single-ply cloth of non-woven material. 100% fiber without chemical binders. Absorbs up to 35 times its own weight in a few seconds. High mechanical strength and solvent resistance.
It does not flake nor leave lint.
Suitable for all cleaning operations in industrial, body shop and graphic arts environments.
Light blue. The roll weighs 1.6 kg.

Tech. Code		J5425005	J5425010
Tear off	cm	30 x 38	30 x 38
Wipe off	n°	263	263
Package		Box	Roll



WHITE INDUSTRIAL CLEANING RAGS

Sanitized, mixed -fabric seconds white rags. Supplied in a 10kg convenience packaging.

Tech. Code		J543010	J543510	J544010
Color		White	Colorful	White
Material		Mixed textiles	Mixed textiles	Bed linen
Dimensions	cm	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20

Tech. Code		J544510	J545010	J545020
Color		Colorful	Colorful	White
Material		T-Shirt	Sponge	Sponge
Dimensions	cm	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20



INVERTER MMA WELDING MACHINES

ITEM: BESTER S171-PACK

Portable inverter welding machine suitable for repair and maintenance work. Suitable for use with rutile and basic electrodes. Hot Start function to aid ignition and Arc Force function to prevent electrode sticking.
DC electrode and Lift TIG DC welding. Equipped with digital display. Motor-generator compatible. Comes standard with 3 m welding cables with electrode holder and ground clamp, hammer and carrying case. Ready to use. 2-year warranty.



Tech. Code		J6160171P
Primary voltage	V	230 single-phase
Max. power consumption	Kw	4,9
Intermittence ratio	A	160 (20%) - 95 (60%) - 75 (100%)
Connector size	mm	13
Max. electrode diameter	mm	4,0
Dimension	mm	299 x 128 x 215
Weight	Kg	3,5

ITEM: SPRINTER 160S

Compact and powerful inverter welding machine suitable for light carpentry work. Suitable for all electrode types including cellulosic. Hot Start functions to aid ignition and Arc Force to prevent sticking of the electrode. PFC device to ensure low power consumption and resist power fluctuations. DC electrode and Lift Tig DC welding. Digital display. Motor-generator compatible. 3-year warranty.



Tech. Code		J6163160S
Primary voltage	V	120 - 230 single-phase
Max. power consumption	Kw	5,2
Intermittence ratio	A	160 (45%) - 150 (60%) - 110 (100%)
Connector size	mm	13
Max. electrode diameter	mm	4,0
Dimension	mm	162 x 305 x 438
Weight	Kg	8,4

Recommended accessories: electrode + ground kit J7025354 + J7030354 - TIG torch J7050135V13

ITEM: SPRINTER 180S

Compact and powerful inverter welding machine suitable for light carpentry work. Suitable for all electrode types including cellulosic. Hot Start functions to aid ignition and Arc Force to prevent sticking of the electrode. PFC device to ensure low power consumption and resist power fluctuations. DC electrode and Lift Tig DC welding. Digital display. Motor-generator compatible. 3-year warranty.



Tech. Code		J6166180S
Primary voltage	V	120 - 230 single-phase
Max. power consumption	Kw	6,0
Intermittence ratio	A	180 (35%) - 150 (60%) - 110 (100%)
Connector size	mm	13
Max. electrode diameter	mm	4,0
Dimensions	mm	162 x 305 x 438
Weight	mm	8,4

Recommended accessories: electrode + ground kit J7025354 + J7030354 - TIG torch J7050135V13

TIG WELDING MACHINES

ITEM: SPRINTER 200T

Compact and powerful TIG welding machine suitable for carpentry and Pipeline repair work. Combines high-performance electrode welding with high-frequency TIG. Pulsed TIG mode for better control when welding thin thicknesses. Hot Start functions to aid ignition and Arc Force to prevent sticking of the electrode. PFC device to ensure low power consumption and resist power fluctuations. Welds all types of electrodes including cellulosics in DC mode. Digital display. Motor-generator compatible. 3-year warranty.



Tech. Code		J6169200T
Primary voltage	V	120 - 230 single-phase
Max. power consumption	Kw	6,0
Intermittence ratio	A	200 (25%) - 150 (60%) - 110 (100%)
Connector size	mm	13
Max. electrode diameter	mm	4,0
Dimensions	mm	162 x 305 x 438
Weight	Kg	9

Recommended accessories: electrode + ground kit J7025354 + J7030354 - TIG torch J7050135EB

MIG/MAG WIRE WELDING MACHINES

ITEM: QUICKMIG 300

Wheel-mounted inverter welding machine for MIG/MAG (GMAW/FCAW) and MMA (SMAW) welding. Manual mode plus 24 synergic programmes as standard for welding steel, stainless steel, aluminium with solid or flux cored wires. EURO connection for MIG torch. MMA welding for Rutile and Basic electrodes. Large LED display. Lowered tank compartment, metal structure and easy access for wire coil installation. Compatible with motor generator. Ideal machine for light carpentry, maintenance and repair. Supplied with power cable (without plug), ground cable, gas hose and roll for 0.8 - 1.0 mm solid wire. 2-year warranty.



Tech. Code		J6172300
Primary voltage	V	400 three-phase
Max. power consumption	Kw	9,3
Intermittence ratio	A	300 (35%) - 230 (60%) - 175 (100%)
Connector size	mm	13
Dimensions	mm	760 x 395 x 830
Weight	Kg	50

Suggested accessories: MIG torch J72352504

MULTIFUNCTION WELDERS

ITEM: BESTERMIG 200-S

Portable and compact multi-process welding machine. GMAW (MIG/MAG), FCAW, SMAW (MMA), GTAW (Lift TIG). Large digital display, with synergic mode for automatic selection of welding parameters. Arc Force and Anti-Stick function for better welding arc control. Comes with Mig torch, electrode holder clamp and ground cable, all with 3 m cable. It can mount a coil of up to 5 kg, and supports wire diameters of 0.6 - 1 mm. In MMA mode it supports rutile and basic electrodes up to 4 mm. In TIG mode tungsten electrodes from 1 to 2 mm. Motor-generator compatible. Ideal solution for maintenance. 2-year warranty.



Tech. Code		J6126200
Power supply voltage	V	230 single phase
MIG/MAG current adjustment	A	30 - 200
Current adjustment MMA - TIG	A	15 - 200
MMA - MIG/MAG intermittence ratio	A	200 (10%) - 82 (60%) - 64 (100%)
TIG intermittence ratio	A	200 (15%) - 100 (60%) - 64 (100%)
Connector size	mm	13
Dimensions	mm	480 x 220 x 305
Weight	Kg	11,7

Suggested accessories: TIG torch J7050135V13

PLASMA CUTTING

ITEM: TOMAHAWK 30K

Portable plasma generator with integrated compressor and provision for external air connection. Arc start without high frequency. Supplied with Lincoln LC30 flashlight with 4m cable, ground clamp and power cable. Compatible with motor generator. For maintenance, demolition, drainage systems and small building applications.



Tech. Code		J614030
Supply voltage	V	230 single phase
Current regulation	A	15 - 30
Required air pressure	Bar	5 - 6
Service factor	A	30 (60%) - 25 (100%)
Cutting capacity	mm	16
Dimension	mm	385 x 215 x 480
Weight	kg	18,5



WELDING TORCH TIG

ITEM: WTT2

Simple and reliable air-cooled TIG torch, suitable for most common applications.
In two versions with gas adjusting tap for machines with Tig Lift or with push button for machines equipped with High Frequency.
High-temperature silicone rubber handle.High-performance, super-flexible cable to facilitate the operator's work.



Tech. Code		J7050135V13	J7050135EB
Model		WTT2-17	WTT2-17
Working cycle 40°C		100 A (60%)	100 A (60%)
Ø Nozzle	mm	10	10
Ø Electrode	mm	2,0	2.0
Cable	m	4	4
Handle		with tap	with button
Connection		V (13mm)	C5B

SPARE PARTS FOR TIG TORCHES

ITEM: J7053

Tech. Code	Mod. Torch	Image	Description	Type
J705317A100	WTT2-17	A	Rear tap	Length
J705317B16	WTT2-17	B	Electrode holder pliers	Ø 1,6
J705317B20	WTT2-17	B	Electrode holder	Ø 2,0
J705317B24	WTT2-17	B	Electrode holder pliers	Ø 2,4
J705317C16	WTT2-17	C	Clamp holders	Ø 1,6
J705317C20	WTT2-17	C	Plier holder	Ø 2,0
J705317C24	WTT2-17	C	Clamp holders	Ø 2,4
J705317D80	WTT2-17	D	Nozzle	Ø 8,0
J705317D96	WTT2-17	D	Nozzel	Ø 9,6



SUPPORT FOR TIG TORCHES

ITEM: J7060

Support with magnetic base for TIG torches. Parking the torch on the support increases the safety of the workstation and facilitates the operator's task



Tech. Code	J7060BASE
Description	Support with magnetic base for TIG torches

TORCHES FOR MIG-MAG WIRE WELDING

ITEM: LGS3-ARIA

Semi-automatic, air-cooled wire welding torches. Cable length 4 m. Rotating handle and extra flexible cable.
Parts subject to wear in compliance with the major European standards.

Tech. Code		J72351504	J72352504	J72353604
Model		LGS3-150G	LGS3-250G	LGS3-360G
Work cycle (co_2)		180 A to 60%	230 A to 60%	330 A to 60%
Applications		Thin thicknesses	Thin thicknesses - Light carpentry	Construction sites - Medium carpentry
Ø Max wire	mm	1,0	1,0	1,2
Contact tip	mm	0,8	1,0	1,2
Conical nozzle	mm	12	15	16



WIRE WELDING TORCHES MIG-MAG

ITEM: LGS3-ACQUA

Semi-automatic water-cooled wire welding torches. Cable length 4 m. Rotating handle and extra flexible cable.
Parts subject to wear conform to the major European standards.

Tech. Code		J72365054
Model		LGS3-505W
Work cycle (CO_2)		500 A al 100%
Application		Heavy industry - High productivity
Ø max wire	mm	2.4
Contact tip	mm	1.2
Conical nozzel	mm	16

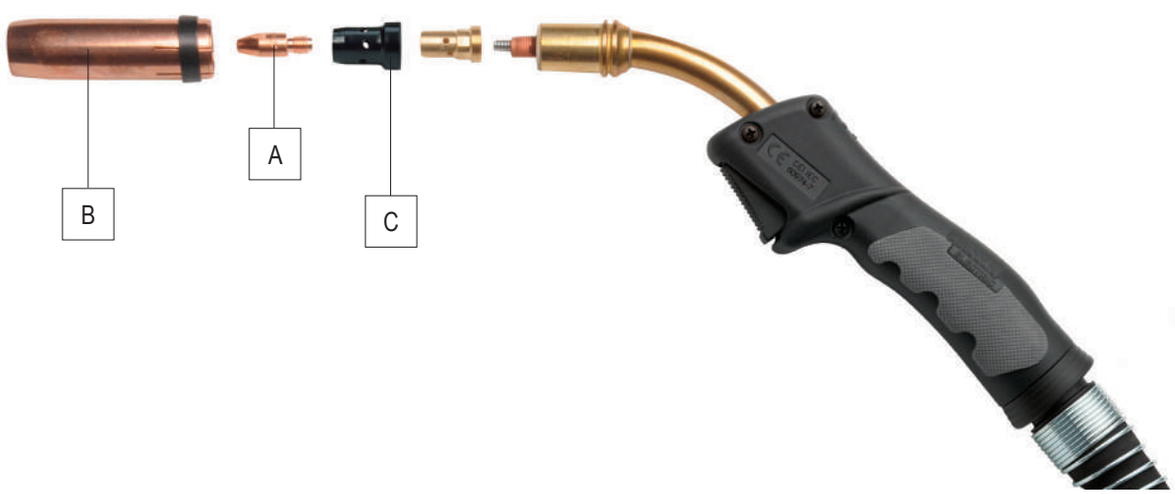


SPARE PARTS FOR MIG-MAG WIRE TORCH

ITEM: J7230

Tech. Code	Mod. Torch	Image	Description	Type
J7230150A08	150	A	Contact tip (10pcs)	M6x25 Ø0,8
J7230150A10	150	A	Contact tip (10pcs)	M6x25 Ø1,0
J7230150B12	150	B	Conical nozzle	Ø12,5
J7230250A08	250	A	Contact tip (10pcs)	M6x28 Ø0.8
J7230250A10	250	A	Contact tip (10pcs)	M6x28 Ø1.0
J7230250B15	250	B	Conical nozzel	Ø15
J7230360A10	360/505	A	Contact tip (10pcs)	M8x30 Ø1,0
J7230360A12	360/505	A	Contact tip (10pcs)	M8x30 Ø1,2
J7230360B16	360	B	Conical nozzel	Ø16
J7230360CST	360	C	GAS diffuser (10pcs)	Standard
J7230505B16	505	B	Conical nozzel	Ø16
J7230505CST	505	C	GAS diffuser (10pz)	Standard





SUPPORT FOR MIG TORCHES

ITEM: J7240

Support with magnetic base for MIG torches. Parking the torch on the support increases the safety of the workstation and facilitates the operator's task.

Tech. Code	J7240BASE
Description	Support with magnetic base for MIG torches



ELECTRODE HOLDER PLIERS

SAF-FRO

ITEM: CAIMAN

Straight-type with electrode-holder jaws, body and lever in cast brass, insulating coating with thermosetting material. The electrodes can be locked in any direction.



Tech. Code		J7215200425	J7215300550	J72156600
Amparage	35%	200 A	400 A	600 A
Max. electrodes	mm	3,2	5	6,3
Cable max	Ø mm²	25	50	70

ITEM: SEGURA

Straight-type with electrode-holder hole, body and lever in cast brass, insulating coating with thermosetting material.



Tech. Code		J7220300425	J7220300550	J7220400670
Amparage	35%	300 A	400 A	600 A
Max. electrodes	mm	4	5	6,3
Cable max	Ø mm²	35	50	70

GROUND CLAMPS

ITEM: J7310

Treated sheet steel body, brass clamp, braided copper shunt between contacts.



Tech. Code		J7310250	J7310300	J7310500
Intermitt. ratio	35%	250 A	400 A	500 A
Intermitt. ratio	60%	200 A	300 A	400 A
Cable	Ø mm	25 - 35	50 - 70	70 - 95
Weight	g	215	320	560

ELECTRODE HOLDER CLAMP KIT WITH ASSEMBLED CABLE

ITEM: J7025

Kit consisting of electrode holder with assembled rubber cable.



Tech. Code		J7025254	J7025354
Cable	Ø mm²	25	35
Cable length	m	4	4
Ø Connectors	mm	9	13

EARTH CLAMP KIT WITH ASSEMBLED CABLE

ITEM: J7030

Kit composto da morsetto di massa e cavo di gomma assemblato.



Tech. Code		J7030254	J7030354	J7030504
Cable	Ø mm²	25	35	50
Cable length	m	4	4	4
Ø Connectors	mm	9	13	13

GROUND CLAMPS SCREW TYPE

ITEM: J7315

Brass body, tilting contact, suitable for fixed positioning.



Tech. Code		J7315400	J7315600
Intermitt. ratio	35%	400	600
Intermitt. ratio	60%	300	500
Cable	Ø mm²	35 - 50	70 - 95
Weight	g	360	700

SLAG-STRIKING HAMMERS

ITEM: J7320

Steel head, iron handle and plastic-coated handle.



Tech. Code		J73201
Length	mm	315
Weight	g	250

CABLE TERMINAL FOR WELDING CABLES

SACIT

ITEM: J7420

Cable terminal for welding cables nickel-plated brass with 2 hexagonal head screws.



Tech. Code		J742016	J742025	J742035	J742050	J742070
Cable	Ø mm²	16	25	35	50	70
Capacity	mm	10	10	14	14	16
Tightening screws	n°	2	2	2	2	4

MALE CONNECTORS FOR WELDING CABLES

ITEM: J7430

Male connectors, welding cable junction plug. Insulating coating.



Tech. Code		J7430200	J7430250	J7430300	J7430400
Rep. int. 60%	A	200 A	250 A	315 A	400 A
Cable	Ø mm²	10 - 25	35	50	70
Pin	Ø mm	9	13	13	13

FEMALE CONNECTORS FOR WELDING CABLES

ITEM: J7435

Brass body covered with highly insulating material.



Tech. Code		J7435200	J7435250	J7435300	J7435400
Rep. int. 60%	A	200 A	250 A	315 A	400 A
Cable	Ø mm²	10 - 25	35	50	70
Pin	Ø mm	9	13	13	13

MULTIPURPOSE PLIERS FOR WELDING

ITEM: J7450

Multipurpose pliers specifically designed to facilitate the welder's work. Allows easy installation and removal of MIG torch tips, nozzles and diffusers. Suitable for stripping cables and cutting sheaths. Suitable for the removal of welding spatter.

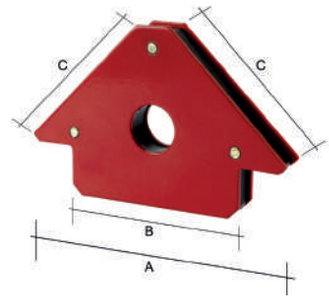


Tech. Code		J7450000
Length	mm	210

MAGNETIC POSITIONERS

ITEM: J7460

Magnetic positioners to hold the pieces to be welded in position. They allow positioning angles of 45 °, 90 ° and 135 ° - Simple to use, available in multiple sizes, they facilitate the positioning and maintenance of the pieces to be welded in the correct position.



Tech. Code		J7460200	J7460300	J7460500
Article		PS-2	PS-3	PS-5
A	mm	93	157	200
B	mm	62	93	125
C	mm	62	102	125

SPRING GAS LIGHTERS

ITEM: J7465

Suitable for ignition of oxygas torches. Supplied with 5 spare pins.



Tech. Code	J746501
Description	Gas lighter with 5 spare pins

HANDLES FOR MODULAR SYSTEM

ITEM: FROVER

Frover handles in one-piece molded brass. Modular system on which various types of lance can be applied. Suitable for supporting welding and brazing from 0.3 to 20 mm, for high-power heating and for cutting up to 200 mm. Taps with stainless steel pin. Removable hose connectors.



Tech. Code		J7620000
Hose pipe connectors Ø	mm	6,3 - 8
Hose pipe nut		G3/8"

TAP CUTTING LANCES

ITEM: FROVER H1F

Brass cutting lance compliant with the international standard ISO 5172 which guarantees the greatest resistance to backfire. Mounted on the Frover handle it guarantees power, safety and reliability



Tech. Code	J762390AC	J762390PM
Typology	Acetylene 90 °	Propane-Methane

CUTTING BITS - ACETYLENE

ITEM: H1F AC

Cutting bits model H1F, consisting of an internal part in brass and an external part in copper, make cleaning the tip practical, effective and quick. The exit of the heating flame very close to the central hole of the cut guarantees a more concentrated and effective heating.



Tech. Code		J7625025	J7625050	J7625075	J7625100
Cutting thickness	mm	25	50	75	100

CUTTING BITS -PROPANE-METHANE

ITEM: H1F PM

Cutting bits model H1F, consisting of an internal part in brass and external part in copper, make cleaning the bit practical, effective and fast. The exit of the heating flame very close to the central hole of the cut guarantees a more concentrated and effective heating.



Tech. Code		J7627025	J7627050	J7627075	J7627100
Cutting thickness	mm	25	50	75	100

Related products

SAFETY SHOES

Tech. Code	EU Size	UK Size
K181243	43	9
K181244	44	10
K181245	45	10 1/2
K181246	46	11



Product available in chapter K

OXYGEN PRESSURE REDUCERS

SAF-FRO

ITEM: EUROFRO

EN ISO 2503. Full-protection covered gauges, ABS shockproof, detachable hose connection for Ø 8 mm pipe with G 3/8 DX nut.

Tech. Code		J77110
Entry scale	bar	200
Exit scale	bar	10
Max. press.	m³/h	35



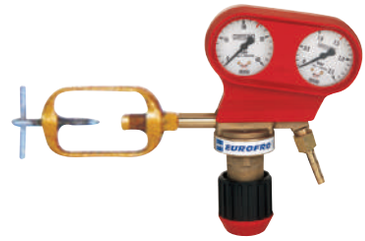
ACETYLENE PRESSURE REDUCERS

SAF-FRO

ITEM: EUROFRO

EN ISO 2503. Full-protection covered gauges, ABS shockproof, detachable hose connection for Ø 8 mm pipe with G 3/8 SX nut.

Tech. Code		J771401
Entry scale	bar	25
Exit scale	bar	1,5
Max. press.	m³/h	10



PROPANE PRESSURE REDUCERS

SAF-FRO

ITEM: EUROFRO

EN ISO 2503. Full-protection covered gauges, ABS shockproof, detachable hose connection for Ø 8 mm pipe with G 3/8 SX nut.

Tech. Code		J771501
max. output	bar	4
Max. press.	m³/h	10



ARGON PRESSURE REDUCERS WITH FLOW METER

SAF-FRO

ITEM: EUROFRO

Standard EN ISO 2503, ideal for TIG welding. Double adjustment for greater flux stability, possibility of gas shut-off without adjustment change. Rubber gauge protection cap, removable hose holder for Ø 6 mm hose with G 1/4 left nut.

Tech. Code		J771901
max. input	bar	200
Flowmeter scale	L/min	0 - 20



PRESSURE REDUCERS WITH HANDFLOW METER FOR ARGON/CO2

SAF-FRO

ITEM: EUROFRO

Standard EN ISO 2503. Ideal for MIG-MAG and TIG wire welding. Impact-resistant ABS protective cap, removable hose holder for Ø 6 mm hose, with nut G 1/4 SX.

Tech. Code		J772301
Max inlet pressure	bar	200
Flow	l/min	0 - 25



SAFETY DEVICE FOR TORCHES

SAF-FRO

ITEM: SECURTOP 662 TF

ISO 5175 Class 1 - EN 730-1. Pressed brass, stops flashbacks and gas.



Tech. Code		J7730OSS	J7730GAS
Use for		Oxygen	*comb. gas
Threaded coupling		G 3/8 DX	G 3/8 SX
Hose connection ø	mm	8 - 6.3	8 - 6.3

* acetylene, propane, methane

SAFETY DEVICE FOR HOSES

SAF-FRO

ITEM: SECURTOP 662 TT

ISO 5175 Class 1 - EN 730-1. Pressed brass, stops flashbacks and gas.



Tech. Code		J7735OSS	J7735GAS
Use for		Oxygen	*comb. gas
Hose connection ø	mm	8 - 6.3	8 - 6.3

* acetylene, propane, methane

SAFETY DEVICE FOR REDUCERS

SAF-FRO

ITEM: SECURTOP 665

EN 730-1. Pressed brass, stops flashbacks and gas, sintered stainless device to stop gas flames, high-sensitivity backstop device.



Tech. Code		J7740OSS	J7740GAS
Use for		Oxygen	*comb. gas
Threaded coupling		G 3/8 DX	G 3/8 SX

* acetylene, propane, methane

RUBBER HOSE FOR ACETYLENE

ITEM: J7810

ISO 3821 - Maximum operating pressure 20 bars. Red colour.



Tech. Code		J7810815A	J7810815B	J7810815C	J7810815D
Dimension	mm	8 x 15	8 x 15	8 x 15	8 x 15
Length	m	10	25	50	100

RUBBER HOSE FOR OXYGEN

ITEM: J7812

ISO 3821 - Maximum operating pressure 20 bars. Light blue colour.

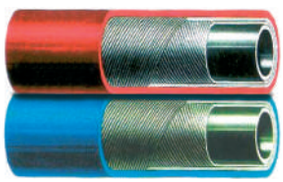


Tech. Code		J7812815A	J7812815B	J7812815C	J7812815D
Dimension	mm	8 x 15	8 x 15	8 x 15	8 x 15
Length	m	10	25	50	100

DOUBLE RUBBER HOSE FOR OXY/ACETYLENE

ITEM: J7814

ISO 3821 - Maximum operating pressure 20 bars. Light blue/red colour.



Tech. Code		J7814815A	J7814815B	J7814815C	J7814815D
Dimension	mm	8 x 15	8 x 15	8 x 15	8 x 15
Length	m	10	25	50	100



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RUTILE ELECTRODES FOR CARBON STEEL

SAF-FRO



ITEM: BLUCORD

Classification:
AWS A5.1
E6013
EN ISO 2560-A
E 38 O R 12

Rutile electrode with fast-cooling slag and excellent bead appearance. Excellent ignition. For all welding positions except vertical down. Suitable for use with AC current, DC-

Tech. Code		J8010025	J8010032
Ø	mm	2.5	3.2
Length	mm	300	450
Package	pcs	226	135

BASIC ELECTRODES FOR CARBON STEEL

SAF-FRO



ITEM: BASICORD A

Classification:
AWS A5.1
E7018-1 H4
EN ISO 2560-A
E46 5 B 32 H5

Basic electrode. Very good weldability in all positions except vertical down. Good bead appearance and very little spatter. Fast ignition, universal use. Vacuum packed. Suitable for use with AC, DC+ current

Tech. Code		J8020025	J8020032
Ø	mm	2.5	3.2
Length	mm	300	400
Package	pcs	90	55

ELECTRODES FOR AISI 304 AND AISI 308 STAINLESS STEELS

SAF-FRO



ITEM: SAFINOX R308L

Classification:
AWS AS A5.4
E308L-17
EN ISO 3581-A
E 19 9 L R 12

Rutile electrode for welding of austenitic Cr-Ni stainless steels and ferritic Cr stainless steels. Virtually spatter-free.
Suitable for use with AC and DC+ current. For all welding positions. Good ignition and restrike.

Tech. Code		J8025025	J8025032
Ø	mm	2,5	3,2
Length	mm	350	350
Package	pcs	187	120

AISI 316 STAINLESS STEELS ELECTRODES

SAF-FRO



ITEM: SAFINOX R316L

Classification:
AWS A5.4
E316L-17
EN ISO 3581-A
E19 12 3 L R 12

Rutile electrode developed for welding of austenitic Cr-Ni-Mo steels. Almost spatter-free.
For all welding positions. Easy ignition and restrike. Suitable for use with AC or DC + current.

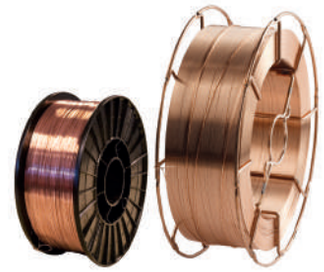
Tech. Code		J8030025	J8030032
Ø	mm	2,5	3,2
Length	mm	350	350
Package	pcs	187	120

SOLID WIRE FOR CARBON STEELS

ITEM: ULTRAMAG AWS: ER70S-6

Classification:
AWS A5.18
ER70S-6
EN ISO 14341-A
G42 3 C1 3Si1 / G46 4 M20 3Si1 / G46 4 M21 3Si1

Wire with excellent flow, very good welding performance, high productivity, excellent weldability, stable arc and low spatter.
Typical applications: automotive, construction, shipbuilding, general manufacturing. 300 mm metal basket with 52 mm hole for 16 kg coil.



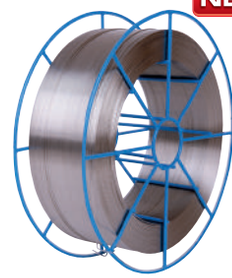
Tech. Code		J815508	J81550805	J81551005	J815510	J815512
Wire Ø	mm	0.8	0,8	1,0	1,0	1.2
Weight	Kg	16	5	5	16	16

SOLID WIRES FOR AISI 304 AND AISI 308 STAINLESS STEELS

ITEM: LNM 304LSI

Classification:
AWS A5.9
ER308LS
EN ISO 14343-A
G 19 9 LSi

Low carbon wire with increased intergranular corrosion resistance. Higher silicon content for increased melt pool fluidity. Excellent weldability and bead appearance. Finds application in the manufacture of plates and pipes as well as in shipbuilding. 300 mm metal basket with 52 mm hole.



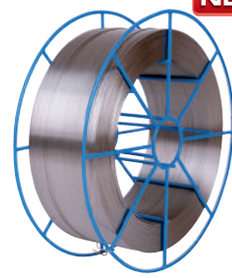
Tech. Code		J816208	J816210	J816212
Wire Ø	mm	0,8	1,0	1,2
Weight	Kg	15	15	15

SOLID WIRES FOR AISI 316 STAINLESS STEELS

ITEM: LNM 316LSI

Classification:
AWS A5.9
ER316LSi
EN ISO 14343-A
G 19 12 3 LSi

High silicon wire to promote a regular weld bead shape with excellent bead to base metal bonding. High crevice corrosion resistance. Finds application in the manufacture of plates and pipes as well as in shipbuilding. 300 mm metal basket with 52 mm hole.



Tech. Code		J816408	J816410	J816412
Wires Ø	mm	0,8	1,0	1,2
Weight	Kg	15	15	15

SELF-PROTECTED FLUX-CORED WIRES FOR CARBON STEELS

ITEM: INNERSHIELD NR-211-MP

Classification:
A5.20 / A5.36
E71T-11
E71T11-AZ-CS3

Self-protected flux-cored wire suitable for applications without shielding gas. Versatile wire for a variety of base materials, good bead appearance and easy slag removal. Finds application in sheet metal welding and light carpentry. Weldable in all positions. Suitable for DC- current.

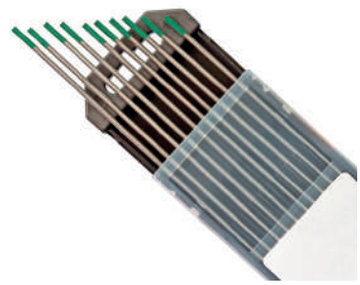


Tech. Code		J81750905
Wire	mm	0,9
Weight	Kg	5

PURE TUNGSTEN ELECTRODES

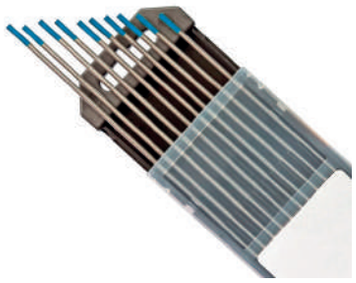
ITEM: WP

Green tip Pure tungsten no oxides added. Excellent arc stability on alternating current (AC) welding. Suitable for welding aluminum, light alloys and magnesium.



Tech. Code		J811316	J811320	J811324	J811332
Ø	mm	1.6	2.0	2,4	3.2
Length	mm	150	150	150	150
Package	Pcs	10	10	10	10

TUNGSTEN ELECTRODES IN LANTHANUM



ITEM: WL 20

Blue end, Lanthanum 2%. For use with both DC, for stainless steel, and AC current, for light alloys. Suitable for welding steel and light alloys, good ignition, durability and heat resistance. Effectively replace Thoriated tungsten electrodes contain thorium, a radioactive material.

Tech. Code		J811516	J811520	J811524	J811532
Ø	mm	1.6	2,0	2.4	3.2
Length	mm	150	150	150	150
Package	pcs	10	10	10	10

TIG WELDING RODS FOR CARBON STEELS



ITEM: LNT25

Classification:
AWS A5.18
ER70S-3
EN ISO 636-A
W 42 5 2Si

Rods used for TIG welding of carbon steels. Excellent mechanical and toughness properties for low temperature applications down to -50°C. Stable arc and good creep.

Tech. Code		J8180165	J8180205	J8180245
Ø	mm	1,6	2,0	2,4
Length	mm	1000	1000	1000
Weight	kg	5	5	5

TIG WELDING RODS FOR AISI 304 AND 308



ITEM: LNT 304LSI

Classification:
AWS A5.9
ER308LSi
EN ISO 14343-A
W 19 9 LSi

Rods for TIG welding of stainless steel 304 and 308. The low carbon content reduces the precipitation of intergranular carbides and increases corrosion resistance. The higher silicon content results in a higher fluidity of the weld pool. Excellent bead appearance.

Tech. Code		J8182165	J8182205	J8182245
Ø	mm	1,6	2,0	2,4
Length	mm	1000	1000	1000
Weight	kg	5	5	5

TIG RODS FOR AISI 316



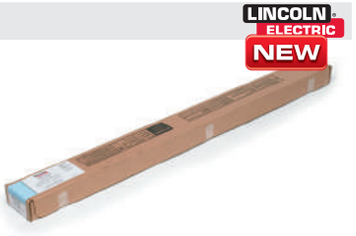
ITEM: LNT316 LSI

Classification:
AWS A5.9
EN ISO 14343-A
ER316LSi
W 19 12 3 LSi

TIG welding rod made of AISI 316 stainless steel. The high Si content promotes a regular shape and uniform appearance of the welding seam. The filler metal has a high resistance to crevice corrosion.

Tech. Code		J8184165	J8184205	J8184245
Ø	mm	1,6	2,0	2,4
Length	mm	1000	1000	1000
Weight	kg	5	5	5

TIG RODS FOR ALUMINIUM ALLOYS



ITEM: SUPERGLAZE 5356

Classification:
AWS A5.10
R5356
EN ISO 18273
S Al 5356 (AlMg5Cr(A))

Welding rods for TIG welding of weldable aluminium alloys. Excellent colour match after anodising. High-strength, general purpose filler material for 5XXX and 6XXX series alloys.

Tech. Code		J8186165	J8186205	J8186245
Ø	mm	1,6	2,0	2,4
Length	mm	1000	1000	1000
Weight	kg	5	5	5

80 WATT STYLUS WELDERS

ITEM: 8023C

High quality versatile welder, equipped with 360-degree LED to illuminate the work area in a focused manner. Ergonomic handle and integrated safety rest. Quick replacement of the tips.



Tech. Code		J8208000	J8208S10
Description		Welder	Screwdriver tip from 10 mm (3pz)
Power	W	80	-
Tension	V	230	-

SOLDERING STATIONS

ITEM: 3023C

Weller precision soldering station with variable power from 5 to 30 Watts. Ergonomic handle, tip cleaner, tip holder and integrated safety holder. 360 degree illumination provides focused and intense light. Easy replacement of the tips.



Tech. Code		J8213000	J8213S4	J8213C08
Description		Soldering station	Screwdriver tip from 4 mm (3 PZ)	Conical tip 0,8 mm (3 PZ)
Power	W	5 - 30	-	-
Tension	V	230	-	-

PROFESSIONAL STYLUS WELDING MACHINES 100 WATTS

ITEM: W101

Stylus welding machine from Weller's professional line. Power of 100 Watts and temperature up to 370°C, supplied with CT6E7 tip and safety backing. Equipped with Magnastat control it is ideal for the professional user. Max. temperature 370°C. Welding machine warm-up time ~ 50 sec.



Tech. Code		J8220100
Power	W	100
Voltage	V	230

PROFESSIONAL SOLDERING STATIONS

ITEM: WT1012 SET

Professional welding station consisting of WT1 control unit and WSP80 welder with WSR201 safety stand. High performance for a variety of applications. The menu structure allows intuitive operation of the control unit with backlit graphic LCD, OFF time, process window, block function and offset. Temperature range 50 to 450°C. Welding machine warm-up time ~ 10 sec. Small footprint.



Tech. Code		J822595
Power	W	(WT1) 95 - (WSP80) 80
Voltage	V	230

12V BATTERY WELDERS

ITEM: M12 SI-201C

Cordless welding machine M12 SI-201C with warm-up time of approx. 20 - 30 seconds. 3 head clamping positions (0°, 45°, 90°). Tips replaceable without tools. Two-colour LED lights up differently: flashing green when the tool is warming up, steady green when the tool is ready for use and steady red when the tool is off but the tip is still hot**(do not touch until the red LED has gone out**). Works with all Milwaukee® M12™ batteries.

Supplied with:
- 1 battery 12V da 2,0 Ah + 1 battery charger + carrying case



Tech. Code		J824012
Battery capacity	Ah	2
Weight with battery	kg	1,2
Heating power	W	90
Temperature range	°C	400
Battery charging time	min	40
Battery type		Li-ion
Voltage	V	12

DISSOLDERING PIPES

ITEM: J8250

Manual soldering pump for tin.



Tech. Code		J825000
Total length	mm	215

TIN ALLOY AT 50% IN WIRE COILS

ITEM: J8255



Tech. Code		J825510	J825515
Wire ø	mm	1	1,5
Reel	g	500	500

TIN ALLOY AT 50% IN RODS

ITEM: J8258

The tin is sold in 400 mm rods for a total weight of approximately 1 kg



Tech. Code		J8258400
Rods	mm	400
Weight	kg	approx. 1

CARTRIDGE GAS WELDER

PDF

ITEM: J8260

Piezoelectric ignition, gas preheating to weld even upside down. Supplied without cartridge.



Tech. Code	J826001	J8260R1
Description	Welder	Cartridge
	-	Propane/butane

QUALITY CONTROL OF WELDED JOINTS

SAF-FRO

PDF

ITEM: 1 - FLUXO S190 SOLVENTE

Cleaner for removing oil, dirt, paint, rust, moisture, and miscellaneous residues.
An optimal preventive cleaning in order to allow the penetrating agent to seep in without obstacles, even in the most microscopic crack, is essential for detecting defects.



Tech. Code		J8411400
Package		Spray can
Quantity	ml	500

QUALITY CONTROL OF WELDED JOINTS

SAF-FRO

PDF

ITEM: 2 - FLUXO P125 PENETRANTE

Penetrating product for application on surfaces to be inspected. Applied on wet surfaces, it seeps into gaps by capillary action.



Tech. Code		J8412400
Package		Spray can
Quantity	ml	500

QUALITY CONTROL OF WELDED JOINTS

SAF-FRO

ITEM: 3 - FLUXO R175 RIVELANTE

The developer absorbs and draws the penetrating agent left over in the gap to the surface, allowing the red colorations to be seen in contrast with the white background.

Tech. Code		J8414400
Package		Spray can
Quantity	ml	500



MULTIPURPOSE ANTI-ADHESIVES

L-TEC

ITEM: SLICK SPRAY

Multi-purpose anti-spatter SLICK SPRAY is a product that is used in all continuous wire welding and metalworking processes where there are glowing slag emissions.
SLICK SPRAY guarantees superior safety due to its special fully synthetic base and the absence of solvents. Silicon Free.
Slag at high temperature when in contact with the product does not develop harmful and polluting gases, thus safeguarding the operator's health.

Tech. Code		J8440400
Package		Spray can
Quantity	ml	400



ITEM: ANTISPATTER SLICK RTU

Ready-to-use fluid welding release agent. Transparent, solvent-free and Silicon free. Applied to the areas to be welded, it prevents slag and melt spatter from adhering and facilitates subsequent cleaning. SLICK RTU is used in all continuous wire welding, laser cutting and metalworking processes where there are glowing slag emissions. Fully synthetic and solvent-free base, it does not develop harmful and polluting gases, protecting the health of the operator and the environment.

Tech. Code		J844520
Package		Can
Quantity	L	20



MULTIPURPOSE ANTI-ADHESIVES

SAF-FRO

ITEM: SPRAYMIG H20

Protects torches and welding pieces, prevents adhesion to metallic parts at high temperatures. Ecological silicone-free and dichloromethane, non-flammable.

Tech. Code		J8425400
Package		Spray can
Quantity	ml	400



STANDARD TABLE
FACE SHIELDS, SHIELDS AND FILTERS FOR WELDING

EN 166	Specification for construction and performance of eye-protectors
EN 169	Filters for welding and related techniques
EN 170	Ultraviolet filters
EN 171	Infrared filters
EN 172	Solar filters for industrial use
EN 175	Protective Equipment for eyes and face protection during welding and related processes
EN 379	Automatic welding filters
EN 1731	Eyes and face protectors with net

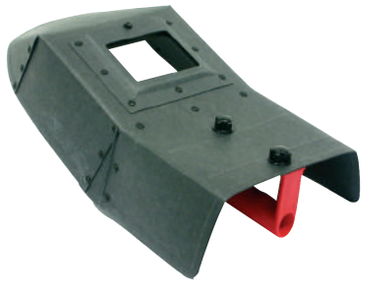


FACE SHIELDS FOR WELDING

ITEM: J8610

Cellulose fiber material with anti-reflective treatment, internal reinforcement, black.
EU standard reference - EN 175.

Tech. Code		J861010
Glass dimensions	mm	75 x 98
Weight	g	320



ITEM: J8612

Thermosetting material, non-flammable fiberglass, black.
EU standard reference - EN 175.

Tech. Code		J861210
Glass dimensions	mm	75 x 98
Weight	g	520



HELMET MASKS FOR WELDING

ITEM: J8616

Helmet mask for welding in polypropylene, colour red.
Supplied without glass.
EU standard reference - EN 175.

Tech. Code		J861610
Glass dimensions	mm	75 x 98
Weight	g	317



HELMET MASKS FOR WELDING WITH LIFTING GLASS-HOLDER

ITEM: J8618

Helmet mask for welding in polypropylene with lifting glass-holder colour red.
Supplied without glass.
EU standard reference - EN 175.

Tech. Code		J861810
Glass dimension	mm	75 x 98
Weight	g	397



HEADGEAR MASKS

ITEM: J8620

Headgear in thermoplastic material with replaceable sponge sweatband. Special rack and pin system for adjusting the circumference.



Tech. Code		J862011
Description		Replacement headgear for masks - for J8616 / J8618

ELECTRONIC WELDING MASKS

ITEM: EUROONE

Latest generation electronic auto-darkening welding mask. Suitable for a range of welding processes, MMA - MIG - MAG, and grinding.
Solar powered. No batteries required. Adjustable headgear with sweatband.
Included: 2 external protective lenses, 2 internal protective lenses and 1 sweatband.
Compliance: EN379 EN175 EN166

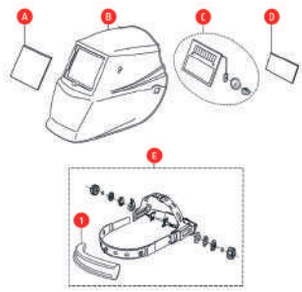
Variable shade: DIN 3.5/9-13
Light to dark switching time 0.06 ms
Arc sensors: 2
Cartridge size: 110 x 90 mm
Viewing area: 4,312 mm²



Tech. Code		J864010
Power supply		Solar powered
Weight	g	490

SPARE PARTS FOR EUROONE MASKS

ITEM: J8641



Tech. Code	J8641A	J8641B	J8641C
Description	Front lenses	Helmet	Auto darkening filter

Tech. Code	J8641D	J8641E	J86411
Description	Internal lenses	Headgear	Sweet band

ELECTRONIC WELDING MASKS

ITEM: TIGER TOP

Electronic masks for high performance welding, suitable for all welding processes. Equipped with a True Colour system that guarantees a true colour vision.
Adjustment of the DIN 5 9/9 13 filter
External control regulation and filter sensitivity
4 dimming sensor, weight 510 g
Dimming time 0.08 ms
EU reference standards EN175 EN379



Tech. Code	J865010	J865012	J865014	J865016
Description	Mask	Interior protection lenses (5pcs)	External protection lenses (10pcs)	Mask crucible

ELECTRO-VENTILATED MASKS

ITEM: J8660

Electro-ventilated respiratory and eye protection system. Portability makes it ideal in a variety of operating situations. Great comfort in welding and grinding operations. Equipped with a battery with a capacity of up to 8 hours continuous. In indoor environments it can be combined with a central vacuum system. 3-speed fan system with digital regulation and quick filter replacement. Self-darkening mask with 4 sensors.



Tech. Code		J866010
Filter type		TH3 P R SL
Filter efficiency level		99.99% = 0.3 µm
Battery		Rechargeable LI-ION 4400 mAh
Filter unit size	mm	240 x 165 x 70
Filter unit weight	kg	1,1

COLOURLESS MINERAL-GLASS FLAT PLATE

ITEM: J8670

Suitable for protecting adiactinic glass in welding masks.
EU standard reference - EN 166 - Colorless, thickness 2 mm



Tech. Code		J86701
Dimension	mm	75 x 98

ADIACTINIC MIRROR GLASS

ITEM: J8672

Chromed surface, suitable for welding masks used.
EU standard reference - EN 169 - Thickness 3 mm



Tech. Code		J867210	J867211	J867212
Degree		DIN 10 Light green	DIN 11 Medium green	DIN 12 Dark green
Dimension	mm	75 x 98	75 x 98	75 x 98

ADIACTINIC GLASS

ITEM: J8675

Suitable for welding masks.
EU standard reference - EN 169 - Thickness 3 mm



Tech. Code		J867509	J867510	J867511	J867512
Degree		DIN 9	DIN 10	DIN 11	DIN 12
Dimension	mm	75 x 98	75 x 98	75 x 98	75 x 98

STRUCTURE FOR WELDING PROTECTION CURTAINS

ITEM: J8710

Fixed frame for welding blinds. Suitable for blinds from the J8730 range

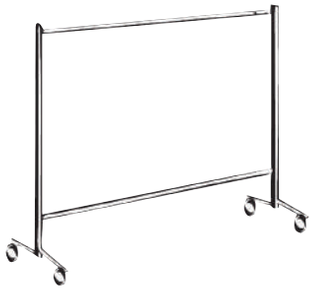


Tech. Code		J87102000
Dimension	mm	2000 x 1600 - H. tot 1900

MOBILE STRUCTURE FOR WELDING PROTECTION CURTAINS

ITEM: J8720

Mobile frame structure for welding blinds. Complete with 4 wheels, 2 of which with brakes. Suitable for blinds from the J8730 range



Tech. Code		J87202000
Dimension	mm	2000 x 1300 - H.tot 2000

PROTECTIVE BLINDS FOR WELDING

ITEM: J8730

One-piece welding protection blinds. Equipped with heat-sealed rings at the top. Hooks included.



Tech. Code		J87302000R	J87302000V
Dimension	mm	2000 x 1600 x 0,4	2000 x 1600 x 0,4
Colour		RED DIN 4	GREEN DIN 9

WODEX

" HANDsome "



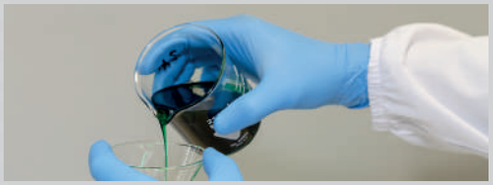
HIGH PROTECTION

SAFETY EQUIPMENT

K



3 - 9
Safety shoes



10 - 19
Safety gloves



20 - 23
Safety overalls and aprons



24 - 33
Safety glasses, helmets and headphones



34 - 37
Safety masks



38 - 43
Safety harnesses

WINTER WORK JACKET

ITEM: KYRA



The Kyra work jacket from U-Power is a garment designed to offer comfort and protection in all weather conditions.
Made from mechanical stretch soft shell fabric, this jacket features exceptional breathability, as well as being windproof and water-repellent, ensuring excellent protection against the weather.
The Kyra winter work jacket has two practical zipped front pockets, perfect for safely storing work items and tools. A highlight is the detachable cap, also with zip fastening, which offers additional versatility according to needs and weather conditions.
The jacket's pre-shaped sleeves ensure an optimal fit, following the body's natural movement and increasing comfort during work activities.
Reflex inserts positioned at elbow height improve visibility and safety in low-light environments.
Work jacket suitable for transport and logistics, building and construction, service and industry.

Tech. Code	K0101S	K0101M	K0101L	K0101XL
Size	S	M	L	XL

Tech. Code	K01012XL	K01013XL	K01014XL	K01015XL
Size	2XL	3XL	4XL	5XL

MULTI-POCKET WORK WAISTCOAT

ITEM: DUBLINO



Dublin is a work waistcoat suitable for professionals looking for a high-quality, functional garment. Made of soft shell mechanical stretch fabric, this U-Power work waistcoat offers excellent breathability and protection properties, being both windproof and water-repellent.
This multi-pocketed work waistcoat has two zipped front pockets, perfect for storing tools and items in a safe and accessible manner. An adjustable drawstring and shaped hem further enhance the fit, allowing for customised adjustment and maximising comfort.
It is particularly suitable for sectors such as transport and logistics, building and construction, service and industry, where weather resistance and practicality are essential.

Tech. Code	K0102S	K0102M	K0102L	K0102XL
Size	S	M	L	XL

Tech. Code	K01022XL	K01023XL	K01024XL	K01025XL
Size	2XL	3XL	4XL	5XL

GAUZED POLYCOTTON WORK SWEATSHIRT

ITEM: TAUTRA



Tautra is a U-Power half-zip work sweatshirt that combines comfort and durability without neglecting the distinctive touch of modern design.
The work sweatshirt is made of gauzed polycotton, which guarantees a soft feel and ensures durability, even after intensive washing.
The zipped collar adds a touch of versatility, allowing the temperature to be adjusted to suit different needs. Stretch rib cuffs and hem, twill neck tape, and riveted seams contribute to the sweatshirt's modern design.
Ideal for service, industry, agriculture, gardening, transport and logistics.

Tech. Code	K0103S	K0103M	K0103L	K0103XL
Size	S	M	L	XL

Tech. Code	K01032XL	K01033XL	K01034XL	K01035XL
Size	2XL	3XL	4XL	5XL

STRETCH COTTON WORK TROUSERS

ITEM: GUAPO



Stretch cotton work trousers. Equipped with two large multifunctional side pockets, two front pockets and one back pocket.
Central zip and scratch-resistant rubberized button fastening. Elasticated waistband and accentuated back yoke for greater protection of the lumbar region.
Pre-shaped knees for greater comfort.
Red/reflex tape on rear tubular loop and hammer webbing.
Heel counter with wear-resistant reinforcement fabric.
Slim-fit fit.

Tech. Code	K0104S	K0104M	K0104L	K0104XL
Size	S	M	L	XL

Tech. Code	K01042XL	K01043XL	K01044XL	K01045XL
Size	2XL	3XL	4XL	5XL

REGULATORY LEGEND SAFETY FOOTWEAR

	Safety specifications	Requirements	Marcatura									
			SB	S1	S2	S3	S3L	S3S	S6	S7	S7L	S7S
P	Puncture resistance (with metal anti-puncture insert)	≥1100 N	-	○	-	●	-	-	-	●	-	-
PL	Puncture resistance (with PL type non-metallic anti-puncture insert)	At 1100 N no perforation	-	○	-	-	●	-	-	-	●	-
PS	Puncture resistance (with PS type non-metallic anti-puncture insert)	Average drilling force ≥1100 N Single punching force ≥950 N	-	○	-	-	-	●	-	-	-	●
C	Partially conductive footwear	Electrical resistance ≤100 kΩ	○	-	-	-	-	-	-	-	-	-
A	Anti-static footwear	Electrical resistance >100 kΩ and ≤1000 mΩ	○	●	●	●	●	●	●	●	●	●
HI	Bottom heat insulation	Temperature increase after 30 minutes to 150 °C ≤22 °C	○	○	○	○	○	○	○	○	○	○
CI	Bottom insulation from the cold	Temperature decrease after 30 minutes to -17 °C ≤10 °C	○	○	○	○	○	○	○	○	○	○
E	Energy absorption in the heel area	Energy absorbed ≥20 J	○	●	●	●	●	●	●	●	●	●
WR	Water resistance of the complete shoe	No water penetration	○	○	-	-	-	-	●	●	●	●
M	Metatarsal protection (requirement not applicable to work footwear in accordance with EN ISO 20347:2022)	Residual height after impact: size 36 and below ≥37.0 mm size 37 and 38 ≥38.0 mm measures 39 and 40 ≥39.0 mm size 41 and 42 ≥40.0 mm size 43 and 44 ≥40.5 mm size 45 and above ≥41.0 mm	○	○	○	○	○	○	○	○	○	○
AN	Ankle protection	Energy transmitted: average value ≥10 kN single value ≥15 kN	○	○	○	○	○	○	○	○	○	○
CR	Cut resistance	Shear strength index ≥2.5	○	○	○	○	○	○	○	○	○	○
SC	Abrasion resistance of the toe cap	No through holes after 8000 abrasion cycles	○	○	○	○	○	○	○	○	○	○
SR	Slip resistance (ceramic top covered with glycerin)	≥0.19 (7° heel) ≥0.22 (7° tip)	○	○	○	○	○	○	○	○	○	○
WPA	Water absorption and penetration of the upper	Absorption ≥30% Penetration ≥0.2 g	○	-	●	●	●	●	●	●	●	●
HRO	Heat resistance due to contact with the sole (ONLY for footwear with rubber sole)	No signs of fusion and/or breakage	○	○	○	○	○	○	○	○	○	○
FO	Resistance to hydrocarbons of the sole	Volume increase 12%	○	○	○	○	○	○	○	○	○	○
LG	Footwear suitable for ladders	Abrasion resistance of the fabric and dimensions of the fabric suitable for use on ladders	○	○	○	○	○	○	○	○	○	○

● = Mandatory requirement ○ = Optional requirement - = Requirement not foreseen

EN ISO 20344* EN 344	Test methods for footwear
EN ISO 20345:2022	Safety footwear with toe cap that resists impacts with a force of up to 200 J - compressions of up to 15 kN (CATEGORY S)
EN ISO 20347* EN 347	Work shoes without toe caps
EN ISO 17249	Safety footwear with resistance to chain saw cuts
EN ISO 13287	Test method for slip resistance

* PPE certified since 2006

S1P	S1 + P Ø = 4.5 mm
S1PL	S1 + PL Ø = 4.5 mm
S1PS	S1 + PS Ø = 3 mm
S3	S2 + P Ø = 4.5 mm + sole with reliefs
S3L	S2 + PL Ø = 4.5 mm + sole with reliefs
S3S	S2 + PS Ø = 3 mm + sole with reliefs

ICON LEGEND SAFETY FOOTWEAR

- Tip 200 joules
- Anti-static sole
- Energy absorption in the heel
- Sole resistance to hydrocarbons
- Waterproof upper
- HRO 300°
- Breathable upper
- Anti-puncture insole
- S1P — Security requirements S1P
- S1PS — S1PS safety requirements
- S1PL — S1PL safety requirements
- S3 — S3 security requirements
- S3S — S3S security requirements
- S3L — S3L security requirements
- S5 — S5 Security Requirements
- ESD — Electrostatic discharge protection


U.Power®
Don't worry... be happy!
EGO

SAFETY SHOES

ITEM: EGON

Safety shoes with increased Infinergy® system with over 55% energy return with each step. Breathable nylon microfibre suede upper with polyurethane toe cap. Aluminium toe cap, anti-puncture, anti-slip and PU/PU infinergy sole, S1PS SRC CI ESD. Lining Soft white calfskin, breathable and antibacterial U-POWER original footbed cover.
Protection class S1PS



Tech. Code	EU Size	UK Size
K181637	37	4
K181638	38	5
K181639	39	6
K181640	40	6 1/2
K181641	41	7
K181642	42	8
K181643	43	9
K181644	44	10
K181645	45	10 1/2
K181646	46	11
K181647	47	12

SAFETY SHOES

ITEM: FRANK

Super lightweight safety shoes, breathable nylon upper and anti-abrasion film toe protection. Aluminium toe cap, innovative ultra-lightweight anti-puncture textile insole and anti-abrasion, anti-oil, anti-slip and anti-static PU compound tread. Soft PU foam midsole. S1PS SRC CI ESD. Breathable Wingtex® air tunnel lining, U-Power Original footbed cover.
Protection class S1PS



Tech. Code	EU Size	UK Size
K181437	37	4
K181438	38	5
K181439	39	6
K181440	40	6 1/2
K181441	41	7
K181442	42	8
K181443	43	9
K181444	44	10
K181445	45	10 1/2
K181446	46	11
K181447	47	12

ITEM: NEGAN

U-Power safety shoes of the Red 360 line, upper in ultra-breathable nylon and soft suede leather, collar with Lycra® fibre fabric and anti-shock heel. Aluminium toe cap, anti-puncture, anti-slip and PU/PU infinergy sole, S1PS SRC CI ESD. Breathable air tunnel Wingtex® lining, WOW footbed cover. Soft PU foam midsole and Infinergy®.
Protection class S1PS



Tech. Code	EU Size	UK Size
K181137	37	4
K181138	38	5
K181139	39	6
K181140	40	6 1/2
K181141	41	7
K181142	42	8
K181143	43	9
K181144	44	10
K181145	45	10 1/2
K181146	46	11
K181147	47	12

NEW

ITEM: ATON

RED EGO safety shoes, sole made of EVA Extract Essence, a new generation material that is more resilient, more comfortable and benefits from less weight than traditional EVA.
The RED EGO rubber tread resists heat from contacts (HRO), while the FiberToe toe cap makes the range metal free. Laser-treated stretch U-KNIT upper, FiberToe toecap, ultra-lightweight anti-puncture insole and U-power original footbed cover.
Protection class S1PS



Tech. Code	EU Size	UK Size
K181737	37	4
K181738	38	5
K181739	39	6
K181740	40	6,5
K181741	41	7
K181742	42	8
K181743	43	9
K181744	44	10
K181745	45	10,5
K181746	46	11
K181747	47	12

ITEM: POINT

U-Power safety shoes of the Red Lion line, upper in ultra-breathable nylon and soft suede leather. Aluminium toe cap, anti-puncture, anti-slip and PU/PU infinergy sole, S1PS SRC CI ESD. Breathable air tunnel Wingtex® lining, WOW footbed cover. Soft PU foam midsole and Infinergy®.
Protection class S1PS



Tech. Code	EU Size	UK Size
K181237	37	4
K181238	38	5
K181239	39	6
K181240	40	6 1/2
K181241	41	7
K181242	42	8
K181243	43	9
K181244	44	10
K181245	45	10 1/2
K181246	46	11
K181247	47	12

NEW

ITEM: FITZ

RED EGO safety shoes, sole made of EVA Extract Essence, a new generation material that is more resilient, more comfortable and benefits from less weight than traditional EVA.
The RED EGO rubber tread resists heat from contacts (HRO), while the FiberToe toe cap makes the range metal free. Laser-treated stretch U-KNIT upper, FiberToe toecap, ultra-lightweight anti-puncture insole and U-power original footbed cover.
Protection class S1PS



Tech. Code	EU Size	UK Size
K181837	37	4
K181838	38	5
K181839	39	6
K181840	40	6,5
K181841	41	7
K181842	42	8
K181843	43	9
K181844	44	10
K181845	45	10,5
K181846	46	11
K181847	47	12

SAFETY SHOES

NEW

S1PS ESD

ITEM: DENVER

Safety footwear with upper in soft perforated suede leather.
Upper with mesh inserts and WingTex inner lining with air channels for breathability and foot health.
Very light and breathable with WOW2 footbed.
Protection is guaranteed by the Airtoe Composite toe cap and the Save & Flex Plus totally "Metal Free" anti-puncture system.
Protection class S1PS



Tech. Code	EU Size	UK Size
K182237	37	4
K182238	38	5
K182239	39	6
K182240	40	6 1/2
K182241	41	7
K182242	42	8
K182243	43	9
K182244	44	10
K182245	45	10 1/2
K182246	46	11
K182247	47	12

SAFETY SHOES

NEW

S1P

ITEM: MOVIDA

Safe low safety shoes, with perforated suede upper and highly breathable 3D lining, steel toe cap, anti-puncture.
Compact PU tread abrasion-resistant, oil-resistant, anti-slip and antistatic.
Ergonomic steel toe cap and PU/PU sole.
Protection class S1P



Tech. Code	EU Size	UK Size
K182437	37	4
K182438	38	5
K182439	39	6
K182440	40	6,5
K182441	41	7
K182442	42	8
K182443	43	9
K182444	44	10
K182445	45	10,5
K182446	46	11
K182447	47	12

S1PS ESD

ITEM: NAIROBI

U-Power safety shoes of the Red 360 line, upper in ultra-breathable nylon and soft suede leather. Lightweight composite toe cap, anti-puncture and anti-slip, anti-oil PU/PU infinergy sole, S1PS SRC CI ESD. Breathable air tunnel Wingtex® lining, WOW2 footbed cover with anti-fatigue insert. Soft PU foam midsole.
Protection class S1PS



Tech. Code	EU Size	UK Size
K181537	37	4
K181538	38	5
K181539	39	6
K181540	40	6 1/2
K181541	41	7
K181542	42	8
K181543	43	9
K181544	44	10
K181545	45	10 1/2
K181546	46	11
K181547	47	12

S3S ESD

ITEM: NAOS

Safety shoes U-Power Red 360 line, upper in water-repellent tumbled natural nubuck leather, collar with Lycra® fibre fabric and anti-shock heel. Aluminium toe cap, anti-puncture, anti-slip and PU/PU infinergy sole, S3S SRC CI ESD. Breathable air tunnel Wingtex® lining, WOW footbed cover. Soft PU foam midsole and Infinergy®.
Protection class S3S



Tech. Code	EU Size	UK Size
K181037	37	4
K181038	38	5
K181039	39	6
K181040	40	6 1/2
K181041	41	7
K181042	42	8
K181043	43	9
K181044	44	10
K181045	45	10 1/2
K181046	46	11
K181047	47	12

S1PS ESD

NEW

ITEM: TAYLOR

Breathable shoes with upper in soft perforated suede leather and polyurethane reinforcement toecap.
Totally "Metal Free" safety footwear with Save & Flex Plus anti-puncture system.
Composite toe cap that provides all the necessary safety at work in only about 50gr. of weight.
Non-slip work shoes with anti-abrasion, anti-oil and anti-static compact PU tread.
Protection class S1PS



Tech. Code	EU Size	UK Size
K182337	37	4
K182338	38	5
K182339	39	6
K182340	40	6 1/2
K182341	41	7
K182342	42	8
K182343	43	9
K182344	44	10
K182345	45	10 1/2
K182346	46	11
K182347	47	12

S3S ESD

ITEM: HUMMER

Safety shoes U-Power Red Lion line, upper in water-repellent tumbled natural Nubuck leather.
Aluminium toe cap, anti-puncture, anti-slip and PU/PU infinergy sole, S3S SRC CI ESD. Breathable air tunnel Wingtex® lining, WOW footbed cover.
Soft PU foam midsole and Infinergy®.
Protection class S3S



Tech. Code	EU Size	UK Size
K181337	37	4
K181338	38	5
K181339	39	6
K181340	40	6 1/2
K181341	41	7
K181342	42	8
K181343	43	9
K181344	44	10
K181345	45	10 1/2
K181346	46	11
K181347	47	12

SAFETY SHOES

NEW

ITEM: YODA

Low, lightweight safety shoes with uppers in tumbled natural nubuck leather.
Breathable, water-repellent footwear with aluminium toecap, anti-puncture, anti-slip.
AirToe Aluminium toe cap, impact resistant.
Puncture-resistant insole. Infinergy®.
Protection class S3S



Tech. Code	EU Size	UK Size
K182537	37	4
K182538	38	5
K182539	39	6
K182540	40	6,5
K182541	41	7
K182542	42	8
K182543	43	9
K182544	44	10
K182545	45	10,5
K182546	46	11
K182547	47	12

SAFETY SHOES

NEW

ITEM: JACKSON

Abrasion resistant safety shoes with Putek Plus upper.
Compact PU tread and anti-slip, anti-oil, anti-abrasion and anti-static outsole.
Totally metal-free work shoes with Save & Flex Plus anti-puncture system and Airtoe composite toecap weighing only 50 g.
Sole protection against cold (At temp. ≤ 10 °C).
Protection class S3S



Tech. Code	EU Size	UK Size
K182137	37	4
K182138	38	5
K182139	39	6
K182140	40	6 1/2
K182141	41	7
K182142	42	8
K182143	43	9
K182144	44	10
K182145	45	10 1/2
K182146	46	11
K182147	47	12

NEW

ITEM: PHOENIX

RED EGO safety shoes, sole made of EVA Extract Essence, a new generation material that is more resilient, more comfortable and benefits from less weight than traditional EVA.
The RED EGO rubber tread resists heat from contacts (HRO), while the FiberToe toe cap makes the range metal free. Microfiber upper with Nubuck effect, water-repellent. FiberToe toecap, ultra-lightweight anti-puncture insole and U-power original footbed cover.
Protection class S3S



Tech. Code	EU Size	UK Size
K182037	37	4
K182039	39	6
K182040	40	6,5
K182041	41	7
K182042	42	8
K182043	43	9
K182044	44	10
K182045	45	10,5
K182046	46	11
K182047	47	12

NEW

ITEM: ARYA

A line designed for those who want to face each day with energy, freedom of movement and unprecedented well-being.
Every step is lighter and more efficient: a shoe that supports movement and multiplies its energy.
Laser-treated stretch U-KNIT upper + soft suede leather, NanoFiber toe cap. Ultra-lightweight anti-puncture insole, U-Power Original footbed cover.
Super Critical Technology outsole + HRO rubber
Protection class S1PS



Tech. Code	EU Size	UK Size
K182737	37	4
K182738	38	5
K182739	39	6
K182740	40	6,5
K182741	41	7
K182742	42	8
K182743	43	9
K182744	44	10
K182745	45	10,5
K182746	46	11
K182747	47	12

NEW

ITEM: STINGER

RED EGO safety shoes, sole made of EVA Extract Essence, a new generation material that is more resilient, more comfortable and benefits from less weight than traditional EVA. The RED EGO rubber tread resists heat from contacts (HRO), while the FiberToe toe cap makes the range metal free. Highly abrasion-resistant, water-repellent and breathable Putek hexagon upper, FiberToe toe cap, ultra-lightweight anti-puncture insole and U-power original footbed cover.
Protection class S3S



Tech. Code	EU Size	UK Size
K181937	37	4
K181938	38	5
K181939	39	6
K181940	40	6,5
K181941	41	7
K181942	42	8
K181943	43	9
K181944	44	10
K181945	45	10,5
K181946	46	11
K181947	47	12

WELDING SHOES

ITEM: BULLS

High welder's footwear with upper in water-repellent mina grain leather, Composite toe cap, ergonomic, anti-slip steel sheet and PU/VIBRAM sole,S3 HRO HI SRC. Breathable air-tunnel WingTex lining, Ergo Dry anatomic footbed cover, breathable, anti-abrasion fabric.
EU REGULATION: EN ISO 20345:2011
Protection class S3



Tech. Code	EU Size	UK Size
K173138	38	5
K173139	39	6
K173140	40	6 1/2
K173141	41	7
K173142	42	8
K173143	43	9
K173144	44	10
K173145	45	10 1/2
K173146	46	11
K173147	47	12


GLOVE MDS
UTILITY
DIADORA
MASS DAMPER
BOA
DIALED IN.
PRECISION FIT.
VORTEX DA2 BOA

SAFETY SHOES S3S

NEW

ITEM: GLOVE MDS LOW FO HRO SR

Low water-repellent safety footwear in nubuck cow leather.
Aluminium 200J toecap.
K-SOLE anti-puncture insert. Size 11.
Air Mesh lining with microfibre anti-slip.
Removable microperforated PU foam footbed with open cells, breathable with activated carbons.
Protection class S3S.



Tech. Code	EU Size	UK Size
K172138	38	5
K172139	39	6
K172140	40	6 1/2
K172141	41	7
K172142	42	8
K172143	43	9
K172144	44	10
K172145	45	10 1/2
K172146	46	11

SAFETY SHOES

NEW

ITEM: RUN TEXT LOW

Low safety footwear in cow suede leather and polyester fabric.
Steel toecap 200J.
K-SOLE anti-puncture insert. Size 10.
D-Light technology and Air Mesh lining.
Anatomical microperforated, anti-static removable footbed in recycled open-cell PU foam, breathable with activated carbons.
Protection class S1PS.



Tech. Code	EU Size	UK Size
K172638	38	5
K172639	39	6
K172640	40	6 1/2
K172641	41	7
K172642	42	8
K172643	43	9
K172644	44	10
K172645	45	10 1/2
K172646	46	11

NEW

ITEM: GLOVE TEXT LOW

Low safety footwear in cow suede leather and recycled polyester fabric.
Aluminium 200J toecap.
K-SOLE anti-puncture insert. Size 11.
Air Mesh lining with microfibre anti-slip, removable breathable PU footbed with activated carbons.
Protection class S1PS.



Tech. Code	EU Size	UK Size
K172238	38	5
K172239	39	6
K172240	40	6 1/2
K172241	41	7
K172242	42	8
K172243	43	9
K172244	44	10
K172245	45	10 1/2
K172246	46	11

NEW

ITEM: VORTEX DA2 BOA LOW

Low water-repellent safety footwear in technical polyester fabric, equipped with BOA® Fit System for a precise micro-adjustable fit.
Aluminium 200J toecap.
K-SOLE anti-puncture insert. Size 11.
Toe and heel with polyurethane reinforcement applied with 3D print technology.
Anatomical microperforated, removable footbed in open-cell PU foam, breathable with activated carbons.
Protection class S3S.



Tech. Code	EU Size	UK Size
K172838	38	5
K172839	39	6
K172840	40	6 1/2
K172841	41	7
K172842	42	8
K172843	43	9
K172844	44	10
K172845	45	10 1/2
K172846	46	11

NEW

ITEM: GLOVE LOW

Suede cow leather low safety shoe.
Aluminium toe cap 200J.
K-SOLE anti-puncture insert. Size 10.
Air Mesh lining and breathable PU removable footbed with activated carbons.
Protection class S1PS.



Tech. Code	EU Size	UK Size
K172338	38	5
K172339	39	6
K172340	40	6 1/2
K172341	41	7
K172342	42	8
K172343	43	9
K172344	44	10
K172345	45	10 1/2
K172346	46	11

NEW

ITEM: RUN A.BOX LOW FO SR

Low safety footwear in suede cow leather and breathable polyester mesh.
Aluminium 200J toecap.
K-SOLE ultralite anti-puncture insert. Size 11.
Diadora A.Box System technology with lateral breathability and Ariatex membrane
Air Mesh lining with microfibre anti-slip.
Removable microperforated PU footbed, breathable with activated carbons.
Protection class S1PS.



Tech. Code	EU Size	UK Size
K172938	38	5
K172939	39	6
K172940	40	6 1/2
K172941	41	7
K172942	42	8
K172943	43	9
K172944	44	10
K172945	45	10 1/2
K172946	46	11

GLOVES
STANDARD LEGEND


abcdef

EN 407 - THERMAL RISKS

Protective gloves against one or more of the following: fire, contact heat, convective heat, radiant heat, small splashes or large projections of molten metal.

a	Fire behaviour (level 0 to 4)
b	Contact heat (level 0 to 4)
c	Convective heat (level 0 to 4)
d	Radiant heat (level 0 to 4)
e	Small splashes of molten metal (level 0 to 4)
f	Large projections of molten metal (level 0 to 4)
0	The gloves did not pass the specific test
X	The gloves have not been tested

Performance	Contact temperature
1	100°C
2	250°C
3	350°C
4	500°C



EN 1082-1 - GLOVES AND SLEEVES AGAINST CUTS CAUSED BY HAND KNIVES

Particularly suitable for use with hand knives in the meat processing industry, large-scale catering and manual boning of meat. Suitable for people working with hand knives in industry.



EN 374 - PROTECTIVE GLOVES AGAINST MICRO-ORGANISMS

Protective gloves against chemicals and/or micro-organisms.

EN 374-1	Terminology and performance requirements
EN 374-2	Penetration resistance
EN 374-3	Permeation resistance
EN 374-4	Resistance to degradation

WATER-RESISTANT, LOW CHEMICAL PROTECTION GLOVES

The EN ISO version of the standard introduces the notion of three types of chemical protective gloves:

EN/ISO 374-1:2016/Type A

Type **A** gloves have achieved level 2 or higher against **six** of the chemicals listed in EN ISO 374-1 (see table on TESTING CHEMICALS). As a minimum, the six tested chemicals must be identified by their code letters under the pictogram.

EN/ISO 374-1:2016/Type B

Type **B** gloves have achieved level 2 or higher against at least **three** of the chemicals listed in EN ISO 374-1. Tested chemicals must be identified by their code letter in the pictogram.

EN/ISO 374-1:2016/Type C

Type **C** gloves shall have achieved at least level 1 against **one** of that chemical listed in EN ISO 374-1. For each of the three categories, reference shall be made to EN 374-1 and the type of glove shall be listed. If chemicals not listed in EN ISO 374-1 have also been tested, these may be detailed in the instructions for use.

Gloves tested for penetration resistance only, for use with non-hazardous chemicals.

PROTECTIVE GLOVES AGAINST CHEMICAL AGENTS

The time between the initial application of a test chemical to the outer surface of the glove material and its subsequent appearance on the other side is the breakthrough time.

Permeation index	Passage time (min)
1	>10
2	>30
3	>60
4	>120
5	>240
6	>480


abcdef

EN 388 : 2016 - MECHANICAL RISKS

Protective gloves against mechanical risks, abrasion, cutting by blade, laceration and perforation.

With the new standard, new tests have been introduced that improve the effectiveness of the standard, one of which is the shear strength test.
The test consists of a continuous change of blade which allows the real cutting assessment to be made compared to previous tests.
The real cut rating therefore changes from a definition in 5 levels expressed in numbers to a rating in Newtons expressed in 6 letters (from A to F).

Performance	1	2	3	4	5
a - Abrasion (cycles)	100	500	2000	8000	-
b - Blade cutting	1.2	2.5	5	10	20
c - Tear (N)	10	25	50	75	-
d - Perforation (N)	20	60	100	150	-
e - EN ISO cutting (level A to F)					
f - Impact					

The new EN 13594:2015 test allows the declaration of impact protection at the joints and fingers. If the glove passes the test, the letter P is added after the five letters of the pictogram.

Shear strength test	Applied force (N)
Liv. A	2
Liv. B	5
Liv. C	10
Liv. D	15
Liv. E	22
Liv. F	30

Where X is indicated it means that the test is not relevant for that type of resistance.



PROTECTIVE GLOVES AGAINST MICRO-ORGANISMS

Gloves that resist penetration, when tested according to EN 374-3, provide an effective barrier against fungi and bacteria, not viruses.

TESTING CHEMICALS

	Product	Class
A	Methanol	Primary alcohol
B	Acetone	Ketone
C	Acetonitrile	Nitrile compound
D	Dichloromethane	Chlorinated paraffin
E	Carbon disulphide	Sulphur containing organic compound
F	Toluene	Aromatic hydrocarbon
G	Diethylamine	Amina
H	Tetrahydrofuran	Compound of electrocyclic and ether
I	Ethyl acetate	External
J	n-heptane	Saturated hydrocarbon
K	Sodium hydroxide 40%	Inorganic base
L	Sulphuric acid 96%	Inorganic mineral acid
M	Nitric Acid 65%	Mineral Acid
N	Acetic acid 99%	Organic Acid
O	Ammonia 25%	Organic Base
P	Hydrogen peroxide 30%	Peroxide
S	Hydrofluoric acid 40%	Inorganic mineral acid
T	Formaldehyde 37%	Aldehyde


VIRUS

EN ISO 374-5 VIRUS

An additional viral penetration test must be carried out for protection against viruses. If the gloves pass this additional test, the word 'Virus' is added under the pictogram.

SELECTION AND GLOVE LEGEND

		PAG K.	NORMATIVE				APPLICATION SELECTION							
			EN 407	EN 388	EN 374	EN 374-5 VIRUS								
K2102		12		●					●			●	●	●
K2110		12		●					●			●	●	
K2125		12		●					●	●		●		
K2142	NEW	12	●	●					●	●		●		
K2114		12	●	●					●	●				
K2150		12	●	●					●	●		●		
K2181		13	●	●					●	●				
K2180		13		●					●			●		
K2217		13		●					●			●	●	●
K2215		13		●					●			●	●	●
K2213		13		●							●	●		●
K2230		13		●					●			●		●
K2313		14		●							●	●		
K2351	NEW	14	●	●							●			●
K2317		14		●							●	●		
K2318		14		●							●	●		
K2321		14		●							●	●		
K2200	NEW	14	●	●					●		●		●	●
K2519	NEW	15		●							●			●
K2225		15		●							●	●		●
K2302		15		●				●	●			●		●
K2324		15		●							●	●	●	●
K2325		15		●							●	●	●	●
K2329	NEW	15		●					●					●
K2201	NEW	16	●	●					●			●		●
K2202	NEW	16	●	●					●					●
K2335		16		●							●	●		
K2337		16		●					●		●	●	●	●
K2350	NEW	16		●								●		●
K2203	NEW	16	●	●					●					●
K2348	NEW	17		●							●	●		
K2349	NEW	17		●							●	●		
K2330		17		●							●	●		
K2402		17		●	●	●	●	●						
K2400		17		●	●	●	●	●						●
K2516		17			●		●	●	●				●	●
K2513		19		●	●	●	●	●	●		●		●	●
K2517		19		●	●	●	●	●	●					●
K2521	NEW	19			●	●		●	●	●				●
K2501		19			●	●		●	●		●			
K2502		19			●	●		●	●		●			
K2610		19										●		

● RECOMMENDED FOR... ○ USABLE FOR...

RecommendedRecommended for processing chemicals

Recommended for work building maintenance

Recommended for machining general

Recommended for machining welding

Recommended for processing in a food environment

Recommended for working with oils and greases

Recommended for machining with precision assemblies

Recommended for working with water

COWHIDE GRAIN LEATHER GLOVES

3142X

ITEM: WX8420

Cowhide grain gloves, hemmed wrist and internal elastic wrist strap.
Reinforced thumb and index finger. White colour.



Tech. Code	Size	EU size
K210208	L	8
K210209	XL	9
K210210	XXL	10
K210211	XXXL	11

RUMP CRUST GLOVES FOR WELDERS

NEW

4134X 412X4X

ITEM: FLAME

Fully lined gloves with flame retardant fabric inner support, seam-saving threads and 14 cm sleeve.
Contact heat resistance up to 250° C
Red colour.
Complies with EN 12477 - Type A
EN ISO 21420:2020+A1:2004; EN 407:2020
This model is available in packs of 12 pairs.



Tech. Code	EU size
K214209	9
K214210	10
K214211	11

COWHIDE GRAIN SPLIT LEATHER GLOVES

2132X

ITEM: 12110

Palm in flower cowhide grain leather and crust leather back, inner elastic wrist wrap.
White colour.



Tech. Code	EU size
K21107	7
K21108	8
K21109	9
K211010	10
K211011	11

HEAT RESISTANT GLOVES IN SPLIT FLEECE WITH KEVLAR SEAMS

4244B 423X4X

ITEM: 14909

Top quality heat resistant split leather gloves, internally lined in 100% cotton, reinforced stitching in Kevlar thread. It is recommended for welding activities, especially when handling hot objects is required.
Black colour.
Safety category: II



Tech. Code	Size	Eu size	Length
K211410	XXL	10	35

RUMP SPLIT GLOVES

4132X

ITEM: 10100E

Hand-breadth and thumb reinforced, rump split cuff. Arm guard length 7cm.
Grey color.



Tech. Code	Size	EU size	Arm guard cm
K212510	XXL	10	7

WORK GLOVES HEAT RESISTANT CRUSADER FLEX®

2241B X2XXXX

ITEM: 42-445 42-474

Gloves designed for the intermittent handling of hot objects up to 180°C, they provide excellent grip when handling dry or oily surfaces and have an absorbent non-woven felt liner.
Grey colour.



Tech. Code	Size	EU size	Length cm
K21501024	XL	10	24
K21501033	XL	10	33

WELDING GLOVES IN SHEEP SKIN/COWHIDE LEATHER

2122X 412X3X

ITEM: K2181

Gloves for welding TIG in sheepskin with cowhide cuffs. They protects the hands from abrasions, blade cuts, tears and perforations from nails, splinters, thorns. Resistance to contact heat (up to 100°C), excellent fire proof behavior, with contact times with fire up to a maximum of 15 seconds. Resistant to convective heat and small splashes of molten metal.
White colour



Tech. Code	EU size
K218110	10
K218111	11

GLOVES COTTON KNIT COATED IN NBR

4221B

ITEM: G61

Protective gloves 5-fingers cotton knit coated in NBR, covered back, canvas cuff. Blue colour.
Gloves suitable for the following processes: maintenance / assembly / light manipulation work



Tech. Code	Size	EU size
K22159	L	9
K221510	XL	10

COWHIDE GRAIN LEATHER/COTTON GLOVES

2121X

ITEM: K2180

Leather gloves with cowhide grain palm and back in stretch cotton knit, elastic tightened wrist with adjustable strap closure with velcro. Each size differs in the colour of the elasticated back. They offer high sensitivity to the wearer, the gloves are also very breathable and the cuffs with velcro allow the gloves to stay perfectly tight on the wrist.



Tech. Code	Size	EU Size	Colour
K218009	XL	9	giallo
K218010	XXL	10	rosso

CONTINUOUS WIRE GLOVES TOTAL GRIP NBR

4122X

ITEM: K2213

13 gauge continuous filament gloves completely covered in nitrile with non-slip coating and superior grip even in the presence of oils or greases. Excellent abrasion resistance with eleaticated wrist. Colour Black/yellow



Tech. Code	Size	EU size
K221308	M	8
K221309	L	9
K221310	XL	10

GLOVES COATED IN NBR ACTIVARMR® HYCRON®

4121B

ITEM: 27-805

Coated gloves with cotton jersey lining completely coated in NBR. Superior resistance to sharp and abrasive materials. Antistatic and silicone free.
Wrist: safety cuff.
Colour Blue
It also offers an excellent barrier to grease and oil; it doesn't degrade like leather or cotton.



Tech. Code	Size	EU size
K221709	XL	9
K221710	XXL	10

ACTIVARMR® COTTON AND NITRILE GLOVES

4111A

ITEM: 47-401

Gloves with 100% cotton interlock liner with knitted elastic wrist, 3/4 coated palm in yellow nitrile and ventilated back.
Excellent dexterity and flexibility, excellent abrasion resistance.
Equipped with excellent oil repellence.
Recommended for assembly and handling of light metal parts.



Tech. Code	EU size
K223007	7
K223008	8
K223009	9
K223010	10

GLOVES IN CONTINUOUS NYLON WIRE COATED IN POLYURETHANE

4131X

ITEM: 30815

Polyurethane coated palm, stretch knit wrist, ventilated back, recommended for precision tasks where high sensitivity is required. Black color.



Tech. Code	Size	EU size
K231306	S	6
K231307	M	7
K231308	L	8
K231309	XL	9
K231310	XXL	10

POLYESTER GLOVES POLYURETHANE COATED

2121X

ITEM: WX8410

Polyester gloves polyurethane coated, ventilated back, elasticated wrist. Recommended for precision operations where high sensitivity is required.
Colour Black



Tech. Code	Size	Eu size
K231806	S	6
K231807	M	7
K231808	L	8
K231809	XL	9
K231810	XXL	10

NITRILE-COATED NYLON-POLYESTER GLOVES

NEW

3121X X1XXXX

ITEM: IGLOO

A work glove designed to offer protection against mechanical and thermal hazards while ensuring safety and comfort during use.
This glove guarantees excellent dexterity and precision.
The stretch nylon cuff offers a comfortable fit even for prolonged use.
Oeko Tex certification proves the absence of harmful substances, making them safe for skin contact.
The model is available in packs of 12 pairs.
Colour: grey, white



Tech. Code	EU size
K235107	7
K235108	8
K235109	9
K235110	10
K235111	11

NYLON GLOVES LIGHT WEIGHT COATED IN POLYURETHANE

2131X

ITEM: 30805

Lycra gloves with thin layer of polyurethane coating. Extreme elasticity and finesse combined with excellent durability. Suitable for small parts, eyewear, fine mechanics, electronics, maintenance and storage.
Black-blue colour.



Tech. Code	Size	EU size
K232106	S	6
K232107	M	7
K232108	L	8
K232109	XL	9
K232110	XXL	10

WORK GLOVES IN NYLON COATED IN POLYURETHANE

3121X

ITEM: K2317

Palm coated with a special polyurethane compound. Stretch knit wrist, super light, super stretch, super sensitive. Ideal for work that requires upmost precision.
18 gauge and usable with touch screen device.
Colour black/blue



Tech. Code	EU size
K23177	7
K23178	8
K23179	9
K231710	10

NYLON ACRYLIC HPT GLOVES

NEW

4121A X1XXXX

ITEM: COZY

Glove with outer lining: Nylon and Spandex for elasticity, lightness and close fit.
Inner lining: Warm acrylic, ideal for working even at low temperatures.
Lining: PVC with Hydropellent Technology treatment - water-repellent surface that guarantees excellent grip even in the presence of oils, water. Touch screen gloves.
Oeko-Tex® product, safe for the skin and free of harmful substances.
The model is available in packs of 12 pairs.



Tech. Code	EU size
K220007	7
K220008	8
K220009	9
K220010	10
K220011	11

21-GAUGE NYLON GLOVES WITH NITRILE COATING

NEW

3121X

ITEM: K2519

21-gauge nylon gloves ideal for precision operations.
The thickness given by the calibre gives the glove excellent wearing comfort and flexibility.
Nitrile coating provides excellent grip even on oily surfaces, reinforcement between thumb and forefinger maintaining a high level of protection.
Can be used with all touchscreen devices.



Tech. Code	EU size
K251907	7
K251908	8
K251909	9
K251910	10
K251911	11

GLOVES IN NYLON/SPANDEX WITH 2/4 COATED IN NITRIL FOAM SANITIZED

MANO GRIP

4121X

ITEM: 30835

Gloves high quality nylon, coating on palm and fingers with nitril, rough finish that increases exponentially of the area in contact for consolidating the grip even in the presence of oil and water.
Transpiring elastic material.
Colour black-red.



Tech. Code	Size	EU size
K232406	S	6
K232407	M	7
K232408	L	8
K232409	XL	9
K232410	XXL	10

WORK GLOVES IN NYLON COATED IN MICROPOROUS NITRILE

4132X

ITEM: K2225

Nylon gloves fully coated with nitrile, additional micro-porous nitrile coated palm. Excellent abrasion resistance, superior grip in the event of oil and grease.
Colour blue/black



Tech. Code	EU size
K222508	8
K222509	9
K222510	10

WORK GLOVES IN CONTINUOUS NYLON THREAD COATED IN NITRIL FOAM

Ansell

3111A

ITEM: 11-800

Nylon gloves coated with nitrile foam that makes the glove soft and breathable, stretch knit wrist.
Colour grey



Tech. Code	EU size
K232507	7
K23258	8
K23259	9
K232510	10
K232511	11

GLOVES IN NYLON SPANDEX COATED IN MICROPOROUS NITRILE

MANO GRIP

4121X

ITEM: 30900

Nylon spandex gloves with microporous nitrile coating, high breathability and abrasion resistance. Very elastic and flexible glove designed for ease of movement and durability. Recommended for precision operations where high sensitivity is required.
Ideal glove for assembly lines.



Tech. Code	Size	EU Size
K230208	L	8
K230209	XL	9
K230210	XXL	10

NYLON GLOVES WITH 3/4 NITRILE FOAM COATING

NEW

4132X

ITEM: K2329

High-quality nylon knitted gloves, coated on the palm and part of the back with nitrile foam, which exponentially increases the contact surface area, to consolidate grip even in the presence of water and oil.

Breathable and elastic.
Elasticised wrist.
Colour black-blue.



Tech. Code	Size	EU size
K232908	L	8
K232909	XL	9
K232910	XXL	10

NYLON SPANDEX COATED NITRILE FLAT GLOVES

NEW

4X31X X1XXXX

ITEM: KUMBA

Protective glove with comfortable Nylon stretch cuff.
Touchscreen compatible for use with smartphones and tablets.
Orange reinforcement between thumb and forefinger for extra durability.
The model is available in packs of 12 pairs.



Tech. Code	EU size
K220107	7
K220108	8
K220109	9
K220110	10
K220111	11

GLOVES IN CONTINUOUS NYLON THREAD COATED 3/4 IN DOTTED NITRILE

4131X

ITEM: K2337

Gloves with elasticated wrist and ventilated back.
Dotted palm, fingers and knuckles covered for greater protection.
The foamed nitrile coating makes the gloves soft, light and breathable.
Anti-pilling, water-repellent and oil-resistant.



Tech. Code	EU Size EU size
K233708	8
K233709	9
K233710	10

LATEX COATED POLYESTER GLOVES

NEW

3131X X1XXXX

ITEM: MUS

Gloves with palm coated with soft 'rubbery' latex foam, with embossed finish for exceptional grip on dry, wet or slippery surfaces.
Flexibility and resistance: excellent resistance to wear, without compromising freedom of movement.
Aerated back: promotes breathability and reduces hand fatigue.
Elasticated cuff: secure and practical fit.
The model is available in packs of 12 pairs.



Tech. Code	EU size
K220207	7
K220208	8
K220209	9
K220210	10
K220211	11

18 GAUGE 3/4 NITRILE CUT-RESISTANT GLOVES

NEW

4X42D

ITEM: K2350

Cut-resistant gloves with a double polyester coating, lined with 18-gauge high-density polyethylene, nylon and elastane fibres.
Superior protection and grip to conventional gloves thanks to the second sandblasted nitrile coating covering the thumb.
Thanks to its D-cut protection, it can be used in contacts with sharp, wet and oily surfaces and provides excellent grip.
Can be used with touch screen devices.
Colour blue and black.



Tech. Code	EU size
K235006	6
K235007	7
K235008	8
K235009	9
K235010	10
K235011	11

WORK GLOVES IN CONTINUOUS NYLON THREAD COATED IN TEXTURED NITRILE

4131X

ITEM: K2335

Gloves in continuous nylon thread coated with nitrile foam that makes the glove soft and breathable, stretch knit wrist, textured palm.
Ideal glove for assembly lines.
Colour grey.



Tech. Code	EU size
K23358	8
K23359	9
K233510	10

NITRILE HPPE NYLON CUT-RESISTANT GLOVES

NEW

4X42F X1XXXX

ITEM: SHIELD

Touchscreen cut-resistant glove W-LITE NITRILE made of ultra-thin, extremely breathable foam.
Tungsten embedded in the glove guarantees safety and protection against cuts.
Abrasion resistance +25,000 cycles three times higher than any other glove.
Red reinforcement between thumb and forefinger for extra durability.
The model is available in packs of 12 pairs.



Tech. Code	EU size
K220307	7
K220308	8
K220309	9
K220310	10
K220311	11

POLYURETHANE CUT-RESISTANT GLOVES

WODEX

NEW

4442C

ITEM: WX8450

Cut resistant fibre gloves with polyurethane palm and toe coating, conforming to EN388 with cut resistance from blade type C.
Palm and back material in high density polyethylene, 13 gauges. Elasticated wrist and polyester border.
Safety category II.
Grey colour.



Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10

WORK GLOVES IN NEOPRENE

2121X ALMNST

ITEM: K2402

Neoprene gloves. Cotton flock lined. **Anti-slip outer knurling**, silicone treated external surface.
Thickness: 0.75 mm.
Long version, approx. 30 cm.
Colour black.



Tech. Code	Size	EU size
K240207	S	7 - 7.5
K240208	M	8 - 8.5
K240209	L	9 - 9.5
K240210	XL	10 - 10.5

HPPE POLYURETHANE CUT-RESISTANT GLOVES

NEW

4443D

ITEM: K2349

Glove suitable for precision activities while also ensuring optimal tactile sensitivity.
The HPPE, polyester and elastane backing provides excellent abrasion resistance and good cut protection from D-type blade.
Can be used with all touchscreen devices.



Tech. Code	Size
K234907	7
K234908	8
K234909	9
K234910	10
K234911	11

WORK GLOVES IN SPECIAL BLEND NITRILE SANITIZED

Ansell

4101X VIRUS JK LOPT

ITEM: 37-675

Sandblasted palm and fingers, good mechanical and chemical resistance. SANITIZED for use in the food industry. Colour green.



Tech. Code	Size	EU size	Length cm
K240006	XS	6	33
K240007	S	7	33
K24008	M	8	33
K24009	L	9	33
K240010	XL	10	33
K240011	XXL	11	33

POLYURETHANE CUT-RESISTANT GLOVES

MANO GRIP

4242B

ITEM: 30840

Cut resistant fibre gloves with polyurethane palm and toe coating, conforming to EN388 with cut resistance from blade type B.
Palm and back material in high density polyethylene, 13 gauges. Elasticated wrist and polyester border.
Safety category II.
Grey colour.



Tech. Code	EU size
K233007	7
K233008	8
K233009	9
K233010	10

DISPOSABLE NITRILE GLOVES

WRK

EN 374-1

ITEM: K2516

Elastic Lightweighted ambidextrous. Intended use with operating temperatures not exceeding 40° C. AQL 1,5. Thickness 0,12 mm. Weight 4,9 g. Blue colour. Box of 100 pcs.



Tech. Code	Size	EU Size
K251607	S	7
K251610	XL	10


NERI
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DISPOSABLE GLOVES IN EMBOSSED NITRILE

JKLOPT VIRUS

ITEM: K2513

Ambidextrous powder-free nitrile disposable gloves, 0.19 mm thickness.
External finish with diamond knurling.
Colour Orange. Box of 50 pcs.



Tech. Code	Size	EU size
K25138	M	8
K25139	L	9
K251310	XL	10

DISPOSABLE LATEX GLOVES WITH POWDER COATING

GKL VIRUS

ITEM: K2501

Disposable latex gloves with powder coating, ambidextrous and with excellent sensitivity and comfort. Thickness 0.08 mm. White colour. Box of 100 pcs.



Tech. Code	Size	EU Size
K25017	S	7
K25018	M	8
K25019	L	9
K250110	XL	10

DISPOSABLE GLOVES EMBOSSED IN NITRILE

JKLOPT VIRUS

ITEM: K2517

Disposable ambidextrous nitrile gloves powder free, thickness 0.19 mm.
External finish with diamond knurling.
Colour Black. Box of 50 pcs.



Tech. Code	Size	EU Size
K251708	M	8
K251709	L	9
K251710	XL	10

LATEX DISPOSABLE GLOVES POWDER FREE COATING

KLP VIRUS

ITEM: K2502

Disposable latex gloves powder free coating, Ambidextrous use, high strength, dexterity and flexibility.
Enhanced thickness 0.28 mm. Long version, approx 30 cm. Blue colour. Box of 50 pcs.



Tech. Code	Size	EU size
K250206	S	6,5
K250207	M	7
K250208	L	8
K250209	XL	8,5

DISPOSABLE NITRILE GLOVES

NEW

KPT VIRUS

ITEM: K2521

Ambidextrous nitrile disposable gloves, latex free.
Powder-free inner finish, excellent sensitivity and dexterity.
Suitable for food contact.
AQL 1,5. Thickness 0,10 mm. Weight 5,5 g.
Colour: blue - Box of 100 pcs.



Tech. Code	Size	EU size
K252108	M	8
K252109	L	9
K252110	XL	10

CONTINUOUS COTTON WIRE GLOVES

ITEM: K2610

Continuous wire (3 wires). Stretch knitwist. Raw colour.



Tech. Code	Size	EU size
K26107	S	7
K26109	L	9

APRONS AND TRACKSUITS STANDARD LEGEND

CLASS

EN ISO 11611
PROTECTIVE CLOTHING FOR USE IN WELDING AND ALLIED PROCESSES
Specifies the minimum safety key requirements for protective clothing including hoods, aprons, sleeves and gaiters, which are designed to protect the body, the head and feet of the user and which are intended to be worn during welding and procedures that have comparable risks. Clothing protectors certified to this standard are therefore designed to protect the wearer against small splashes of molten metal, short-term contact with the flame and radiant heat.

CLASS X AY
Class Protector (x)
Garments are classified according to the results obtained during tests in 2 classes:
Class 1 - Protection against welding techniques and environmental conditions less dangerous (causing lower levels of spatter and radiant heat)
Class 2 - protection against welding techniques and the most dangerous environmental conditions (causing higher levels of spatter and radiant heat)
Limited flame spread (Y)
The test of the measurement of the properties of limited flame spread on the head can be carried out with two different procedures:
Procedure A - Ignition surface (in marking A1)
Procedure B - Ignition from the bottom edge (in marking A2)
The two procedures can also be applied together (in marking A1 + A2).

CLASS

EN 1073-2
PROTECTIVE CLOTHING FOR USE AGAINST RADIOACTIVE CONTAMINATION
Requirements and test methods for non-ventilated protective clothing against radioactive contamination in form of particles. The garment must be designed so as to be easy to wear and take off, and to minimize the risk of contamination. Can be constituted by one or more parts to wear together and can incorporate permanently fixed accessories (eg.: hood, gloves, galoshes, respiratory protection)

TYPE...

EN 1149-1
PROTECTIVE CLOTHING FOR USE AGAINST THE RISK OF ELECTROSTATIC DISCHARGES
Standard EN 1149-1:1997 specifies electrostatic requirements and test methods for protective clothing dissipating electrostatic charges, to prevent discharges that can ignite fires.
Standard EN 1149-2:1997 defines test methods for measuring the electrical resistance through a material (vertical resistance).
Standard EN 1149-3:2005 defines test methods for measurement of charge attenuation.

TYPE...

EN ISO 13982-1
PROTECTIVE CLOTHING FOR USE AGAINST SPECIAL SOLID

TYPE...

EN 14126
PROTECTIVE CLOTHING FOR USE AGAINST THE BIOHAZARD

TYPE...

EN 13034
LIMITED PROTECTION AGAINST SMALL QUANTITIES AND SPLASHES OF LIQUID CHEMICALS

ONE PIECE DISPOSABLE OVERALLS WITH HOOD TYPE 5 AND 6

TYPE 5 TYP 6

ITEM: K3204

Disposable overalls with white hood in highly breathable microporous fabric, good protection against the penetration of particle dust and aerosols, elasticated ankles, waist, wrist and hood for a better fit and quilted seams to prevent particle penetration. Thumb ring to keep sleeves in place and zip covered by adhesive flap for added protection. Weight 65 g. 3-piece elasticated hood and elasticated waist. Recommended environments: spray painting, chemical industry, asbestos removal, clean room, pharmaceutical industries, agriculture. CAT. 3

Tech. Code	Size
K3204M	M
K3204L	L
K3204XL	XL
K3204XXL	XXL



ONE PIECE DISPOSABLE OVERALLS WITH HOOD

ITEM: K3201

Overalls in non-woven polypropylene fabric, elastic wrist /ankle straps, product compling with CE regulations. CAT. 1

Tech. Code	Size
K3201M	M
K3201L	L
K3201XL	XL
K3201XXL	XXL



TYPE 5 TYPE 6 Class 2

ITEM: K3205

TYVEK XPERT 500 DUPONT COLOUR WHITE
Sewn with zipper closure, elastic wrist/ankle/waist squeezers, product complying with EC type 4-5-6.

Tech. Code	Size
K3205L	L
K3205XL	XL
K3205XXL	XXL



SPLIT APRONS FOR WELDING APPLICATIONS

Class 2 A1 + A2

ITEM: K3100

Suitable for welding operations, effective against small splashes of molten metal and incidental flame contact.
Grey colour.

Tech. Code	Dimension cm
K31006090	60 x 90



SPLIT APRONS

ITEM: K3102

Split aprons with neck and waist regulation laces.

Tech. Code	Dimension cm
K31026090	60 x 90



REINFORCED SPLIT APRONS

ITEM: K3103

Reinforced Aprons with neck and waist regulation laces.

Tech. Code	Dimensions cm
K31036090	60 x 90



SPLIT GAITERS

A1 + A2 CLASS 2

ITEM: K3107

Split leather gaiters with Kevlar stitching and internal velcro closure. Length 30 cm.

Tech. Code	Size
K310700	One size



ELASTIC SPLIT SLEEVE

A1 + A2 CLASS 2

ITEM: K3108

Split leather sleeve with elastic wrist, adjustable strap closure.
Length 60 cm.

Tech. Code	Size
K310800	One size



PVC APRONS

ITEM: K3110

Suitable for protection against acids, solvents, oils and derivatives.
Green colour.

Tech. Code	Dimension cm	Thickness mm
K311075110	75 x 110	0.35
K311090120	90 x 120	0.35



PVC POLYESTER EVA KNEE PADS

ITEM: K3208

Knee-guards with elasticated upper drawstring with adjustment and lower drawstring with hook-and-loop fastener.
Equipped with hard cover for added protection.
Black colour

Tech. Code	Size
K320800	One size



CRUST JACKET

CLASS 2 A1

ITEM: K3300

Split leather jacket with Velcro fastener, inside pocket and straight collar.
Kevlar® seams, elastic cuffs.
Grey colour.

Tech. Code	Size
K3300100	One size





EYE PROTECTION STANDARD LEGEND

EN 166	Construction and performance specifications of the eye protectors
EN 169	Filters for welding and related techniques
EN 170	Ultraviolet filters
EN 171	Infrared filters
EN 172	Solar filters for industrial use
EN 175	Eye and face protection equipment during welding and related processes
EN 379	Automatic welding filters
EN 1731	Mesh eye and face protectors



POLYCARBONATE GOGGLES

DELTAPLUS

CE

EN 166, EN 170

ITEM: K4007



Colourless safety glasses with adjustable nose pads and flexible arms.
Polycarbonate lenses with treatment.
weight 28 gr.

Tech. Code	K400710
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Optical class	Class 1
VS impact protection	F - Low-energy impact
Optional requirements	Anti-fog (N), Scratch-resistant (K)

SECUREFIT™ GOGGLES

3M

ITEM: K4101

NEW



Tough scratch-resistant and anti-fog protective goggles with design technology for even pressure distribution in the temporal area.
Polycarbonate frame and lenses, clear lenses.
The temples automatically flex and adjust according to head size.
99.9% UV protection.
Recommended for use in the following applications: Manufacturing, Metal Fabrication, Construction, Food and Beverage Production and Pharmaceuticals

Tech. Code	K410105
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Optical class	Class 1
VS impact protection	F - Low-energy impact
Optional requirements	Anti-fog (N), Scratch-resistant (K)

PROTECTIVE POLYCARBONATE EYEWEAR

CE

EN 166, EN 170

ITEM: K4103



Semi-rigid black frame, polycarbonate clear glass lenses. Two-lens eyewear complete with tilted vented side shields. Interchangeable lenses also available.

Tech. Code	K410301	K410301R
Type	Complete pair	Lens replacement
Filter	2C - UV plus filter	2C - UV plus filter
Grade	1.2 -Clear lens	1.2 -Clear lens
Optical Class	Class 1	Class 1
Protection VS Impact	F - Low impact energy	F - Low impact energy
Optional req.	-	-

PROTECTIVE EYEWEAR



EN 166, EN 169, EN 175

ITEM: K4105

Semi-rigid black plastic frame, side shields, convex lenses.

Tech. Code	K410505	K4109R05
Type	Complete pair	Lens replacement
Filter	5 – For welding	5 – For welding
Grade	Dark green	Dark green
Optical Class	Class 1	Class 1
Protection VS Impact	S - Enhanced resilience	S - Enhanced resilience
Optional req.	-	-

PROTECTIVE POLYCARBONATE MASKS



EN166

ITEM: GALERVI

Indirect ventilation. Flexible PVC frame. Panoramic polycarbonate screen.
Suitable for the use of eyeglasses and disposable masks. Wide, tiltable nylon elastic band.

Tech. Code	K4118100
Filter	2C - Filter UV
Gradation	1. 2 - Clear lens
Optical class	Class 1
Protective VS impact	B - impact medium energy T - impact resistance at extreme temperatures
Opitional req.	Anti-fog N - Anti-scratch K
Use	3 - resistance to liquid splashes 4 - resistance to coarse dust particles

GLASSES FOR ANTI-NOISE HEADPHONES



EN166 EN170

ITEM: K4124

Glasses made entirely of polycarbonate, anti-scratch and anti-fog.
Extra-flat arms for perfect compatibility with ear muffs.
Ultra-soft nose pad for optimised comfort and a perfect fit for all morphologies
Lens treatment : Scratch-resistant (classic) - UV400
Nosepiece material : Polycarbonate
weight (g) : 22

Tech. Code	K4124100
Filter	2C - UV Plus filter
Gradation	1.2 - Clear Lens
Optical class	Class 1
VS impact protection	F (T) - Low energy and extreme temperature impact
Optional Requirements	K-Abrasion Resistance

OVERHEAR



ITEM: K4127

Oversight for use with prescription glasses, mixed and adjustable with Polycarbonate lenses, Monoblock, Anti-fog/ scratch-resistant.
Curved, frame with length-adjustable temples.
Weight: 35.3 g
ANSI/ISEA Z87.1

Tech. Code	K4127100
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Optical class	Class 1
VS impact protection	F - Low-energy impact
Optional requirements	Anti-fog (classic) - Scratch-resistant (classic)

ANTI-MIST POLYCARBONATE PROTECTIVE GOOGLES



ITEM: 912-821

Goggles with excellent lateral and upper protection, temples adjustable in three positions, very light. Internal foam for a perfect fit to the face that maximizes comfort and reduces possible shocks. Optical class I -F marking, anti-scratch, anti-mist.

Tech. Code	K4129100
Filter	2C - UV plus filter
Gradation	1.2 clear lens
Optical class	1 Class
VS Impact protection	F- Low energy impact
Optimal requirements	-

POLYCARBONATE MASKS COLORLESS



EN166

ITEM: MURIA1

Flexible PVC frame. Direct ventilation. Elastic fabric band.Screen: polycarbonate

Tech. Code	K4135100
Filter	-
Gradation	-
Optical class	1
VS impact protection	B - Medium energy impact

VISOR KIT



ITEM: K4148

Kit of no. 2 transparent polycarbonate visors that can be mounted on code K4155100.
EN166

Tech. Code	K4148R100
Lens material	Polycarbonate
Lens colour	Colourless
Optical class	1

UNIVERSAL DISPOSABLE SHOE COVERS



ITEM: K4158

Shoe protection designed for workers in the paint shop, industrial market and more.
Made of microporous PE laminate material for added protection.
The protective shoe covers feature an anti-static treatment to help reduce static electricity build-up and annoying electrostatic discharge.
Universal size, with elastic top for optimal fit.
Boxed of 100 pcs.

Tech. Code	K415820
Material	Laminate
Specifications	CE Category I

PROTECTIVE FACE SHIELDS



EN 166

ITEM: K4160

Visor with support cap to protect the forehead, head, eyes, chin guard and part of the neck. Impact and heat resistant polycarbonat optical part.

Tech. Code	K4160100	K4160R100
Filter	2C - UV plus filter	-
Grade	1.2 - Clear lens	-
Optical Class	Class 1	-
Protection VS Impact	B (T) - Medium energy impact and high tempt exposure	-
Optional req.	-	-
Use	3 - Liquid splashes protection	-
Spare part	-	Visor

SAFETY FACE SHIELDS

EN 166, EN 170

ITEM: K4155



Crown complete with face shield and chin rest, anti-sweat interchangeable head band.
1mm, 90° flip-up polycarbonate face shield
Can be worn over protection eyewear and respirators.
Replaceable polycarbonate chin rest

Tech. Code	K4155100
Filter	2C -UV plus filter
Grade	1.2 - Clear lens
Optical Class	Class 1
Protection VS Impact	B - Medium energy impact
Optional req.	-
Applications	3 - Liquid splashes protection
Spare part	-

REPLACEMENT FACE SHIELD BRACKETS

ITEM: K4157



Universal brackets for crowns, to be paired with K4156-model safety face shields
Guarantees protection against liquid droplets or splashes, resisting high-speed particles and high temperature exposure.

Tech. Code	K4157100
Filter	-
Grade	-
Optical Class	-
Protection VS Impact	A (T) - High energy impact and high tempt exposure
Optional req.	-
Applications	3 - Liquid splashes protection

PROTECTION FACE VISOR

EN 166

ITEM: K4156

Transparent polycarbonate visor.
Protection against medium-speed particles.

Tech. Code	K4156100
Filter	-
Grade	-
Optical Class	Class 1
Protection VS Impact	B - Medium energy impact
Optional req.	-



HELMETS STANDARD LEGEND



EN 397 Protective helmets for industry
Elements of marking

a	Name or identifying mark of the manufacturer
b	Type of helmet (name of manufacturer)
c	Year and trimester of manufacture
d	Size or range of sizes (in centimeters)
e	Number of the reference standard (EN 397)
f	Abbreviation of the material of the cap (ABS, PC, ...)
g	CE Marking
h	Optional Requirements

EN 50365 Electrically insulating helmets for use on low voltage installations

SAFETY HELMETS

CE
EN 397

ITEM: K4200

Polythene material, adjustable straps with six anchor points, electrical insulation up to 440 volts.



Tech. Code		K4200G	K4200B	K4200A1
Colour		Yellow	White	-
Weight	g	380	380	-
Spare part		-	-	Chinstrap

CE
EN 397

ITEM: K4206

ABS safety helment, harness with quick adjustment in nylon, sweatband with adjustable padded chin strap and quick release fasterner.



Tech. Code		K4206G	K4206A1
Colour		Yellow	-
Weight	g	333	-
Spare part		-	Chin strap

Related products

NEW

U-Power SAFETY SHOES

Tech. Code	EU Size	UK Size
K182743	43	9
K182744	44	10
K182745	45	10,5
K182746	46	11



Product available in postcode K

THERMAL VEST

ITEM: M12 HPVBL3-0

NEW



Heated waistcoat with HEXON HEAT™ technology.
All day autonomy, up to 11 hours on a single charge of the M12™REDLITHIUM™ 3.0Ah battery
3 Heating Zones on chest and back with 3 different settings (high, medium, low).
Lightweight and highly durable ripstop polyester provides a slim design that can be worn as an outer shell or mid-layer.
Zipped battery pocket, drawstring at waist and wrists.
Water and wind resistant, machine washable and tumble dryer suitable.
Compatible with all MILWAUKEE® M12™ batteries as well as powerbank IRPSU3, flat power source specifically for heated clothing.

Supplied without batteries

Tech. Code	K420712S	K420712M	K420712L	K420712XL	K420712XXL
Size	S	M	L	XL	XXL

THERMAL JACKETS

ITEM: M12 HPJBL3-0

NEW



Heated jacket with HEXON HEAT™ technology.
All day autonomy, up to 12 hours on a single charge of the M12™REDLITHIUM™ 3.0Ah battery
5 heating zones on chest, back and pockets with 3 different settings (high, medium, low)
Stretch TOUGHSHELL™ material 90% polyester and 10% spandex to withstand tough working conditions and offer up to 5 times more durability than comparable traditional clothing
Zipped battery pocket, drawstring waist and cuffs.
Water and wind resistant, machine washable and tumble dryer safe.
Compatible with all MILWAUKEE® M12™ batteries as well as powerbank IRPSU3, flat power source specifically for heated clothing.

Supplied without batteries

Tech. Code	K420812S	K420812M	K420812L	K420812XL	K420812XXL
Size	S	M	L	XL	XXL
Colour	Black	Black	Black	Black	Black

FLAT BATTERIES FOR THERMAL CLOTHING

ITEM: IRPSU3-0

NEW



Compatible with all heated clothing.
Bi-directional USB-C charging provides 15A to charge devices and 36W to charge the power source.
Bluetooth connectivity with the Heated Gear Milwaukee app.
36Wh battery capacity.
Up to 12 hours of runtime (at minimum level) with the M12 Heated Gear.
Can be used as a power bank: simultaneously powers the heated clothing while charging the smartphone.
App for selecting the desired duration, customising levels and heat zones and saving favourite parameters.
Battery capacity 3 ah
Battery type Li-ion
Voltage 12V

Tech. Code		K420912V
Betteria capacity	Ah	3
Voltage	V	12

PROTECTIVE EYEWEAR

CE

EN 166, EN 170

ITEM: BRAV2IN



Monobloc polycarbonate eyewear. Temples with flexible flattened ends. Polycarbonate nose padintegrated. Easy to use with construction helmet and anti-noise headphones. Side protections.weight 25 g.

Tech. Code	K4221100
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Optical class	Class 1
VS impact protection	F(T) - Low energy and extreme temperature impact
Optional requirements	-

PROTECTIVE POLYCARBONATE EYEWEAR

EN 166, EN 170

ITEM: IRAYAIN



Polycarbonate eyewear. Sporty design. Polycarbonate frame for better comfort and greater solidity.
Ultra-flexible nose pad, perfect fit for all face types.
Ultralight frame. Glasses cord included.

Tech. Code	K4222100
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Optical class	Class 1
VS impact protection	F(T) - impact low energy and extreme temperatures
Optional requirements	K- Abrasion resistance

PROTECTIVE EYEWEAR WITH ELASTIC BAND

EN 166, EN 170

ITEM: PACAYA CLEAR STRAP



Eyewear with polycarbonate lenses and nylon frames. Integrated polycarbonate nose pad. Height-adjustable nylon temples.Side protectors and tilting temples for perfect adjustment according to the shape of the face.Removable foam protection, excellent grip in dusty environments and greater comfort in the event of an impact.Weight 36 g

Tech. Code	K4223100
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Opitical class	Class 1
VS impact protection	F(T) - Low energy and extreme temperature impact
Optional requirements	K- Abrasion resistance N - Eye fogging resistance

POLYCARBONATE PROTECTIVE EYEWEAR

EN 166, EN 170

ITEM: PITON



Direct side ventilation. Wide field of vision and protection. Side protections. Drilling of the cord temples.At the top it has a closure that prevents particles from passing into the eyes.
Can be used as overglasses.

Tech. Code	K4226100
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Optical Class Optical class	Class 1
VS impact protection	- Low energy impact
Optional requirements	-

PROTECTIVE POLYCARBONATE EYEWEAR

EN 166, EN 170

ITEM: KILIMGRIN



Adjustable nylon side arms. Side protection.
Anti-scratch and UV400.

Tech. Code	K4230100
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Optical class	Class 1
VS impact protection	F - Low energy impact
Optional requirements	-

EAR PROTECTION STANDARD LEGEND

EN 352-1 Earmuffs
EN 352-2 Earplug inserts
EN 352-3 Earmuffs mounted on a protective helmet for the industry
EN 352-4 Earmuffs with response as a function of the sound level
EN 352-5 Earmuffs with active control of noise reduction
EN 352-6 Earmuffs with audio communication
EN 352-7 Earplug inserts with attenuation in function of the sound level

NOISE REDUCTION: the difference between the reduction in operator's perceived noise and the noise intensity level actually transmitted to the ear.
It can be measured scientifically in two ways:
HML: frequency based attenuation (H-high, M-medium, L- low)
SNR: signal to noise ratio



EARMUFFS

EN 352-1

ITEM: OPTIME I

Wide comfortable padded pads with a combination of liquid and foam for an optimal seal and a reduced and well distributed pressure. Headband with two attachment points in harmonic steel for better pressure distribution over time.Suitable for moderate noise environments.



Tech. Code		K4300100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	30 - 24 - 15 - 27

EN 352-1

ITEM: OPTIME II

Wide and comfortable padded pads with a combination of liquid and foam for an optimal seal and a reduced and well distributed pressure. Headband with two attachment points in harmonic steel for better pressure distribution over time. Suitable for very noisy environments.



Tech. Code		K4305100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	34 - 29 - 20 - 31

HEADPHONES BLUETOOTH

EN 352

ITEM: PELTOR™ WS™ ALERT™ X

Headphones 3M™ PELTOR™ WS™ ALERT™ X with Bluetooth® technology and noise canceling microphone connect to your mobile phone for hands-free calling and streaming in noisy environments. The headphones feature a controlled attenuation function for ambient listening and sync with a mobile app, so they can be set up and adjusted by users with ease. Automatic shutdown after 4 hours of non-use, 70h battery life.



Tech. Code		K4302100
Freequency	Hz	H - M - L - SNR
Attenuation	dB	35 - 27 - 18 - 30

HEADPHONES ANTI-NOISE

EN 352-2

ITEM: OPTIME III

Easy-to-replace sound-absorbing pads and inserts to guarantee greater cleanliness and hygine. Large internal space of the cuffs which reduces the formation of internal humidity and temperature. Suitable for particularly noisy envionments characterized by low frequencies.



Tech. Code		K4308100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	40 - 32 - 23 - 34

HEADBAND EARMUFFS



ITEM: K4307

Noise-cancelling headphones with ABS headband and three-position rotatable height adjustment.
Soft foam and PVC ear pads.
Can be used with helmets, visors and masks. Colour black orange
Weight: 182 g.

Tech. Code		K4307100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	36 - 26 - 18 - 29



ITEM: K4309

Ear protectors with internally padded headband and quick height adjustment
Foldable ABS cups
Soft padded pads for better pressure distribution.
Can be used with helmets, visors and masks. Colour black yellow
Weight: 151 g.

Tech. Code		K4309100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	34 - 26 - 19 - 29



EN 352-1

ITEM: K4310

Ear protectors with temporal headband, headband with soft padding for improved comfort.
Continuous, quick and stable height adjustment.
Foldable ABS cups with soft padding.
Can be used with helmets, visor and masks. Colour black green
Weight: 274 g.

Tech. Code		K4310100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	34 - 32 - 25 - 33

DISPOSABLE EARPLUGS



EN 352-2

ITEM: 1100

Soft and hypoallergenic polyurethane foam. Packaged in pairs.

Tech. Code		K4320200
Frequency	Hz	H - M - L - SNR
Attenuation	dB	37 - 34 - 31 - 35

DISPOSABLE EARPLUGS



EN 352-2

ITEM: PP-01-002

PVC slow expansion. Packaged in pairs.

Tech. Code		K4325250
Frequency	Hz	H - M - L - SNR
Attenuation	dB	30 - 24 - 22 - 31

DISPOSABLE EARPLUGS WITH STRING



EN 352-2

ITEM: 1110

Soft and hypoallergenic polyurethane foam.

Tech. Code		K4330100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	37 - 34 - 31 - 35

EARPLUGS

ITEM: PUSH-INS EX-01-021

Push-Ins™ earplugs 3M™ E-A-R™ can be worn using the one-handed or two-handed insertion method. SNR 35dB for the two-handed input method and SNR 31dB for the one-handed input method.The shape and size of the soft foam tips conform to the user's ear canal to ensure better comfort and a better fit for extended use.The tip is made of 3M™ E-A-Rform™, which gives a smoother surface than other 3M foam tips.



Tech. Code		K4334100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	37 - 36 - 35 - 38

REUSABLE EAR PLUGS (10 PAIRS)

NEW

ITEM: K4335

Reusable silicone earplugs with PVC cable. They can be used with or without cable.
The ultra-soft polymer profile with 3 flanges (flaps) places more material in contact with the ear canal, ensuring all-day comfort.
The ultra-soft polymer structure places more material in contact with the ear canal, thus ensuring greater attenuation.
The integrated rigid insert allows the user to orient the insertion angle of the earplug, adapting to each ear canal for better fit.



Tech. Code		K4335100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	32 - 29 - 28 - 32

HEADBAND EARPLUGS

EN 352-2

ITEM: 1310

ABS headband, soft and hypoallergenic polyurethane foam buffers.



Tech. Code		K4340100	K4340R100
Frequency	Hz	H - M - L - SNR	H - M - L - SNR
Attenuation	dB	30 - 22 - 19 - 26	30 - 22 - 19 - 26
Description		Complete headband	Pair of ear tips

HEADBAND EARPLUGS

EN 352-2

ITEM: EC-01-000

ABS headband, soft and hypoallergenic polyurethane foam buffers.



Tech. Code		K4345100	K4345R100
Frequency	Hz	H - M - L - SNR	H - M - L - SNR
Attenuation	dB	27 - 19 - 17 - 24	27 - 19 - 17 - 24
Description		Complete headband	Pair of ear tips

HEADBAND EARPLUGS

EN 352-2

ITEM: 910-348 - 910-924

Foam earplugs with practical headband for intermittent noise exposures, which can be positioned on the neck or under the chin.



Tech. Code		K434610	K434610R
Frequency	Hz	SNR	SNR
Attenuation	dB	20	20
Description		Complete headband	10 Changeable ear tips

RESPIRATORY SYSTEM PROTECTION STANDARD LEGEND

EN 149+A1 Respiratory protective devices and filtering half masks against particles

EN 140 Half masks and quarter masks intended for use as part of respiratory protection, with the exception of devices intednded for leakages or underwater useage (Subacqua)

EN 136 Specification of minimum requirements for full face masks for respiratory protection equipment. They are rusable devices consisting of a structure which covers the entire face with a visor in transparent material, they are equipped with a exhalation valve that guarantee a greater seal of the half masks

EN 405 Specification of minimum requirements, test methods and marking requirements for filter facepieces with valves incorporating gas filters or combination filters, used as respiratory protective equipment, with the exception of devices for leakages. It does not apply to gas or combination facepieces that do not have valves or that are exclusively equipped with exhalation valves. It does not apply to devices designed for use in situations where there is or may be insufficient oxygen (oxygen less that 17% by volume)

EN 143 Refers to dust filters to be used as components of unassisted respiratory tract devices, with the exception of devices for leakages and filter facepieces

EN 14387 Combined gas filters (suitable for portection from gases and vapors) and combined filters for use as components in non-assisted respiratory protection devices

The chart along with all reference info concerning the use of related equipment have a merely indicative value. Use of respirators implies the user's knowledge of the reference regulations implemented in each Country. Such equipment should be selected by knowledgeable and trained personnel and may vary according to environmental and work conditions.

NR Non reusable. Respiratory protection masks are intended for single shift use only (8 hrs)

R Reusable. Reuse restrictions may vary according to exposure factors, though typically these should never exceed 5 shifts (40hrs)

TLV The term for airborne concentration of a substance below which all workers are believed to be protected.

D This marking indicates that the anti-dust filter has passed the test with Dolomite dust

FFP1 Specifies 80% standard filtering of solid and liquid particles. Featuring a protection level usually equal to 4 TLV. Typically used in construction works and light carpentry machining.

FFP2 Specifies 94% standard filtering of solid and liquid particles. Featuring a protection level usually ranging between 10 and 12 TLV. Mainly used in wood, steel and plaster works For varnishing, welding fumes, and in case of mould and bacteria.

FFP3 Specifies 99% standard filtering of solid and liquid particles. Featuring a protection level that may get as high as 50 TLV. Mainly recommended for stainless steel, nickel, lead, hardwood, especially beech wood, chestnut and oak wood works. Fibre processing.

		RESPIRATORS DESIGNED TO PROTECT FROM DUST, FUME AND FOG										
Class		FFP1				FFP2					FFP3	
Tech. Code		K520020	K521020	K520520	K530010	K532010	K534010	K534310	K531010	K522020	K534410	K535010
Art.		8710	9913	9310	9312	8822	9925	9152E	9322	9320	9163E	9332
Valvola		NO	NO	NO	YES	YES	YES	NO	YES	NO	YES	YES
NR/R		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
TLV Limit		4	4	4	4	12	10	12	12	12	50	50
Cleaning, Brush varnishing, Odour emissions			•									
Grinding Cutting	Rust, Iron	•		•	•							
	Stone, Concrete	•		•	•							
	Concrete, Plaster					•						
	Paint, Varnishing					•				•		
	Steel, Stainless Steel, Nickel, Lead									•	•	•
Nebulized spray lubricant		•				•					•	
Welding	Steel, Stainless Steel, Zinc						•					
Primer sanding-cutting	Softwood					•		•	•	•		
	Hardwood							•	•			•
Maintenance	Oils, Grease					•			•	•		
Glass or mineral fibres												
Contact	Mould, Spores, Bacteria					•			•	•		

FILTERING RESPIRATORS FFP1

EN 149 FFP1 NR D

ITEM: 8710

Double elastic and nose clip for better fit disposable. Main applications: machining of marble, plaster, cement, and light carpentry.



Tech. Code	Type	Valve
K520020	FFP1	No

FILTERING RESPIRATORS WITH VALVE FFP1

EN 149 FFP1 NR D

ITEM: 9312

Double elastic and nose clip for better wearability. Disposable. Patented valve for excellent breathing comfort. Foldable, ideal for use with glasses. Individually wrapped for a total guarantee of hygiene. Main applications: working in marble, plaster, cement and in light carpentry.



Tech. Code	Type	Valve
K530010	FFP1	Yes

FFP1 FILTERING RESPIRATORS

EN 149 FFP1 NR D

ITEM: M1100C

Mask made of non-woven synthetic fibre. 0% Latex.
Adjustable nose clip.
Sponge edge reinforcement under the nose clip.
Straps: elastic.
Box 20 pieces



Tech. Code	Type	Valve
K520110	FFP1	No

FILTERING RESPIRATORS FFP1

EN 149 FFP1 NR D

ITEM: 9913

Activated carbon layer, provides relief from nuisance levels of organic vapours and against low level of fine dust and odors. Double elastic and nose clip for better fit disposable. Main applications: paint brush, galvanic baths, pest control, industrial cleaning.



Tech. Code	Type	Valve
K521020	FFP1	No

FILTERING RESPIRATORS FFP1

EN 149 FFP1 NR D

ITEM: 9310

Double elastic and nose clip for better fit disposable. Foldable, ideal for use with eyeglasses. Individually packaged for total hygiene guarantee. Main applications: machining of marble, plaster, cement, and light carpentry.



Tech. Code	Type	Valve
K520520	FFP1	No

FILTERING RESPIRATORS FFP2

EN 149 FFP2 NR D

ITEM: 8810

Double elastic and nose clip for better fit disposable. Main applications: sanding, wood dust, paint, fiberglass and oil sprays.



Tech. Code	Type	Valve
K521520	FFP2	No

FFP1 VALVE-FILTERING RESPIRATORS

EN 149 FFP1 NR D

ITEM: M1100VC_

Mask made of non-woven synthetic fibre. 0% Latex.
Adjustable nose clip.
Sponge edge reinforcement under the nose clip.
High-performance exhalation valve.
Straps: elastic.
Box 10 pieces



Tech. Code	Type	Valve
K520310	FFP1	Yes

FFP2 FILTERING RESPIRATORS

EN 149 FFP2 NR D

ITEM: M1200C

Mask made of non-woven synthetic fibre. 0% Latex.
Adjustable nose clip.
Sponge edge reinforcement under the nose clip.
Straps: elastic.
Box 20 pieces.



Tech. Code	Type	Valve
K520410	FFP2	No

FFP2 VALVE-FILTERING RESPIRATORS

EN 149 FFP2 NR D

ITEM: M1200VC

Mask made of non-woven synthetic fibre. 0% Latex.
Adjustable nose clip.
Sponge edge reinforcement under the nose clip.
High-performance exhalation valve.
Straps: elastic.
Box 20 pieces.



Tech. Code	Type	Valve
K520810	FFP2	Yes

FILTERING RESPIRATORS WITH VALVE FFP2

EN 149 FFP2 NR D

ITEM: 9925

The Cool-Flow patent exhalation valve reduces heat build-up. Layer of active carbon, adjustable double elastic, anti-sweat edge. Structure designed for maximum fit and communication comfort. Main applications: welding, disposable shipbuilding, heavy industry.



Tech. Code	Type	Valve
K534010	FFP2	Yes

FILTERING RESPIRATORS WITH VALVE FFP2

EN 149 FFP2 NR D

ITEM: 9322

3M patent valve for excellent breathing comfort, double elastic and nose clip for better fit. Diposable. Structure divided into three parts for maximum fit and communication comfort. Individually packaged for total hygiene guarantee. Main applications: sanding, wood dust, paint, fiberglass and oil sprays.



Tech. Code	Type	Valve
K531010	FFP2	Yes

FILTERING RESPIRATORS FFP2

EN 149 FFP2 NR D

ITEM: 9320

Double elastic and nose clip for better fit, structure divided into three parts for maximum fit and communication comfort disposable. Individually packaged for total hygiene guarantee.
Main applications: sanding, wood dust, paint, fiberglass and oil sprays.



Tech. Code	Type	Valve
K522020	FFP2	No

FILTERING RESPIRATORS WITH VALVE FFP2

EN 149 FFP2 NR D

ITEM: 8822

Cool-Flow patent valve for excellent breathing comfort, double elastic and nose clip for better fit disposable.
Main applications: sanding, wood dust, paint, fiberglass and oil sprays.



Tech. Code	Type	Valve
K532010	FFP2	Yes

FILTERING RESPIRATORS WITH VALVE FFP3

EN 149 FFP3 NR D

ITEM: 9332

Soft foam sealing edge absorbs - moisture. Disposable. 3M patent exhalation valve to reduce internal heat, double elastics and nose clip for a better fit. Main applications: processing of stainless steel, heavy metals, chromium, nickel, lead, asbestos fibres.



Tech. Code	Type	Valve
K535010	FFP3	Yes

FILTERING RESPIRATAORS FFP2

EN 149 FFP2 NR D

ITEM: 9152E

The 9152E Disposable Dust filerting respirators provides affordable FFP2 protection by featuring a V-fold design and filtering material that makes breathing easier.
It is equipped with an adjustable metal nose clip for a personalized fit and side tabs for easy positioning on the face.



Tech. Code	Type	Valve
K534310	FFP2	No

FILTERING RESPIRATORS WITH FFP3 VALVE

EN 149 FFP3 NR D

ITEM: M1300VC

Mask made of non-woven synthetic fibre. 0% Latex.
Adjustable nose clip.
Sponge edge reinforcement under the nose clip.
High-performance exhalation valve.
Straps: elastic.
Box 5 pieces.



Tech. Code	Type	Valve
K520910	FFP3	Yes

HALF-MASKS FOR GAS AND VAPOURS

FFA1 P2 R D

ITEM: 4251+ / 400

Exhalation valve to reduce heat build-up, parabolic exhalation valve to reduce overheating. Comfortable hypoallergenic edge. Maintenance free. Offers protection from dangerous gases, vapours and dust. Main applications: spray painting, galvanic baths and working with solvents and resins.
The protective pre-filter extends the life of the main filters.



Tech. Code	Description
K5380100	Complete respirator
K5380R100	Pre-filter for painting protection (pack of 10)

SEMI-MASK WITH TWO FILTERS FOR GAS AND VAPOR

EN 140

ITEM: 6100 - 6200 - 6300

Half-mask for protective filters for bayonet fixing system, the mask is supplied without filters. Avilable in 3 sizes.
Supplied without filters.



Tech. Code	Size	Item:
K5400100	S	6100
K5400200	M	6200
K5400300	L	6300

FULL FACE MASK

ITEM: 6800

Full face masks 3M™ Reusable 6800 series with Bayonet Filter Attachment, dual filter design reduces breathing resistance for maximum comfort and balance. The large polycarbonate lens offers good visibility and is impact resistant to EN166.b. Gas, vapor and particulate protection. The mask is supplied without filters.



Tech. Code	Size	Item:
K5500100	M	6800

GAS AND VAPOR FILTERS FOR SEMI-MASKS

EN 140

ITEM: 6051 - 6059 - 5935

Filters with bayonet fixing system for half mask.



K5401RA1



K5401RABEK1

K5401RP3



K5402G01

Tech. Code	Class
K5401RA1	A1
K5401RABEK1	ABEK1
K5401RP3	P3

Tech. Code	Description
K5402G01	Filter holder



Tractel®

Fall arrest products and solutions for PROFESSIONALS



FALLS FROM HEIGHT PROTECTION STANDARD LEGEND

EN 341	Descent devices
EN 353-1	Guided type fall arresters on a rigid anchorage line
EN 353-2	Guided type fall arresters on a flexible anchorage line
EN 354	Lanyards
EN 355	Energy absorbers
EN 360	Retractable type fall arresters
EN 361	Full body harnesses
EN 362	Connectors
EN 363	Fall arrest systems
EN 364	Test Method
EN 365	General requirements for instructions for use and for marking
EN 795	Anchor devices - Requirements and testing



HARNESSES

EN 361

ITEM: HT45

Harnesses with leg loops.
Back attachment (forged De') EN 361

Five adjustment points.

Tech. Code	K6130M	K6130XL
Size	M	XL



EN 361

ITEM: HT22

Back attachment (forged De').
Equipped with positioning belt with two lateral hitch D rings. EN 361

Six adjustment points..

Tech. Code	K61350S/L	K61350XL
Size	S / L	XL



SAFETY ROPES

ITEM: 78362

Polyamide rope. Length 2 m with a reducer + 2M10 (EN 358/2000) Ø 12 mm.

Tech. Code		K613601
Ø	mm	11



ENERGY ABSORBING SYSTEM

ITEM: 75142

Double polyester straps 27 mm, Length 2 m (connector M10 e 2M53). EN 355

Tech. Code		K61370
Length	m	2
Width	mm	30
Intervention distance	m	1,6



PROTECTIVE HELMETS

ITEM: 443240

Protective helmets particularly suitable for working at altitudes, polyamide fastening strap with a four hole fastening position. Internal structure with six fastening positions, anti-sweat strap, shell of helmet with air ventilation in ABS injection molded, with high impact and compression resistance. Back cover colour orange that gives greater visibility in low light conditions and protects the upper part of the neck .
Protection against electrical current of 1000 V AC, 1500 V DC (EN 50365).



Tech. Code		K613801
Size	cm	min. 51 - max. 63
Weight	g	375

FALL ARRESTING DEVICES

CE

EN 360

ITEM: BLOCFOR 6 SM47-10

Auto-retracting textile tape with energy absorber.
Plastic protective casing and automatic swivel carabiner.
Vertical use.



Tech. Code		K62006
Tape width	mm	17
Tape length	m.	6
Min. use distance	m	0.6
Capacity	kg	150 max

CE

EN 360

ITEM: BLOCFOR 10 M46-10

Auto-retracting metal cable with energy absorber.
ABS casing and automatic swivel carabiner with fall indicator.
Vertical use.



Tech. Code		K621010
Ø cable	mm	4.7
Cable length	m	10
Min. use distance	m	0.7
Capacity	kg	150 max

DOUBLE TEAR DISSIPATOR

CE

EN 355

ITEM: LDAD 12

The double lanyard with energy absorber constitutes a connecting element between fixed or mobile anchor points and the anchor point on the harness.The energy absorber safely stops a fall from a height.Without the shock absorber, a free fall to 50 cm can cause serious injury.



Tech. Code		K613101
Length	m	2
Diameter	mm	12,5

FALL PROTECTION HARNESS

EN 361

ITEM: ET10

A simple and cost-effective fall arrest harness.
A steel "D" dorsal anchor, 3 adjustment points.
Excellent for occasional and short-term work, not suitable for long-term applications.
Supported weight: 150kg (operator + equipment)



Tech. Code		K6133M
Weight	g	700
Size		universal

EN 361

ITEM: ET11

A simple and cost-effective fall arrest harness.
A steel "D" dorsal anchorage, three adjustment points, a fabric sternal anchorage.
Excellent for occasional and short-term work, not suitable for long-term applications.
Supported weight: 150kg (operator + equipment)



Tech. Code		K6134M
Weight	g	700
Size		universal

FALL PROTECTION HELMET - PPE III CAT.

EN 397

ITEM: 48862

Fall protection helmet compliant with EN397, equipped with a chin strap with 4 fixing points.
Extremely low weight and wide upward field of vision.
HPDE. shell
EURO headphone connection.
Adjustment from 53 to 62cm.



Tech. Code		K613901
Colour		White
Weight	g	350

ANTI-FALL KITS

ITEM: 443410 - 443420

Scaffolding kit consisting of:
HT22 size M/XL + Blocfor B10 ESD (cable length 10m)
AS19S webbing
Combipro sack 30l

Tech. Code	Size
K614310M	M
K614310XL	XL



PLASTIC SIGN CHAINS

ITEM: K6000

Red/white plastic chains, Injection made, seamless, lightweight, washable, floating, resistant to bad weather.

Tech. Code		K6000D6
Ø	mm	6
Length	m	25



HOOKS FOR JOINING PLASTIC CHAINS

ITEM: K6010

Plastic "S" shaped hook junctions.

Tech. Code		K60100
Ø	mm	8
Package	pcs	30



PLASTIC CHAIN STANCHIONS FOR DELIMITATIONS

ITEM: K6100

Complete with a concrete base, coated in black plastic, shock-proof. Highly efficient signal effect.
Colour: red/white.

Tech. Code		K61002
Height	mm	900

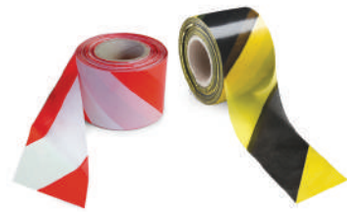


POLYETHYLENE SIGNAGE TAPE

ITEM: K7200

Warning signal tape for the identification of posts, scaffolding, poles, protruding parts etc.
Colour: red/white and black/yellow.

Tech. Code	Colour	Height mm	Length m
K7200BR	Red/white	70	200
K7200NG	Black/yellow	70	200





GENERAL CATALOGUE

To buy any products of this PFERD catalogue contact our commercial office. Delivery time depends on the availability of our supplier, you will receive a confirmation of your order with the details of the delivery date.

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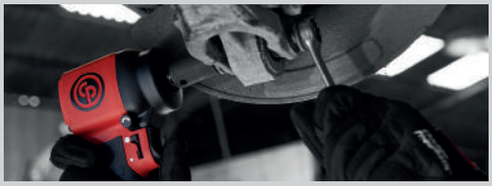
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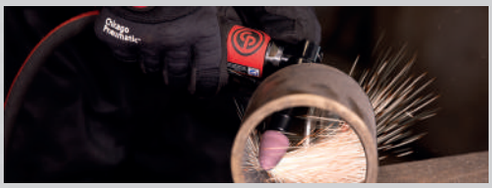
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PNEUMATICS

L















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Pneumatic impact wrenches
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Pneumatic impact wrenches

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LINK partner

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AIR IMPACT WRENCHES

Ingersoll Rand

CE

ITEM: LA158-EU

Air impact wrenches with 3/8" square drive. The small size of these tools allows access even in tight spaces. The wide range of settings allows the power to be adapted to the need of the application.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar



Tech. Code		L004938
Square coupling	■	3/8"
Torque range	Nm	100
Max torque	Nm	136
Idle speed	Rpm	1000
Blows per minute	Nr	1400
Air inlet connector	NPT	1/4"
Air consumption	L/min	450
Air Inlet Ø int.	mm	10
Noise level	dBA	88.4
Vibration*	m/s²/K	3.3 / 1.1
Length	mm	137
Weight	Kg	1.25

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

AIR IMPACT WRENCHES

Chicago Pneumatic

NEW

CE

ITEM: CP7732C

Ultra-compact Pneumatic wrenches with composite housing and large hammer impact mechanism, direction of rotation can be operated with one hand by means of forward/reverse button, 2-stage power adjustment when tightening (maximum torque ~ 387 Nm and minimum torque ~ 70 Nm) and maximum when unscrewing. Thermoplastic rubber-coated handle for easy handling.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar



Tech. Code		L004612
Tool attachment	■	1/2"
Max. torque when screwing	Nm	387
Max. torque when unscrewing	Nm	625
No-load speed	Rpm	9410
Minute hits	Nr.	1400
Air inlet connection	NPT	1/4"
Air consumption	L/min	600
Air inlet pipe Ø int.	mm	10
Noise	dBA	106,5
Vibrations	m/s²/K	10,8 / 1,4
Length	mm	108
Weight	Kg	1

AIR IMPACT WRENCHES

Ingersoll Rand

CE

ITEM: 36QMAX

Pneumatic wrenches of the Ultra-compact Impactools™ series are characterised by their compactness and excellent quality, aimed at the most demanding applications. The design ensures high comfort, Ingersoll Rand's Twin Hammer impact mechanism is the most robust, durable and reliable mechanism in the industry. Ultra-sensitive push-button control, 3 levels of power adjustment in screwing and maximum in unscrewing.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar



Tech. Code		L004812
Square coupling	■	1/2"
Torque range	Nm	520
Max torque	Nm	870
Idle speed	Rpm	8000
Blows per minute	Nr	1300
Air inlet connector	NPT	1/4"
Air consumption	L/min	538
Air Inlet hose Ø int.	mm	10
Noise level	dBA	91.3
Vibration*	m/s²/K	8.1 / 1.2
Dimension L x P x H	mm	117 x 60 x 181
Weight	kg	1,2

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

AIR IMPACT WRENCHES

Ingersoll Rand



ITEM: 231GXP

The most popular product for maintenance professionals as it offers longer lifetime and features such as quieter operation and a rubber-coated handle for greater comfort. The 231GXP is a MUST for all maintenance professionals. Maximum reverse torque of 610 Nm, exhaust handle draws air away from the operator and work area, variable power control.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L005112
Square coupling	■	1/2"
Torque range	Nm	407
Max torque	Nm	610
Idle speed	Rpm	8.000
Blows per minute	Nr	1200
Air inlet connector	NPT	1/4"
Air consumption	L/min	618
Air Inlet hose Ø int.	mm	10
Noise level	dB(A)	91,5
Vibration*	m/s²/K	6,3 / 2,1
Dimension L x P x H	mm	185 x 67 x 195
Weight	kg	2,7

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.



ITEM: 2136QXPA

Ingersool Rand's 2136QXPA silenced impact wrench combines power that exceeds needs with an incredible level of comfort. Whether it's industrial repair or automotive maintenance, it delivers all the power needed to complete the most critical tasks, while protecting the operator's hearing and reducing fatigue.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L004712
Tool coupling	■	1/2"
Torque range	Nm	949
Torque max	Nm	1500
No-load speed	Rpm	11000
Blows per minute	Nr	1250
Air-entry coupling	NPT	1/4"
Air consumption	L/min	142
Air inlet hose Ø int.	mm	10
Noise level	dBA	90,7
Vibration	m/s²/K	13,3 / 4,6
Dimension L x P x H	mm	190 x 70 x 183
Weight	Kg	1,8

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

AIR IMPACT WRENCHES

Chicago Pneumatic



ITEM: CP7741

Pneumatic wrenches with composite housing and double-hammer impact mechanism, direction of rotation operable via rear button, 2-stage power adjustment when tightening (maximum torque ~ 690 Nm and minimum torque ~ 120 Nm) and maximum when unscrewing.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L005212
Tool attachment	■	1/2"
Max. torque when screwing	Nm	690
Max. torque when unscrewing	Nm	970
No-load speed	Rpm	10000
Minute hits	Nr.	1005
Air inlet connection	NPT	1/4"
Air consumption	L/min	558
Air inlet pipe Ø int.	mm	10
Noise	dBA	103
Vibrations	m/s²/K	8,5 / 2,7
Length	mm	194
Weight	Kg	2,25

AIR IMPACT WRENCHES

Ingersoll Rand

ITEM: 2236QTIMAX



Air impact wrenches Series 2236 with patented Drive Xchange System™ that allows tool shafts to be changed without the need for torque-reducing adapters or extensions. The powerful motor, durable construction and quiet operation make the 2236 the perfect choice for demanding technicians.
The scope of supply includes a short type tool shaft (13 mm) with square drive (with spring) for 1/2" socket spanners
Optional accessories include shafts with different tool holder connections (3/8" - 3/4") and extended shafts (50 to 254 mm)

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L005312
Square coupling	■	1/2"
Torque range	Nm	1220
Max torque	Nm	2034
Idle speed	Rpm	7500
Blows per minute	Nr	1350
Air inlet connector	NPT	1/4"
Air consumption	L/min	678
Air Inlet hose Ø int.	mm	10
Noise level	dBA	94,2
Vibration*	m/s²/K	11,4 / 4,3
Length	mm	187
Weight	kg	2

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

ITEM: 2906P1



The 2900 Series is designed for long service life, the blades, impact masses and shafts are designed for intensive use of the screwdriver in maintenance and industrial production. The 5-position power regulator helps to adapt the power to the application. Twin Hammer Ingersoll Rand impulse mechanism, pressure fed mechanism lubrication, integrated silencer reducing operator fatigue.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L005412
Square coupling	■	1/2"
Torque range	Nm	475
Max torque	Nm	678
No-load speed	Rpm	5,000
Blows per minute	Nr	1200
Air inlet connector	NPT	1/4"
Air consumption	L/min	648
Air Inlet hose Ø int.	mm	10
Noise level	dBA	83.7
Vibration*	m/s²/K	7.2 / 0.8
Length	mm	175
Weight	kg	2.72

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

AIR IMPACT WRENCHES

Chicago Pneumatic

NEW

ITEM: CP7748



Powerful and durable Pneumatic wrenches with composite housing and double-hammer impact mechanism, one-handed operation using forward/reverse button, 2-stage power adjustment when tightening (maximum torque ~ 750 Nm and minimum torque ~ 95 Nm) and maximum when unscrewing. Thermoplastic rubber-coated handle for easy handling.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L005612
Tool attachment	■	1/2"
Max. torque when screwing	Nm	750
Max. torque when unscrewing	Nm	1300
No-load speed	Rpm	7000
Minute hits	Nr.	1350
Air inlet connection	NPT	1/4"
Air consumption	L/min	720
Air inlet pipe Ø int.	L/min	10
Noise	dBA	105,3
Vibrations	m/s²/K	12 / 4,5
Length	mm	175
Weight	Kg	2

AIR IMPACT WRENCHES

ITEM: 2146Q1MAX



The 2146QMax series tools are the most powerful Air impact wrenches in its class, these tools have an innovative built-in pressure gauge that ensures optimised air flow and pressure, the Twin Hammer hammer head and cold forged motor offer more torque, durability and efficiency, while the innovative pressure gauge improves productivity and extends tool life, the silenced technology reduces noise while preserving the operator's hearing. Peak torque 2700 Nm and max torque 1970 Nm in just 3.5 kg machine weight.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L005734
Square Drive	■	3/4"
Torque range	Nm	1970
Max torque	Nm	2700
Idle speed	Rpm	5500
Blows per min	Nr	1075
Air entry coupling	NPT	3/8" F
Air consumption	L/min	1019
Air Inlet tube Ø int.	mm	12
Noise level	dBA	94,3
Vibrationi*	m/s²/K	8,4 - 3
Dimension L x P x H	mm	216 x 89 x 210
Weight	Kg	3,5

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty

PNEUMATIC WRENCHES WITH REVERSIBLE RATCHETS

ITEM: 107XPA



One of the world's best selling ratchet wrenches with 3/8" drive, the 107XPA offers increased durability with an advanced head design. 73 Nm maximum torque, 360° adjustable exhaust directs air away from the operator, variable speed lever.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L007038
Square coupling	■	3/8"
Torque range	Nm	14 - 61
Max torque	Nm	73
Speed A/R	Rpm	160
Air inlet connector	NPT	1/4" F
Air consumption	L/min	530
Air Inlet Ø int.	mm	10
Noise level	dBA	94,4
Vibration*	m/s²/K	2,4 / 0,7
Length	mm	279
Weight	kg	1,25

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

ITEM: 1077XPA



One of the world's best selling 1/2" air impact wrenches, the 1077XPA offers increased durability with an advanced head design. 73 Nm maximum torque, 360° adjustable exhaust directs air away from the operator, variable speed lever.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L007212
Square coupling	■	1/2"
Max. torque	Nm	61
Max torque	Nm	73
Idle speed	Rpm	160
Air inlet hose	NPT	1/4" F
Air consumption	L/min	530
Air Inlet Ø int.	mm	10
Noise level	dBA	94,4
Vibration*	m/s²/K	2,4 / 0,7
Length	mm	279
Weight	Kg	1,25

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

PNEUMATIC WRENCHES WITH REVERSIBLE RATCHETS

Ingersoll Rand

CE

ITEM: 1211MAX-D4



The high-speed ratchet wrenches of the 1211MAX series offer a free speed of 625 rpm and an innovative impact mechanism with no torque reaction, 108 Nm of peak torque and speed regulator for increased productivity.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L007312
Square Drive	■	1/2"
Max. torque	Nm	81
Torque max	Nm	89
NO-load speed	Rpm	625
Air entry coupling	NPT	1/4" F
Air Consumption	L/min	388
Air inlet Ø int.	mm	10
Noise Level	dBA	90,3
Vibration*	m/s²/K	12,7 / 2,6
Length	mm	302
Weight	kg	1,38

* ISO28927 - 3-axis measurement: Vibration level/uncertainty of measurement.

PNEUMATIC WRENCHES

Ingersoll Rand

CE

ITEM: LA413-EU



Pneumatic wrenches straight, reversible, with adjustable clutch, the right compromise for diverse assemblies.
Screw/unscrew switch can be operated with one hand.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L008014
Hex coupling	⬣	1/4"
Max torque	Nm	13
No-load speed	Rpm	1800
Power	Kw	0,25
Air inlet connector	NPT	1/4" F
Air consumption	L/min	84
Air inlet hose	mm	10
Noise level	dBA	85,5
Vibration	m/s²	< 2,5
Length	mm	260
Weight	Kg	1,5

CE

ITEM: LA439-EU



Pneumatic wrenches with pistol grip, reversible and with adjustable clutch, the right compromise for diverse assemblies.
Equipped with one-hand operation screw/unscrew switch.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L008514
Hex coupling	⬣	1/4"
Max torque	Nm	13
Speed A/R	Rpm	1800
Power	Kw	0,25
Air inlet connector	NPT	1/4" F
Air consumption	L/min	84
Air inlet hose Ø int.	mm	10
Noise level	dBA	86,9
Vibration	m/s²	< 2,5
Length	mm	216
Weight	Kg	1,1

REVERSIBLE AIR DRILLS

WRK

ITEM: L1006



Reversible drills for forward or reverse operation.
Composite material/steel grip and keyless chuck.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L100606
Steel drilling capacity	mm	6
Chuck fitting	UNF	3/8"
Power	Kw	0,23
Speed A/R	Rpm	2600
Noise level	dBA	84
Vibration level	m/s²	0,4
Air inlet connector	NPT	1/4" F
Air consumption	L/min	690
Length	mm	148
Weight	kg	0,6

While stocks last

REVERSIBLE AIR DRILLS

Ingersoll Rand

ITEM: 7802RAKC



Reversible air drills with 10 mm keyless chuck. Excellent quality compact, powerful and lightweight product. Incredibly handy with innovative features, produced by INGERSOLL RAND a global leader in the industry.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L102010
Steel drilling capacity	mm	10
Speed A/R	Rpm	2000
Power	Kw	0,38
Air Inlet connection	NPT	1/4" F
Air consumption	L/min	736
Air inlet hose Ø int.	mm	10
Noise level	dBA	82
Vibration	m/s²	2,8
Length	mm	188
Weight	kg	1,2

ITEM: 7803RA



Reversible pneumatic drills with 13 mm keyed chuck. Excellent compact, powerful and lightweight (1.6 Kg) product. Incredibly handy with innovative features, produced by INGERSOLL RAND a global leader in the industry.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L102213
Steel drilling capacity	mm	13
Speed A/R	Rpm	500
Power	Kw	0,38
Air Inlet connection	NPT	1/4" F
Air consumption	L/min	765
Air Inlet hose Ø int.	mm	10
Noise level	dBA	83
Vibration	m/s²	< 2,5
Length	mm	221
Weight	kg	1.6

PNEUMATIC REVERSIBLE DRILLS

ITEM: 7803RAKC



Reversible pneumatic drill with 13 mm keyless chuck. Compact, powerful, excellent product with low weight (1.6 kg). Incredibly handy and with innovative features from the prestigious INGERSOLL RAND world leader in the sector.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L102313
Steel drilling capacity	mm	13
No-load speed	Rpm	500
Power	Kw	0,38
Air inlet connection	NPT	1/4 "F
Air consumption	L/min	765
Air inlet pipe Ø int.	mm	10
Noise	dBA	83
Vibrations	m/s²	< 2.5
Length	mm	221
Weight	kg	1,6

PNEUMATIC ENGRAVING PENS



ITEM: L1202

Vibrating pneumatic pens for marking the most varied materials such as metal, glass, etc.
The equipment includes a fine carbide tip.

Tech. Code		L1202150
Stokes per minute	BPM	30000
Noise level	dBA	65
Vibration (ISO 8662-4)	m/s²	< 2,5
Air inlet tube Ø int.	mm	4
Air inlet connection	BSP	1/4"
Air consumption	L/min	15
Dimension Ø x L	mm	17 x 150
Weight	kg	0,15

Thin spare tip code L1204RIC - Medium spare tip code L1203RIC

PNEUMATIC ENGRAVING PENS



ITEM: 140EP

The Ingersoll Rand 140EP pen is a precision tool for engraving on any surface, from alloys to brittle ceramics, the soft rubber grip and slim body design make it ideal for extended use.

Tech. Code		L1206140
Strokes per minute	BPM	11400
Air Inlet connection	NPT	1/4" F
Air consumption	L/min	30
Air inlet tube Ø int.	mm	4
Noise level	dBA	77,5
Vibration*	m/s²/K	3,9 / 0,88
Length	mm	140
Weight	kg	0,20

* ISO28927 - 3-axis measurement: Vibration level/uncertainty of measurement.

ANGLE GRINDERS



ITEM: GTV1000 - 100000

Compact and extremely easy to handle high quality industrial turbine grinders, suitable for micro-deburring and finishing with solid carbide and ceramic tools. Thanks to the engine mounted on rolling supports, the vibrations are almost absent. The high number of revolutions of these machines requires checking the technical specifications of the tool to check their compatibility.
Features:
- Front air discharge
- Operation via a rotary valve located on the handle

Standard equipment:
- Model collect ZG5 Ø 3 mm cod. 1226192
- Supply hose 1,5 , COD. 1226240
- 2 Service keys cod. 1226765

Power supply: Compressed air Non-lubricated - Recommended pressure 6.3 Bar

Tech. Code		L121403
Collect Ø	mm	3
Power	Watt	100
Max speed	Rpm	100000
Air consumption	L/min	318
Quick air coupling	Tap	European DN 7.8
Noise level	dB(A)	70
Vibration	m/s²	< 2,5
Dimension Ø x L	mm	30 x 120
Weight without tube	kg	0,21

Pliers model ZG5 with different diameters are available on request

ANGLE GRINDERS

MANNESMANN DEMAG



ITEM: G551D - 55000

High quality industrial grinders, simple, manageable and reliable, suitable for milling, deburring, finishing and engraving with solid carbide, ceramic and abrasive tools. The high number of revolutions of these machines requires checking the technical specifications of the tool to check their compatibility.
Features:
- Rear air discharge with integrated silencer
- Operation via a rotary valve located on the handle
Standard equipment:
- Model collect ZG5 Ø 3 mm cod. 1226292
- Supply hose 1.5 m and exhaust 1 m with silencer cod. 1226275
- 2 Service keys cod. 1226765

Power supply: Lubricated compressed air - Recommended pressure 6,3 Bar

Tech. Code		L122003
Collect Ø	mm	3
Power	kW	100
Max speed	Rpm	55000
Air consumption	L/min	120
Quick air coupling	Tap	European DN 7.8
Noise level	dB(A)	74
Vibration	m/s²	< 2,5
Dimension Ø x L	mm	14 x 120
Weight without tube	kg	0,15

Pliers model ZG5 with different diameters are available on request

PNEUMATIC GRINDERS

Ingersoll Rand



ITEM: 320PG

Mini grinders reliable and easy to handle thanks to their extremely small dimensions, ideal for light deburring and finishing operations with abrasive wheels, solid carbide and ceramic tools.
Features:
- Rear air discharge
- Activation by rotary valve located on the handle
Standard equipment:
- Collet Ø 3 mm
- Inlet hose and exhaust hose
- 2 service keys

Tech. Code		L128003
Collect Ø	mm	3
Power	Watt	70
Max speed	Rpm	60000
Air Inlet	NPT	1/8" F
Air consumption	L/min	220
Air inlet tube Ø int.	mm	6
Noise level	dBA	83
Vibration*	m/s²	2,4 / 0,73
Length	mm	140
Weight	kg	0,23

ISO28927 - 3-axis measurement: Vibration level/uncertainty of measurement.

ANGLE GRINDERS

Chicago Pneumatic



ITEM: CP9104Q

Extremely compact mini die grinders suitable for light deburring and precision finishing operations with abrasive wheels, solid carbide and ceramic tools.
Features:
- Rear air exhaust
- Operated by rotary valve on handle

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar
Standard equipment includes 2 pliers, one service spanner, one supply and exhaust hose.
Replacement collet Ø 3 mm code 1411708 - Replacement collet Ø 1/8" code 1411709

Tech. Code		L128203
Pliers Ø	mm	3 - 1/8"
Power	Watt	40
Max. speed	Rpm	60000
Air inlet connection	NPT	1/4"
Air consumption	L/min	198
Air inlet pipe Ø int.	mm	10
Noise	dBA	82
Vibrations	m/s²	< 2.5
Length	mm	133
Weight	Kg	0,2

PNEUMATIC DIE GRINDERS



ITEM: 307B

Versatile and economic Smart Line pneumatic die grinders, suitable for deburring welds, grinding and polishing. Front air discharge, safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L129506
Collet Ø	mm	6
Power	Kw	0,19
Max speed	Rpm	28000
Air inlet connector - consumption	NPT	1/4" F
Air inlet hose	L/min	680
Noise level	mm	10
Vibration*	dBA	90
Weight	m/s²/K	4,5 / 1,1
Length	mm	132
Weight	kg	0,33

* ISO28927 - 3-axis measurement: vibration level/ measurement uncertainty.
Spare collet Ø 6 mm code 1194977
Spare collet Ø 3 mm code 1266398

ANGLE GRINDERS



ITEM: CP7405

Straight angle grinders with composite housing, compact and lightweight, easy to handle, ideal for printers and maintenance personnel. Thanks to the spindle locking system, the operator is able to change tools using only one spanner.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar
Standard equipment includes 3 collets and one service spanner
Replacement collet Ø 3 mm code 1411628 - Replacement collet Ø 6 mm code 1411629 - Replacement collet Ø 1/4" mm code 1411631

Tech. Code		L129606
Pliers Ø	mm	6 - 3 - 1/4"
Power	Watt	250
Max. speed	Rpm	28000
Air inlet connection	NPT	1/4"
Air consumption	L/min	78
Air inlet pipe Ø int.	mm	10
Noise	dBA	87,2
Vibrations	m/s²/K	3,6 / 1
Length	mm	176
Weight	Kg	0,5

PNEUMATIC DIE GRINDERS



ITEM: 5108MAX-M - 5107MAX-M - 5106MAX-M

MAX Series angle grinders are economical and durable, compact and lightweight, easy to handle, and equipped with high quality ball bearings for increased reliability. Designed to operate without lubricant, they avoid contaminating the working environment. Improved handle design with low-profile control lever for fatigue-free operation.

Power supply: Compressed air Unlubricated - Recommended pressure 6.3 Bar

Tech. Code		L130106	L130106A	L130106B
Collet Ø	mm	6	6	6
Power	Kw	0.3	0,3	0,3
Max speed	Rpm	25000	30000	35000
Air inlet connector	NPT	1/4" F	1/4" F	1/4" F
Air consumption	L/min	708	708	708
air inlet tube Ø int.	mm	10	10	10
Noise level	dBA	80,7	87,2	91,7
Vibration*	m/s²/K	3,1 / 1,0	3,1 / 1,0	3,1 / 1,0
Length	mm	168	168	168
Weight	kg	0,64	0,64	0,64

* ISO28927 - 3-axis measurement: vibration level/ measurement uncertainty.
Spare collet Ø 6 mm code 1194977
Spare collet Ø 3 mm code 1266398

ANGLE GRINDERS

Chicago Pneumatic

NEW



ITEM: CP7410

Pneumatic extended angle grinders with composite housing, compact and lightweight, easy to handle, ideal for printers and maintenance personnel. Thanks to the spindle locking system, the operator is able to change tools using only one spanner.

Feed: Lubricated compressed air - Recommended pressure 6.3 Bar
Standard equipment includes 3 collets and one service spanner
Replacement collet Ø 3 mm code 1411628 - Replacement collet Ø 6 mm code 1411629 - Replacement collet Ø 1/4" mm code 1411631

Tech. Code		L130406
Pliers Ø	mm	6 - 3 - 1/4"
Power	Watt	250
Max. speed	Rpm	27000
Air inlet connection	NPT	1/4"
Air consumption	L/min	60
Air inlet pipe Ø int.	mm	10
Noise	dBA	87,1
Vibrations	m/s²/K	4,9 / 1
Length	mm	248
Weight	Kg	0,65

ANGLE GRINDERS

Ingersoll Rand

NEW



ITEM: 5208MAX-M

MAX Series angle grinders are economical and durable, compact and lightweight, easy to handle, and equipped with high quality ball bearings for increased reliability. Designed to operate without lubricant, they avoid contaminating the working environment. Improved handle design with low-profile control lever for fatigue-free operation.

Power supply: Compressed air Unlubricated - Recommended pressure 6.3 Bar

Tech. Code		L130606
Pliers Ø	mm	6
Power	Kw	0,3
Max. speed	Rpm	25.000
Air inlet connection	NPT	1/4 "F
Air consumption	L/min	708
Air inlet pipe Ø int.	mm	10
Noise	dBA	85,5
Vibrations*	m/s²/K	3 / 0,4
Length	mm	244
Weight	kg	0,64

* ISO28927 - 3-axis measurement: vibration level/ measurement uncertainty.
Spare collet Ø 6 mm code 1194977
Spare collet Ø 3 mm code 1266398

PNEUMATIC DIE GRINDERS

Ingersoll Rand



ITEM: 301B

Versatile and economic Smart Line pneumatic angle grinders, suitable for deburring welds, grinding and polishing.Safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L134006
Collet Ø	mm	6
Power	Kw	0,19
Max. speed	Rpm	21000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	680
Air inlet hose Ø int	mm	10
Noise level	dBA	91,8
Vibration*	m/s²/K	5,9 / 1
Length	mm	134
Weight	kg	0,46

* ISO28927 - 3-axis measurement: vibration level/ measurement uncertainty.
Spare collet Ø 6 mm code 1194977
Spare collet Ø 3 mm code 1266398

ANGLE GRINDERS

Chicago Pneumatic



ITEM: CP7406

90° angle grinders with composite housing, compact and lightweight, easy to handle, ideal for printers and maintenance personnel. Thanks to the spindle locking system, the operator is able to change tools using only one spanner.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar
Standard equipment includes 3 collets and one service spanner
Replacement collet Ø 3 mm code 1411628 - Replacement collet Ø 6 mm code 1411629 - Replacement collet Ø 1/4" mm code 1411631

Tech. Code		L134106
Pliers Ø	mm	6 - 3 - 1/4"
Power	Watt	250
Max. speed	Rpm	23000
Air inlet connection	NPT	1/4"
Air consumption	L/min	78
Air inlet pipe Ø int.	mm	10
Noise	dBA	89,1
Vibrations	m/s²/K	5,4 / 1,3
Length	mm	163
Weight	Kg	0,6

PNEUMATIC DIE GRINDERS

Ingersoll Rand



ITEM: 302B

The compact and easy to handle Series 300 pneumatic angle grinders are suitable for deburring, grinding and polishing moulds. Safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L134206
Collet Ø	mm	6
Power	Kw	0,25
Max. speed	Rpm	20000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	651
Air inlet hose Ø int.	mm	10
Noise level	dBA	90
Vibration*	m/s²/K	5,5 / 1,5
Length	mm	176
Weight	kg	0,58

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.
Spare collet Ø 6 mm code 1327718

PNEUMATIC DIE GRINDERS

Ingersoll Rand



ITEM: 5102MAX-M

MAX Series air angle grinders are economical and durable, compact and lightweight, easy to handle, and equipped with high quality ball bearings for increased reliability. Designed to operate without lubricant, they avoid contaminating the working environment. Improved handle design with low-profile control lever for fatigue-free extended operation.

Power supply: Compressed air Unlubricated - Recommended pressure 6.3 Bar

Tech. Code		L134406	L134406A
Collect Ø	mm	6	6
Power	Kw	0,3	0,3
Speed	Rpm	20000	12000
Air inlet connector	NPT	1/4" F	1/4" F
Air consumption	L/min	708	708
Air Inlet hose Ø int.	mm	10	10
Noise level	dBA	84,1	85,6
Vibrationi*	m/s²/K	3,3 / 1,1	3,3 / 1,1
Length	mm	180	180
Weight	kg	0,64	0,64

* ISO28927 - 3-axis measurement: vibration level/ measurement uncertainty.
Spare collet Ø 6 mm code 1194977
Spare collet Ø 3 mm code 1266398

PNEUMATIC ANGLE GRINDERS



ITEM: 345MAX-M

The 345MAX-M angle grinders are the ideal choice for effective material removal. This 125mm pneumatic angle grinder combines a unique internal regulator (which prevents an excessive increase in speed) with a powerful 0.66 kW motor to provide the best power-to-weight ratio in its category and high-performance material removal. Safety lever actuated, compliant with EN 792.

Power supply: Not lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L1410125
Disc Ø	mm	125
Thread Ø	mm	22 (M14)
Power	Kw	0,66
Max. speed	Rpm	12.000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	1161
Air inlet hose Ø int.	mm	10
Noise level	dBA	79,6
Vibration	m/s²	7,9
Length	mm	245
Weight	kg	1,6

AIR BELT SANDERS



ITEM: G1A200PS812

Small 0.4 HP (0.3 kW) belt sander, ideal for the removal of light material, cleaning rough castings, deburring components, cleaning weld seams and other finishing operations. The G1 series offers a low noise level, reduced vibration and direct access to the motor for maintenance. Safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L1502305
Belt dimension	mm	13 x 305
Power	Kw	0,3
No load speed	Rpm	20.000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	708
Air Inlet tube Ø int.	mm	8
Noise level	dBA	83,6
Vibration*	m/s²/K	2,6 / 0,7
Length	mm	273
Weight	kg	0,54

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

AIR BELT SANDERS



ITEM: L1504

Belt sanders without bevel gear, with speed variator and digital display. 360° rotating head.
Safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L1504330
Belt dimension	mm	10 x 330
Power	kW	0,25
No load speed	Rpm	18.000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	690
Air inlet tube Ø int.	mm	8
Noise level	dBA	84
Vibration level	m/s²	< 2,5
Dimension L x P	mm	340 x 80
Weight	kg	1

The products are available in chapter L

ROTO-ORBITAL PNEUMATIC SANDERS

ITEM: 4151-HL

Reduced vibration model designed for extracting dust via suction, produces a very high quality finish and connects to central or portable vacuum systems. The 4151-HL sander removes dust and particles through and around the pad, keeping it away from the motor and work area. Can be used with 6-hole Velcro discs.



Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L1551150
Pad Ø	mm	150
Orbit Ø	mm	5
Power	kW	0,15
Max speed	Rpm	12.000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	450
Air inlet hose Ø int.	mm	8
Noise level	dBA	81,6
Vibration*	m/s²/K	7,5/1,6
Length	mm	190
Weight	kg	0,87

* ISO28927 - 3-axis measurement: Vibration level/uncertainty of measurement.

RANDOM OBITAL SANDERS

ITEM: 5151-6-HL

Orbital Optimal Heavy Duty Sanders 5100 Series Ingersoll Rand®offer the efficiency you need for high-level productivity.They can be used with 6-hole velcro abrasive discs on multiple surfaces, such as wood, composie materials, fiberglass and sheet steel.



Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L1553150
Pad Ø	mm	150
Orbit Ø	mm	5
Power	Kw	0,22
Max speed	Rpm	12000
Air inlet connection	NPT	1/4" F
Air consumption	L/min	496
Air Inlet tube Ø int.	mm	8
Noise level	dBA	77,6
Vibration*	m/s²/K	6 / 2
Length	mm	166
Weight	kg	0,82

*ISO28927 - 3- axis measurement: vibration level/measurement uncertainty.

HAND-HELD DISC SANDERS

ITEM: L1550

Small angle sander. Without bevel gear. Available for Ø 50 and 75 mm discs. Its light weight and ergonomics means that it can be used with the palm of the hand and in a wide variety of processes. Mounts type R quick coupling discs of the G2410 - G2420 - G2430 ranges.



Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L155050	L155075
Pad Ø	mm	50	75
Power	kW	0,25	0,25
Max speed	Rpm	20.000	20.000
Air inlet connector	NPT	1/4" F	1/4" F
Air consumption	L/min	540	560
Noise level	dBA	79	79
Vibration	m/s²	< 2,5	< 2,5
Dimension L x P x H	mm	103 x 50 x 90	103 x 75 x 90
Weight	kg	0,48	0,55

PNEUMATIC JIGSAWS

ITEM: 4429



Pneumatic jigsaws ergonomic compact designed to cut plastic, fibreglass, aluminium, composite materials and sheet steel.§The small size of these tools makes it easier to access even tight spaces. Safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L158010
Strokes per minute	Nr	5000
Stroke length	mm	10
Air inlet connector	NPT	1/4" F
Air comsumption	L/min	255
Air inlet hose Ø int.	mm	10
Noise level	dBA	66,2
Vibration*	m/s²/K	9,5 / 2,4
Length	mm	356
Weight	kg	0,74

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

BLADES FOR AIR RECIPROCATING SAWS

ITEM: P4EV-6 / P4CS-6 / P4FS-6



Bi-metal blades for use with all standard pneumatic saws with 1/2" shank.

Tech. Code		N519814	N519824	N519832
Total length	mm	100	100	100
Teeth	TPI	14/18	24	32
Package content	pc.	6	6	6

The price shown refers to a pack

PNEUMATIC SHAPERS

ITEM: SH-100A



The pneumatic shapers Nitto SH-100A is ultra-small, ultra-lightweight air tool, therefore incredibly user-friendly.
Its double-acting piston system ensures low-vibration levels, yet a high-performance, powerful tool.

Standard accessories files Kit diameter 5mm length 105mm:
- 1 round file Ø 2.5mm
- 1 triangular file 2.5mm
- 1 half rounded file 3mm
- 1 rectangular file 7x3mm

Tech. Code		L160009
Run	mm	9
Blade stroke/min	Nr.	3700
File coupling Ø max	mm	6,3
Air entry coupling	NPT	1/8"
Air consumption	L/min	240
Noise level	dBA	82
Length	mm	177
Weight	kg	1,1

PNEUMATIC LAPPING TOOLS

ITEM: L1700



Pneumatic lapping tools suitable for small operations and maintenance which is necessary for tools with alternative movement.
Standard equipment:
Pliers Ø 3 mm with provision for the use of flat tools 1 mm thick.

Tech. Code		L170010
Length run	mm	0,5
Runs per minute	Nr.	45000
Maximum pressure	Bar	6
Noise level (ISO 15744)	dBA	80
Dimension Ø x L	mm	23 x 185
Weight	kg	220

* Stones available on chapter G.7 of this catalogue

SPRING BALANCERS FLEX LIGHT SERIES



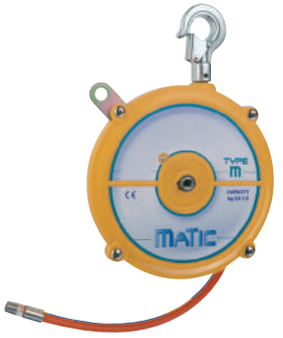
ITEM: FLEX TYPE B

Sheet steel housing. Spring with adjustable load. Adjustable cable run. Safety device against spring break. Suitable for the balanced suspension of tools and frames.

Tech. Code		L2100005015	L2100010020	L2100020035
Load capacity	kg	0.5-1.5	1-2	2-3.5
Cable length	m	2.30	2.30	2.30
Cable		Braided nylon	Braided nylon	Braided nylon
Weight	kg	0.60	0.65	0.65

Tech. Code		L2100030060	L2100050085	L2100080110
Load capacity	kg	3-6	5-8.5	8-11
Cable length	m	2.30	2.30	2.30
Cable		Coated steel	Coated steel	Coated steel
Weight	kg	1.65	1.70	1.75

SPRING BALANCERS MATIC WITH COMPRESSED AIR HOSE



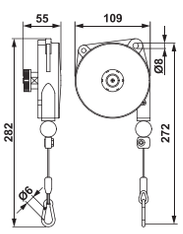
ITEM: MATIC

Composite material housing. Spring with adjustable load. Adjustable hose run. Specifically designed for pneumatic tools, the feeding hose is also the tool supporting cable.

Tech. Code		L2105005015	L2105015030	L2105030050
Load capacity	kg	0,5-1,5	1.5-3	3-5
Pipe length	m	1,60	1,60	1,60
Fitting		¼" M	¼" M	¼" M
Weight	kg	1,6	1.7	1.8

SPRING BALANCERS - LIGHT SERIE RUN 1600

TECNA





ITEM: 9310 - 9311 - 9312 - 9313

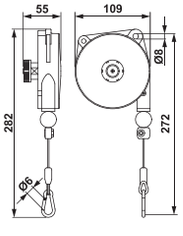
Structural characteristics:
- Suitable for the assembly lines
- Indicated for the use of electrical and pheumatic tools

Advantages:
- Reduces the operator's labour
- Reduces the working time
- Improves the quality of work
- Limits the damage to tools and risks to people

Tech. Code		L2200002005	L2200004010	L2200010020	L2200020030
Load capacity	Kg	0,2 ÷ 0,5	0.4 ÷ 1	1 ÷ 2	2 ÷ 3
Weight	Kg	0,55	0.6	0.6	0.7
Run	mm	1600	1600	1600	1600
Cable		Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum

SPRING BALANCERS - SERIE NYLON RUN 1600

TECNA





ITEM: 9310NY - 9311NY - 9312NY - 9313NY

Features:
- Aluminium cap and polypropylene rope
- Suitable for assembly lines
- Suitable for use with small electric and pneumatic tools

Advantages:
- Eliminates operator fatigue
- Reduces machining time
- Improves work quality
- Limit wear and tear and possible damage to tools and persons

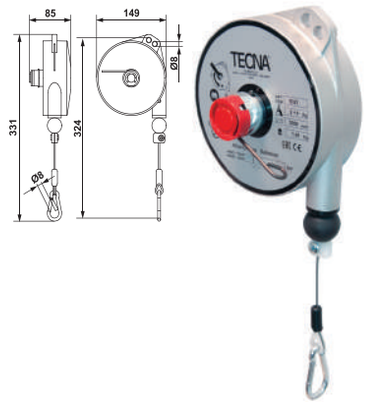
Tech. Code		L2202002005	L2202004010	L2202010020	L2202020030
Load capacity	Kg	0,2 ÷ 0,5	0,4 ÷ 1	1 ÷ 2	2 ÷ 3
Weight	Kg	0,5	0,5	0,6	0,7
Excursion	mm	1600	1600	1600	1600
Cable		Polipropilene	Polipropilene	Polipropilene	Polipropilene
Cap		Aluminium	Aluminium	Aluminium	Aluminium

L

SPRING BALANCERS - LIGHT SERIE RUN 2000

TECNA

ITEM: 9320 - 9321 - 9322 - 9323



Structural characteristics:
- Suitable for the assembly lines
- Indicated for the use of electrical and pneumatic tools

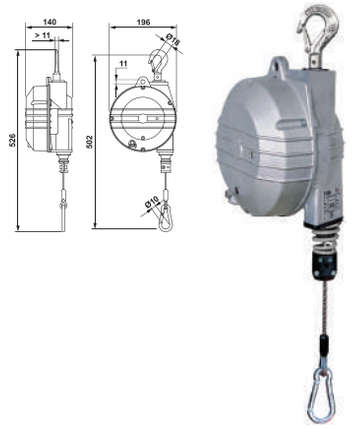
Advantages:
- Reduces the operator's labour
- Reduces the working time
- Improves the quality of work
- Limits the damage to tools and risks to people

Tech. Code		L2210010025	L2210020040	L2210040060	L2210060080
Load capacity	Kg	1 ÷ 2.5	2 ÷ 4	4 ÷ 6	6 ÷ 8
Weight	Kg	2	2	2.3	2.5
Run	mm	2000	2000	2000	2000
Cable		Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum

SPRING BALANCERS - MEDIUM SERIE RUN 2000

TECNA

ITEM: 9356 - 9357 - 9358 - 9359



Structural characteristics:
- Suitable for the assembly lines
- Indicated for the use of electrical and pneumatic tools and handling of medium loads, portable welders and multiple screw drivers

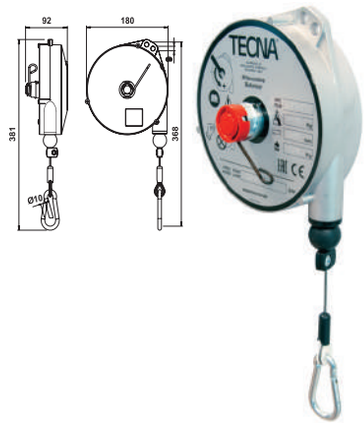
Advantages:
- Reduces the operator's labour
- Reduces the working time
- Improves the quality of work
- Limits the damage to tools and risks to people

Tech. Code		L2230100140	L2230140180	L2230180220	L2230220250
Load capacity	Kg	10 ÷ 14	14 ÷ 18	18 ÷ 22	22 ÷ 25
Weight	Kg	5.5	6.5	6	6.6
Run	mm	2000	2000	2000	2000
Cable		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum

SPRING BALANCERS - LIGHT SERIE RUN 2500

TECNA

ITEM: 9336 - 9337 - 9338 - 9339 - 9340



Structural characteristics:
- Suitable for the assembly lines
- Indicated for the use of electrical and pneumatic tools and handling of medium loads

Advantages:
- Reduces the operator's labour
- Reduces the working time
- Improves the quality of work
- Limits the damage to tools and risks to people

Tech. Code		L2220020040	L2220040060	L2220060080	L2220080100	L2220100140
Load capacity	Kg	2 ÷ 4	4 ÷ 6	6 ÷ 8	8 ÷ 10	10 ÷ 14
Weight	Kg	2.9	3.2	3.5	3.7	4
Run	mm	2500	2500	2500	2500	2500
Cable		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

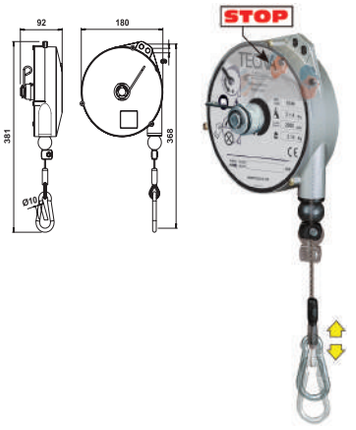
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SPRING BALANCERS - SERIE WITH SAFETY BLOCK RUN LOCK 2500

TECNA

CE

ITEM: 9346 - 9347 - 9348 - 9349 - 9350



Features:
- Equipped with a device that allows you to stop the run
- Suitable for assembly lines
- Suitable for the use of electric or pneumatic tools and for handling medium loads

Advantages
- Cancels the operators fatigue
- Reduces processing time
- Improve the quality of work
- Limits wear and damage to tools and people

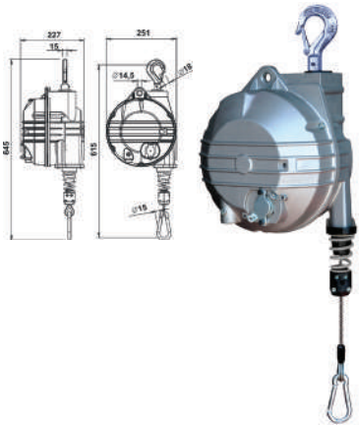
Tech. Code		L2225020040	L2225040060	L2225060080	L2225080100	L2225100140
Load capacity	Kg	2 ÷ 4	4 ÷ 6	6 ÷ 8	8 ÷ 10	10 ÷ 14
Weight	Kg	3	3,3	3,6	3,8	4
Excursion	mm	2500	2500	2500	2500	2500
Cable		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

SPRING BALANCERS - HEAVY SERIE RUN 2700

TECNA

CE

ITEM: 9520 - 9521 - 9522 - 9523 - 9524 - 9525



Features:
- Suitable for assembly lines
- Suitable for handling heavy parts, portable welding machines and industrial screwdrivers

Advantages:
- Adjustable capacity by endless screw
- Auxiliary safety sospension
- Safety device against load drop due to spring breakage (> 3 Kg)
- Upper sospension with revolving safety hook
- Divice to lock the load at any height
- Adjustable stroke limiter

Tech. Code		L2245120200	L2245200300	L2245300400	L2245400500	L2245500600	L2245600700
Load capacity	Kg	12 ÷ 20	20 ÷ 30	30 ÷ 40	40 ÷ 50	50 ÷ 60	60 ÷ 70
Weight	Kg	12,8	12,6	15,8	15,4	16,6	15,7
Excursion	mm	2700	2700	2700	2700	2700	2700
Cable		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

Related products

NEW

U-Power SAFETY FOOTWEAR

Tech. Code	EU Size	UK Size
K181744	44	10
K181745	45	10,5
K181746	46	11
K181747	47	12



Product available in postcode K

BLOW GUNS

ITEM: 25/B1

Professional blow guns with progressive air valve. Aluminum body and nickel- plated steel lever.

Tech. Code	L3100100	L310014
Fitting	1/4" milled nut	BSP 1/4" F



ITEM: 25/B1-RB

Professional blow guns with rubber protection and progressive air valve.Aluminum body and nickel-plated lever.

Tech. Code	L3101101	L310114
Fitting	1/4" milled nut	BSP 1/4" F



BLOW GUNS

ITEM: AP/1

Professional blow guns in nylon PA6 with progressive air valve, ergonomic design,brass plated nozzel. Body,lever and valve in nylon PA6. Threaded 1/4"F.

Tech. Code	L3105101
Fitting	BSP 1/4" F



BLOW GUNS

ITEM: BG2603-HF

Blow guns Atlas Copco BG series are durable and easy to use. The plastic body offers flexibility in handling, insulates the operator's hand from the cold and reduces the risk of scratches on work surfaces.

Specifications:
Version with long and bent barrel

Tech. Code	L313001
Coupling	BSP 1/4"F

Complies with OSHA STD1-13.1 and OSHA 1910.95



BLOW GUNS

ITEM: L3152

Blow guns in plastic with bent spout L = 100 mm, threaded 1/4"F.

Tech. Code	L3152100
Fitting	BSP 1/4" F



ITEM: L3162

Professional blow guns with progressive air valve and spring in stainless steel. Rotating attachment with thread 1/4"M removable. Body in hostform C and spout in chromed steel L=110 mm.

Tech. Code	L3162100
Fitting	1/4" M swivel



BLOW GUNS WITH SILENT NOZZEL

ITEM: 25/AR

Professional blow guns with progressive air valve and silent nozzel in brass. Noise level max 78 dBA. Aluminum body and nickel-plated lever. Threaded 1/4"F + fitting with milled nut.



Tech. Code	L3110100	L311014
Fitting	Milled nut 1/4"	BSP 1/4"F

SAFETY BLOW GUNS

ITEM: 25/AN

Professional blow guns with progressive air valve and antinfortunistic nozzel in brass.Aluminum body and nickel-plated lever.



Tech. Code	L3115100	L311514
Fitting	1/4" milled nut	BSP 1/4" F

SAFETY BLOW GUNS

ITEM: BG2605-STSS

Atlas Copco BG series blow guns are durable and easy to use. The plastic body offers flexibility in handling, insulates the operator's hand from the cold and reduces the risk of scratches on work surfaces.
Specifications:
Model with short barrel and star tip which reduces the risk of hand injuries.



Tech. Code	L311601
Coupling	BSP 1/4"F

ITEM: BG2606-STS

Blow guns Atlas Copco BG series are durable and easy to use. The plastic body offers flexibility in handling, insulates the operator's hand from the cold and reduces the risk of scratches on work surfaces.
Specifications:
Model with long barrel complete with silencer and star tip which reduces the risk of hand injuries.



Tech. Code	L311801
Coupling	BSP 1/4"F

BLOW GUNS AJUSTABLE MULTIFLOW

ITEM: 11-210-0450

The mutiflow blow gun CEJN effectively cleans surfaces by air or fluid with a strong blowing inequality jet force. It is possible to obtain a defined flow thanks to the position of the settings. The nozzle can be regolated from a thin jet stream to a wide ranging stream.
Multiflow complies with all safety standards OSHA in cases of obstructive tips.



Tech. Code		L3120100
Air flow		Ajustable 200 l/min - 1200 l/min
Coupling		BSP 1/4" F
Noise level	dB	79 - 101
Weight	g	205

BLOW GUNS - EXTENDEND REACH SPOUT

ITEM: 25/B2

Professional blow guns with progressive air valve, with extended reach spout. Spout in aluminum, length 180 mm.Aliminum body and nickel-plated lever.



Tech. Code		L3150100	L315014
Fitting		1/4" milled nut	BSP 1/4" F
Spout	mm	180	180

BLOW GUNS - EXTENDEND REACH SPOUT

ITEM: 25/B2-RB

Professional blow guns with extended spout and non-slip rubber handle, progressive air valve.
Aluminum body and nickel-plated lever.



Tech. Code		L3151100	L315114
Fitting		1/4" milled nut	BSP 1/4" F
Spout	mm	180	180

BLOW GUNS EXTENDED REACH

ITEM: 25/B2-RB-500

Professional blow guns with extra long lance and non-slip rubber grip, progressive air valve.
Aluminium body and nickel-plated steel lever.



Tech. Code		L315314
Coupling		BSP 1/4" F
Nozzle	mm	500

ITEM: AP/2-500

Professional blow guns made of Nylon PA6 with extra long lance and progressive air valve.
Nylon PA6 body, lever and valve, nickel-plated steel nozzle.



Tech. Code		L315414
Coupling		BSP 1/4" F
Nozzle	mm	500

BLOW GUNS

ITEM: AP/3

Professional blow guns made of Nylon PA6 with progressive valve, ergonomic design, nickel-plated brass nozzle and bent barrel L=100 mm.



Tech. Code	L3155101	L3155102
Fitting	1/4" milled nut	BSP 1/4" F

ACCESSORIES FOR BLOW GUNS AP/3

ITEM: S - G - AR

Accessories for professional blow guns in nylon PA6 bent spout:

- Anti-splinter shield
- Anti-scratch
- Nozzel silencer



Tech. Code	L3156S	L3156G	L3156R
Accessory	Anti-splinter shield	Anti-scratch nozzle	Nozzle silencer

BLOW GUNS

ITEM: AP/3G

NEW

Professional blow guns made of Nylon PA6 with progressively opening valve, ergonomic design, scratch-proof rubber nozzle and bent barrel L=105 mm.



Tech. Code	L315714
Attachment	BSP 1/4" F

BLOW GUNS

ITEM: 11-208-3100 - 11-208-0100



Blow guns Series 208 equipped with a valve that allows use with both compressed air and non-flammable water-based fluids. Acetal resin gun body and brass tube, max. working pressure 16 bar, operating temperature -20°C +60°C.

Features:
L316300Fixed hose with silencerStar-Tip (Standard OSHA STD 01-13-001, OSHA 1910.95)
L316301Fixed pipe with free flow

Tech. Code		L316300	L316301
Tube length	mm	90	90
Attachment	BSP	1/4" F	1/4" F
Scope	l/min	190	500
Noise level	dB	79	96
Weight	g	96	96

ITEM: 11-209-3200 - 11-209-0200 - 11-209-3100



209 Series blow guns equipped with a valve that allows use with both compressed air and non-flammable water-based fluids. Acetal resin gun body, rubbery plastic handle and brass tube, max. working pressure 16 bar, operating temperature -20°C +60°C.

Features:
L316400Removable hose with Star-Tip silencer (Standard OSHA STD 01-13-001, OSHA 1910.95)
L316401Removable hose with free flow
L316402HI-VIS High Visibility Series with removable hose and Star-Tip silencer (Standard OSHA STD 01-13-001, OSHA 1910.95)

Tech. Code		L316400	L316401	L316402
Tube length	mm	90	90	90
Attachment	BSP	1/4" F	1/4" F	1/4" F
Scope	l/min	208	528	208
Noise level	dB	82	96	82
Weight	g	127	127	127
Colour		Blue/Black	Blue/Black	Green/Black

RUBBER NOZZLES FOR 208 AND 209 SERIES GUNS

ITEM: 11-208-9960



Set of 3 nozzles with rubber tip for use on delicate surfaces. Also suitable for pressurisation, such as leakage or cylinder testing. Nozzles fit directly into the hose of Series 208 and Series 209 guns.

Tech. Code		L3166KIT
Nozzles Ø	mm	14 - 25 - 35

PROTECTIVE SHIELDS FOR 208 AND 209 SERIES GUNS

ITEM: 11-208-9955



Transparent shields to protect operators from flying fragments. The shields attach directly to the hose of Series 208 and Series 209 guns and can be locked in any position thanks to a nitrile seal.

Tech. Code		L316710
Screens Ø	mm	100

EXTENDED PIPES FOR 208 AND 209 SERIES GUNS

ITEM: 11-208-3219



Extended hoses fit directly into the threading of Series 208 and Series 209 guns, facilitate access to hard-to-reach areas and meet OSHA noise and safety requirements.

Tech. Code		L3169300
Length	mm	300

TYRE INFLATORS

ITEM: 25/D

Tyre inflators with manometer 60 mm diameter precision class 1.6. Aluminium plated body, rubber hose 6,5 x 12 L=400 mm. Inflating head 25/W for tyres with schrader valve 8 mm diameter.

Tech. Code		L3200100
Fitting	Bar	0 - 12
Coupling		Milled nut 1/4"



TYRE INFLATORS

ITEM: 25/G-60

Tyre inflators with rear manometer 60 mm diameter, precision class 2,5. Aluminium plated body, rubber hose 6,5 x 12L=400 mm. Inflating head 25/W with schrader valve 8 mm diameter.

Tech. Code		L3205100
Fitting	Bar	0 - 12
Coupling		Milled nut 1/4"



JET GUNS FOR LIQUID DISTRIBUTION

ITEM: 26/CR-G

Jet guns for the distribution of non aggressive liquids with jet regulating valve. Regulating nozzel 2,5 mm diameter.

Tech. Code	L3220100
Fitting	3/8" F BSP



PARAFFIN SPRAY GUNS

ITEM: 26/B

Paraffin spray guns. Aluminum bayonet tank, internal and external distributing tube in metal.

Tech. Code		L3230100
Tank	L	1
Fitting		1/4" milled nut



ITEM: 26/B-TN

Paraffin spray guns, screw-on steel tank, metal delivery tube internally coated with nylon.

Tech. Code		L3232100
Tank	L	1
Coupling		Milled nut 1/4"



PAINT SPRAY GUNS GRAVITY FEED

ITEM: F1/N- SUPER/S



Paint spray guns with 500 ml gravity feed cup suitable for use with any type of paint and with insulating primers.
Features:
- CNC machined hot-pressed nickel-plated brass nozzle cap
- Brass nozzle CNC machined from bar stock
- Stainless steel AISI 303 needle ø 3 mm
- Pressure and airflow regulator
- Jet regulator from round to fan spray pattern
- Paint quantity regulator
- Stainless steel springs and PTFE washers
- Nylon cup with drip-catching device

Operating pressure: 2 ÷ 6 Bar

Tech. Code		L325012	L325015	L325018	L325020	L325025
Nozzle Ø	mm	1.2	1.5	1.8	2.0	2.5
Coupling		BSP 1/4" M	BSP 1/4" M	BSP 1/4" M	BSP 1/4" M	BSP 1/4" M

Supplied with spanner for carrying out maintenance
Spare nozzle kit supplied on request - Code L3250...R

PAINT SPRAY GUNS SUCTION FEED

ITEM: F1/N- SUPER/I



Paint spray guns with 1000 ml suction feed tank suitable for use with any type of paint and with insulating primers.

Features:
- CNC machined hot-pressed and nickel-plated brass nozzle cap
- Brass nozzle CNC machined from bar stock
- Stainless steel AISI 303 needle ø 3 mm
- Pressure and airflow regulator
- Jet regulator from round to fan spray pattern
- Paint quantity regulator
- Stainless steel springs and PTFE washers
- Nylon cup with drip-catching device

Operating pressure: 2 ÷ 6 Bar

Tech. Code		L325212	L325215	L325218	L325220	L325225
Nozzle Ø	mm	1.2	1.5	1.8	2.0	2.5
Coupling		BSP 1/4" M	BSP 1/4" M	BSP 1/4" M	BSP 1/4" M	BSP 1/4" M

Supplied with spanner for carrying out maintenance
Spare nozzle kit supplied on request - Code L3252...R

PAINT SPRAY GUNS GRAVITY FEED PROFESSIONAL USE

ITEM: F160/S



Paint spray guns designed for highly professional use. Lightweight and ergonomic, making them ideal for prolonged use, reducing operator fatigue. The high performance combined with the ease of use are aimed at simplifying all painting operations.

Features:
- Stainless steel AISI 303 nozzle (needle ø 3 mm)
- High atomization nozzle cap in nickel-plated brass
- High atomization system
- **HPS** technology
- Pressure and airflow regulator
- Jet regulator from round to fan spray pattern
- Paint quantity regulator
- Stainless steel springs and PTFE washers
- Nylon cup 600ml with drip-catching device and filter

Operating pressure: 2 ÷ 6 Bar

Tech. Code		L325415	L325417	L325419
Nozzle Ø	mm	1.5	1.7	1.9
Coupling		BSP 1/4" M	BSP 1/4" M	BSP 1/4" M

Supplied with pipe cleaners and spanner for carrying out maintenance.
Spare nozzle kit supplied on request - Code L3254...R

PRESSURE REGULATORS MINI SERIES

ITEM: T020-MINI

MINI series pressure regulators made of engineering plastic with brass threaded parts and NBR seals.
GAS/BSP 1/8” pressure gauge coupling



Tech. Code		L413018	L413014
Coupling	G/BSP	1/8"	1/4"
Adjustment	Bar	0 - 8	0 - 8
Capacity	Nl/min	600	600

FILTER REGULATORS MINI SERIES

ITEM: T030-MINI

MINI series filter regulators made of engineering plastic with brass threaded parts and NBR seals.
GAS/BSP 1/8” pressure gauge coupling



Tech. Code		L414018	L414014
Coupling	G/BSP	1/8"	1/4"
Adjustment	Bar	0 - 8	0 - 8
Capacity	Nl/min	600	600
Filtration	µm	20	20

AIR PREPARATION UNITS FR+L MINI SERIES

ITEM: T100-MINI

The FRL MINI air preparation units (Filter-Regulator+ Lubricator) are essential elements in any pneumatic system for “treating” compressed air.
The Aignep FRL units are made of engineering plastic with brass threaded parts and can be used for all industrial applications.
Recommended oils: ISO VG 22A CLASS - ISO 3448 NORMA
GAS/BSP 1/8” pressure gauge coupling



Tech. Code		L415018	L415014
Coupling	G/BSP	1/8"	1/4"
Adjustment	Bar	0 - 8	0 - 8
Capacity	Nl/min	260	260
Filtration	µm	20	20

PRESSURE REGULATORS

ITEM: L4200

High-performance model with high stability and low pressure drop. Rolling membrane. Rapid discharge of overpressure. Knob with an adjustment locking device. Can be fixed to the wall using holes or brackets. G 1/8" pressure manometer coupling.



Tech. Code		L420014	L420038	L420012
Fitting		G 1/4”	G 3/8”	G 1/2”
Pressure	Bar	0 - 8	0 - 8	0 - 8
Inlet press.	Bar	16.0 max	12.5 max	12.5 max

COMBINATION UNITS FILTER / REGULATOR

ITEM: L4205

High-performance model with high stability and low pressure drop. Rolling membrane. Device for manual and semi-automatic condensation drainage. Polyamide bowl with external protection (Mod. 3/8"and 1/2" cup quick-coupling with anti-release safety mechanism). Can be fixed to the wall using holes or brackets (not included). Collected quantity of condensate (1/4" and 3/8" 42cc-1/2" 100 cc). G 1/8" pressure manometer coupling.



Tech. Code		L420514	L420538	L420512
Fitting		G 1/4"	G 3/8"	G 1/2"
Pressure	Bar	0 - 8	0 - 8	0 - 8
Inlet press.	Bar	16.0 max	12.5 max	12.5 max

FR+L GROUPS STANDARD SERIES

ITEM: L4210

Filter group regulator + lubricator with a drainage device. Cups in polyamide.



Tech. Code		L421014	L421038	L421012
Fitting		G 1/4"	G 3/8"	G 1/2"
Pressure	Bar	0 - 8	0 - 8	0 - 8
Inlet press.	Bar	16.0 max	12.5 max	12.5 max

Oil for tools NEBULIS H2011 is available on page H.9

MANOMETERS

ITEM: L4250



Tech. Code		L4250040	L4250050
Fitting		G 1/4"	G 1/8"
Unit of meas.	Bar	0 - 12	0 - 12
Unit of meas.	PSI	0 - 175	0 - 175
Ø	mm	40	50

DRY PRESSURE MANOMETERS - BOTTOM CONNECTION - ABS CASE

ITEM: L4251

Dry pressure guages with ABS case,brass interiors.



Standard reference:
EN 837-1 - precision class 2,5%

Tech. Code		L4251040002,5	L4251040004	L4251040006	L4251040010	L4251040012
Ø	mm	40	40	40	40	40
Thread		1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT
Pressure	Bar	0 - 2,5	0 - 4	0 - 6	0 - 10	0 - 12

Tech. Code		L4251063002,5	L4251063004	L4251063006	L4251063025
Ø	mm	63	63	63	63
Thread		1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	0 - 2.5	0 - 4	0 - 6	0 - 25

DRY PRESSURE MANOMETERS - REAR CONNECTION - ABS CASE

ITEM: L4253

Dry pressure guages with ABS case, brass interiors



Standard reference:
EN 837-1-class precision 2.5%

Tech. Code		L4253040001	L4253040002,5	L4253040004	L4253040006	L4253040010	L4253040012
Ø	mm	40	40	40	40	40	40
Thread		1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT
Pressure	Bar	0 - 1	0 - 2.5	0 - 4	0 - 6	0 - 10	0 - 12

Tech. Code		L4253050004	L4253050006	L4253050010	L4253050012	L4253063004	L4253063012
Ø	mm	50	50	50	50	63	63
Thread		1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	0 - 4	0 - 6	0 - 10	0 - 12	0 - 4	0 - 12

PRESSURE MANOMETERS - BOTTOM CONNECTION - STEEL CASE WITH GLYCERINE

ITEM: L4255

Bourdon spring guages with glycerine , stainless steel case AISI 304, Interior brass attack OT 58.



Standard reference:
EN 837-1 - class precision 1.6%
Protection grade IP67

Tech. Code		L4255063-1/0	L4255063001	L4255063006	L4255063010
Ø	mm	63	63	63	63
Thread		1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	-1 + 0	0 - 1	0 - 6	0 - 10

Tech. Code		L4255063025	L4255063040	L4255063060	L4255063100
Ø	mm	63	63	63	63
Thread		1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	0 - 25	0 - 40	0 - 60	0 - 100

Tech. Code		L4255063160	L4255063250	L4255063300	L4255063400	L4255063600
Ø	mm	63	63	63	63	63
Thread		1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	0 - 160	0 - 250	0 - 300	0 - 400	0 - 600

PRESSURE MANOMETERS - REAR CONNECTION - STEEL CASE WITH GLYCERINE

ITEM: L4258

Bourdon spring guages with glycerine, stailess steel case AISI 304, interior brass attack OT 58.



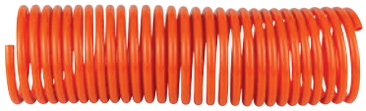
Standard reference:
EN 837-1 - class precision 1.6%
protection grade IP67

Tech. Code		L4258063010	L4258063025	L4258063040	L4258063060	L4258063100	L4258063250
Ø	mm	63	63	63	63	63	63
Thread		1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	0 - 10	0 - 25	0 - 40	0 - 60	0 - 100	0 - 250

SPIRAL HOSES IN POLYAMIDE PA6

ITEM: L5080

Spiral hoses in polyamide PA6 orange colour RAL 2004



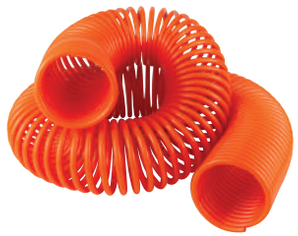
Features:
- Good pressure resistance
- Good chemical resistance

Tech. Code		L50800607	L50800615	L50800815	L50801030
Hose ø	mm	6 x 8	6 x 8	8 x 10	10 x 12
Total length	m	7,5	15	15	30
Spiral ø int.	mm	80	80	90	120
Useful length	m	4,5	9	9	17

SPIRAL HOSES IN POLYAMIDE PA12 WITH TONGS

ITEM: L5090

Polyamide hoses PA12 with tongs orange colour RAL 2004



Features:
- High flexibility
- Good resistance to chemical agents
- High resistance to abrasion
- Operating temperature from -40 ° C + 125 ° C

Tech. Code		L50900630	L50900830
Hose ø	mm	6 x 8	8 x 10
Total length	m	30	30
Spiral ø int.	mm	80	90
Useful length	m	17	17

ITEM: L5091

Spiral hoses in Polyamide PA12 color blu RAL 5010



Features:
- High flexibilty
- Good resistance to chemical agents
- High resistance to abrasion
- Operating temperature from -40°C +125°C

Tech. Code		L50910630	L50910830
Hose ø	mm	6 x 8	8 x 10
Total length	m	30	30
Spiral ø int.	mm	80	90
Useful length	m	17	17

SPIRAL HOSES IN POLYAMIDE PA12 CON CODOLI

ITEM: L5095

Spiral hoses in polyamide PA12 orange colour RAL 2004



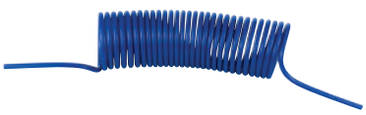
Features:
- High flexibilty
- Good resistance to chemical agents
- High resistance to abrasion
- Operating temperature from -40°C +125°C

Supplied with 2 straight end shanks

Tech. Code		L50950607	L50950615
Hose ø	mm	6 x 8	6 x 8
Total length	m	7,5	15
Spiral ø int.	mm	80	80
Useful length	m	4,5	9

ITEM: L5096

Spiral hoses in polyamide PA12 colour blue RAL 5010



Features:
- High flexibilty
- Good resistance to chemical agents
- High resistance to abrasion
- Operating temperature from -40°C +125°C

Supplied with 2 straight end shanks

Tech. Code		L50960607	L50960615
Hose ø	mm	6 x 8	6 x 8
Total length	m	7,5	15
Spiral ø int.	mm	80	80
Useful length	m	4,5	9

SPIRAL HOSES IN POLYURETHANE PU 98A PU 98A

ITEM: L5108

Spiral hoses in extra flexible polyurethane based on Polyester 98 shore A, light blue colour RAL 5015



Features:
- Excellent resistance to pressure
- High flexibility and elastic memory
- Resistant to abrasion, tearing, bending, cutting and perforation
- Resistant to oils and grease

Supplied pre-assembled with 2 swivel male connections 1/4" - 3/8" BSP.

Tech. Code		L51080506	L51080509	L51080512	L51080706	L51080709	L51080712
Hose ø	mm	5 x 8	5 x 8	5 x 8	7 x 10	7 x 10	7 x 10
Fittings	BSP	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Total length	m	6	9	12	6	9	12
Spiral ø int.	mm	40	40	40	50	50	50
Useful length	m	4	6	8	4	6	8

Tech. Code		L51080806	L51080809	L51080812
Hose ø	mm	8 x 12	8 x 12	8 x 12
Fittings	BSP	3/8"	3/8"	3/8"
Total length	m	6	9	12
Spiral ø int.	mm	60	60	60
Useful length	m	4	6	8

POLYURETHANE HOSES 98 SHORE A

ITEM: L5103

Polyurethane hoses 98 Shore A for industrial applications.



Features:
- Excellent flexibility and resistance to bending
- High resistance to abrasion
- High resistance to tearing and cutting
- Good resistance to oils and fats

Tech. Code		L51030402AZ	L51030604AZ	L51030806AZ	L51031008AZ
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8
Colour		Blue	Blue	Blue	Blue
Operating press	Bar	22	13	10	7
Roll	m	25	25	25	25

For other colours and dimension requested minimum order of 4 packs of 25 m

POLYAMIDE HOSES 98 SHORE A

ITEM: L5104

Polyamide hoses in polyester based 98 Shore A for industrial applications.



Features:
- Excellent flexibilty and resistance to bending
- High resistance to abrasion
- High resistance to tearing and cutting
- Good resistance to oils and grease

Other sizes and colours available on request

Tech. Code		L51040402NT	L510404025NT	L51040806NT	L51041008NT	L51041209NT
Dimension	mm	4 x 2	4 x 2,5	8 x 6	10 x 8	12 x 9
Colour		Neutral	Neutral	Neutral	Neutral	Neutral
Operating press	Bar	22	15	10	7	10
Roll	m	100	100	100	100	100

Tech. Code		L51040402AZ	L510404025AZ	L51040604AZ	L51040806AZ	L51041008AZ	L51041209AZ
Dimension	mm	4 x 2	4 x 2,5	6 x 4	8 x 6	10 x 8	12 x 9
Colour		Blue	Blue	Blue	Blue	Blue	Blue
Operating press	Bar	22	15	13	10	7	10
Roll	m	100	100	100	100	100	100

Tech. Code		L51040402NR	L510404025NR	L51040604NR	L51040806NR	L51041008NR	L51041209NR
Dimension	mm	4 x 2	4 x 2,5	6 x 4	8 x 6	10 x 8	12 x 9
Colour		Black	Black	Black	Black	Black	Black
Operating press	Bar	22	15	13	10	7	10
Roll	m	100	100	100	100	100	100

Tech. Code		L51040402RO	L510404025RO	L51040604RO	L51040806RO	L51041008RO	L51041209RO
Dimension	mm	4 x 2	4 x 2,5	6 x 4	8 x 6	10 x 8	12 x 9
Colour		Red	Red	Red	Red	Red	Red
Operating press	Bar	22	15	13	10	7	10
Roll	m	100	100	100	100	100	100

POLYAMIDE HOSES PA12 C

ITEM: L5114



DIN 73378 - DIN 74324
Polyamide PA12 HIPHL hoses for industrial and automotive applications.

Features:
- Excellent dimensional stability
- Resistance to pressure
- Resistance to chemical agents
- Operating temperature -40 ° C + 125 ° C

Tech. Code		L51140402NT	L51140604NT	L51140806NT	L51141008NT	L51141210NT
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8	12 x 10
Colour		Neutral	Neutral	Neutral	Neutral	Neutral
Roll	Bar	49	29	21	16	13
Roll	m	25	25	25	25	25

For the colours and dimension requested minimum order of 4 packs of 25 m

POLYAMIDE HOSES PA12

ITEM: L5116



DIN 73378 - DIN 74324
Polyamide PA12 HIPHL hoses for industrial and automotive applications.

Features:
- Excellent dimensional stability
- Resistance to pressure
- Resistance to chemical agents
- Operating temperature -40 ° C + 125 ° C

Other colours and dimension are available on request.

Tech. Code		L51160402NT	L51160604NT	L51160806NT	L51161008NT	L51161210NT
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8	12 x 10
Colour		Neutral	Neutral	Neutral	Neutral	Neutral
Operating press	Bar	49	29	21	16	13
Roll	m	100	100	100	100	100

Tech. Code		L51160402AZ	L51160604AZ	L51160806AZ	L51161008AZ
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8
Colour		Light blue	Light blue	Light blue	Light blue
Operating press	Bar	49	29	21	16
Roll	m	100	100	100	100

Tech. Code		L51160402GI	L51160604GI	L51160806GI	L51161008GI
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8
Colour		Yellow	Yellow	Yellow	Yellow
Operating press	Bar	49	29	21	16
Roll	m	100	100	100	100

Tech. Code		L51160402NR	L51160604NR	L51160806NR	L51161008NR
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8
Colour		Black	Black	Black	Black
Operating press	Bar	49	29	21	16
Roll	m	100	100	100	100

Tech. Code		L51160604RO	L51160806RO	L51161008RO
Dimension	mm	6 x 4	8 x 6	10 x 8
Colour		Red	Red	Red
Operating press	Bar	29	21	16
Roll	m	100	100	100

AIR RUBBER HOSES

ITEM: L5301



Compressed air hose with smooth inner and outer surface, specifically for compressors and pneumatic tools.
Rubber construction with internal textile fibre reinforcement, excellent resistance to crushing and creeping.
Temperature range - 30° + 80°C

Tech. Code		L5301614B	L5301614D	L5301817B	L5301817D	L53011019D	L53011323D
Dimension	mm	6 x 14	6 x 14	8 x 17	8 x 17	10 x 19	13 x 23
Colour		Black	Black	Black	Black	Black	Black
Operating pressure	Bar	20	20	20	20	20	20
Roll	m	25	100	25	100	100	100

STRAIGHT EXTRA FLEXIBLE POLYURETHANE HOSES

ITEM: L5118

CEJN straight braided hose is an excellent choice for applications requiring a maximum working pressure of up to 16 bar (232 PSI). It offers a wide range of operating temperatures and remarkable resistance to shock and wear. The hose rewinds easily to its original shape and has considerable abrasion resistance.



25 m rolls are supplied without the plastic support

Tech. Code		L51180625	L51180650	L51180825	L51180850	L51181125	L51181150
Dimensions	mm	6.5 x 10	6.5 x 10	8 x 12	8 x 12	11 x 16	11 x 16
Colour		Blue	Blue	Blue	Blue	Blue	Blue
Operating pressure	Bar	16	16	16	16	16	16
Roll	m	25	50	25	50	25	50

HOSE REELS FOR COMPRESSED AIR

ITEM: 92848.102/C2 - 92848.105/C2

Hose reels with automatic device for **controlled** rewinding of the **SAFETY SPEED CONTROL** hose and hose stop system at the desired length. Raasm reels are made of impact-resistant plastic and are suitable for use with compressed air, water and non-corrosive detergents. Standard equipment includes an adjustable metal bracket, Viton seals and swivel fittings complete with protective spring.



Tech. Code		L51310814	L51311009
Tube dimension	mm	8 x 12	10 x 14,5
Pipe length	m	14 + 1,5	8 + 1
Inlet connection	BSP	3/8" M	3/8" M
Outlet connection	BSP	1/4" M	3/8" M
Max. pressure	Bar	20	20
Pipe colour		Blue	Blue
Dimension	mm	387 x 331 x 178	387 x 331 x 178
Weight	Kg	7,9	7,9

HOSE REELS FOR COMPRESSED AIR

ITEM: 19-911

SafetyReel hose reels are high-quality air and fluid products designed for use in industrial environments. Their automatic, slow rewind with integrated automatic stop ensures safe and efficient operation by preventing hose recoil. The closed design of the hose reel offers durable hose protection and maintains consistent flow performance, even in demanding applications. An easy-to-install swivel bracket is included as standard.



Tech. Code		L51320810	L51320810H	L51320817	L51320817H	L51320914	L51320914H
Tube dimensions	mm	8 x 12	8 x 12	8 x 12	8 x 12	9,5 x 13,5	9,5 x 13,5
Tube length	m	10 + 1,5	10 + 1,5	17 + 1,5	17 + 1,5	14 + 1,5	14 + 1,5
Inlet connection	BSPT	1/4" M	1/4" M	1/4" M	1/4" M	3/8" M	3/8" M
Outlet connection	BSPT	1/4" M	1/4" M	1/4" M	1/4" M	3/8" M	3/8" M
Max. pressure	Bar	16	16	16	16	16	16
Pipe colour		Blue	Hi-vis Green	Blue	Hi-vis Green	Blue	Hi-vis Green
Dimensions	mm	313 x 313	313 x 313	409 x 409	409 x 409	409 x 409	409 x 409
Weight	Kg	4,9	4,9	6,5	6,5	6,5	6,5

COMPRESSED AIR HOSE REELS

CE

ITEM: 804/8 - 804/10

Hose reels for compressed air and fluids with polyurethane hose, engineering plastic structure, adjustable metal bracket and automatic hose stop device at the desired length.



Tech. Code		L513401	L513402
Hose inner diameter	mm	8	10
Tube length	m	10 + 1,5	8 + 1,5
Input connection	BSP	-	-
Outlet connection		1/4 "M	3/8 "M
Max. pressure	Bar	15	15
Hose colour		Blue	Blue
Dimensions	mm	360x310x185	430x400x210
Weight	Kg	4	7

HOSE REELS FOR COMPRESSED AIR

ITEM: 9100/6

Hose reels for compressed air and fluids with polyurethane hose, engineering plastic structure, swivelling metal bracket and automatic hose stop device at the desired length.



Tech. Code		L51355,5
Tube dimension	mm	5.5
Tube length	m	5.5 + 1
Inlet connection	mm	6x8
Outlet connection	BSP	1/4" M
Max. pressure	Bar	12
Tube colour		Blue
Dimension	mm	220x200x120
Weight	Kg	2

HOSE REELS FOR COMPRESSED AIR

ITEM: SAFETYREEL G2

SafetyReel G2 hose reels for compressed air and fluids complete the range with larger models, designed for longer hoses and higher flow rates, offering up to 30 metres of hose and an automatic rewind system in absolute safety thanks to an innovative patented brake. An easy-to-install swivel bracket comes as standard.

(1) eSafe 320 quick couplings male (2) eSafe 320 quick couplings female



Tech. Code		L514011	L514011E	L514011EH	L514013	L514013E	L514013EH
Pipe size	mm	11 x 16	11 x 16	11 x 16	13 x 18	13 x 18	13 x 18
Tube length	m	30 + 1,5	30 + 1,5	30 + 1,5	25 + 1,5	25 + 1,5	25 + 1,5
Inlet connection		1/2 "M BSPT	eSafe 320 (1)	eSafe 320 (1)	1/2 "M BSPT	eSafe 320 (1)	eSafe 320 (1)
Outlet connection		1/2 "M BSPT	eSafe 320 (2)	eSafe 320 (2)	1/2 "M BSPT	eSafe 320 (2)	eSafe 320 (2)
Max. pressure	Bar	16	16	16	16	16	16
Pipe colour		Blue	Blue	Hi-vis Green	Blue	Blue	Hi-vis Green
Dimension	mm	536 x 536	536 x 536	536 x 536	536 x 536	536 x 536	536 x 536
Weight	Kg	15	15	15	15	15	15

PRE-ASSEMBLED 1/4" SPIRAL HOSE KIT

ITEM: 19-958-946

Polyurethane spiral hoses extremely flexible, Pre-assembled with thread connections 1/4".



Tech. Code		L51110602	L51110604	L51110606	L51110608
Tube	Ø	6.5 x 10	6.5 x 10	6.5 x 10	6.5 x 10
Fitting		1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP
Length	m	2	4	6	8

Tech. Code		L51110802	L51110804	L51110806	L51110808
Tube	Ø	8 x 12	8 x 12	8 x 12	8 x 12
Fitting		1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP
Length	m	2	4	6	8

PRE-ASSEMBLED SPIRAL HOSE KIT SERIES 320 DN7.6

ITEM: 19-958-976

Polyurethane spiral hoses extremely flexible pre-assembled with quick connection an high working pressure 320 DN7.6 complete with security valve that prevents the whip effect.



Tech. Code		L51170804MT	L51170604MT
Tube	Ø	8 x 12	6.5 x 10
Length	m	4	4
Connection		Rapid eSafe 320 Male\Female	Rapid eSafe 320 Male\Female
Air flow		2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Max pressure		16 bar (232 PSI)	16 bar (232 PSI)
Standard		Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm

SPIRAL HOSE SET WITH 1/4" BSP BLOW GUNS SERIES 320 DN7.6

ITEM: 19-958-9328



Kit of 4 m spiral hose 6,5x10 kit with 1/4" STAR-TIP gun included.
CEJN blow guns feature wear resistance properties, user friendly, suit all cleaning applications.
Its plastic body ensures great flexibility for both right-hand and left-hand users while its insulation against cold reduces the risk of surface scratches.
This blow gun ensures outstanding progressive flow rate performance along with a simple air stream adjustment.

Tech. Code		L5124KIT
Gun		209 Star-Tip with quick coupling male on gun - Removable hose
Tube	Ø	6.5 x 10
Length	m	4
Connection		Rapid and safe 320 Male\Female
Air flow		2250 l/min (79.4 CFM)
Maximum pressure		16 bar (232 PSI)
Standard		Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm

BAYONET COUPLINGS WITH SPRING

ITEM: 60/MF - 60/MG

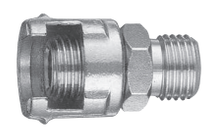


Bayonet couplings with spring for spiral tubes.
Nickel-plated brass body, nickel-plated steel spring.

Tech. Code		L52150608	L52150608G	L52150810	L52150810G
For tubes ø	mm	6 x 8	6 x 8	8 x 10	8 x 10
Specification		Fixed	Swivel	Fixed	Swivel

MALE THREADED FITTINGS WITH MILLED NUT

ITEM: 11/A - 11/B

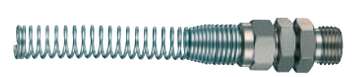


Fittings with milled nut male threaded ISO 228.
Brass/zinc alloy nickel-plated and milled nut in zama.

Tech. Code	L544514	L544538
Thread	1/4"	3/8"

COUPLING FITTINGS MALE THREADED WITH SPRING

ITEM: 61/MF - 61/MG



Male Threaded fittings cylindrical ISO228 with spring for spiral tubes.
Nickel-plated brass body, nickel-plated steel spring.

Tech. Code		L52250608	L52250608G	L52250810	L52250810G
For tubes ø	mm	6 x 8	6 x 8	8 x 10	8 x 10
Thread		Fixed	Swivel	Fixed	Swivel

QUICK COUPLINGS MALE THREADED

ITEM: 15/A-M



Quick couplings with male threaded cylindrical ISO 228.
Galvanized carbonitrided steel body.

Tech. Code	L541114	L541138
Thread	1/4"	3/8"

QUICK COUPLINGS FEMALE THREADED

ITEM: 15/A-F



Quick couplings female threaded cylindrical ISO 228.
Galvanized carbonitrided steel body.

Tech. Code	L541514	L541538
Thread	1/4"	3/8"

QUICK COUPLINGS MALE THREADED WITH SPRING

ITEM: 63/MF



Quick coulings with spring for spiral tubes.
Nickel-plated brass body, nickel-plated steel spring.

Tech. Code		L52080608	L52080810
For tubes ø	mm	6 x 8	8 x 10

QUICK COUPLINGS MALE THREADED WITH CONNECTING SLEEVE

ITEM: 14/A - 14/B



Quick couplings with hose end connector sleeve.
Nicke-plated brass.

Tech. Code		L54200614	L54200817
For tubes ø	mm	6 x 14	8 x 17

BAYONET PLUGS WITH HOSE CONNECTION SLEEVE

ITEM: 10/A - 10/B

Bayonet plugs with hose end connector sleeve.
Nickel-plated brass body.



Tech. Code		L54250614	L54250817
For tubes ø	mm	6 x 14	8 x 17

QUICK COUPLINGS FEMALE THREADED WITH SPRING

ITEM: 64/MF

Quick couplings sphere with spring for spiral tubes.
Nickel-plated brass body, nickel-plated steel spring. Nylon release shockproof ring.



Tech. Code		L52500608	L52500810
For tubes ø	mm	6 x 8	8 x 10

QUICK COUPLINGS FEMALE THREADED WITH CONNECTING SLEEVE

ITEM: 16/A - 16/B

Quick couplings sphere with hose end connector sleeve.
Nickel-plated brass body, nickel plated steel spring. Nylon release shockproof ring.



Tech. Code		L54300614	L54300817
For tubes ø	mm	6 x 14	8 x 17

QUICK COUPLINGS MALE THREADED

ITEM: 17/A - 17/B

Quick couplings sphere male threaded ISO 228.
Nickel-plated brass body,nickel.plated steel spring. Nylon release shockproof ring.



Tech. Code	L543514	L543538	L543512
Thread	1/4”	3/8”	1/2”

QUICK COUPLINGS FEMALE THREADED

ITEM: 17/C - 17/D

Quick couplings sphere female threaded ISO 228.
Nickel-plated brass body. Nylon release shockproof ring.



Tech. Code	L544014	L544038
Thread	1/4”	3/8”

QUICK COUPLINGS FEMALE WITH MALE THREAD - MULTI PROFILE

ITEM: 191

Multisockets can be used with 4 different types of profiles, ensuring a perfect seal for all.
Operating pressure 0-16 BAR.
Version with male thread Gas cylindrical
Complies with ISO 228 Class A.
Compatibility with:
- Swiss profile DN 5.5 mm
- European profile DN 7.5 - 7.8 mm
- Italian profile DN 5 mm
- UNI ISO 6150-B profile 12 DN 5.5 mm



Tech. Code		L545114	L545138	L545112
Thread	BSP	1/4"	3/8"	1/2"

QUICK COUPLING FEMALE WITH FEMALE THREAD - MULTI PROFILE

ITEM: 192

Multisocket can be used with 4 different types of profiles, ensuring a perfect seal for all.
Operating pressure 0-16 BAR.
Female thread version Gas Cylindrical compliant with ISO 228 Class A.
Compatibility:
- Swiss profile DN 5.5 mm
- European profile DN 7.5 - 7.8 mm
- Italian profile DN 5 mm
- UNI ISO 6150-B profile 12 DN 5.5 mm



Tech. Code		L545214	L545238	L545212
Thread	BSP	1/4"	3/8"	1/2"

QUICK COUPLINGS FEMALE WITH SPRING- MULTI PROFILE

ITEM: 193

Multisockets can be used with 4 different types of profiles, ensuring a perfect seal for all.
Operating pressure 0-16 BAR.
Version with spring for polyurethane and polyamide tubes.
Compatibility:
- Swiss profile DN 5.5 mm
- European profile DN 7.5 - 7.8 mm
- Italian profile DN 5 mm
- UNI ISO 6150-B profile 12 DN 5.5 mm



Tech. Code		L54540608	L54540810	L54541012
For tubes	mm	6 x 8	8 x 10	10 x 12

QUICK COUPLINGS FEMALE WITH HOSE CONNECTOR - MULTI PROFILE

ITEM: 196

Multi-socket couplings that can be used with 4 different types of profile, ensuring a perfect seal for all.
Operating pressure 0-16 BAR
Version with coupling for rubber hoses
Compatibility:
- Swiss profile DN 5.5 mm
- European profile DN 7.5 - 7.8 mm
- Italian profile DN 5 mm
- UNI ISO 6150-B 12 DN 5.5 mm profile

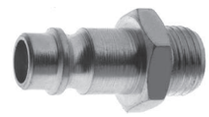


Tech. Code		L54560614	L54560817	L54561019
For tubes	mm	6 x 14	8 x 17	10 x 19

QUICK COUPLINGS MALE THREADED - PROFILE EU-DN7.5

ITEM: 261

Quick couplings in nickel-plated brass with European profile DN7.5 mm.
Operating pressure 0-16 BAR.
Version with male thread Gas cylindrical compliant with ISO 228 Class A.

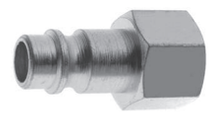


Tech. Code		L545814	L545838	L545812
Thread	BSP	1/4"	3/8"	1/2"

QUICK COUPLING FEMALE THREADED - PROFILE EU-DN7.5

ITEM: 262

Quick couplings in nickel-plated brass with European profile DN7.5 mm.
Operating pressure 0-16 BAR.
Gas cylindrical female thread version compliant with ISO 228 Class A.



Tech. Code		L546014	L546038	L546012
Thread	BSP	1/4"	3/8"	1/2"

QUICK COUPLINGS WITH SPRING - PROFILE EU-DN7.5

ITEM: 263

Quick couplings in nickel-plated brass with European profile DN7.5 mm.
Operating pressure 0-16 BAR.
Version with spring for polyurethane and polyamide tubes.



Tech. Code		L54620608	L54620810	L54621012
For tubes	mm	6 x 8	8 x 10	10 x 12

QUICK COUPLINGS MALE WITH HOSE - PROFILE EU-DN7.5

ITEM: 266

Quick couplings in nickel-plated brass with European profile DN7.5 mm.
Operating pressure 0-16 BAR.
Version with rubber hose connection.



Tech. Code		L54640614	L54640817	L54641019
For tubes	mm	6 x 14	8 x 17	10 x 19

SAFETY COUPLINGS & NIPPLES - SERIES 320 ESAFE, DN 7.6

ITEM: 10-320-215

Coupling - Male thread.



Tech. Code	L515214	L515238	L515212
Male thread	1/4" BSPT	3/8" BSPT	1/2" BSPT
Air flow	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure	16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard	Original CEJN series 320 DN7 6 -Eurostandard 7.4 mm	Original CEJN series 320 DN7 6 -Eurostandard 7.4 mm	Original CEJN series 320 DN7 6 -Eurostandard 7.4 mm

SAFETY COUPLINGS & NIPPLES - SERIES 320 ESAFE, DN 7.6

ITEM: 10-320-515

Nipples - Male thread.



Tech. Code	L516014	L516038	L516012
Male thread	1/4" BSPT	3/8" BSPT	1/2" BSPT
Air flow	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure	16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm

QUICK RELEASE SAFETY COUPLINGS SERIES 320 DN7.6

ITEM: 10-320-545

Quick release safety coupling in hardened steel with conical male thread NPT ASME B 1.20.1.



Tech. Code	L516114	L516138	L516112
Male thread	1/4" NPT	3/8" NPT	1/2" NPT
Air flow	2250 l/min (79,4 CFM)	2250 l/min (79,4 CFM)	2250 l/min (79,4 CFM)
Maximum pressure	16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard	Original CEJN Series 320 DN 7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN 7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN 7.6 - Eurostandard 7.4 mm

QUICK COUPLINGS FEMALE WITH MALE THREAD - MIGNON DN5

ITEM: 111

Mignon DN Series 5 mm sockets with a nickel-plated brass body and NBR seals.
Operating pressure 0-12 BAR.
Version with cylindrical male Gas thread compliant with ISO 228 Class A.
Compatible with:
- RECTUS/PARKER 21/90 profile
- CAMOZZI 5050 - 5150 profile
- CEJN 200 profile



Tech. Code		L548018	L548014
Thread	BSP	1/8"	1/4"

QUICK COUPLINGS FEMALE WITH FEMALE THREAD - MIGNON DN5

ITEM: 112

Mignon DN Series 5 mm sockets with a nickel-plated brass body and NBR seals.
Operating pressure 0-12 BAR.
Version with cylindrical female Gas thread compliant with ISO 228 Class A.
Compatible with:
- RECTUS/PARKER 21/90 profile
- CAMOZZI 5050 - 5150 profile
- CEJN 200 profile



Tech. Code		L548218	L548214
Thread	BSP	1/8"	1/4"

QUICK COUPLINGS FEMALE WITH SPRING - MIGNON DN5

ITEM: 113

Mignon DN Series 5 mm sockets with a nickel-plated brass body and NBR seals.
Operating pressure 0-12 BAR.
Version with spring guard for polyurethane and polyamide hoses.
Compatible with:
- RECTUS/PARKER 21/90 profile
- CAMOZZI 5050 - 5150 profile
- CEJN 200 profile



Tech. Code		L54840406	L54840608
For tubes	mm	4 x 6	6 x 8

QUICK COUPLINGS MALE THREADED - MIGNON DN5

ITEM: 211

Quick release couplings in nickel-plated brass with Mignon DN 5 mm series profile.
Operating pressure 0-12 BAR.
Version with cylindrical male Gas thread compliant with ISO 228 Class A.



Tech. Code		L548618	L548614
Thread	BSP	1/8"	1/4"

QUICK COUPLINGS FEMALE THREADED - MIGNON DN5

ITEM: 212

Quick release couplings in nickel-plated brass with Mignon DN 5 mm series profile.
Operating pressure 0-12 BAR.
Version with cylindrical female Gas thread compliant with ISO 228 Class A.



Tech. Code		L548818	L548814
Thread	BSP	1/8"	1/4"

QUICK COUPLINGS WITH SPRING - MIGNON DN5

ITEM: 213

Quick release couplings in nickel-plated brass with Mignon DN 5 mm series profile.
Operating pressure 0-12 BAR.
Version with spring guard for polyurethane and polyamide hoses.



Tech. Code		L54900406	L54900608
For tubes	mm	4 x 6	6 x 8

QUICK COUPLINGS FEMALE WITH MALE THREAD - UNI-ISO 6150 A-6 PROFILE

ITEM: 101

Sockets with UNI ISO 61500 A-6 DN 2.5 mm profile with nickel-plated brass body and NBR gaskets.
Operating pressure 0-10 BAR.
Version with cylindrical gas male thread conforming to ISO 228 Class A.
Compatibility with:
- Profile Festo KD2 - KS2



Tech. Code		L549518
Thread	BSP	1/8"

QUICK COUPLINGS WITH MALE THREAD - UNI-ISO 6150 A-6 PROFILE

ITEM: 201

Quick coupling in nickel-plated brass with UNI ISO 6150 A-6 DN 2.5 mm profile.
Operating pressure 8-10 BAR.
Version with cylindrical gas male thread conforming to IAO 228 A Class.

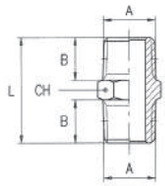


Tech. Code		L549718
Thread	BSP	1/8"

TAPER THREADED NIPPLES

ITEM: 2000

Nipples with conical thread in brass OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.



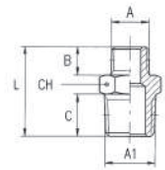


Tech. Code		L510018	L510014	L510038	L510012	L510034
A		1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	7.5	11	11.5	14	16.5
L	mm	19.5	27	28	33.5	40
CH	mm	12	14	17	22	27

TAPER THREADED REDUCTION NIPPLES

ITEM: 2020

Reducing nipples with tapered brass thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plating treatment.





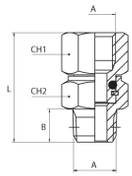
Tech. Code		L51051814	L51051838	L51051812	L51051438
A - A1		1/8" - 1/4"	1/8" - 3/8"	1/8" - 1/2"	1/4" - 3/8"
B	mm	7.5	7.5	7,5	11
C	mm	11	11,5	14	11.5
L	mm	23.5	24	27	27.5
CH	mm	14	17	22	17

Tech. Code		L51051412	L51053812	L51051234	L51053410
A - A1		1/4" - 1/2"	3/8" - 1/2"	1/2" - 3/4"	3/4" - 1"
B	mm	11	11.5	14	16,5
C	mm	14	14	16.5	19
L	mm	30.5	31	37.5	44
CH	mm	22	22	27	34

REDUCTION NIPPLES WITH TAPERED HEAD

ITEM: 2110

Reduction nipples with tapered head in brass OT UNI EN 12164/5 CW 614/7N with nickel-plating treatment.



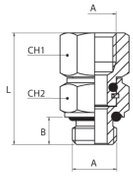


Tech. Code		L510618	L510614	L510638
A		1/8"	1/4"	3/8"
B	mm	7,5	11	11,5
CH1	mm	13	16	20
CH2	mm	13	15	17
L	mm	25	33	35,5

REDUCTION NIPPLES WITH CYLINDRICAL HEAD

ITEM: 2115

Reduction nipples with cylindrical head in OT UNI EN 12645/5 CW 614/7N with nickel-plating treatment.





Tech. Code		L510718	L510714	L510738
A	mm	1/8"	1/4"	3/8"
B	mm	6	8	9
CH1	mm	13	16	20
CH2	mm	13	16	18
L	mm	24,5	31	34,5

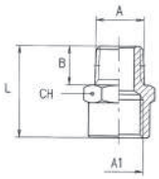
TAPER THREADED REDUCTIONS

ITEM: 2040

Male-female reductions with brass conical thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L51101818	L51101814	L51101838	L51101414	L51101438
A A1		1/8" - 1/8"	1/8" - 1/4"	1/8" - 3/8"	1/4" - 1/4"	1/4" - 3/8"
B	mm	7.5	7.5	7.5	11	11
L	mm	20	22	23	26	27
CH	mm	14	17	22	17	22

Tech. Code		L51101412	L51103838	L51103812	L51101212	L51101234
A A1		1/4" - 1/2"	3/8" - 3/8"	3/8" - 1/2"	1/2" - 1/2"	1/2" - 3/4"
B	mm	11	11.5	11.5	14	14
L	mm	30	27.5	30.5	33	35
CH	mm	26	22	26	26	32





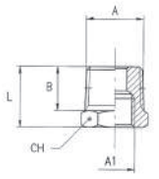
TAPER THREADED REDUCTIONS

ITEM: 2080

Short male-female reductions with brass conical thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L51151418	L51153818	L51153814	L51151218	L51151214	L51151238
A A1		1/4" - 1/8"	3/8" - 1/8"	3/8" - 1/4"	1/2" - 1/8"	1/2" - 1/4"	1/2" - 3/8"
B	mm	11	11.5	11.5	14	14	14
L	mm	16	16.5	16.5	19,5	19.5	19.5
CH	mm	14	17	17	22	22	22

Tech. Code		L51153438	L51153412	L51151012	L51151034
A A1		3/4" - 3/8"	3/4" - 1/2"	1" - 1/2"	1" - 3/4"
B	mm	16,5	16.5	19	19
L	mm	23,5	23.5	27,5	27,5
CH	mm	27	27	34	34





EXTENSIONS WITH CYLINDRICAL THREAD

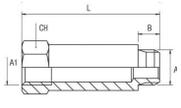
NEW

ITEM: 2070

Extensions with male-female cylindrical thread in OT brass UNI EN 12164/5 CW 614/7N with nickel-plating treatment.

Tech. Code		L51191822	L51191832	L51191842	L51191851
A - A1		1/8" - 1/8"	1/8" - 1/8"	1/8" - 1/8"	1/8" - 1/8"
L	mm	22	32	42	51
B	mm	6	6	6	6
CH	mm	14	14	14	14

Tech. Code		L51191428	L51191435	L51191451
A - A1		1/4" - 1/4"	1/4" - 1/4"	1/4" - 1/4"
L	mm	28	35	51
B	mm	8	8	8
CH	mm	17	17	17



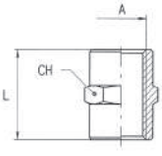


TAPER THREADED SLEEVES

ITEM: 3000

Sleeves with brass female thread OT UNI EN 12164/5 CW 614 7N with nickel-plated treatment.

Tech. Code		L512018	L512014	L512038	L512012	L512034
A		1/8"	1/4"	3/8"	1/2"	3/4"
L	mm	15	22	24	30	32
CH	mm	14	17	22	26	32



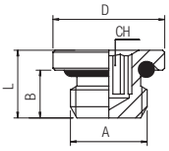


PLUGS WITH CYLINDRICAL MALE THREAD AND NBR O-RING

ITEM: 3015

Plugs with hexagonal socket head, cylindrical male thread and NBR O-ring.
OT UNI EN 12164/5 CW 614/7N brass with nickel plating treatment.

Tech. Code		L5123M5	L512318	L512314	L512338	L512312
A		M5	1/8"	1/4"	3/8"	1/2"
B	mm	4	6	8	9	10
L	mm	6	8,5	11	12,5	13,5
D	mm	8	14	17	20	25
CH	mm	2	5	6	8	10





L

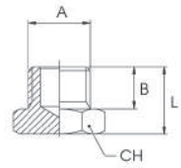
CYLINDRICAL MALE THREADED PLUGS

AIGNEP

ITEM: 3020

Plugs with hexagonal head and cylindrical male thread in brass OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L512518	L512514	L512538	L512512
A		1/8"	1/4"	3/8"	1/2"
B	mm	6.5	9	9.5	10
L	mm	10	13	13.5	14.5
CH	mm	14	17	19	24





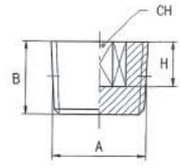
TAPER MALE THREADED PLUGS

AIGNEP

ITEM: 3025

Plugs with hexagon socket and tapered male thread in brass OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L513018	L513014	L513038	L513012
A		1/8"	1/4"	3/8"	1/2"
B	mm	7.5	10	11	13
H	mm	5	7	7	8
CH	mm	5	6	8	10





TEFLON TAPES

WRK

ITEM: L5501

Tech. Code		L550112
Width		1/2"
Length	m	12



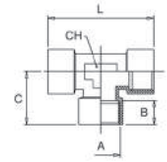
CYLINDRICAL FEMALE THREADED T - FITTINGS

AIGNEP

ITEM: 4000

Female-female-female T-connectors with brass cylindrical thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L520018	L520014	L520038	L520012	L520034
A		1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	8.5	11	12	15	16.5
C	mm	19.5	24.5	27	32	36.5
L	mm	39	49	54	64	73
CH	mm	12	13	16	20	27





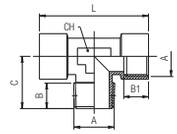
CENTRAL FEMALE-FEMALE-MALE T-FITTINGS

AIGNEP

ITEM: 4040

Central female-female-male T-fittings with conical thread in OT UNI EN 12164/5 CW 614/7N brass with nickel plating treatment.

Tech. Code		L520218	L520214	L520238	L520212	L520234
A	BSP - BSPT	1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	8	11	11,5	14	14,5
B1	mm	8,5	11	12	15	16,5
C	mm	17,5	23	25,5	29,5	32
L	mm	39	49	54	64	73
CH	mm	12	13	16	20	27





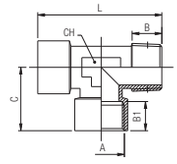
LATERAL FEMALE-FEMALE-MALE T-FITTINGS

AIGNEP

ITEM: 4050

Lateral female-female-male T-fittings with conical thread in OT UNI EN 12164/5 CW 614/7N brass with nickel plating treatment.

Tech. Code		L520418	L520414	L520438	L520412	L520434
A	BSP - BSPT	1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	8	11	11,5	14	14,5
B1	mm	8,5	11	12	15	16,5
C	mm	19,5	24,5	27	32	36,5
L	mm	37	47,5	52,5	61,5	68,5
CH	mm	12	13	16	20	27



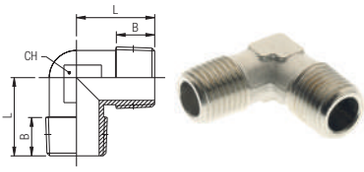


MALE-MALE L-FITTINGS WITH CONICAL THREAD

ITEM: 5000

Male-male L-fittings with conical thread in OT UNI EN 12164/5 CW 614/7N brass with nickel plating treatment.

Tech. Code		L520518	L520514	L520538	L520512	L520534
A	BSPT	1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	7,5	11	12	14	14,5
L	mm	18	24	27	29,5	32
CH	mm	11	13	17	20	27

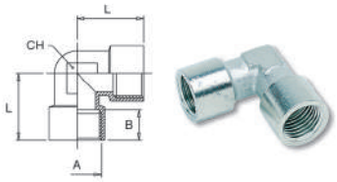


CYLINDRICAL FEMALE THREADED L - FITTINGS

ITEM: 5010

Female-female L fittings with cylindrical thread in brass OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L521018	L521014	L521038	L521012	L521034
A		1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	8.5	11	11.5	15	16.5
L	mm	21	25.5	28	32	36.5
CH	mm	11	13	17	20	27

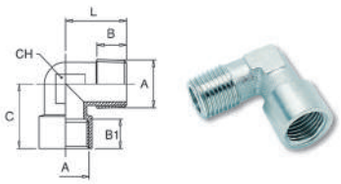


CYLINDRICAL MALE/FEMALE THREADED L - FITTINGS

ITEM: 5020

Male-female L fittings with brass cylindrical thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L522018	L522014	L522038	L522012	L522034
A		1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	7.5	11	11.5	14	14.5
B1	mm	8.5	11	12	15	16.5
C	mm	21	25.5	28	32	36.5
L	mm	18.5	24	27	29.5	32
CH	mm	11	13	17	20	27

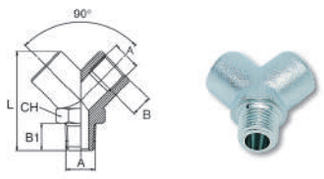


90° MALE Y-FITTINGS WITH CYLINDRICAL THREAD

ITEM: 6000

90 ° Y fittings with male-female-female thread in brass OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L523018	L523014	L523038	L523012
A		1/8"	1/4"	3/8"	1/2"
B	mm	8	11	11.5	14
B1	mm	9	11	12.5	16.5
L	mm	33	37	46	58
CH	mm	14	17	22	26



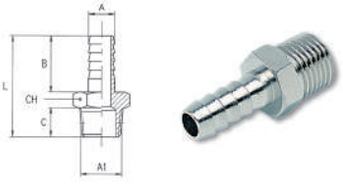
MALE HOSE CONNECTIONS WITH TAPERED THREAD

ITEM: 3040

Male hose connections with tapered thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code	A1	A mm	B mm	C mm
L52601806	1/8"	6	19.5	7.5
L52601808	1/8"	8	19.5	7.5
L52601809	1/8"	9	19,5	7,5
L52601406	1/4"	6	19,5	11
L52601407	1/4"	7	19.5	11
L52601408	1/4"	8	19.5	11
L52601409	1/4"	9	19,5	11
L52601410	1/4"	10	19.5	11
L52601412	1/4"	12	19.5	11
L52603810	3/8"	10	19.5	11.5
L52603812	3/8"	12	19.5	11.5

Tech. Code	A1	A mm	B mm	C mm
L52603814	3/8"	14	19,5	11,5
L52601210	1/2"	10	19.5	14
L52601212	1/2"	12	19.5	14
L52601214	1/2"	14	19,5	14
L52601218	1/2"	18	19,5	14
L52601220	1/2"	20	30	14
L52603418	3/4"	18	19,5	16,5
L52603420	3/4"	20	30	13,5
L52603425	3/4"	25	30	14,5
L52601025	1"	25	30	16



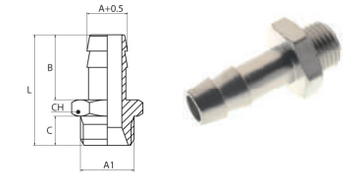
MALE HOSE CONNECTIONS WITH CYLINDRICAL HEAD

ITEM: 3045

Male hose connections with cylindrical head in OT UNI EN 1216/5 cw 614/7N and nickel-plated treatment.

Tech. Code	A1	A mm	B mm	C mm
L5262M503	M5	3	7,5	4
L52621806	1/8"	6	20	6
L52621408	1/4"	8	20	8

Tech. Code	A1	A mm	B mm	C mm
L52621412	1/4"	12	20	8
L52621217	1/2"	17	24	10
L52623421	3/4"	21	24	12



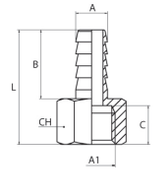
FEMALE HOSE CONNECTIONS WITH THREADED HEAD

AIGNEP

ITEM: 3050

Female hose connections with threaded head in OT UNI EN 12164/5 CW 614/7N with nickel-plated treatment.

Tech. Code		L52641806	L52641406	L52641407	L52641408
A1		1/8"	1/4"	1/4"	1/4"
A	mm	6	6	7	8
B	mm	19,5	19,5	19,5	19,5
C	mm	8,5	11	11	11
L	mm	30	32,5	32,5	32,5
CH	mm	14	17	17	17





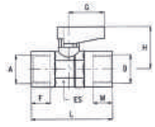
FEMALE-FEMALE CYLINDRICAL THREAD BALL VALVES

AIGNEP

ITEM: 6300

Ball vlaves with female - female cylindrical threads Gas RP ISO 7.1 - BS 21 - DIN 2999 in chrome plated brass, selas in NBR and PA66 glass-reinforced handle.

Tech. Code		L529018	L529014	L529038	L529012	L529034
A B	ISO 7.1	1/8"	1/4"	3/8"	1/2"	3/4"
ES	mm	14-15	14-15	18-19	22-23	28-30
F	mm	7,4	11	11,4	15	16,3
M	mm	7,4	11	11,4	15	16,3
L	mm	36	43	47	59	67
G	mm	19	19	19	26	50
H	mm	21	21	22	30,5	33





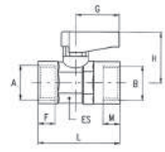
FEMALE CYLINDRICAL THREAD BALL VALVES

AIGNEP

ITEM: 6400

Ball valves with female-female thread G ISO 228 in chrome-plated brass, seals in NBR and PA66 glass-reinforced handle.

Tech. Code		L530018	L530014	L530038	L530012	L530034
A B		1/8"	1/4"	3/8"	1/2"	3/4"
ES	mm	14-15	14-15	18-19	22-23	28-30
F	mm	7	8	9	10	12
M	mm	7	8	9	10	12
L	mm	35	37	42	49	58
G	mm	19	19	19	26	26
H	mm	21	21	22	30.5	33





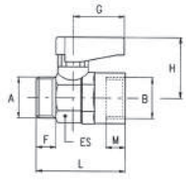
MALE/ FEMALE CYLINDRICAL THREAD BALL VALVES

AIGNEP

ITEM: 6410

Ball valves with female-female thread G ISO 228 in chrome-plated brass, seals in NBR and PA66 glass-reinforced handle.

Tech. Code		L531018	L531014	L531038	L531012	L531034
A B		1/8"	1/4"	3/8"	1/2"	3/4"
ES	mm	14-15	14-15	18-19	22-23	28-30
F	mm	7	8	9	10	12
M	mm	7	8	9	10	12
L	mm	34	35	39	45	52
G	mm	19	19	19	26	26
H	mm	21	21	22	30.5	33





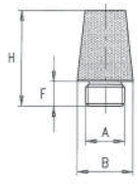
SILENCERS

AIGNEP

ITEM: 7000

Bronze silencers for pneumatic tools.

Tech. Code		L540018	L540014	L540038	L540012	L540034
A		1/8"	1/4"	3/8"	1/2"	3/4"
F	mm	6	6	8	10	13
B	mm	12	15	19	23	30
H	mm	21	25	36	43	53
Δ	dB	42.6	44	27.3	19	16





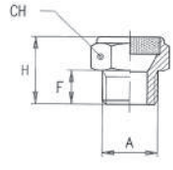
SILENCERS

AIGNEP

ITEM: 7010

Brass silencers for pneumatic tools.

Tech. Code		L541018	L541014	L541038	L541012
A		1/8"	1/4"	3/8"	1/2"
F	mm	6	8	9	11
H	mm	13	16	18	20
CH	mm	13	16	19	24
Δ	dB	30.6	33	35	23



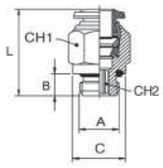


MALE STRAIGHT FITTINGS WITH CYLINDRICAL THREAD

AIGNEP

ITEM: 50020

Straight nickel-plated brass automatic fittings with cylindrical male thread. Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer pliers in AISI 301. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.





Tech. Code		L55000414	L55000418	L550004M5	L55000518
Pipe	mm	4	4	4	5
A		1/4"	1/8"	M5	1/8"
B	mm	8	6	4	6
C	mm	16	13	8	13
L	mm	19,5	20	21	22
CH1	mm	16	10	10	12
CH2	mm	3	3	2	4

Tech. Code		L55000814	L55000818	L55001014	L55001038	L55001212
Pipe	mm	8	8	10	10	12
A		1/4"	1/8"	1/4"	3/8"	1/2"
B	mm	8	6	8	9	10
C	mm	16	13	16	20	25
L	mm	23	25	30,5	27,5	31
CH1	mm	14	14	17	17	22
CH2	mm	6	5	6	8	10

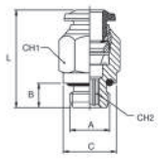
Tech. Code		L55001238	L55000414	L55000518	L55000838	L55001214
Pipe	mm	12	4	5	8	12
A		3/8"	1/4"	1/8"	3/8"	1/4"
B	mm	9	8	6	9	8
C	mm	20	16	13	20	16
L	mm	34	19,5	22	24	34,5
CH1	mm	20	16	12	14	20
CH2	mm	8	3	4	6	6

MALE STRAIGHT FITTINGS WITH CYLINDRICAL THREAD

AIGNEP

ITEM: 50020N

In technopolymer and Nickel-plated brass body with cylindrical male thread. Technopolymer body with nickle plated brass threaded parts. Pipe release pusher in acetalic resin. Clamping washer pliers in AISI 301. NBR seals. Working pressure -0.99 Bar min/20 Bar max.





Tech. Code		L560004M5	L56000418	L56000618	L56000614	L56000818
Pipe	mm	4	4	6	6	8
A		M5	1/8"	1/8"	1/4"	1/8"
B	mm	4	6	6	8	6
C	mm	8	13	13	16	13
L	mm	21	20	23,5	23,5	25
CH1	mm	10	10	13	13	14
CH2	mm	2	3	4	4	5

Tech. Code		L56000818	L56001014	L56001038	L56001212	L56001238
Pipe	mm	8	10	10	12	12
A		1/8"	1/4"	3/8"	1/2"	3/8"
B	mm	6	8	9	10	9
C	mm	13	16	20	25	20
L	mm	25	30,5	27,5	31	34
CH1	mm	14	17	17	22	20
CH2	mm	5	6	8	10	8

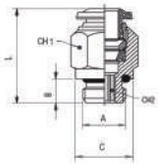
HEAVY DUTY STRAIGHT CONNECTORS

AIGNEP

NEW

ITEM: 57020

Nickel-plated brass straight connectors with cylindrical tap thread. Nickel-plated brass body, nickel-plated brass hose-release pusher, AISI 301 crimping pliers and NBR seals. Operating pressures min 0.99 Bar / max 20 Bar.
The 57000 series fittings are made entirely of metal and are characterised by high strength and robustness.





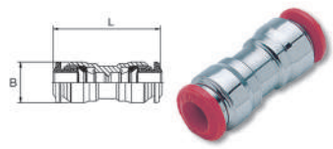
Tech. Code		L56031238	L56031212	L56031214	L56030614	L56030814
Tubing	mm	12	12	12	6	8
A	BSP	3/8"	1/2"	1/4"	1/4"	1/4"
B	mm	8,1	9,6	7,1	7,1	7,1
C	mm	20	25	16	16	16
L	mm	34	31	34,5	23,5	23
CH1	mm	20	22	20	13	14
CH2	mm	8	10	6	4	6

Tech. Code		L56031038	L56030618	L56030818	L56030838	L56031014
Tubing	mm	10	6	8	8	10
A	BSP	3/8"	1/8"	1/8"	3/8"	1/4"
B	mm	8,1	5,4	5,4	8,1	7,1
C	mm	20	13	13	20	16
L	mm	27,5	23,5	25	24	30,5
CH1	mm	17	13	14	14	17
CH2	mm	8	4	6	6	6

STRAIGHT CONNECTORS

ITEM: 50040

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 304. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.



Tech. Code		L550504	L550505	L550506	L550508	L550510	L550512
Pipe	mm	4	5	6	8	10	12
L	mm	30.5	33	34	36	42	47
B	mm	10.5	11,5	12.5	14.5	17.5	20.5

STRAIGHT CONNECTORS

ITEM: 55040

Automatic intermediate technopolymer fittings for connecting 2 pipes of the same diameter. Technopolymer body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule. Clamping washer in AISI 301. NBR seals. Working pressure -0.99 Bar min/20 Bar max.



Tech. Code		L560504	L560506	L560508	L560510	L560512
Pipe	mm	4	6	8	10	12
L	mm	31	35	37	45	49
B	mm	10	12.5	14	17	20

HEAVY DUTY STRAIGHT CONNECTORS

NEW

ITEM: 57040

Nickel plated brass straight connector suitable for connecting 2 pipes. Nickel-plated brass body, nickel-plated brass pipe release pusher, AISI 301 crimping pliers and NBR seals. Operating pressures min 0.99 Bar / max 20 Bar.
The 57000 series fittings are made entirely of metal and are characterised by high strength and robustness.

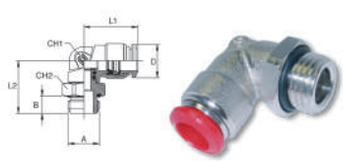


Tech. Code		L560806	L560808	L560810	L560812
Tubing	mm	6	8	10	12
L	mm	34	36	42	47
B	mm	12,5	14,5	17,5	20,5

ADJUSTABLE MALE PUSH-TO-CONNECT L-FITTINGS WITH CYLINDRICAL THREAD

ITEM: 50116

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 301. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.



Tech. Code		L551004M5	L55100418	L55100618	L55100614	L55100818	L55100814
Pipe	mm	4	4	6	6	8	8
A		M5	1/8"	1/8"	1/4"	1/8"	1/4"
B	mm	3.6	5.4	5.4	7.1	5.4	7.1
L1	mm	18	18	21	21	22.5	22.5
L2	mm	16,1	16,4	18,1	19,8	20,1	20,3
CH1	mm	9	9	11	11	12	12
CH2	mm	8	13	13	16	13	16
D	mm	10	10	12,5	12,5	14,5	14,5

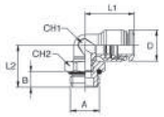
Tech. Code		L55101014	L55101038	L55101212	L55101238	L55101214
Pipe	mm	10	10	12	12	12
A		1/4"	3/8"	1/2"	3/8"	1/4"
B	mm	7.1	8.1	9.6	8.1	8
L1	mm	26.5	26.5	31.3	31.3	31,5
L2	mm	27,5	27	28,8	27,3	27,5
CH1	mm	14	14	16	16	16
CH2	mm	16	20	25	20	20
D	mm	17,5	17,5	21,5	21,5	21,5

ADJUSTABLE MALE PUSH-TO-CONNECT L-FITTINGS WITH CYLINDRICAL THREAD

AIGNEP

ITEM: 55116

Technopolymer body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule.
Clamping washer in AISI 304. NBR seals. Working pressure -0.99 Bar min/20 Bar max.





Tech. Code		L561004M5	L56100418	L56100618	L56100614	L56100818
Pipe	mm	4	4	6	6	8
A		M5	1/8"	1/8"	1/4"	1/8"
B	mm	3.6	5.4	5.4	7.1	5.4
L1	mm	16.5	16.5	20.5	20.5	22
L2	mm	13,8	15	15,8	17,5	19,4
CH1	mm	7	7	9	9	10
CH2	mm	9	13	13	16	13
D	mm	10	10	12	12	14

Tech. Code		L56100818	L56101014	L56101038	L56101212	L56101238
Pipe	mm	8	10	10	12	12
A		1/8"	1/4"	3/8"	1/2"	3/8"
B	mm	5.4	7.1	8.1	9.6	8.1
L1	mm	22	26.5	26.5	30	30
L2	mm	19,4	22,8	22,3	25,1	23,6
CH1	mm	10	13	13	16	16
CH2	mm	13	16	20	25	20
D	mm	14	17	17	20	20

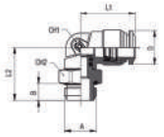
HEAVY DUTY SWIVEL STRAIGHT CONNECTORS

AIGNEP

NEW

ITEM: 57116

Nickel-plated brass straight connectors with cylindrical male thread. Nickel-plated brass body, nickel-plated brass pipe release pusher, AISI 301 crimping pliers and NBR seals. Operating pressures min 0.99 Bar / max 20 Bar.
The **57000 series fittings are made entirely of metal and are characterised by high strength and robustness.**





Tech. Code		L56130618	L56130614	L56130818	L56130814
Tubing	mm	6	6	8	8
A	BSP	1/8"	1/4"	1/8"	1/4"
B	mm	5,4	7,1	5,4	7,1
L1	mm	21	21	22,5	22,5
L2	mm	20	21,5	21	21,5
CH1	mm	11	11	12	12
CH2	mm	13	16	13	16
D	mm	12,5	12,5	14,5	14,5

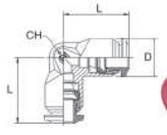
Tech. Code		L56131014	L56131038	L56131214	L56131238	L56131212
Tubing	mm	10	10	12	12	12
A	BSP	1/4"	3/8"	1/4"	3/8"	1/2"
B	mm	7,1	8,1	7,1	8,1	9,6
L1	mm	26,5	26,5	30,5	31,5	31,5
L2	mm	27,5	27	27,8	27,3	28,8
CH1	mm	14	14	16	16	16
CH2	mm	16	20	16	20	25
D	mm	17,5	17,5	21,5	21,5	21,5

INTERMEDIATE PUSH-TO-CONNECT L-FITTINGS

AIGNEP

ITEM: 50130

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 304. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.





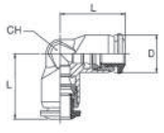
Tech. Code		L551504	L551506	L551508	L551510	L551512
Pipe	mm	4	6	8	10	12
L	mm	17	21	22.5	26.5	30.5
CH	mm	9	11	13	16	19
D	mm	10	12.5	14	17	21.5

INTERMEDIATE PUSH-TO-CONNECT L-FITTINGS

AIGNEP

ITEM: 55130

Technopolymer body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule. Clamping washer in AISI 304. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.





Tech. Code		L561504	L561506	L561508	L561510	L561512
Pipe	mm	4	6	8	10	12
L	mm	16.5	20.5	22	26.5	30
CH	mm	9	11	13	16	19
D	mm	10	12	14	17	20

L

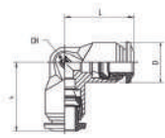
HEAVY DUTY SWIVEL STRAIGHT CONNECTORS

AIGNEP

NEW

ITEM: 57130

Intermediate nickel-plated brass L-connectors suitable for connecting 2 pipes. Nickel-plated brass body, nickel-plated brass pipe release pusher, AISI 301 crimping pliers and NBR seals. Operating pressures min 0.99 Bar / max 20 Bar.
The 57000 series fittings are made entirely of metal and are characterised by high strength and robustness.



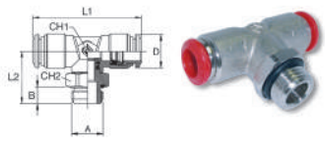
Tech. Code		L561806	L561808	L561810	L561812
Tubing	mm	6	8	10	12
L	mm	21	22,5	26,5	30,5
CH	mm	11	13	16	19
D		12,5	14	17	21,5

MALE ADJUSTABLE PUSH-TO-CONNECT T-FITTINGS WITH CYLINDRICAL THREAD

AIGNEP

ITEM: 50216

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 304. NBR seals. Working pressure -0.99 Bar min/20 Bar max.



Tech. Code		L552004M5	L55200418	L55200618	L55200818	L55200814
Pipe	mm	4	4	6	8	8
A		M5	1/8"	1/8"	1/8"	1/4"
B	mm	3.6	5.4	5.4	5.4	7.1
L1	mm	34	34	42	45	45
L2	mm	16,8	17,1	18,4	22,7	23
CH1	mm	9	9	11	13	13
CH2	mm	8	13	13	13	16
D	mm	10	10	12,5	14,5	14,5

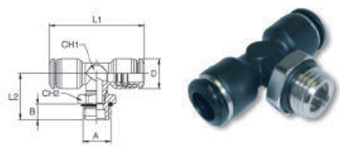
Tech. Code		L55200818	L55201014	L55201038	L55201238	L55201212
Pipe	mm	8	10	10	12	12
A		1/8"	1/4"	3/8"	3/8"	1/2"
B	mm	5.4	7.1	8.1	8.1	9.6
L1	mm	45	53	53	62.6	62.6
L2	mm	22,7	27,1	26,6	29,1	31,6
CH1	mm	13	14	14	16	16
CH2	mm	13	16	20	20	25
D	mm	14,5	17,5	17,5	21,5	21,5

MALE ADJUSTABLE PUSH-TO-CONNECT T-FITTINGS WITH CYLINDRICAL THREAD

AIGNEP

ITEM: 55216

Automatic swivel T fittings with cylindrical male thread made of technopolymer with nickel-plated brass threaded parts to connect 2 pipes of the same diameter and a third threaded point. Technopolymer body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule. Clamping washer in AISI 304. NBR seals. Working pressure -0.99 Bar min/20 Bar max.



Tech. Code		L562004M5	L56200418	L56200618	L56200614
Pipe	mm	4	4	6	6
A		M5	1/8"	1/8"	1/4"
B	mm	3.6	5.4	5.4	7.1
L1	mm	33	33	41	41
L2	mm	15,5	17,1	18,4	20
CH1	mm	7	7	9	9
CH2	mm	9	13	13	16
D	mm	10	10	12,5	12,5

Tech. Code		L56200818	L56200814	L56201014	L56201038
Pipe	mm	8	8	10	10
A		1/8"	1/4"	1/4"	3/8"
B	mm	5.4	7.1	7.1	8.1
L1	mm	44	44	53	53
L2	mm	22,1	21,4	26,7	26,2
CH1	mm	10	10	13	13
CH2	mm	13	16	16	20
D	mm	14	14	17	17

Related products

WODEX COMBINATION WRENCHES IN FOAM

Tech. Code	Pieces	Module size mm
E000712	12	400 x 223,5 - 1/3 Horizontal position
E000716	16	400 x 447 - 2/3 Vertical position



The product is available in Chap. E

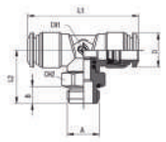
HEAVY DUTY SWIVEL STRAIGHT CONNECTORS

AIGNEP

NEW

ITEM: 57216

Nickel-plated brass straight connectors with cylindrical male thread for connecting 2 hoses of the same diameter and a third threaded point. Nickel-plated brass body, nickel-plated brass tube release pusher, AISI 301 crimping pliers and NBR seals. Operating pressures min 0.99 Bar / max 20 Bar.
The 57000 series fittings are made entirely of metal and are characterised by high strength and robustness.





Tech. Code		L56230618	L56230614	L56230818	L56230814
Tubing	mm	6	6	8	8
A	BSP	1/8"	1/4"	1/8"	1/4"
B	mm	5,4	7,1	5,4	7,1
L1	mm	42	42	45	45
L2	mm	20,5	22	23,5	24
CH1	mm	11	11	13	13
CH2	mm	13	16	13	16
D	mm	12,5	12,5	14,5	14,5

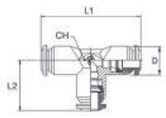
Tech. Code		L56231014	L56231038	L56231238	L56231212
Tubing	mm	10	10	12	12
A	BSP	1/4"	3/8"	3/8"	1/2"
B	mm	7,1	8,1	8,1	9,6
L1	mm	53	53	62,5	62,5
L2	mm	27,1	26,6	29,1	31,6
CH1	mm	14	14	16	16
CH2	mm	16	20	20	25
D	mm	17,5	17,5	21,5	21,5

INTERMEDIATE PUSH-TO-CONNECT-FITTINGS

AIGNEP

ITEM: 50230

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 304. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.





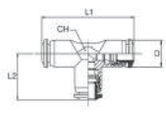
Tech. Code		L552504	L552506	L552508	L552510	L552512
Pipe	mm	4	6	8	10	12
L1	mm	34	42	45	53	61
L2	mm	17	21	22.5	26.5	30.5
CH	mm	9	11	13	16	19
D	mm	10	12.5	14	17	21.5

INTERMEDIATE PUSH-TO-CONNECT-FITTINGS

AIGNEP

ITEM: 55230

Technopolymer body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule.
Clamping washer in AISI 304. NBR seals. Working pressure -0.99 Bar min/20 Bar max.





Tech. Code		L562504	L562506	L562508	L562510	L562512
Pipe	mm	4	6	8	10	12
L1	mm	33	41	44	53	61.5
L2	mm	16.5	20.5	22	26.5	30
CH	mm	9	11	13	16	19
D	mm	10	12	14	17	20

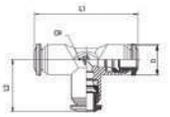
INTERMEDIATE HEAVY DUTY STRAIGHT CONNECTORS

AIGNEP

NEW

ITEM: 57230

Intermediate nickel-plated brass straight connector for connecting 3 hoses of the same diameter. Nickel-plated brass body, nickel-plated brass pipe release pusher, AISI 301 crimping pliers and NBR seals. Operating pressures min 0.99 Bar / max 20 Bar.
The 57000 series fittings are made entirely of metal and are characterised by high strength and robustness.





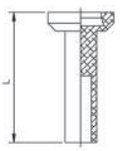
Tech. Code		L562806	L562808	L562810	L562812
Tubing	mm	6	8	10	12
L1	mm	42	45	53	61
L2	mm	21	22,5	26,5	30,5
CH	mm	11	13	16	19
D	mm	12,5	14	17	21,5

POLYAMIDE PLUGS

AIGNEP

ITEM: 8610

Polyamide plugs for tubes ideal for all types of use.





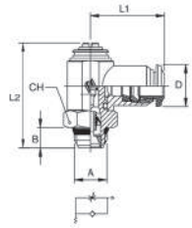
Tech. Code		L557004	L557006	L557008	L557010	L557012
Pipe	mm	4	6	8	10	12
L	mm	23.5	24.5	26	28.5	28.5

L

ORIENTING FLOW REGULATORS FOR CYLINDERS WITH TAPER THREAD - SHORT

ITEM: 50901

Screwdriver adjustment. Nickel-plated brass body. Pipe release pusher in acetalic resin.
Clamping washer in AISI 304. NBR seals. Working pressure 1 Bar min/20 Bar max.
Adjustment with screwdriver.





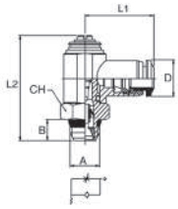
Tech. Code		L55300418	L553004M5	L55300614	L55300618	L55300814	L55300818
Pipe	mm	4	4	6	6	8	8
A		1/8"	M5	1/4"	1/8"	1/4"	1/8"
B	mm	5.5	4	7	5.5	7	5,5
L1	mm	21	19	25	22.5	26	24
L2	mm	31	29.5	36.5	31	36.5	31
CH	mm	14	8	17	14	17	14
D	mm	10	10	12.5	12.5	14	14

Please note: Short tapered thread allows coupling with different standard threads both cylindrical and conical, as BSP ISO 228 - ISO 7 BSPP/BSPT

ORIENTING FLOW REGULATORS FOR CYLINDERS WITH TAPER THREAD - SHORT

ITEM: 55900

Screwdriver adjustment. Technopolymer and nickel-plated brass body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule. Clamping washer in AISI 301. NBR seals.
Working pressure 1 Bar min/20 Bar max.
Adjustment with screwdriver.





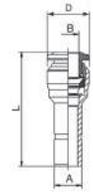
Tech. Code		L56300618	L56300614	L56300814	L56301038
Pipe	mm	6	6	8	10
A		1/8"	1/4"	1/4"	3/8"
B	mm	5.5	7	7	8.5
L1	mm	23	25.5	26	30.5
L2	mm	31	36.5	36.5	42.5
CH	mm	14	17	17	20

Please note: Short tapered thread allows coupling with different standard threads both cylindrical and conical, as BSP ISO 228 - ISO 7 BSPP/BSPT

QUICK REDUCTIONS PUSH-TO-CONNECT-FITTINGS

ITEM: 50700

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 304. NBR seals.
Working pressure - 0.99 Bar min/20 Bar max.

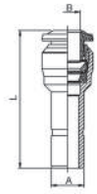




Tech. Code		L553506	L553508	L553510	L553512
Pipe A	mm	6	8	10	12
Pipe B	mm	4	6	8	8
L	mm	30	34.5	38	39
D	mm	10.5	12.5	14.5	14.5

ITEM: 50700N

Nickel-plated brass body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule.
Clamping washer in AISI 301. NBR seals. Working pressure - 0.99 Bar min/20 Bar max.





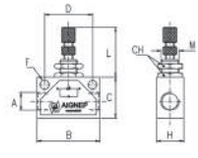
Tech. Code		L563504	L563506	L563508	L563510	L563512
Pipe A	mm	4	6	8	10	12
Pipe B	mm	3	4	6	8	8
L	mm	27	30	34	38	39
D	mm	10	12.5	14	17	21.5

Note: COMPATIBLE WITH THE TECHNOPOLYMER FITTINGS

ONE-WAY FLOW CONTROLLERS

ITEM: 8850

Anodized aluminum body. Brass adjustment group. NBR O-Ring.
Working pressure 1 Bar min/10 Bar max.





Tech. Code		L571018	L571014	L571038	L571012
A		1/8"	1/4"	3/8"	1/2"
B	mm	35	46	50	60
C	mm	22	30	30	40
H	mm	18	20	25	25
D	mm	24.7	35	35	44
F	mm	4.5	6.5	6.5	6.5
L	mm	27-34	27-34	32-43	32-43
M		12x0.75	12x0.75	18x1.5	18x1.5

ITEM: HOCKENHEIM L30P

The HOCKENHEIM 20 LT Pro Line is a compact compressor with a high-efficiency 3 HP motor and a unique design that allows it to be transported with great ease. It is equipped with a 20 litre tank and anti-vibration rubber feet for noise reduction.



Tech. Code		L629120
Tank	L	20
Power	HP/Kw	3/2,2
Scope	l/min	310
Power supply	V/Hz	230/50
Max. pressure	Bars	10
Noise level (LPA)	dB(A)	75
Dimensions	mm	805 x 405 x 490
Weight	Kg	29,7

ITEM: POLE POSITION L20

POLE POSITION 24 LT falls into the category of professional wheeled compressors aimed at craftsmen, this range is equipped with robust and durable direct-driven pump units with excellent user comfort.



Tech. Code		L630024
Tank	L	24
Power	HP/Kw	2 - 1.5
Rpm	max	2850
Air inlet	l/min	220
Power supply	V/Hz	230/50
Max pressure	Bar	8
Noise	dB(A)	70
Dimensions	mm	610 x 320 x 580
Weight	Kg	25

ITEM: MONTECARLO L20

MONTECARLO 50 LT - Line is a direct-driven air compressor, ideal for users of nail guns and other small pneumatic tools. It has a 50-litre tank that provides a quantity of compressed air suitable for most tasks.



Tech. Code		L630550
Tank	L	50
Power	HP/Kw	2 - 1.5
Rpm	max	2850
Air inlet	l/min	220
Power supply	V/Hz	230/50
Max. pressure	Bar	10
Noise	dB(A)	70
Dimensions	mm	770 x 430 x 660
Weight	Kg	33

ITEM: A29B 50 CM2

The A29B 50 CM2 is a piston compressor with single-stage belt drive offering efficiency and reliability, ideal for professionals and demanding hobbyists.



Tech. Code		L633050
Tank	L	50
Power	HP/Kw	2 - 1.5
Rpm	max	1075
Air inlet	l/min	255
Power supply	V/Hz	230/50
Max. pressure	Bar	10
Noise	dB(A)	93
Dimensions	mm	920 x 410 x 830
Weight	Kg	55

ITEM: A29B 90 CM2

The A29B 90 CM2 is a piston compressor with single-stage belt drive offering efficiency and reliability, ideal for professionals and demanding hobbyists.



Tech. Code		L6335100
Tank	L	90
Power	HP-KW	2 - 1.5
Rpm	max	1075
Air inlet	l/min	255
Power supply	V/Hz	230/50
Max pressure	Bar	10
Noise	dB(A)	93
Dimensions	mm	920 x 450 x 990
Weight	Kg	98

B·HANDLING 3

" HANDsome "



LIFTING AND HANDLING SYSTEMS

M



GIS
Ingersoll Rand

4 - 12
Electric chain hoists



B-HANDLING

13 - 28
Jib cranes



B-HANDLING

29 - 30
Modular system for monorails
and bridge cranes



B-HANDLING

31 - 34
Vacuum lifters



B-HANDLING

35
Manipulators



Tractel

36
Manual chain hoists



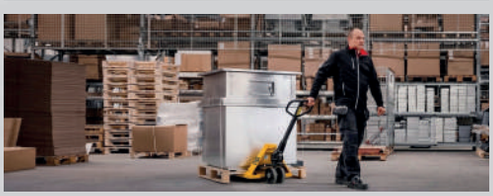
TERRIER
KERN
STROPS

37 - 55
Lifting equipment



B-HANDLING

56 - 65
Lifting magnets
and lifting sling bars



B-HANDLING
PYRARAC

65 - 81
Pallet trucks
and hydraulic lifters

ELECTRIC CHAIN HOISTS - GP

ITEM: M0005

High quality electric chain hoist with high FEM/ISO class.

Features:
- Electromechanical drive
- Chain with safety factor "8
- Die-cast aluminium construction and hardened steel impression wheel
- Polygonal motor shaft with trilobal coupling
- Low-voltage (42V) push-button controls
- Adjustment-free brake and friction load limiter as standard
- Three-phase power supply 400V 50 Hz

Advantages:
- Suitable for an high number of operations
- Indicated for external enviorments IP65 protection
- Usuable between -15° and + 50°

Supplied with:
- Chain bucket
- Instruction manual of use and maintenance



Tech. Code	LOAD CAPACITY kg	MODEL	CLASS FEM (ISO)	SPEED m/min	NR. CHAIN FALLS N°	EXCURSION m	ADDITIONAL HOOK RUN € / m	ADDITIONAL PUSH-BUTTON CABLE € / m	POWER kW	INTENSITY A	Weight kg
M0005801NF	80	GPM250/1SF	3m (M6)	16/4	1	3	30	7,5	0,37 / 0,1	2,0 / 1,2	17
M00051251NF	125	GPM250/1NF	3m (M6)	8/2	1	3	30	7,5	0,37 / 0,1	2,0 / 1,2	17
M00051251NF2	125	GP250/1NF	4m (M7)	8/2	1	3	30	7,5	0,72 / 0,18	2,8 / 1,7	24
M00051251SF2	125	GP250/1SF	2m (M5)	16/4	1	3	30	7,5	0,72 / 0,18	2,8 / 1,7	24
M00052001NF2	200	GP250/1NF	3m (M6)	8/2	1	3	30	7,5	0,72 / 0,18	2,8 / 1,7	24
M00052002NF	200	GP250/2NF	4m (M7)	4/1	2	3	60	7,5	0,72 / 0,18	2,8 / 1,7	25
M00052001NF3	200	GP500/1NF	4m (M7)	8/2	1	3	40	7,5	0,72 / 0,18	2,8 / 1,7	26
M00052001SF	200	GP500/1SF	3m (M6)	16/4	1	3	40	7,5	0,72 / 0,18	2,8 / 1,7	26
M00052501NF2	250	GP250/1NF	2m (M5)	8/2	1	3	30	7,5	0,72 / 0,18	2,8 / 1,7	24
M00052501NF3	250	GP500/1NF	4m (M7)	8/2	1	3	40	7,5	0,72 / 0,18	2,8 / 1,7	26
M00052502NF	250	GP250/2NF	4m (M7)	4/1	2	3	60	7,5	0,72 / 0,18	2,8 / 1,7	25
M00052501SF	250	GP500/1SF	2m (M5)	16/4	1	3	40	7,5	0,72 / 0,18	2,8 / 1,7	26
M00055002NF	500	GP250/2NF	2m (M5)	4/1	2	3	60	7,5	0,72 / 0,18	2,8 / 1,7	25
M00055001NF	500	GP500/1NF	2m (M5)	8/2	1	3	40	7,5	0,72 / 0,18	2,8 / 1,7	26
M00055001SF	500	GP1000/1SF	2m (M5)	16/4	1	3	100	7,5	2,3 / 0,68	5,7 / 4,1	62
M00055002NF2	500	GP500/2NF	4m (M7)	4/1	2	3	80	7,5	0,72 / 0,18	2,8 / 1,7	28
M00055001NF2	500	GP1000/1NF	4m (M7)	8/2	1	3	100	7,5	2,3 / 0,68	5,7 / 4,1	62
M000510002NF	1000	GP500/2NF	2m (M5)	4/1	2	3	80	7,5	0,72 / 0,18	2,8 / 1,7	28
M000510002NF2	1000	GP1000/2NF	4m (M7)	4/1	2	3	40	7,5	2,3 / 0,68	5,7 / 4,1	66
M000510001NF	1000	GP1000/1NF	2m (M5)	8/2	1	3	100	7,5	2,3 / 0,68	5,7 / 4,1	62
M000510001SF	1000	GP1600/1SF	1Am (M4)	16/4	1	3	135	7,5	3,7 / 0,93	9,5 / 5,5	93
M000516001NF	1600	GP1000/1NF	1Bm (M3)	8/2	1	3	100	7,5	2,3 / 0,68	5,7 / 4,1	62
M000516002NF	1600	GP1000/2NF	3m (M6)	4/1	2	3	200	7,5	2,3 / 0,68	5,7 / 4,1	66
M000516001NF2	1600	GP1600/1NF	2m (M5)	8/2	1	3	135	7,5	3,7 / 0,93	9,5 / 5,5	93
M000520002NF	2000	GP1000/2NF	2m (M5)	4/1	2	3	200	7,5	2,3 / 0,68	5,7 / 4,1	66
M000520001NF	2000	GP1600/1NF	1Am (M4)	8/2	1	3	135	7,5	3,7 / 0,93	9,5 / 5,5	93
M000520002NF2	2000	GP2500/1NF	3m (M6)	8/2	1	3	195	7,5	3,7 / 0,93	9,5 / 5,5	100
M000525002NF	2500	GP1000/2NF	1Am (M4)	4/1	2	3	200	7,5	2,3 / 0,68	5,7 / 4,1	66
M000525001NF	2500	GP1600/1NF	1Bm (M3)	8/2	1	3	135	7,5	3,7 / 0,93	9,5 / 5,5	93
M000525002NF2	2500	GP2500/1NF	2m (M5)	8/2	1	3	195	7,5	3,7 / 0,93	9,5 / 5,5	100
M000532001NF	3200	GP1600/2NF	2m (M5)	4/1	2	3	270	7,5	3,7 / 0,93	9,5 / 5,5	102
M000532002NF	3200	GP2500/1BF	1Am (M4)	6,4/1,6	1	3	195	7,5	3,7 / 0,93	9,5 / 5,5	100
M000540002NF	4000	GP1600/2NF	1Am (M4)	4/1	2	3	270	7,5	3,7 / 0,93	9,5 / 5,5	102
M000540002NF2	4000	GP2500/2NF	3m (M6)	4/1	2	3	390	7,5	3,7 / 0,93	9,5 / 5,5	117
M000550002NF	5000	GP2500/2NF	2m (M5)	4/1	2	3	390	7,5	3,7 / 0,93	9,5 / 5,5	117
M000563002NF	6300	GP2500/2BF	1Am (M4)	3,8/0,8	2	3	390	7,5	3,7 / 0,93	9,5 / 5,5	117
M000575003NF	7500	GP1600/3BF	1Bm (M3)	2,1/0,53	3	3	405	7,5	3,7/0,93	9,5/5,5	125
M0005100003NF	10000	GP2500/3BF	1Bm (M3)	2,1/0,53	3	3	585	7,5	3,7/0,93	9,5/5,5	150

GP ELECTRIC CHAIN HOISTS - GIS SPARE PARTS

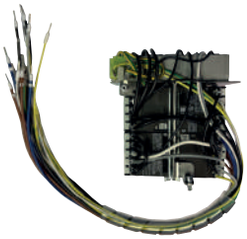
ITEM: M0006

Spare parts for GIS hoist models GP250, GP500 and GP1000:
- Load chain
- Push-button cable
- Safety catch complete
- Control unit









Tech. Code	Size mm	Model	Description
M00060250CAT	3,75 x 10,75	GP250	Chain by the metre
M00060500CAT	5,25 x 15	GP500	Chain by the metre
M00061000CAT	7,45 x 23	GP1000	Chain by the metre
M00060250CAV	5 x 1	GP250 - GP500 - GP1000	Pushbutton cables by the metre
M00060250LIN	22 x 55	GP250 - GP500	Hook safety flap
M00061000LIN	30 x 68	GP1000	Hook safety flap
M00060250GRUP	100 x 100	GP250 - GP500	Control unit
M00061000GRUP	130 x 110	GP1000	Control unit

ELECTRIC CHAIN HOISTS - HANDY

ITEM: M0012

High-quality electric chain hoist with high FEM/ISO class.
Equipped with ergonomic hand control integral with the load hook.

Features:
- Electromechanical drive
- Chain with safety factor "8
- Die-cast aluminium structure and hardened steel impression wheel
- Polygonal drive shaft with trilobal coupling
- Low-voltage (42V) push-button controls
- Adjustment-free brake and friction load limiter as standard
- Three-phase power supply 400V 50 Hz

Advantages:
- Suitable for an high number of operations
- Indicated for external enviorments IP65 protection
- Usable between 15° and + 50°

Supplied with:
- Chain bucket
- Instruction manual of use and maintenance





Tech. Code	LOAD CAPACITY kg	MODEL	CLASS FEM (ISO)	SPEED m/min	NR. CHAIN FALLS	EXCURSION m	POWER kW	INTENSITY A	Weight kg
M00120801	80	GPMH250/1SF	3m (M6)	16/4	1	3	0,37 / 0,10	2,0 / 1,2	19
M00121251	125	GPMH250/1NF	3m (M6)	8/2	1	3	0,37 / 0,10	2,0 / 1,2	19
M00121252	125	GPH500/1SF	4m (M7)	16/4	1	4	0,72 / 0,18	2,8 / 1,7	25
M00122001	200	GPMH250/1NF	3m (M6)	8/2	1	3	0,37 / 0,10	2,0 / 1,2	19
M00122002	200	GPH500/1SF	3m (M6)	16/4	1	4	0,72 / 0,18	2,8 / 1,7	25
M00122501	250	GPH500/1NF	4m (M7)	8/2	1	4	0,72 / 0,18	2,8 / 1,7	25
M00122502	250	GPH500/1SF	2m (M5)	16/4	1	4	0,72 / 0,18	2,8 / 1,7	25
M00125001	500	GPH500/1NF	2m (M5)	8/2	1	4	0,72 / 0,18	2,8 / 1,7	25

ELECTRIC CHAIN HOISTS ATEX - ZONA 22

ITEM: M0013

High quality electric chain hoist with high FEM/ISO class.
Suitable for use in hazardous environments classified Atex Zone 22 dust.
ATEX code II 3D Ex tc IIIA T130 °C Db



Features:
- Electromechanical drive
- Chain with safety factor "8
- Die-cast aluminium structure and hardened steel impression wheel
- Polygonal motor shaft with trilobal coupling
- Low-voltage (42V) push-button controls
- Adjustment-free brake and friction load limiter as standard
- Three-phase power supply 400V 50 Hz

Advantages:
- Suitable for a large number of operations
- Suitable for outdoor use, IP65 protection
- Usable between -15 ° and +50 ° C

Supplied with:
- Chain bucket
- Instruction manual of use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	CLASS FEM (ISO)	SPEED m/min	NR. CHAIN FALLS N°	HOOK RUN m	ADDITIONAL HOOK RUN €/m	ADDITIONAL PUSH-BUTTON CABLE €/m	POWER kW	INTENSITY A	Weight kg
M00131251NF	125	GPD250/1NF	4m (M7)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M00132001NF	200	GPD250/1NF	3m (M6)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M00132501NF	250	GPD250/1NF	2m (M5)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M00132502NF	250	GPD250/2NF	4m (M7)	4/1	2	3	60	7,5	0,72/0,18	2,8/1,7	25
M00132501NF2	250	GPD500/1NF	4m (M7)	8/2	1	3	40	7,5	0,72/0,18	2,8/1,7	26
M00135002NF	500	GPD250/2NF	2m (M5)	4/1	2	3	60	7,5	0,72/0,18	2,8/1,7	25
M00135001NF	500	GPD500/1NF	2m (M5)	8/2	1	3	40	7,5	0,72/0,18	2,8/1,7	26
M00135002NF2	500	GPD500/2NF	4m (M7)	4/1	2	3	80	7,5	0,72/0,18	2,8/1,7	28
M001310002NF	1000	GPD500/2NF	2m (M5)	4/1	2	3	80	7,5	0,72/0,18	2,8/1,7	28
M001310001NF	1000	GPD1000/1NF	2m (M5)	8/2	1	3	100	7,5	2,3/0,68	5,7/4,1	62
M001316002NF	1600	GPD1000/2NF	3m (M6)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001316001NF	1600	GPD1600/1NF	2m (M5)	8/2	1	3	135	7,5	3,7/0,93	9,5/5,5	93
M001320002NF	2000	GPD1000/2NF	2m (M5)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001320001NF	2000	GPD2500/1NF	3m (M6)	8/2	1	3	195	7,5	3,7/0,93	9,5/5,5	100
M001325002NF	2500	GPD1000/2NF	1Am (M4)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001325001NF	2500	GPD1600/1NF	1Bm (M3)	8/2	1	3	135	7,5	3,7/0,93	9,7/5,5	93
M001325001NF2	2500	GPD2500/1NF	2m (M5)	8/2	1	3	195	7,5	3,7/0,93	9,7/5,5	100
M001332002NF	3200	GPD1600/2NF	2m (M5)	4/1	2	3	270	7,5	3,7/0,93	9,7/5,5	100
M001332001BF	3200	GPD2500/1BF	1Am (M4)	6,4/1,6	1	3	195	7,5	3,7/0,93	9,7/5,5	102
M001340002NF	4000	GPD1600/2NF	1Am (M4)	4/1	2	3	270	7,5	3,7/0,93	9,7/5,5	102
M001340002NF2	4000	GPD2500/2NF	3m (M6)	4/1	2	3	390	7,5	3,7/0,93	9,7/5,5	117
M001350002NF	5000	GPD2500/2NF	2m (M5)	4/1	2	3	390	7,5	3,7/0,93	9,7/5,5	117
M001363002BF	6300	GPD2500/2BF	1Am (M4)	3,8/0,8	2	3	390	7,5	3,7/0,93	9,7/5,5	117

SPECIAL ELECTRIC CHAIN HOISTS



GPR INOX
hoist for the food market



GPK hoist for low headroom installations



GPHT hoist with telescopic stand
and control panel on the hook

GPFU hoist
with frequency inverter





GPS hoist for
synchronous lift

ELECTRIC CHAIN HOISTS ATEX - ZONA 2



ITEM: M0014

High-quality electric chain hoist with high FEM/ISO class.
Suitable for use in hazardous environments classified Atex Zone 2 gas.
ATEX code II 3G Ex pz IIA T3 Gb

Features:
- Electromechanical drive
- Chain with safety factor "8
- Die-cast aluminium structure and hardened steel impression wheel
- Polygonal drive shaft with trilobal coupling
- Low-voltage (42V) push-button controls
- Adjustment-free brake and friction load limiter as standard
- Three-phase power supply 400V 50 Hz

Advantages:
- Suitable for a large number of operations
- Suitable for outdoor use, IP65 protection
- Usable between -15 ° and +50 ° C

Supplied with:
- Chain bucket
- Use and maintenance manual

Tech. Code	LOAD CAPACITY Kg	MODEL	CLASS FEM (ISO)	SPEED m/min	HOOK RUN N°	HOOK RUN m	ADDITIONAL HOOK RUN €/m	ADDITIONAL PUSH-BUTTON CABLE €/m	POWER kW	INTENSITY A	Weight kg
M001401251NF	125	GPG250/1NF	4m (M7)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M001402001NF	200	GPG250/1NF	3m (M6)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M001402501NF	250	GPG250/1NF	2m (M5)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M001402502NF	250	GPG250/2NF	4m (M7)	4/1	2	3	60	7,5	0,72/0,18	2,8/1,7	25
M001402501NF2	250	GPG500/1NF	4m (M7)	8/2	1	3	40	7,5	0,72/0,18	2,8/1,7	26
M001405002NF	500	GPG250/2NF	2m (M5)	4/1	2	3	60	7,5	0,72/0,18	2,8/1,7	25
M001405001NF	500	GPG500/1NF	2m (M5)	8/2	1	3	40	7,5	0,72/0,18	2,8/1,7	26
M001405002NF2	500	GPG500/2NF	4m (M7)	4/1	2	3	80	7,5	0,72/0,18	2,8/1,7	28
M001410002NF	1000	GPG500/2NF	2m (M5)	4/1	2	3	80	7,5	0,72/0,18	2,8/1,7	28
M001410001NF	1000	GPG1000/1NF	2m (M5)	8/2	1	3	100	7,5	2,3/0,68	5,7/4,1	62
M001416002NF	1600	GPG1000/2NF	3m (M6)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001416001NF	1600	GPG1600/1NF	2m (M5)	8/2	1	3	135	7,5	3,7/0,93	9,5/5,5	93
M001420002NF	2000	GPG1000/2NF	2m (M5)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001420001NF	2000	GPG2500/1NF	3m (M6)	8/2	1	3	195	7,5	3,7/0,93	9,5/5,5	100
M001425002NF	2500	GPG1000/2NF	1Am (M4)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001425001NF	2500	GPG1600/1NF	1Bm (M3)	8/2	1	3	270	7,5	3,7/0,93	9,5/5,5	93
M001425001NF2	2500	GPG2500/1NF	2m (M5)	8/2	1	3	195	7,5	3,7/0,93	9,5/5,5	100
M001432002NF	3200	GPG1600/2NF	2m (M5)	4/1	2	3	270	7,5	3,7/0,93	9,5/5,5	100
M001432001BF	3200	GPG2500/1BF	1Am (M4)	6,4/1,6	1	3	195	7,5	3,7/0,93	9,5/5,5	102
M001440002NF	4000	GPG1600/2NF	1Am (M4)	4/1	2	3	270	7,5	3,7/0,93	9,5/5,5	102
M001440002NF2	4000	GPG2500/2NF	3m (M6)	4/1	2	3	390	7,5	3,7/0,93	9,5/5,5	117
M001450002NF	5000	GPG2500/2NF	2m (M5)	4/1	2	3	390	7,5	3,7/0,93	9,5/5,5	117
M001463002BF	6300	GPG2500/2BF	1Am (M4)	3,8/0,8	2	3	390	7,5	3,7/0,93	9,5/5,5	117

PUSH BUTTON PANEL FOR HOISTS IN ATEX ENVIRONMENTS

ITEM: M0970



Two-speed pushbutton panel for ATEX classified hazardous environments.
ATEX coding: Ex d e IIC T6 Gb - Ex tb IIIC T85 ° C Db

- Emergency stop button
- IP65 protection
- Tear-saving ring

Tech. Code	Model	Push buttons	Suitable for hoist
M09704/1	XAVP06	4 + 1	GP - GMF

HOIST PUSH-BUTTON SWITCHES

ITEM: M0910

Two speed push button control unit for electric hoists

- Emergency stop button
- Protection IP65
- Cable anti-tearing protection

Tech. Code	Model	Number of buttons	Suitable for hoist
M09102/1	GHP03	2 + 1	GP



ITEM: M0920

Two speed push button control unit for electric hoists.

- Emergency stop button
- Protection IP65
- Cable anti-tearing protection

Tech. Code	Model	Number of buttons	Suitable for hoist
M09202/1	510/FE	2 + 1	GP



ITEM: M0930

Two speed bush button control unit for electric hoists.

- Emergency stop button
- Protection IP65
- Cable anti-tearing protection

Tech. Code	Model	Number of buttons	Suitable for hoist
M09302/1	BXP03	2 + 1	GP



ITEM: M0950

Two speed push button control unit for electric hoists.

- Emergency stop button
- Protection IP65
- Cable anti-tearing protection

Tech. Code	Model	Number of buttons	Suitable for hoist
M09504/1	515/FE	4 + 1	GP - GMF



ITEM: M0955

Two speed push-button control unit for electric hoists.

- Emergency stop button
- IP65 protection
- Cable anti-pull ring

Tech. Code	Model	Number of buttons n°	Suitable for hoist
M09556/2	G6	6 + 2	GP - GMF



ITEM: M0960

Two speed radio push button control unit for electric hoists.

- Emergency stop button
- Protection IP65
- Receiving device

Tech. Code	Model	Number of buttons	Suitable for hoist
M0960RADIO	RADIO	8 + 1	GP - GMF



MANUAL TROLLEYS FOR BEAMS

ITEM: M0155

Manual trolley for beams.

Features:
- For GP hoists with ring suspension
- Four steel ball bearing mounted wheels
- Cast iron casing
- Equipped with anti-impact and anti-derailment safety system

Advantages:
- Suitable for a high number of operations due to high FEM class
- Can be used between -15° and +50°

Supplied with:
- Pin for coupling to hoist
- Use and maintenance manual



ON-LINE MANUAL

Tech. Code	Capacity kg	Model	Width Z mm	Suitable for hoist	Weight kg
M01550500/1	up to 500	GHF500K	50 - 99	GPM250	2,5
M01550500/2	up to 500	GHF500K	100-149	GPM250	2,5
M01551250/1	up to 1250	GHF1250	70 - 240	GP250 - GP500	11
M01552500/1	up to 2500	GHF2500	88 - 300	GP1000	20
M01555000/1	up to 5000	GHF5000	91 - 300	GP1600	32
M01556300/1	up to 6300	GHF6300	91 - 300	GP2500	47

QUICK CONNECTOR FOR HOIST PUSH-BUTTON CONTROLS OR POWER SUPPLIES

ITEM: M0980

Quick connect kit for hoist push-button controls or power supplies.
- IP67 protection
- Voltage up to 600V



Tech. Code	Terminals	Suitable for hoist
M0980AR1	5	GCH - GP
M0980AR2	10	GCH - GP - GMF

CYCLE COUNTERS FOR HOISTS

ITEM: M0990

Device for counting the work cycles of the GP hoist.
Can be used with USB connector for connecting to a PC or connected directly to the LCD unit.
- Voltage 42V
- Board inserted inside the hoist



Tech. Code	Description	Suitable for hoists
M0990DT	Board	GCH - GP
M0990CXDT	USB connector for PC	GCH - GP
M0990VXDT	LCD unit	GCH - GP

LOAD CELL FOR GIS HOISTS

ITEM: M0985

Kit for the implementation of the load cell between trolley and GIS hoist. Eye bolts are included.



Tech. Code	Capacity kg	Suitable for GIS hoists
M09852000	Up to 2000	GP250 - GP500
M09855000	Up to 5000	GP1000 - GP1600 - GP2500

TIMING DEVICE FOR GIS HOISTS

ITEM: M0995

Kit for timing the speed of the GIS hoist.



Tech. Code	Suitable for starters
M0995TEMP	GP250 - GP500 - GP1000 - GP1600 - GP2500

ELECTRIC TROLLEY FOR BEAMS



ITEM: M0165

Electric trolley for beams.

Features:
- For GP hoists with ring suspension
- Four steel ball bearing mounted wheels, two motorized and two idler
- Cast iron casing
- Equipped with anti-impact and anti-derailment safety system

Advantages:
- Suitable for a high number of operations due to high FEM class
- Can be used between -15° and +50°

Supplied with:
- Pin for coupling to hoist
- Use and maintenance manual

Tech. Code	Capacity kg	Model	Speed m/min	Power kW	Intensity A	Width Z mm	Suitable for hoist	Weight kg
M01651250/1	up to 1250	GMF1250	12/4	0.15 / 0.45	1.0 / 1.2	70-119	GP250/GP500	30
M01651250/2	up to 1250	GMF1250	12/4	0.15 / 0.45	1.0 / 1.2	120-240	GP250/GP500	30
M01652500/1	up to 2500	GMF2500	12/4	0.15 / 0.45	1.0 / 1.2	88-300	GP1000	38
M01654000/1	fino a 4000	GMF4000	12/4	0,15 / 0,045	0,65 / 0,75	91-300	GP1600 / GP2500	55
M01655000/1	up to 5000	GMF5000	12/4	0.15 / 0.45	1.0 / 1.2	91-300	GP1600 / GP2500	63
M01656300/1	up to 6300	GMF6300	12/4	0.15 / 0.45	1.0 / 1.2	91 - 300	GP1600 / GP2500	78

ELECTRIC TROLLEY FOR BEAMS - ATEX



ITEM: M0175

Electric trolley for beams suitable for use in hazardous areas classified ATEX.
Zone 22 dust code: II 3D Ex Tc IIIA T 130 ° C Db
Zone 2 gas coding: II 3G Ex Pz IIA T3 Db

Features:
- For GIS GP pranchi with suspension and ring
- Four steel wheels mounted on ball bearings, two motorized and two idle
- Cast iron shells
- Equipped with shockproof and anti-fall protection for derailment

Advantages:
- Suitable for a large number of operations, thanks to the high FEM class
- Usable between -15 ° and + 50 ° C

Supplied with:
- Pin for coupling with the hoist
- Use and maintenance manual

Tech. Code	Load capacity kg	Model	Zona	Speed m/min	Power kW	Intensity A	Ala Z mm	Suitable for hoists	Weight kg
M01751250/1P	fino a 1250	GMFD1250	22	12/4	0.15 / 0,045	0,65 / 0,75	70 - 119	GP250 - GP500	30
M01751250/2P	fino a 1250	GMFD1250	22	12/4	0.15 / 0,045	0,65 / 0,75	120 - 240	GP250 - GP500	30
M01752500/1P	fino a 2500	GMFD2500	22	12/4	0.15 / 0,045	0,65 / 0,75	88 - 300	GP1000	38
M01754000/1P	fino a 4000	GMFD4000	22	12/4	0.15 / 0,045	0,65 / 0,75	91 - 300	GP1600 - GP2500	55
M01755000/1P	fino a 5000	GMFD5000	22	12/4	0.15 / 0,045	0,65 / 0,75	91 - 300	GP1600 - GP2500	63
M01756300/1P	fino a 6300	GMFD6300	22	12/4	0.15 / 0,045	0,65 / 0,75	91 - 300	GP1600 - GP2500	78
M01751250/1G	fino a 1250	GMFG1250	2	12/4	0.15 / 0,045	0,65 / 0,75	70 -119	GP250 - GP500	30
M01751250/2G	fino a 1250	GMFG1250	2	12/4	0.15 / 0,045	0,65 / 0,75	120 - 240	GP250 - GP500	30
M01752500/1G	fino a 2500	GMFG2500	2	12/4	0.15 / 0,045	0,65 / 0,75	88 - 300	GP1000	38
M01754000/1G	fino a 4000	GMFG4000	2	12/4	0.15 / 0,045	0,65 / 0,75	91 - 300	GP1600 - GP2500	55
M01755000/1G	fino a 5000	GMFG5000	2	12/4	0.15 / 0,045	0,65 / 0,75	91 - 300	GP1600 - GP2500	63
M01756300/1G	fino a 6300	GMFG6300	2	12/4	0.15 / 0,045	0,65 / 0,75	91 - 300	GP1600 - GP2500	78

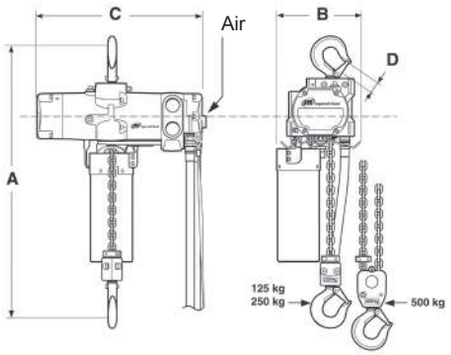
ITEM: M4070

High quality performance pneumatic chain hoist,
certification class ATEX 3GD cll B 135° CX.

Features:
- 2 Push button (lift and descent) control levers
- Control hose 2m
- Die casting aluminum structure
- Overloading protection device

Advantages:
- Ideal for lifting operations within hazardous environments where sparkles, high temperatures fumes and vapours may cause serious risks to the working environment
- Reduced air consumption
- Low noise level

Supplied with:
- Suspension hook
- Chain bucket
- Instruction manual of use and maintenance

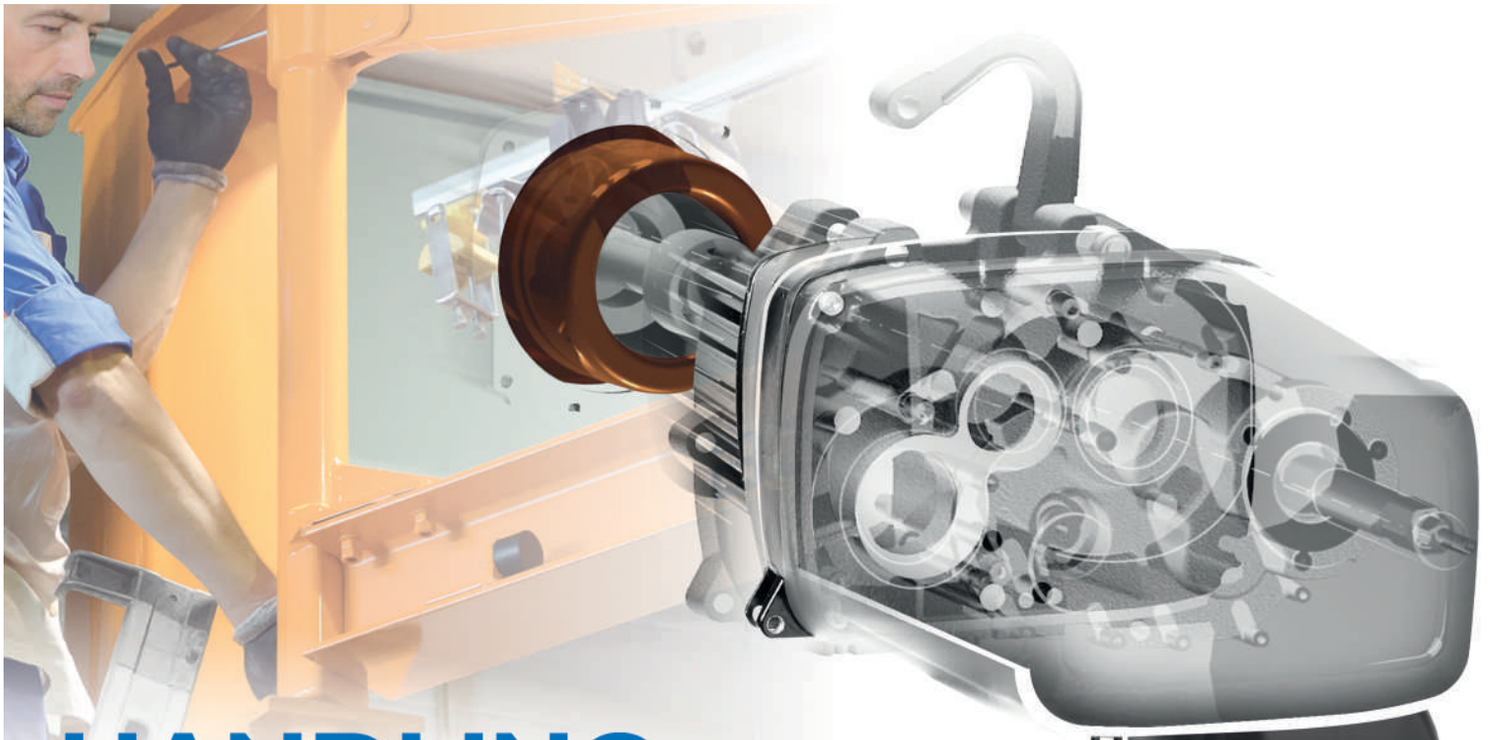




Tech. Code	Model	Max capacity kg	Chain lifting speed at full load m/min	Sections chain n°	Hook run m	Noise level dB(A)	Air consumption l/s	A mm	B mm	C mm	D mm	Weight kg
M4070125	CL125K	125	13,1	1	3	75	15	292	160	325	20	15,4
M4070250	CL250K	250	9,8	1	3	75	15	292	160	325	20	15,4
M4070500	CL500K	500	4,6	2	3	75	15	324	160	325	20	17,2
M40701000	ML1000K	1000	9	2	3	89	35	457	248	343	28	28

WODEX mro

Perfect ergonomics



HANDLING SERVICE



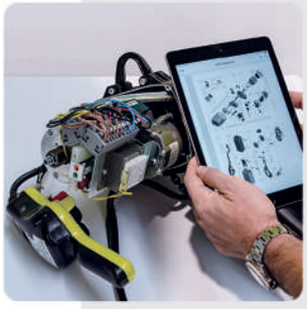
SPECIALIZED INSTALLATION PERSONNEL

AFTER SALES ASSISTANCE



MULTI-BRAND REPAIRS

STATUTORY MAINTENANCE



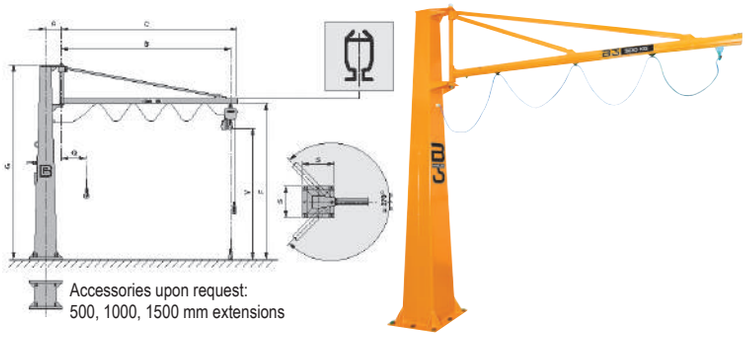
EMERGENCY MAINTENANCE WITH AUTHORIZED LOCAL SERVICE CENTRES

TWENTY-YEAR CRANE INSPECTIONS WITH REMAINING SERVICE LIFE ASSESSMENT



ITEM: M1010

Column mounted jib cranes SC model
with GIS KB system profile arm.



Accessories upon request:
500, 1000, 1500 mm extensions

Features:
- Profile cold-rolled not bent without welds
- Brakes operated by cap springs, wear resistant
- Tronco-pyramidal column, our patent
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particular humid environments

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- Maximum rigidity garanteed by the geometry of the column
- Arm rotation up to 270°

Supplied with:
- Hoist trolley
- Power supply system with flat cable and cable trolleys
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	F mm	G* mm	Q mm	S mm	MAX HOOK HEIGHT FROM GROUND Y mm	FOUNDATION TYPE**	EXTENSION TYPE	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	Weight kg
M1010802000	80	SC 80/2000	2020	1855	200	2530	3020	405	400	2045	1	1	3	530	180
M1010803000	80	SC 80/3000	3020	2855	200	2530	3020	405	400	2045	2	1	4	800	190
M1010804000	80	SC 80/4000	4020	3855	200	2530	3020	415	400	2045	3	1	5	1070	200
M1010805000	80	SC 80/5000	5020	4855	200	2530	3020	425	400	2045	4	1	6	1300	210
M10101252000	125	SC 125/2000	2020	1855	200	2530	3020	405	400	1975	3	1	4	850	180
M10101253000	125	SC 125/3000	3020	2855	200	2530	3020	405	400	1975	4	1	6	1210	190
M101012540000B	125	SC 125/4000 Bis	4030	3865	260	2430	3025	570	560	1875	5	1A	3	720	220
M10101254000	125	SC 125/4000	4030	3865	305	3430	4025	570	560	2875	5	1A	3	720	280
M10101255000	125	SC 125/5000	5030	4865	305	3430	4025	655	560	2875	6	1A	4	890	300
M10101256000	125	SC 125/6000	6030	5850	305	3425	4025	680	560	2865	7	1A	5	1060	320
M10101257000	125	SC 125/7000	7035	6855	320	3495	4320	765	620	2935	10	2	4	700	330
M10101258000	125	SC 125/8000	8035	7855	320	3495	4320	850	620	2935	10	2	5	800	340
M10102003000	200	SC 200/3000	3030	2865	305	3430	4025	485	560	2875	6	1A	4	840	275
M10102004000	200	SC 200/4000	4030	3865	305	3430	4025	570	560	2875	7	1A	5	1100	285
M10102005000	200	SC 200/5000	5030	4850	305	3425	4025	670	560	2865	8	1A	6	1360	320
M10102006000	200	SC 200/6000	6030	5850	305	3425	4025	680	560	2865	8	1A	7	1620	330
M10102007000	200	SC 200/7000	7035	6830	320	3460	4320	805	620	2880	11	2	7	1120	415
M10102008000	200	SC 200/8000	8035	7830	320	3460	4320	890	620	2880	11	2	8	1280	450
M10102503000B	250	SC 250/3000 Bis	3030	2865	305	3430	4025	485	560	2875	7	1A	3	1060	250
M10102504000B	250	SC 250/4000 Bis	4030	3865	305	3430	4025	570	560	2875	8	1A	3	1400	280
M10102505000	250	SC 250/5000	5035	4855	320	3495	4320	685	620	2935	10	2	6	1000	340
M10102506000	250	SC 250/6000	6035	5855	320	3495	4320	685	620	2935	11	2	7	1200	370
M10102507000	250	SC 250/7000	7035	6830	320	3460	4320	805	620	2880	12	2	9	1400	415
M10102508000	250	SC 250/8000	8035	7830	320	3460	4320	890	620	2880	12	2	10	1570	450
M10105003000	500	SC 500/3000	3035	2735	320	3495	4320	670	620	2910	10	2	7	1170	330
M10105004000	500	SC 500/4000	4035	3855	320	3495	4320	600	620	2910	12	2	10	1550	380
M10105005000	500	SC 500/5000	5045	4840	320	3445	4320	730	620	2845	13	2	12	1910	530
M10105006000	500	SC 500/6000	6045	5840	320	3445	4320	730	620	2845	14	2	14	2290	550
M10105007000	500	SC 500/7000	7045	6840	320	3445	4320	815	620	2845	15	2	16	2660	585
M10105008000	500	SC 500/8000	8045	7840	320	3445	4320	880	620	2845	17	2	19	3050	640
M101010003000	1000	SC1000/3000	3045	2720	320	3445	4320	680	620	2845	16	2	15	2360	460
M101010004000	1000	SC1000/4000	4045	3720	320	3445	4320	765	620	2845	17	2	19	3100	500
M101010005000	1000	SC1000/5000	5045	4720	320	3445	4320	850	620	2845	18	2	24	3850	630
M101010006000	1000	SC1000/6000	6045	5720	320	3445	4320	950	620	2845	19	2	28	4600	680

NOTE: Upon request versions featuring different load capacity may be supplied.

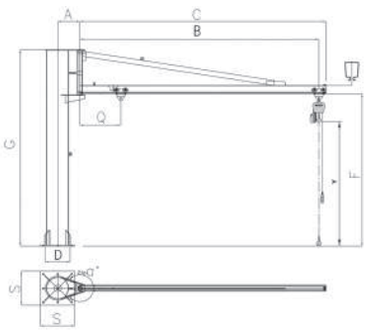
* Cranes may be supplied featuring lower height from the standard. From the model SC 125/4000 onwards the ceiling must be 150 mm taller than the G quote.

Pag. M.19- For foundation and relative cages dimensions

ROUND COLUMN MOUNTED JIB CRANE WITH GIS SYSTEM KB PROFILE ARM

ITEM: M1250

Column mounted jib crane, model TER, with GIS system KB profile arm.





Features:
- Cold rolled profile, not bent, seamless
- Wear resistant cap spring brakes
- Finish: one coat of anti-rust paint and two coats of water-soluble varnish not suitable for outdoors or particularly damp environments

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- Maximum rigidity guaranteed by the geometry of the column
- Arm rotation up to 270°

Supplied with:
- Hoist trolley
- Power supply system with festoon flat cable system and cable trolleys
- Radius adjustable slew limiter
- Use and maintenance manual

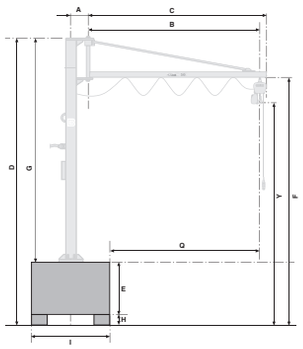
Tech. Code	CAPACITY kg	MODEL	ARM LENGTH C mm	OUTERMOST POSITION OF HOOK B mm	A mm	F mm	G mm	Q mm	S mm	D mm	HOOK HEIGHT FROM GROUND Y mm	FOUNDATION TYPE**	EXTENSION TYPE	ANCHORING TIE ROD TRACTION kg	Weight kg
M125002003000	200	SC200/3000 TER	3000	2855	300	3385	4000	560	560	330	2900	6	1A	1440	310
M125002004000	200	SC200/4000 TER	4000	3855	300	3382	4000	560	560	330	2900	7	1A	1920	330
M125002005000	200	SC200/5000 TER	5000	4855	300	3385	4000	560	560	330	2900	8	1A	2400	345
M125002503000	250	SC250/3000 TER	3000	2855	300	3385	4000	560	560	330	2900	7	1A	1440	310
M125002504000	250	SC250/4000 TER	4000	3855	200	3382	4000	560	560	330	2900	8	1A	1920	330
M125002505000	250	SC250/5000 TER	5000	4855	300	3385	4000	560	560	330	2900	8	1A	2400	345
M125005004000	500	SC500/4000 TER	4000	3720	350	3140	4000	740	620	400	2650	12	2	2130	465
M125005005000	500	SC500/5000 TER	5000	4720	350	3140	4000	740	620	400	2650	13	2	2660	490
M125010004000	1000	SC1000/4000 TER	4000	3720	350	3140	4000	740	620	400	2650	17	2	3960	580
M125010005000	1000	SC1000/5000 TER	5000	4720	350	3140	4000	740	620	400	2650	18	2	4950	610

Pag. M.19 - For foundation and relative cages dimensions



ITEM: M1015

Movable jib cranes with palletized base, model SCP
with GIS KB System profile arm.





Features:
- Profile cold-rolled not bent without welds
- Brakes operated by cap springs, wear resistant
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particular humid environments
-The palletized base is an iron structure which has to be filled with cement by the user

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- Maximum rigidity garanteed by the geometry of the column
- Thanks to the palletized base the crane can be easily moved
- Rotation of the arm up to 270°

Supplied with:
- Hoist trolley
- Power supply system with flat cable and cable box trolley
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	A mm	B mm	D mm	E mm	F mm	G mm	H mm	I mm	Q mm	MAX HOOK HEIGHT FROM GROUND Y mm	Weight kg
M10151253000	125	SCP125/3000	3000	200	2855	3820	700	3330	3020	100	1000	2555	2775	2000
M10151254000	125	SCP125/4000	4000	260	3865	3925	800	3330	3025	100	1100	3620	2775	2750
M10151255000	125	SCP125/5000	5000	305	4865	4075	950	3480	3025	100	1100	4620	2925	3300
M10152003000	200	SCP200/3000	3000	305	2865	3925	800	3330	3025	100	1100	2620	2775	2750
M10152004000	200	SCP200/4000	4000	305	3865	4075	950	3480	3025	100	1100	3620	2925	3300
M10152005000	200	SCP200/5000	5000	305	4850	4125	1000	3525	3025	100	1200	4555	2965	4000

- Hoist excluded



COLUMN MOUNTED JIB CRANES WITH BEAM ARM

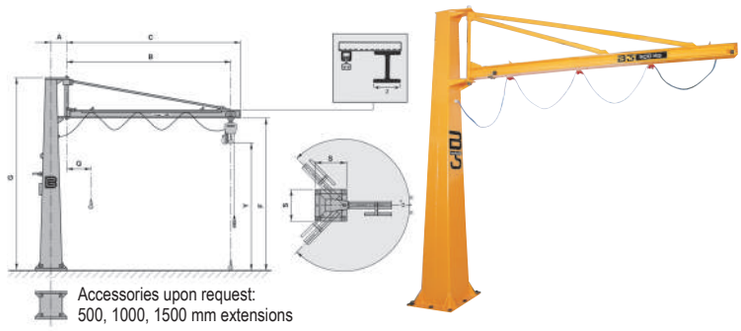
ITEM: M1020

Colum mounted jib cranes, TC model, with a beam arm.

Features:
- Tronco-pyramidal column, our patent
- Brakes operated by cap springs, wear resistant
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particularly humid enviroments

Advantages:
- Maximum rigidity guaranteed by the geometry of the column
- Arm rotation up to 270°

Supplied with:
- Power supply system with flat cable and cable trolleys
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance



Accessories upon request:
500, 1000, 1500 mm extensions

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	F mm	G* mm	Q mm	S mm	MAX HOOK HEIGHT FROM GROUND Y mm	Z mm	α°	FOUNDATION TYPE**	EXTENSION TYPE	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION Kg/cm²	ANCHORING TIE ROD TRACTION kg	Weight kg
M10202503000	250	TC 250/3000	3040	2800	320	3451	4320	477	620	2885	120	265	9	2	4	610	360
M10202504000	250	TC 250/4000	4040	3800	320	3451	4320	477	620	2885	120	265	10	2	5	800	405
M10202505000	250	TC 250/5000	5040	4800	320	3451	4320	477	620	2885	120	265	10	2	6	1000	425
M10202506000	250	TC 250/6000	6040	5800	320	3451	4320	477	620	2885	120	265	11	2	7	1200	445
M10202507000	250	TC 250/7000	7040	6800	320	3451	4320	477	620	2885	120	265	12	2	9	1400	465
M10202508000	250	TC 250/8000	8040	7800	320	3451	4320	477	620	2885	120	265	12	2	10	1570	485
M10205003000	500	TC 500/3000	3040	2800	320	3451	4320	480	620	2860	120	265	10	2	7	1170	385
M10205004000	500	TC 500/4000	4040	3800	320	3451	4320	480	620	2860	120	265	12	2	10	1550	405
M10205005000	500	TC 500/5000	5051	4810	320	3491	4320	491	620	2900	120	265	13	2	12	1910	595
M10205006000	500	TC 500/6000	6051	5810	320	3491	4320	491	620	2900	120	265	14	2	14	2290	615
M10205007000	500	TC 500/7000	7051	6810	320	3472	4320	491	620	2900	140	260	15	2	16	2660	670
M10205008000	500	TC 500/8000	8051	7810	320	3453	4320	491	620	2860	160	255	17	2	19	3050	740
M102010003000	1000	TC 1000/3000	3051	2810	320	3491	4320	558	620	2900	120	265	16	2	15	2360	515
M102010004000	1000	TC 1000/4000	4051	3810	320	3491	4320	558	620	2900	120	265	17	2	19	3100	680
M102010005000	1000	TC 1000/5000	5051	4810	320	3491	4320	558	620	2900	120	265	18	2	24	3850	700
M102010006000	1000	TC 1000/6000	6051	5810	320	3472	4320	558	620	2880	140	260	19	2	28	4600	750
M102015004000	1500	TC 1500/4000	4051	3820	320	3472	4320	558	620	2800	140	260	19	2	26	4250	700
M102015004500	1500	TC 1500/4500	4451	4210	320	3472	4320	558	620	2800	140	260	19	2	33	5350	710

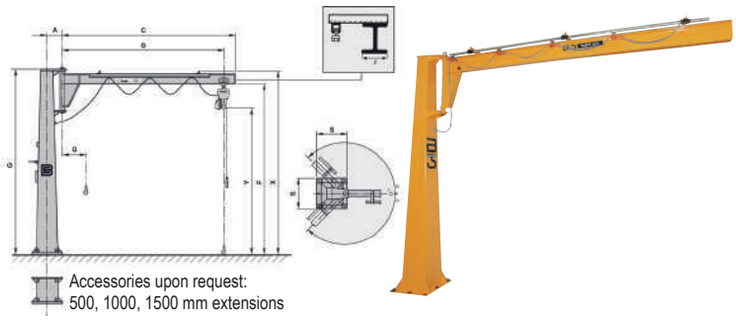
* Cranes may be supplied featuring lower height from the standard.
The ceiling must be 150 mm taller than the G quote.
On request we supply the cranes with the lower features.

Pag. M.19- For foundation and relative cages dimensions

COLUMN MOUNTED JIB CRANES WITH OVERHEAD BEAM ARM

ITEM: M1030

Column mounted jib cranes, RC model, with overhead beam.



Accessories upon request:
500, 1000, 1500 mm extensions

Features:
- Tronco-pyramidal column, our patent
- Brakes operated by cap springs, wear resistant
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particularly humid enviroments humid

Advantages:
- The overhead beam are allows you to recover height space increasing the hook run
- Maximum rigidity guaranteed by the geometry of the column
- Arm rotation up to 270°

Supplied with:
- Power supply system with flat cable and cable trolleys
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	F mm	G* mm	Q mm	S mm	X*** mm	MAX HOOK HEIGHT FROM GROUND Y mm	Z mm	α°	FOUNDATION TYPE**	EXTENSION TYPE	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	Weight kg
M10302503000	250	RC 250/3000	3000	2840	320	4070	4320	587	620	4280	3510	90	270	9	2	4	610	350
M10302504000	250	RC 250/4000	4000	3840	320	4050	4320	587	620	4280	3485	100	270	10	2	5	800	380
M10302505000	250	RC 250/5000	5000	4840	320	4030	4320	587	620	4280	3465	110	270	10	2	6	1000	420
M10302506000	250	RC 250/6000	6000	5840	320	4098	4320	587	620	4280	3530	160	270	11	2	7	1200	480
M10302507000	250	RC 250/7000	7000	6840	320	4079	4320	587	620	4280	3510	180	265	12	2	9	1400	540
M10302508000	250	RC 250/8000	8000	7840	320	4060	4320	587	620	4280	3495	200	260	12	2	10	1570	640
M10305003000	500	RC 500/3000	3000	2840	320	4050	4320	590	620	4280	3460	100	270	10	2	7	1170	360
M10305004000	500	RC 500/4000	4000	3840	320	4030	4320	590	620	4280	3440	110	270	12	2	10	1550	400
M10305005000	500	RC 500/5000	5000	4840	320	4079	4320	590	620	4280	3490	180	265	13	2	12	1910	610
M10305006000	500	RC 500/6000	6000	5840	320	4079	4320	590	620	4280	3490	180	265	14	2	14	2290	645
M10305007000	500	RC 500/7000	7000	6840	320	4060	4320	590	620	4280	3470	200	240	15	2	16	2660	730
M10305008000	500	RC 500/8000	8000	7840	320	4040	4320	590	620	4280	3450	220	250	17	2	19	3050	840
M103010003000	1000	RC 1000/3000	3000	2830	320	4098	4320	657	620	4280	3505	160	270	16	2	15	2360	520
M103010004000	1000	RC 1000/4000	4000	3830	320	4079	4320	657	620	4280	3485	180	265	17	2	19	3100	680
M103010005000	1000	RC 1000/5000	5000	4830	320	4060	4320	657	620	4280	3465	200	260	18	2	24	3850	750
M103010006000	1000	RC 1000/6000	6000	5830	320	4040	4320	657	620	4280	3445	220	250	19	2	28	4600	845
M103015004000	1500	RC 1500/4000	4000	3830	320	4040	4320	657	620	4280	3365	220	250	19	2	26	4250	740
M103015004500	1500	RC 1500/4500	4400	4230	320	4040	4320	657	620	4280	3365	240	245	20	2	33	5350	845

* Cranes may be supplied featuring lower height from the standard.The ceiling must be 150 mm taller than the G quote.
*** Measured with applied load.
On request we supply the cranes with the lower features.

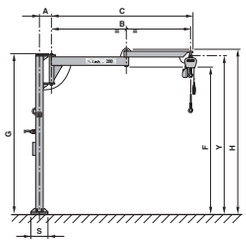
Pag. M.19- For foundation and relative cages dimensions

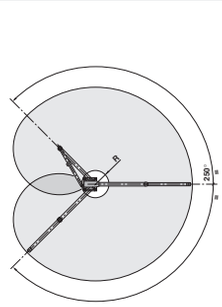
COLUMN MOUNTED JIB CRANES WITH ARTICULATED ARM

B·HANDLING

ITEM: M1040

Column mounted jib cranes ACP - ACH model with articulated arm and eyebolt attack, suitable for any type of hoist with suspension.







Features:
- Brake operated by cap springs, wear resistant
- Arm joint rotating on high quality ball bearings
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particularly humid environments

Advantages:
- Maximum rigidity guaranteed by the geometry of the colum
- Maximum coverage of the area ajacent to the columns
- Ability to overcome obstacles thanks to the arm articulation

Supplied with:
- External power supply system with flat cable
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	F mm	G* mm	H mm	R mm	S mm	EYEBOLT HEIGHT Y mm	FOUNDATION TYPE**	EXTENSION TYPE	PRESSURE BETWEEN PILLAR BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	Weight kg
M1040P802600	80	ACP 80/2600	2650	2600	305	2630	3025	3180	230	560	3055	5	1A	2	370	205
M1040P804000	80	ACP 80/4000	4050	4000	305	2630	3025	3180	350	560	3055	5	1A	2	490	238
M1040P1252600	125	ACP 125/2600	2650	2600	305	2630	3025	3180	230	560	3055	5	1A	3	560	205
M1040P1254000	125	ACP 125/4000	4050	4000	305	3735	4025	4230	350	560	4080	5	1A	3	720	297
M1040P2002600	200	ACP 200/2600	2650	2600	305	3735	4025	4230	230	560	4080	5	1A	4	840	292
M1040P2004000	200	ACP 200/4000	4050	4000	305	3735	4025	4230	350	560	4080	5	1A	3	1100	319

NOTE: Upon request different version sizes may also be supplied.

Pag. M.19 - For foundation and relative cages dimensions

EXTENSIONS FOR COLUMN MOUNTED CRANES

B·HANDLING

ITEM: M1210

Extensions needed to increase the height of the crane column.



Features:
- Designed to match the crane column models SC, SC TER, TC, RC, ACP, e ACH

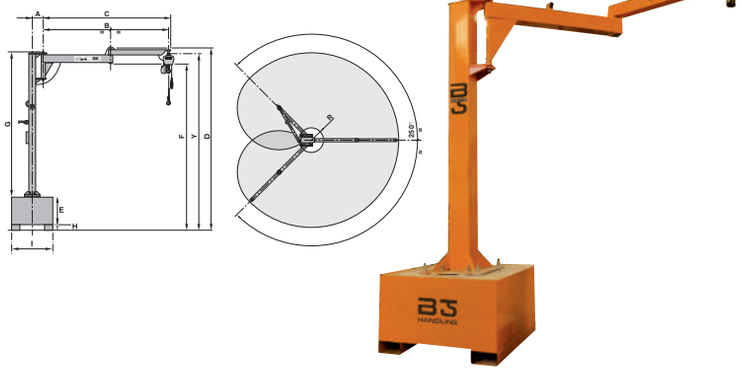
Advantages:
- Maximum rigidity guaranteed by the pressure of reinforcements on every corner
  Suppled with : column coupling bolts

Tech. Code	Model	Height m	Weight kg
M121011	Type 1	0.5	52
M121012	Type 1	1.0	88
M121013	Type 1	1,5	147
M121021	Type 1a	0.5	72
M121022	Type 1a	1.0	124
M121023	Type 1a	1,5	216
M121031	Type 2	0.5	90
M121032	Type 2	1.0	161
M121033	Type 2	1.5	285

MOVABLE JIB CRANES WITH ARTICULATED ARM

ITEM: M1045

Column mounted jib cranes with palletized base, ACPP model, with articulated arm and Eyebolt attachment, suitable for any type of hoist with suspension.



Features:
- Brake operated by cap springs, wear resistant
- Arm joint rotating on high quality ball bearings
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particularly humid environments
- The palletized base is an Iron structure which has to be filled with cement by the user

Advantages:
- Maximum rigidity guaranteed by the geometry of the colum
- Maximum coverage of the area ajacent to the column
- Ability to overcome obstacles thanks to the arm articulation
- Thanks to the palletized base, the crane can be easily moved

Supplied with:
- Internal power supply system
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	D mm	E mm	F mm	G mm	H mm	I mm	R mm	Y mm	Weight kg
M1045P1252600	125	ACPP125/2600	2650	2600	260	4080	800	3530	3025	100	1100	230	3955	2750
M1045P1254000	125	ACPP125/4000	4050	4000	260	4130	800	3635	3025	100	1100	350	3980	2750
M1045P2002600	200	ACPP200/2600	2650	2600	305	4130	800	3635	3025	100	1100	230	3980	2750
M1045P2004000	200	ACPP200/4000	4050	4000	305	4280	950	3785	3025	100	1100	350	4130	3300

Related products

NEW

SAFETY FOOTWEAR

Tech. Code	EU Size	UK Size
K181744	44	10
K181745	45	10,5
K181746	46	11
K181747	47	12



Product available in chapter K

ANCHORING ACCORDING TO THE THICKNESS OF THE INDUSTRIAL REINFORCED CONCRETE FLOORING

CRANE	< 120 mm	120 mm	150 mm	200 mm	240 mm	> 240 mm
)/2000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
)/2600 - ACP, ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
)/3000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
)/4000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
)/4000 - ACP, ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
)/5000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
25/2000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
25/2600 - ACP, ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
25/3000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
25/4000 - SC, SC-BIS, ACP, ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
25/5000 - SC	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
25/6000 - SC	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
25/7000 - SC	TYPE 4 CAGE - M1220B880	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2
25/8000 - SC	TYPE 4 CAGE - M1220B880	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2
00/2600 - ACP,ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
00/3000 - SC, SC-TER	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
00/4000 - SC, SC-TER, ACP,ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
00/5000 - SC, SC-TER	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
00/6000 - SC	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	TYPE 1 PLATE - M124002006BIS	CHEMICALS M20 KIT3 - M1230KIT3	CHEMICALS M20 KIT3 - M1230KIT3	CHEMICALS M20 KIT3 - M1230KIT3
00/7000 - SC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
00/8000 - SC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
50/3000 - SC-BIS, SC-TER	TYPE 4 CAGE - M1220B880	TYPE 2 CAGE - M1220B580	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
50/3000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2
50/4000 - SC-BIS, SC-TER	TYPE 2 CAGE - M1220A580	TYPE 2 CAGE - M1220B580	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
50/4000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2
50/5000 - SC-TER	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT3 - M1230KIT3	CHEMICALS M20 KIT3 - M1230KIT3	CHEMICALS M20 KIT3 - M1230KIT3
50/5000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
50/6000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
50/7000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
50/8000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
00/3000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
00/4000 - SC, SC-TER, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
00/5000 - SC, SC-TER, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 3 PLATE - M124005006BIS	TYPE 3 PLATE - M124005006BIS	CHEMICALS M24 KIT5 - M1230KIT5	CHEMICALS M24 KIT5 - M1230KIT5
00/6000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 3 PLATE - M124005006BIS	TYPE 3 PLATE - M124005006BIS	CHEMICALS M24 KIT5 - M1230KIT5	CHEMICALS M24 KIT5 - M1230KIT5
00/7000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS
00/8000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS
000/3000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS
000/4000 - SC, SC-TER, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS
000/5000 - SC, SC-TER, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS
000/6000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS
500/4000 - TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS
500/4500 - TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS

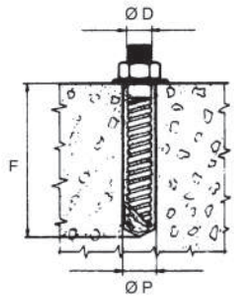
The values in the table have been calculated assuming a reinforced concrete industrial floor with a minimum hardness of RcK = 300 kg/cm2 and equipped with electro-welded mesh on the top and bottom, arranged longitudinally in two orthogonal directions and for the entire extension, in a percentage of no less than 0.1% of the cross-sectional area.
For further information, please contact our technical department.

SCREWS AND CHEMICAL FIXING FOR COLUMN MOUNTED JIB CRANES

B·HANDLING 3

ITEM: M1230

Kit consisting of screws and chemical fixing for mounting column cranes to the reinforced concrete industrial pavment (minimum resistance 250 daN cm²). The verfication of eligibiliy is on the user.





Tech. Code	Mod. Crane	D screw Ø	F Hole depth	P Hole ø mm	Depth mm	P mm
M1230KIT1	KIT 1	M16	4	130	150	18
M1230KIT2	KIT 2	M16	8	130	150	18
M1230KIT3	KIT 3	M20	4	170	200	22
M1230KIT4	KIT 4	M20	8	170	200	22
M1230KIT5	KIT 5	M24	8	210	240	26

FOUNDATION PLINTHS AND CAGES FOR COLUMN CRANES

B·HANDLING

ITEM: M1220

Cages for column cranes anchorage.

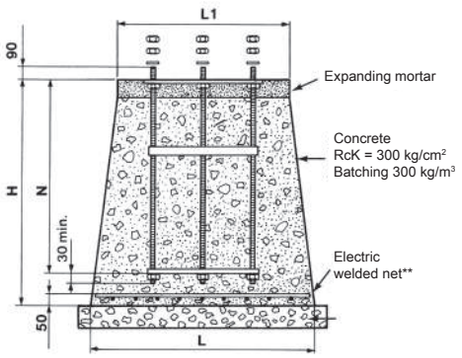
Features:
- Supplied fully assembled and welded

Advantages:
- Ready to be sunk in the plinth

Supplied with:
- The necessary nuts and lock nuts matching the column

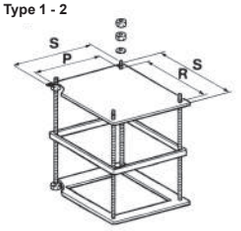
The foundation plinths are calculated for an average ground pressure of 1.1kg/cm². In the presence of ground with an average allowable pressure below these values, the dimension of the plinth will have to be recalculated properly.
Our technical department is available for this service.

PLINTH IN FOUNDATION DRAFT

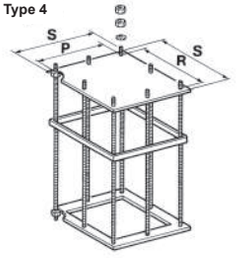


** In foundation with H=1200 and in all cases where L/H = 1,5 reinforce the foundation plinth with an electric welde net 200 x 200 Ø 5 mm.

Type 1 - 2



Type 4



Tech. Code	FOUNDATION TYPE	CAGE TYPE	N mm	S mm	*P mm	*R mm	H mm	L mm	L1 mm	TIE RODS	Weight kg
M1220A380	1 ÷ 4	A	380	400	330	240	500	700 ÷ 1000	560 ÷ 800	M24	25
M1220A580	5 ÷ 8	A	580	560	480	480	700	1000 ÷ 1300	800 ÷ 1040	M27	45
M1220B880	9 ÷ 20	B	880	620	540	540	1200	1200 ÷ 2200	960 ÷ 1760	M27	75

* Cranes featuring 1-2-3-4 foundation type have a double-hole base plate, thus allowing to choose column positioning.

Foundation type:

1 - L mm 700 - L1 mm 560
2 - L mm 800 - L1 mm 640
3 - L mm 900 - L1 mm 720
4 - L mm 1000 - L1 mm 800
5 - L mm 1000 - L1 mm 800
6 - L mm 1100 - L1 mm 880
7 - L mm 1200 - L1 mm 960
8 - L mm 1300 - L1 mm 1040
9 - L mm 1200 - L1 mm 960
10 - L mm 1300 - L1 mm 1040
11 - L mm 1400 - L1 mm 1120
12 - L mm 1500 - L1 mm 1200
13 - L mm 1600 - L1 mm 1280
14 - L mm 1700 - L1 mm 1360
15 - L mm 1800 - L1 mm 1440
16 - L mm 1600 - L1 mm 1280
17 - L mm 1800 - L1 mm 1440
18 - L mm 1900 - L1 mm 1520
19 - L mm 2000 - L1 mm 1600
20 - L mm 2200 - L1 mm 1760

FOUNDATION COUNTERPLATES FOR COLUMN MOUNTED JIB CRANES

B·HANDLING

ITEM: M1240

Foundation counterplates for fixing the column mounted jib cranes to a reinforced concrete industrial floor
Supplied with the necessary screws and nuts for coupling to the column mounted jib crane.
It is the responsibility of the user to assess the suitability of the floor.



Tech. Code	Counterplates	D screw Ø	Screws N°	Hole depth mm	Floor depth min. mm	Hole Ø mm	Weight kg
M124002006BIS	Type 1	M12	12	100	120	14	115
M124005004BIS	Type 2	M16	12	130	150	18	150
M124005006BIS	Type 3	M16	12	130	150	18	190
M124010004BIS	Type 4	M16	16	130	150	18	240
M124015005BIS	Type 5	M16	20	130	150	18	350

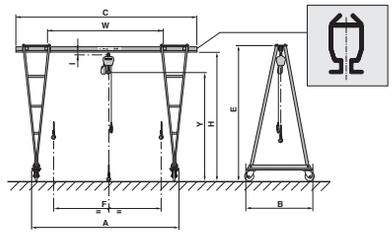
ITEM: M1610

Portal cranes, GP model, with GIS KB system profile.

Features:
- Profile cold rolled not bent without welds
- Finishing a coat of anti-rust, two coats of water-soluble paint, not suitable for external or particularly humid enviroments

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- Thanks to the 4 wide diameters wheels coated in neoprene, the crane can be easily moved

Supplied with:
- Hoist trolley
- Power supply system with flat cable and cable trolleys
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance





Tech. Code	LOAD CAPACITY kg	MODEL	A mm	B mm	C mm	E mm	F mm	H mm	I mm	W mm	Y mm
M16101253000	125	GP 125/3000	3780	1560	4280	3200	2700	3090	81	3000	2534
M16101254000	125	GP 125/4000	4780	1560	5280	3300	3700	3076	83	4000	2518
M16101254500	125	GP 125/4500	5280	1560	5780	3300	4200	3076	83	4500	2518
M16102503000	250	GP 250/3000	3780	1560	4280	3350	2700	3076	83	3000	2518
M16102504000	250	GP 250/4000	4780	1560	5280	3350	3700	3076	83	4000	2518
M16102504500	250	GP 250/4500	5280	1560	5780	3350	4200	3036	102	4500	2459
M16105003000	500	GP 500/3000	3780	1560	4280	3350	2700	3036	102	3000	2437
M16105004000	500	GP 500/4000	4780	1560	5280	3350	3700	3036	102	4000	2437
M16105004500	500	GP 500/4500	5280	1560	5780	3350	4200	3036	102	4500	2437
M16107503000	750	GP 750/3000	3780	1560	4280	3350	2700	3036	102	3000	2437
M16107504000	750	GP 750/4000	4780	1560	5280	3350	3700	3036	102	4000	2437
M161010003000	1000	GP 1000/3000	3780	1560	4280	3350	2700	3036	102	3000	2437

NOTE: Upon request versions featuring different load capacity may be supplied.

Related products

WODEX WHEELED SERVICE TOOL CASES TSA APPROVED

Tech. Code	A mm	B mm	C mm
F715500	511	446	363



The products are available in chapter F

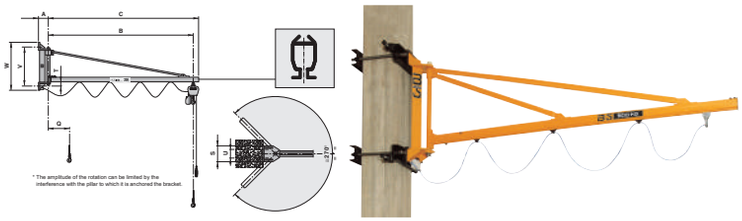
ITEM: M1310

Wall mounted jib crane, SM model with GIS KB system profile arm.

Features:
- Profile cold-rolled not bent without welds
- Brakes operated by cap springs, wear resistant
- Finishing a coat of anti-rust, two coats of water-soluble paint, not suitable for external or particular humid enviroments

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- Arm rotation up to 270°

Supplied with:
- Hoist trolley
- Power supply system with flat cable and cable trolleys
- Instruction manual for assembly, use and maintenance



* The amplitude of the rotation can be limited by the interferference with the pillar to which it is anchored the bracket.

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGTH C mm	EXTERNAL HOOK POSITION B mm	A mm	Q mm	S mm	T mm	U mm	V mm	W mm	ANCHORING SYSTEM**	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	PILLAR BENDING MOMENT kgm	Weight kg
M13100802000	80	SM 80/2000	2020	1855	135	405	180	77	80	620	750	1	2	180	247	70
M13100803000	80	SM 80/3000	3020	2855	135	405	180	77	80	620	750	1	3	270	370	80
M13100804000	80	SM 80/4000	4020	3855	135	415	180	77	80	620	750	1	3	360	494	90
M13100805000	80	SM 80/5000	5020	4855	135	425	180	77	80	620	750	1	4	450	617	100
M13101252000	125	SM 125/2000	2020	1855	135	405	180	77	80	620	750	1	3	270	370	70
M13101253000	125	SM 125/3000	3020	2855	135	405	180	77	80	620	750	1	4	400	548	80
M13101254000	125	SM 125/4000	4030	3865	185	570	240	93	150	760	880	2	3	450	738	85
M13101255000	125	SM 125/5000	5030	4865	185	655	240	93	150	760	880	2	4	550	902	100
M13101256000	125	SM 125/6000	6030	5850	185	680	240	86	150	760	880	2	5	660	1083	130
M13101257000	125	SM 125/7000	7035	6855	185	805	240	124	150	1010	1130	2	5	550	1177	140
M13101258000	125	SM 125/8000	8035	7855	185	890	240	124	150	1010	1130	2	6	620	1327	150
M13102003000	200	SM 200/3000	3030	2865	185	485	240	93	150	760	880	2	4	510	837	80
M13102004000	200	SM 200/4000	4030	3865	185	570	240	93	150	760	880	2	5	680	1115	90
M13102005000	200	SM 200/5000	5030	4850	185	670	240	86	150	760	880	2	6	840	1378	125
M13102006000	200	SM 200/6000	6030	5850	185	680	240	86	150	760	880	2	7	1000	1640	130
M13102007000	200	SM 200/7000	7035	6830	185	805	240	86	150	1010	1130	2	6	880	1883	200
M13102008000	200	SM 200/8000	8035	7830	185	890	240	86	150	1010	1130	2	7	1000	2140	240
M13102503000B	250	SM 250/3000 Bis	3030	2865	185	485	240	93	150	760	880	2	4	610	1006	90
M13102504000B	250	SM 250/4000 Bis	4030	3865	185	570	240	93	150	760	880	2	5	820	1348	120
M13102505000	250	SM 250/5000	5035	4855	185	685	240	124	150	1010	1130	2	5	780	1670	130
M13102506000	250	SM 250/6000	6035	5855	185	685	240	124	150	1010	1130	2	6	930	1990	160
M13102507000	250	SM 250/7000	7035	6830	185	805	240	86	150	1010	1130	2	7	1100	2354	210
M13102508000	250	SM 250/8000	8035	7830	185	890	240	86	150	1010	1130	2	8	1250	2675	250
M13105003000	500	SM 500/3000	3035	2735	185	670	240	124	150	1010	1130	2	6	900	1926	130
M13105004000	500	SM 500/4000	4035	3855	185	600	240	124	150	1010	1130	2	8	1200	2568	180
M13105005000	500	SM 500/5000	5045	4840	185	730	240	88	150	1012	1132	3	10	1500	3210	235
M13105006000	500	SM 500/6000	6045	5840	185	730	240	88	150	1012	1132	3	12	1800	3852	255
M13105007000	500	SM 500/7000	7045	6840	185	815	240	88	150	1012	1132	3	14	2100	4494	275
M13105008000	500	SM 500/8000	8045	7840	185	880	240	88	150	1012	1132	3	16	2400	5136	330
M131010003000	1000	SM1000/3000	3045	2720	185	680	240	88	150	1012	1132	3	12	1810	3874	150
M131010004000	1000	SM1000/4000	4045	3720	185	765	240	88	150	1012	1132	3	16	2410	5158	190
M131010005000	1000	SM1000/5000	5045	4720	185	850	240	88	150	1012	1132	3	20	3000	6420	230
M131010006000	1000	SM1000/6000	6045	5720	185	850	240	88	150	1012	1132	3	23	3600	7704	280

NOTE: Upon request cranes with different load capacities may be supplied.

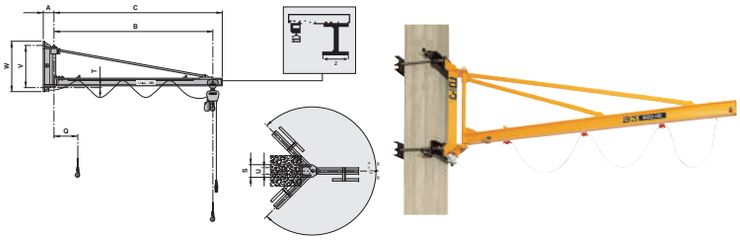
Pag. M.25 - For bracket and tie rod assembly dimensions

WALL MOUNTED JIB CRANES WITH BEAM ARM

B·HANDLING

ITEM: M1320

Wall mounted jib, TM model, with beam arm.



Features:
- Brakes operated by cap springs, wear resistant
- Finishing a coat of anti-rust, two coats of water-soluble paint, not suitable for external or particular humid enviroments

Advantages:
- Arm rotation up to 270°

Supplied with:
- Power supply system on a steel profile with cable trolleys
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	Q mm	S mm	T mm	U mm	V mm	W mm	BEAM WIDTH Z mm	α°	ANCHORAGE TYPE**	PRESSURE BETWEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORAGE THE ROD TRANCTION kg	PILAR BENDING MOMENT kgm
M13202503000	250	TM 250/3000	3040	2800	185	477	240	86	150	1010	1130	120	255	2	3	470	1006
M13202504000	250	TM 250/4000	4040	3800	185	477	240	86	150	1010	1130	120	255	2	4	630	1348
M13202505000	250	TM 250/5000	5040	4800	185	477	240	86	150	1010	1130	120	255	2	5	780	1670
M13202506000	250	TM 250/6000	6040	5800	185	477	240	86	150	1010	1130	120	255	2	6	930	1990
M13202507000	250	TM 250/7000	7040	6800	185	477	240	86	150	1010	1130	120	255	2	7	1100	2354
M13202508000	250	TM 250/8000	8040	7800	185	477	240	86	150	1010	1130	120	255	2	8	1250	2675
M13205003000	500	TM 500/3000	3040	2800	185	480	240	86	150	1010	1130	120	255	2	6	900	1926
M13205004000	500	TM 500/4000	4040	3800	185	480	240	86	150	1010	1130	120	255	2	8	1200	2568
M13205005000	500	TM 500/5000	5051	4810	185	491	240	126	150	1012	1132	120	255	3	10	1500	3210
M13205006000	500	TM 500/6000	6051	5810	185	491	240	126	150	1012	1132	120	255	3	12	1800	3852
M13205007000	500	TM 500/7000	7051	6810	185	491	240	107	150	1012	1132	140	250	3	14	2100	4494
M13205008000	500	TM 500/8000	8051	7810	185	491	240	88	150	1012	1132	160	245	3	16	2400	5136
M132010003000	1000	TM 1000/3000	3051	2810	185	558	240	126	150	1012	1132	160	255	3	12	1810	3874
M132010004000	1000	TM 1000/4000	4051	3810	185	558	240	126	150	1012	1132	160	255	3	16	2410	5158
M132010005000	1000	TM 1000/5000	5051	4810	185	558	240	126	150	1012	1132	160	255	3	20	3000	6420
M132010006000	1000	TM 1000/6000	6051	5810	185	558	240	107	150	1012	1132	140	250	3	23	3600	7704
M132015004000	1500	TM 1500/4000	4051	3810	185	568	240	107	150	1012	1132	140	250	3	21	3300	7062
M132015004500	1500	TM 1500/4500	4451	4210	185	568	240	107	150	1012	1132	140	250	3	27	4200	8988

NOTE: Upon request cranes with different load capacities may be supplied.

Pag. M.25 - For bracket and tie rod assembly dimensions

SLEW LIMITERS FOR WALL MOUNTED JIB CRANES

B·HANDLING



ITEM: M1440

Slew limiter kit for wall mounted jib cranes.

Features:
- Custom designed to limit the rotation of the jib for wall mounted cranes mod. SM, TM, RM, AMP and AMH

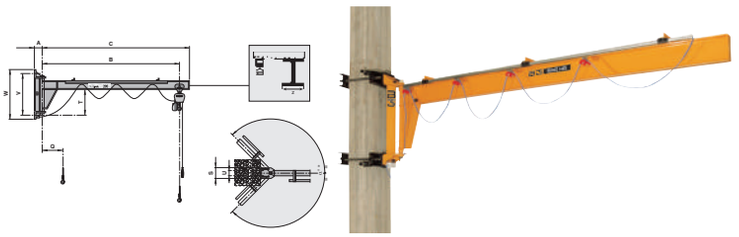
Advantages:
- Suitable for all brackets

Supplied with:
- The fastenings and bolts necessary for attaching wall mounted jib crane

Tech. Code	Suitable for	Weight kg
M1440MENS	SM - TM - RM - AMP - AMH	3

ITEM: M1330

Wall mounted jib, RC model, with overhead beam arm.



Features:
- Brakes operated by cap springs, wear resistant
- Finishing a coat of anti-rust, two coats of water-soluble paint, not suitable for external or particular humid enviroments

Advantages:
- The raised beam allows you to save height, increasing the hook run
- Arm rotation up to 270°

Supplied with:
- External power supply system on a steel profile with cable trolleys
- Instruction manual of assembly, use and maintenance

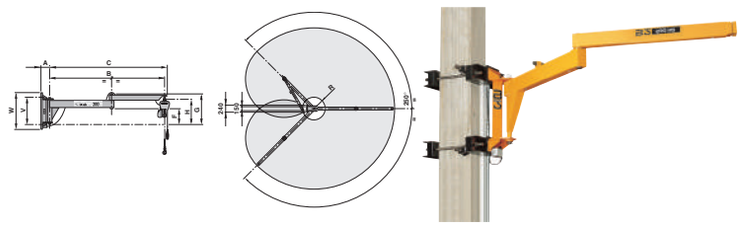
Tech. Code	LOAD CAPACITY kg	MODEL	STRADDLE C mm	EXTERNAL HOOK POSITION B mm	A mm	Q mm	S mm	T*** mm	U mm	V mm	W mm	Trench Z mm	α°	ANCHORING SYSTEM**	PRESSURE BETWEEN PILLAR BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	PILLAR BENDING PHASE kgm
M13302503000	250	RM 250/3000	3000	2840	185	587	240	705	150	1010	1130	90	265	2	3	470	1006
M13302504000	250	RM 250/4000	4000	3840	185	587	240	685	150	1010	1130	100	260	2	4	630	1348
M13302505000	250	RM 250/5000	5000	4840	185	587	240	665	150	1010	1130	110	260	2	5	780	1670
M13302506000	250	RM 250/6000	6000	5840	185	587	240	733	150	1010	1130	160	245	2	6	930	1990
M13302507000	250	RM 250/7000	7000	6840	185	587	240	714	150	1010	1130	180	240	2	7	1100	2354
M13302508000	250	RM 250/8000	8000	7840	185	587	240	695	150	1010	1130	200	235	2	8	1250	2675
M13305003000	500	RM 500/3000	3000	2840	185	590	240	685	150	1010	1130	100	260	2	6	900	1926
M13305004000	500	RM 500/4000	4000	3840	185	590	240	665	150	1010	1130	110	260	2	8	1200	2568
M13305005000	500	RM 500/5000	5000	4840	185	590	240	714	150	1012	1132	180	240	3	10	1500	3210
M13305006000	500	RM 500/6000	6000	5840	185	590	240	714	150	1012	1132	180	240	3	12	1800	3852
M13305007000	500	RM 500/7000	7000	6840	185	590	240	695	150	1012	1132	200	235	3	14	2100	4494
M13305008000	500	RM 500/8000	8000	7840	185	590	240	675	150	1012	1132	220	225	3	16	2400	5136
M133010003000	1000	RM 1000/3000	3000	2830	185	657	240	733	150	1012	1132	160	245	3	12	1810	3874
M133010004000	1000	RM 1000/4000	4000	3830	185	657	240	714	150	1012	1132	180	240	3	16	2410	5158
M133010005000	1000	RM 1000/5000	5000	4830	185	657	240	695	150	1012	1132	200	235	3	20	3000	6420
M133010006000	1000	RM 1000/6000	6000	5830	185	657	240	675	150	1012	1132	220	225	3	23	3600	7704
M133015004000	1500	RM 1500/4000	4000	3830	185	657	240	675	150	1012	1132	220	225	3	21	3300	7062
M133015005000	1500	RM 1500/5000	4800	4630	185	657	240	675	150	1012	1132	240	220	3	21	4200	8988

* The rotation radius can be limited by the pillar itself to which is anchored the bracket. Height assessed when loaded. Upon request cranes with different load capacities may be supplied.
*** Height measured with applied load.
Different load capacities may be supplied upon request.

Pag. M.25 - For bracket and tie rod assembly dimensions

ITEM: M1340

Wall mounted crane, AMP model with articulated arm and eyebolt connection, suitable for any type of hoist with suspension.



Features:
- Brake operated by cap springs, wear resistant
- Arm joint rotating on high quality ball bearings
- Finishing coat with anti-rust, two coats of water-soluble paint,not suitable for external or particularly humid environments

Avantages:
- Maximum coverage of the area adjacent to the column
- Ability to overcome obstacles thanks to the arm articulation

Supplied with:
- Internal power supply system,
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	STRADDLE C	ESTREME POSITIONING LOAD AXLE B mm	A mm	F mm	G mm	H mm	R mm	V mm	W mm	ANCHORING SYSTEM**	PRESSURE BETWEEN PILLAR BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	PILLAR BENDING PHASE kg/m	Weight kg
M1340P802600	80	AMP 80/2600	2650	2600	185	460	840	735	230	760	880	2	2	210	336	118
M1340P804000	80	AMP 80/4000	4050	4000	185	460	840	735	350	760	880	2	3	300	480	141
M1340P1252600	125	AMP 125/2600	2650	2600	185	460	840	735	230	760	880	2	4	340	540	118
M1340P1254000	125	AMP 125/4000	4050	4000	185	410	890	785	350	760	880	2	3	450	738	142
M1340P2002600	200	AMP 200/2600	2650	2600	185	410	890	785	230	760	880	2	4	510	837	137
M1340P2004000	200	AMP 200/4000	4050	4000	185	410	890	785	350	760	880	2	5	680	1115	164

Pag. M.25 - For bracket and tie rod assembly dimensions



B-HANDLING CRANE SPARE PARTS

ITEM: M1400

B-Handling crane spare parts
- flat power cable
- cable trolley

Tech. Code	Size mm	Model	Description
M1400CAVSC	4 x 1,5	For SC, TER, SCP, TC, RC, SM, TM, RM cranes	Flameproof flat cable for hoist power supply
M1400CARRSC	83 x 40	For SC, TER, SCP, SM cranes,	4-wheel cable trolley

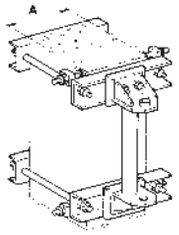


ANCHORING BRACKET SYSTEM KIT FOR WALL-MOUNTED CRANES

B·HANDLING

ITEM: M1410

Anchoring brackets system kit, complete with bolts for wall mounting.



Features:
- Designed to anchor cranes models SM, TM, RM, AMP, AMH

Advantages:
- Ensures a stable secure fixing system over time

Supplied with:
- The necessary couplings and bolts for the crane mounting

Tech. Code	ANCHORING SYSTEM	Pillard (A) mm	Weight kg
M1410250KIT1	1	from 250 up to 450	54
M1410250KIT2	2	from 250 up to 450	62
M1410250KIT3	3	from 250 up to 450	73
M1410450KIT1	1	from 451 up to 650	64
M1410450KIT2	2	from 451 up to 650	76

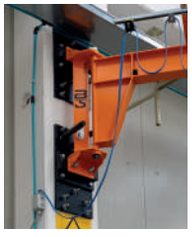
Tech. Code	ANCHORING SYSTEM	Pillard (A) mm	Weight kg
M1410450KIT3	3	from 451 up to 650	88
M1410650KIT1	1	from 651 up to 850	74
M1410650KIT2	2	from 651 up to 850	87
M1410650KIT3	3	from 651 up to 850	105

ANCHORING BRACKET SYSTEM KIT FOR FRONTAL ANCHORING OF JIB CRANES

B·HANDLING

ITEM: M1415

Anchoring bracket system kit for frontal anchoring of jib cranes



Features:
- Custom designed to anchor the SM, TM, RM, AMP and AMH cantilever cranes from the fron

Advantages:
- They ensure a secure and stable fixing over time

Supplied with:
- Equipped with the nuts and bolts and chemical anchors necessary for coupling with the cantilever crane and fixing on the reinforced concrete column.

Tech. Code	ANCHORING SYSTEM	Pillard A mm	Weight kg
M1415250KIT1	1	da 250 a 450	15
M1415250KIT2	2	da 250 a 450	25
M1415250KIT3	3	da 250 a 450	35
M1415450KIT1	1	da 451 a 650	18
M1415450KIT2	2	da 451 a 650	28

Tech. Code	ANCHORING SYSTEM	Pillard A mm	Weight kg
M1415450KIT3	3	da 451 a 650	38
M1415650KIT1	1	da 651 a 850	20
M1415650KIT2	2	da 651 a 850	30
M1415650KIT3	3	da 651 a 850	40

ITEM: M1420

Slew limiter kit for column mounted jib cranes.



Features:
- Custom designed to limit the rotation of the jib for column-mounted cranes. SC, TC, RC, ACP, ACH.

Advantages:
- Suitable for all columns

Supplied with:
- The fastenings and bolts necessary for coupling the crane to the column

Tech. Code	Suitable for	Weight kg
M1420CRAV	SC - TC - RC - ACP - ACH	8

ITEM: M1430

Slew limiter kit for column mounted jib cranes.



Features:
- Custom designed to limit the rotation of the jib for column-mounted cranes. SC, ACP, ACH

Advantages:
- Suitable for all columns

Supplied with:
- The fastenings and bolts necessary for coupling the crane to the column

Tech. Code	Suitable for	Weight kg
M1430RAGG	SC up to 250 kg - ACP - ACH	5

Related products

SAFETY SHOES

Tech. Code	EU Size	UK Size
K181243	43	9
K181244	44	10
K181245	45	10 1/2
K181246	46	11



Product available in chapter K

MODULAR SYSTEM FOR KB PROFILE SYSTEM MONORAILS AND TRAVELLING CRANES

ITEM: M1600

Modular system fo KB profile system monorails and travelling cranes for the safe and reliable handling of suspended loads.

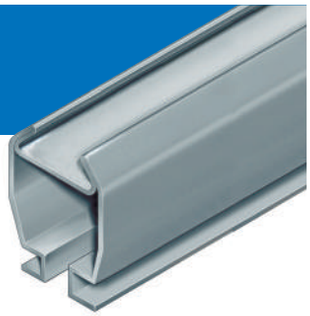
Features:
- Profile cold rolled not bent without welds
- Finishing coat with anti-rust, two coats of water soluble paint, not suitable for external or particular humid environments

Supplied with:
- Hoist trolley
- Power supply system with flat cable and cable trolleys
- Instruction manual for assembly, use and maintenance

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- The outstanding profile weight/capacity ratio light and rigid at the same time and very easy to handle
- Easy to mount thanks to the modularity of the system
- Minimum noise level guaranteed by a reflon coating on the trolleys wheels

KB I

Load capacity up to 500 kg



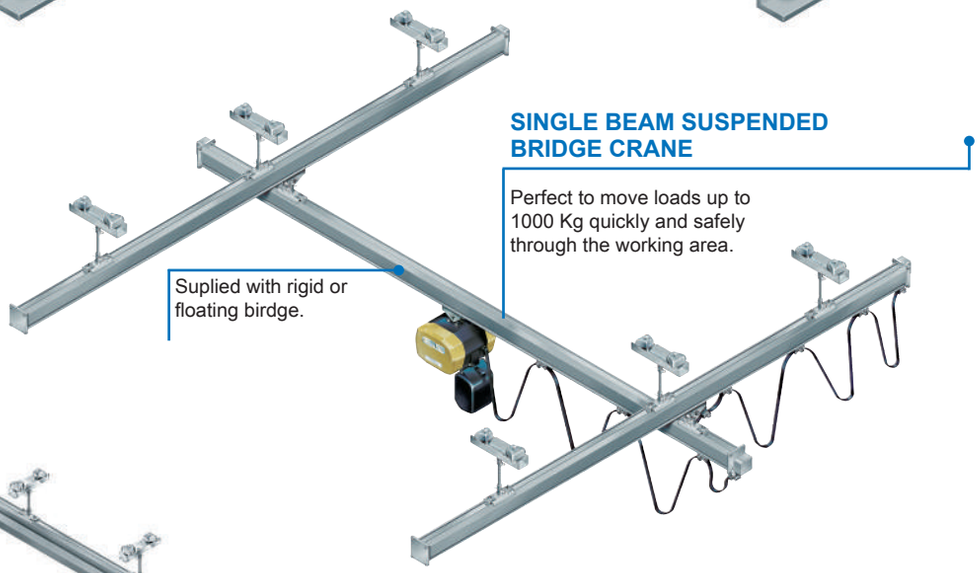
KB II

Load capacity up to 1500 kg



- **MAXIMUM SMOOTHNESS**
- **MAXIMUM SAFETY**
- **EASY TO ASSEMBLE**
- **MINIMUM NOISE**

HIGHER CAPACITIES PROFILE AVALAIBLE ON REQUEST



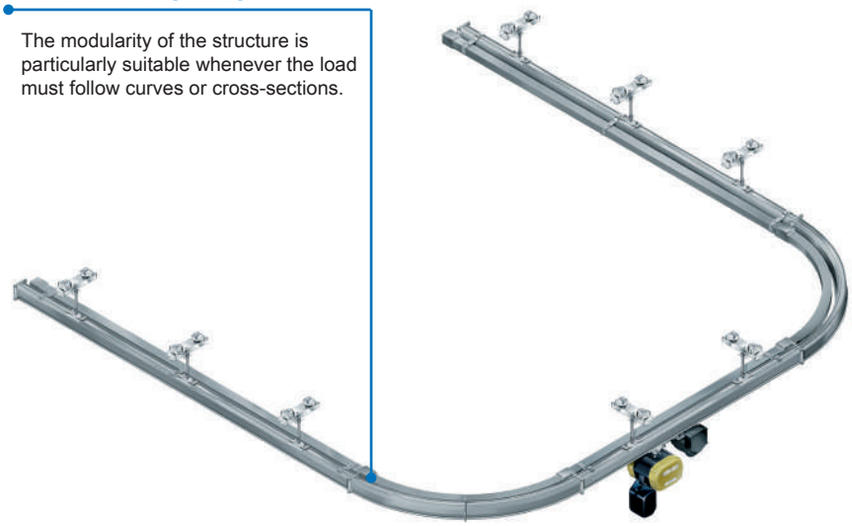
SINGLE BEAM SUSPENDED BRIDGE CRANE

Perfect to move loads up to 1000 Kg quickly and safely through the working area.

Suplied with rigid or floating birdge.

RAIL WITH CURVES

The modularity of the structure is particularly suitable whenever the load must follow curves or cross-sections.



ALUMINUM PROFILE VERSIONS ALSO AVAILABLE ON REQUEST

For more information please contact our technical office
info@linkindustrialtools.it

KB TRAVELLING CRANES

ITEM: M2000

Modular crane system with supporting structure, made with modular elements and high quality steel profiles, cold rolled allowing an outstanding smooth running. Rigid and stable construction to minimize the efforts related to both bridge and of hoist trolley movements. Available load capacities: 200 and 500 Kg.

Runways:
- 2 Bars length 6000 mm
- Gauge 4000 mm
- GIS system KB I profile
- Power supply cable ,profile built-in trolleys , front connection box units positioned along the runways
- Finishing with 1 coat of anti-rust and 2 coats of water soluble paint which is not suitable for external or particulary humid environments

Suspensions:
- 6 direct suspensions for beams with a flange from 65 mm up to 200 mm
- Maxximum interaxis 3000 mm

Bridge:
- Single beam
- Maximum width 4500 mm
- GIS system KB I profile
- Reinforcement IPE 120
- Height from ground 3300 mm
- Power supply cable and profile built-in trolleys positioned along the bridge
- Manual translation of the bridge along the runways
- Manual hoist movement along the bridge
- Finishing with 1 coat of anti-rust and 2 coats of water soluble paint which is not suitable for external or particulary humid environments

Structure:
- Solid steel structure built with commercial profiles
- Perforated base plates for ground anchoring by chemical vials and tie rods
- Maximum height 4100 mm
- Maximum width 5900 mm
- Maximum length 6000 mm
- Finishing with 1 coat of anti-rust and 2 coats of water soluble paint which is not suitable for external or particulary humid environments

Electric chain hoist GIS GP250:
- Sturdy construction with cast aluminium housing and covers
- New braking system for an immediate and precise stop of the load
- Adjustable up and down electric limit switch- Hook run 2700 mm
- Control panel low voltage 42 V
- Supply 380 V, 3 Ph, 50 Hz

Tech. Code	Load capacity Kg	Operation area mm	Hoist	Speed m/s	Weight kg
M20002006X4	200	6000 x 4000	GP250 1NF	8/2	1900
M20005006X4	500	6000 x 4000	GP250 2NF	4/1	1950



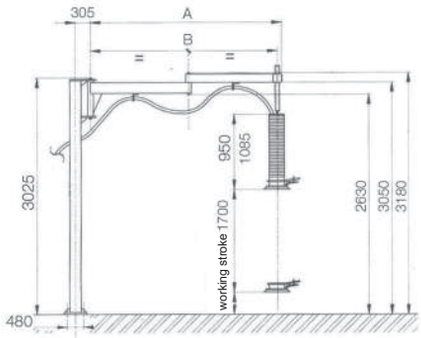


CE

ITEM: M3010

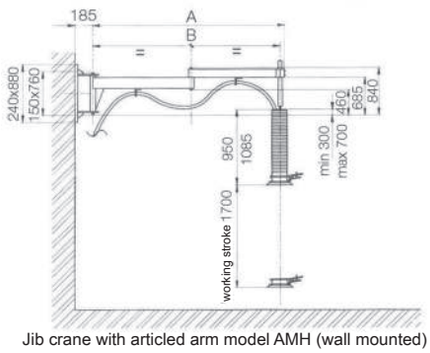
Vacuum lifters guided by an electric vacuum pump for lifting various types of material.

M301030PSF -Model with single pad flexible
M301030PS -Model with single pad rectangular
M301030PD -Model with double rectangular pad on 500 mm bar
M301030PO -Model with oval pad
M301035PTI -Model with round plate support in aluminum and gasket in silicone, control handles in stainless steel AISI 304
M301060PD -Model with double rectangular pad on 500 mm bar
M301060PO -Model with oval pad
M3010100PQ -Model with quadruple rectangular pad. The distance between the individual suction cups are adjustable on 2 bars of 600 mm mounted on a bar of 1800 mm.



Jib crane with articled arm model ACH (column mounted)

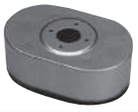
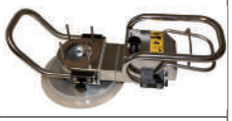
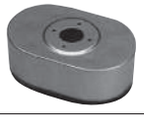
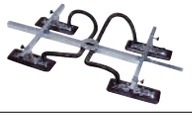
Features:
- 3 Phase pump 380V 50HZ
- Bellows air lift
- Filter protection for the pump
- 13m vacuum tube
- Lifting speed with continuous regulation from 0 to 30/min
- Usefull vertical run 1700mm
- 360 ° Roating suspension head 360° incontinuous



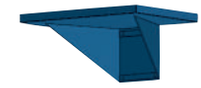
Jib crane with articled arm model AMH (wall mounted)

Advantages:
- Loads fast and accurate moving
- Vacume level regulation through a comfortable handle positioned on the control unit
- The system holds the load even in case of a power cut, slowly taking it down to the ground in an easy controlled manner

Supplied with:
- Instruction manual of use and maintenance

Tech. Code	Load capacity kg	Weight kg	Suitable for	Pad mm	Description	Pad
M301030PSF	30	18	Box	∅ 120	Flexible single plate	
M301030PS	30	20	Box	85 x 200	Single rectangular plate	
M301030PD	30	25	Box	120 x 315	Double rectangular plate	
M301030PO	30	25	Bags in paper or pvc	180 x 370	Oval plate	
M301050PV	50	28	Bags	146 x 19,9 x 318	Vertical gripper	
M301035PTI	35	20	Food products	∅ 250	Circular plate	
M301060PD	60	26	Box	120 x 320	Double rectangular plate	
M301060PO	60	26	Bags in paper or pvc	180 x 370	Oval plate	
M3010100PQ	100	30	Panels	120 x 320	Quadruple rectangular plate	

ITEM: M3012

Tech. Code	Suitable for	Dimension mm	Weight kg	
M3012CASE	Soundproofing to reduce pump noise	600 x 480	10	
M3012MENS	Pump holder shelf	600 x 480	25	

INFO APPLICATIONS VACU-B

Some examples of applications of vacuum lifters.









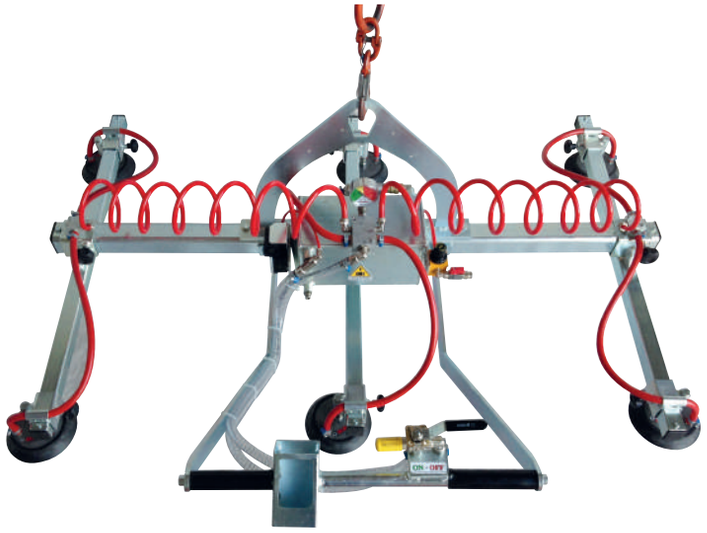
ITEM: VACUJET SDPM

Model SDPM vacuum lifters with extremely high suction capacity and continuous vacuum generation.

Features:
- Suction plates suitable for constant loads and for use with non-porous surfaces such as metal, glass, plexiglas and marble
- Compressed air operated
- Custom beams designed to allow the position of the suction points to be changed

Advantages:
- Precise and safe load handling
- Possibility of handling variously shaped parts with a wide size range
- The system holds the raised load even in the event of a power failure thanks to the vacuum tank

Supplied with:
- Sound and light warning system if the vacuum plates are incorrectly positioned on the piece to be lifted
- Shut-off valves at every suction point
- Use and maintenance manual



Tech. Code		M3050SDPM0125	M3050SDPM0250	M3050SDPM0500	M3050SDPM1000	M3050SDPM1500
Max. capacity	kg	125	250	500	1000	1500
N° vacuum plates		2	4	4	6	8
Ø suction cups	mm	250	250	300	300	300
Height	mm	550	620	620	650	680
Weight	kg	45	45	50	65	95
Maximum slab size	mm	3000x1500	3000x1500	3000x1500	3000x1500	3000x1500
Min. slab thickness	mm	6	6	6	4	1

NOTE: Pneumatic tilting versions available on request.

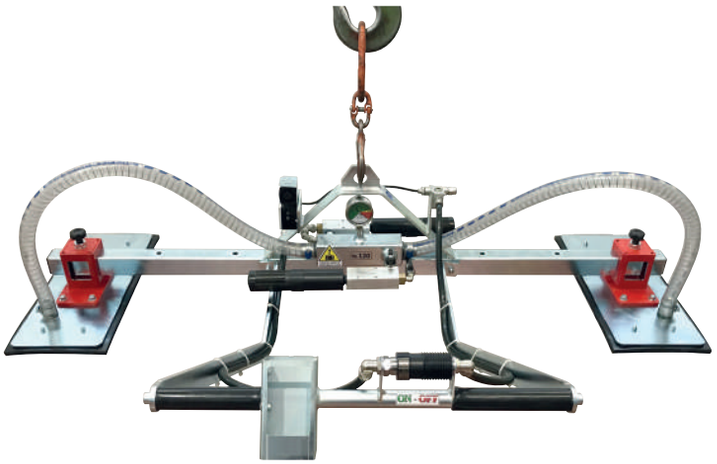
ITEM: VACUJET SDPL

Model SDPL vacuum lifters with extremely high suction capacity and continuous vacuum generation.

Features:
- Suction plates suitable for constant loads and for use with porous surfaces such as wood, MDF and chipboard
- Compressed air operated
- Custom beams designed to allow the position of the suction points to be changed

Advantages:
- Precise and safe load handling
- Possibility of handling variously shaped parts with a wide size range
- The system holds the raised load even in the event of a power failure thanks to the vacuum tank

Supplied with:
- Sound and light warning system if the vacuum plates are incorrectly positioned on the piece to be lifted
- Shut-off valves at every suction point
- Use and maintenance manual



Tech. Code		M3055SDPL0125	M3055SDPL0200
Max. capacity	kg	125	200
N° vacuum plates		1	2
Vacuum plate size	mm	600 x 200	500 x 200
Height	mm	400	450
Weight	kg	25	40

NOTE: Pneumatic tilting versions available on request.

ITEM: VACUJET SDE

Model SDE vacuum lifters with extremely high suction capacity and continuous vacuum generation.

Features:
- Suction plates suitable for constant loads and for use with non-porous surfaces such as metal, glass, Plexiglas and marble
- Electric 3 phase 380V 50 Hz pump operated
- Custom beams designed to allow the position of the suction points to be changed

Advantages:
- Precise and safe load handling
- Possibility of handling variously shaped parts with a wide size range
- The system holds the raised load even in the event of a power failure thanks to the vacuum tank

Supplied with:
- Sound and light warning system if the vacuum plates are incorrectly positioned on the piece to be lifted
- Shut-off valves at every suction point
- Use and maintenance manual



Tech. Code		M3060SDE0125	M3060SDE0250	M3060SDE0500	M3060SDE1000	M3060SDE1500
Max. capacity	kg	125	250	500	1000	1500
N° vacuum plates		2	4	4	6	8
Vacuum plate Ø	mm	250	250	300	300	300
Height	mm	550	620	620	650	680
Weight	kg	50	50	55	70	100
Maximum slab size	mm	3000x1500	3000x1500	3000x1500	3000x1500	3000x1500
Minimum slab thickness	mm	6	6	6	4	1

NOTE: Electric tilting versions available on request.



PNEUMATIC MANIPULATORS WITH DOUBLE CABLE

B·HANDLING

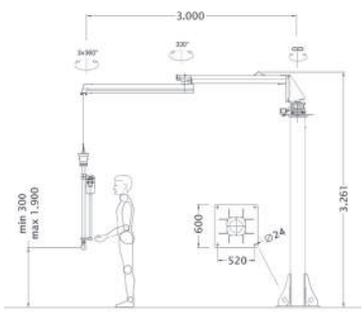
ITEM: M5010

Double cable pneumatic manipulators with zero gravity balancing system.

Features:
- Sensitive grip
- Brakes on all rotation axes
- Continuous rotation on the column axis
- Applied load regulation system

Advantages:
- Automatic pneumatic balancing, no adjustment required
- Precise effortless positioning
- Safe to use due to the double cable
- Clean operation, non-lubricated

Composition:
- Support column
- Load hook
- Use and maintenance manual





Tech. Code	Model	Capacity kg	Arm extension mm	Range mm	Total height mm	Arm height mm	Column base mm	Column diam. mm	Weight kg
M50100553000	MP 55/3000	55	3000	100 - 1700	2700	2400	600 x 600	200 x 200	130
M50100803000	MP 80/3000	80	3000	100 - 1700	2700	2400	600 x 600	200 x 200	145
M50101303000	MP 130/3000	130	3000	100 - 1700	2700	2400	600 x 600	200 x 200	170

PNEUMATIC MANIPULATORS WITH RIGID ARMS

B·HANDLING

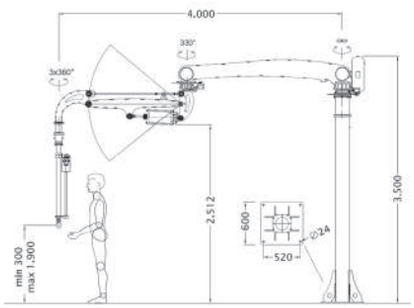
ITEM: M5020

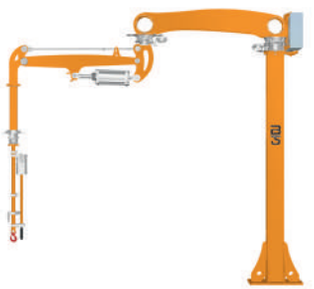
Pneumatic manipulators with rigid arms and zero gravity balancing system.

Features:
- Ergonomic control panel
- Brakes on all rotation axes
- Continuous rotation on the column axis
- Applied load regulation system

Advantages:
- Automatic pneumatic balancing, no adjustment required
- Precise effortless positioning
- Pneumatic arms that follow the operator's movements
- Clean operation, non-lubricated

Composition:
- Support column
- Load hook
- Use and maintenance manual





Tech. Code	Model	Capacity kg	Arm extension mm	Range mm	Total height mm	Arm height mm	Column base mm	Column diam. mm	Weight kg
M50200803000	MP 80/3000	80	3000	200 - 1800	3500	2500	600 x 600	200 x 200	230
M50200804000	MP 80/4000	80	4000	200 - 1800	3500	2500	600 x 600	200 x 200	280
M50201603000	MP 160/3000	160	3000	200 - 1800	3500	2500	600 x 600	200 x 200	250
M50201604000	MP 160/4000	160	4000	200 - 1800	3500	2500	600 x 600	200 x 200	295
M50202403000	MP 240/3000	240	3000	200 - 1800	3500	2500	600 x 600	200 x 200	290
M50202404000	MP 240/4000	240	4000	200 - 1800	3500	2500	600 x 600	200 x 200	330

MANUAL CHAIN HOISTS

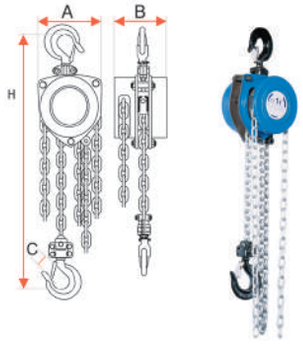
ITEM: M6010

Manual chain hoists.

Features:
- Strong, sturdy device
- Swivel hook with safety block catch
- Automatic brake with double ratchet

Advantages:
- Extra light

Supplied with:
- Instruction manual for use and maintenance



Tech. Code		M6010250	M6010500	M60101000	M60101500	M60102000	M60103000
Load capacity	kg	250	500	1.000	1.500	2.000	3.000
Hook run	m	3	3	3	3	3	3
Load chain falls		1	1	1	1	1	1
Control chain lenght	m	3	3	3	3	2	2
H	mm	230	340	390	470	530	600
A	mm	100	132	156	196	156	178
B	mm	100	112	134	150	134	154
C	mm	18	23	27	31	35	39
Weight	kg	3.5	9.0	12.0	19.0	18.0	24,2

BUCKETS FOR MANUAL CHAIN HOISTS

ITEM: M6015

Chain hoist boxes in cloth



Tech. Code		M6015A1
Referred to hoist	kg	500 - 1000
Chain capacity	m	from 3 up to 10

TROLLEYS FOR MANUAL CHAIN HOISTS

ITEM: M6020

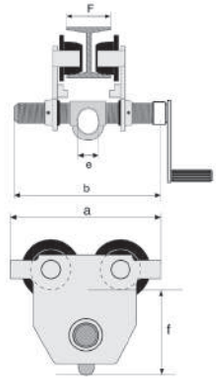
Manual hoist trolleys for beams

Features:
- For manual hoists with hook suspension
- Steel ball bearing wheels
- Shock-proof anti- derailment and anti-tilt device

Advantages:
- Minimum height loss
- Easily adaptable to different beams

Supplied with:
- Instruction manual for use and maintenance





Tech. Code		M6020250	M6020500	M60201000	M60202000
Load capacity	kg	250	500	1.000	1.500 - 2.000
F	mm	45 - 145	50 - 220	58 - 220	66 - 220
Bending radius	mm	700	900	1000	1200
a	mm	175	225	252	300
b	mm	220	324	334	342
e	mm	22	25	30	40
f	mm	78	88	103	127
Weight	kg	3.5	8.5	10.5	18

ELECTRONIC DYNAMOMETERS

ITEM: M7210

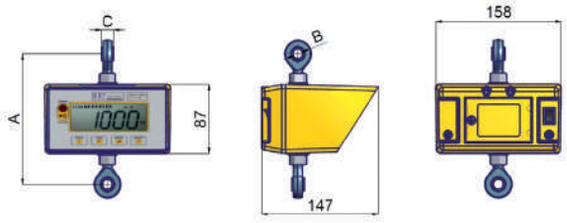
Digital electronic dynamometers, designed for weighing overhead loads - light series.

Features:
- Stainless steel load cells with ABS electronic casing
- 5 number digital weight display
- Infrared on/reset remote control
- Maximum Safety load: 200% of its nominal capacity
- Safety braking: >5
- Protection: IP65
- Operating temperature: -5°C +55°C
- Measuring accuracy: ± 0,1% referred to nominal capacity

Advantages:
- Tare reset and weight calibration from keyboard
- Selectable digital filters for weight stabilization
- Automatic shut-off from keyboard
- Peak storing and weight monitorization functions
- Measurement units selectable from keyboard (Kg - N - kN - lb)
- Power supply: three batteries 1,5 V

Supplied complete with:
- Instruction manual for use and maintenance
- Uniball suspension
- Plastic casing





Tech. Code	Load capacity kg	Resolution step kg	A mm	B mm	C mm	Weight kg
M72100050	50	0,02	158	12	16	1,30
M72100100	100	0,05	158	12	16	1,30
M72100300	300	0,1	158	12	16	1,30
M72100600	600	0,2	170	16	21	2,30
M72101000	1000	0.50	170	16	21	2,30

ITEM: M7220

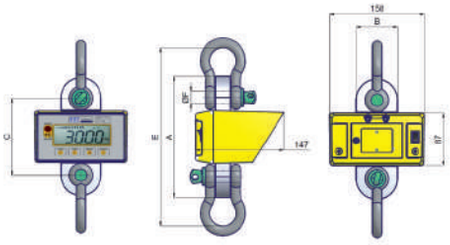
Digital electronic dynamometers designed for weighing overhead loads - heavy series

Features:
- Stainless steel load cells with ABS electronic casing
- 5 number digital weight display
- Infrared on/reset remote control
- Maximum Safety load: 200% of its nominal capacity
- Safety braking: >5
- Protection: IP65
- Operating temperature: -5°C +55°C
- Measuring accuracy: ± 0,1% referred to nominal capacity

Advantages:
- Tare reset and weight calibration from keyboard
- Selectable digital filters for weight stabilization
- Automatic shut-off from key board
- Peak storing and weight monitorization functions
- Measurement units selectable from keyboard (Kg - N - kN - lb)
- Power supply: three batteries 1,5 V

Supplied complete with:
- Instruction manual for use and maintenance
- Shackles suspension
- Plastic casing





Tech. Code	Load capacity kg	Resolution step kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Weight kg
M72203200	3200	1	199	69	130	25	269	20	188	182	86	4.2
M72206300	6300	2	213	69	144	39	348	26	188	182	86	6.5
M722010000	10000	5	265	100	181	50	455	36	188	182	86	9.6

* For 1000 Kg capacity suspension shackles (not included)

IMPORTANT NOTE
Dynamometers with lower capacity listed at page D.85

ELECTRONIC DYNAMOMETERS

ITEM: M7230

Extremely solid crane scales intended for heavy industrial use thanks to the very sturdy structure.
Compact and resistant structure, equipped with a special protection against dust and splashes of water according to the IP67 standard.
Easy to read display even in unfavorable lighting conditions.
Thanks to the Hold function it is possible to "freeze" the weight detected until the HOLD key is pressed.
Automatic passage to the upper weighing/division range.
Rechargeable battery pack internal, operating time approx. 70h without backlight.
Equipment:
Remote controller
12V Type 23 battery



Tech. Code	Capacity kg	Divisioin g	Weight kg
M72301500	300 - 600 - 1500	100 - 200 - 500	9
M72303000	600 - 1500 - 3000	200 - 500 - 1000	10
M72306000	1500 - 3000 - 6000	500 - 1000 - 2000	15

REMOTE READING DYNAMOMETERS FOR CRANES

ITEM: M7225

Compact crane scale for use in harsh environments or where space is limited, with a convenient hand-held terminal.

With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety).
With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
Its compact design also makes ideally suited for installation in systems where space is limited etc. Peak load display (peak hold).
Hold function: when the weight has stabilized, the weight indicated on the display is automatically "frozen" until the HOLD key is pressed
Tare: Resets the display to zero when there is a load on the scale. Loads that are removed or added are then displayed directly. Display device with integrated radio module, with convenient hand strap, which the user can take with him. This allows the user to read off the weighing data, even when he/she is a long way from the load detector (force gauge) or in poor lighting conditions. Included. Range up to 100 m. All functions can be selected.
LCD display, digit height 23 mm, standard internal rechargeable battery pack. Operating time up to 80 h without backlight, charging time approx. 12 h.

Housing dimensions (display device) W×D×H 88×64×256 mm.

Material and design of housing/load support, models with [Max] ≤ 3 t: aluminium/stainless steel bearing [Max] > 3 t: steel/steel



Tech. Code	Capacity kg	Division g	Weight kg
M722501000	1000	500	1.8
M722503000	3000	1000	2.2
M722505000	5000	2000	4
M722510000	10000	5000	6

ROUND LIFTING SLINGS

CE

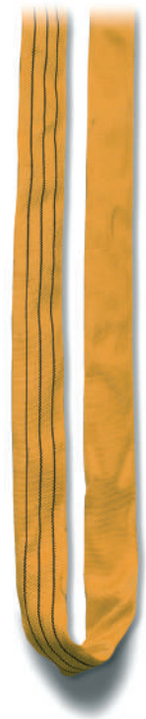
ITEM: M7310

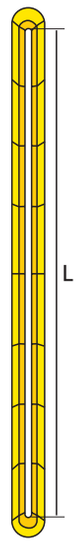
Polyester ring lifting ropes.

Features:
- High-tenacity hank structure sheathed in a polyester sock
- Maximum elongation 7% fully recovered at rest
- Coloured as per table according to current standards
-Temperature conditions must be those of normal use

Advantages:
- Excellent elastic properties

Lifting arms can be used at temperatures ranging from -40°C to +100°C (PES and PA) or -40°C to +80°C (PP)





SAFETY FACTOR 7:1			LOAD CAPACITY kg						
Tech. Code	Colour	L m	DIRECT PULL	LOOP TYPE	PARALLEL BASKET	DOUBLE ß ≤ 45°	DOUBLE ß ≤ 60°	SINGLE ß ≤ 45°	SINGLE ß ≤ 60°
M73101000X1	PURPLE	1.0	1000	800	2000	1400	1000	700	500
M73101000X1,5		1.5	1000	800	2000	1400	1000	700	500
M73101000X2		2.0	1000	800	2000	1400	1000	700	500
M73101000X2,5		2.5	1000	800	2000	1400	1000	700	500
M73101000X3		3.0	1000	800	2000	1400	1000	700	500
M73101000X5		5.0	1000	800	2000	1400	1000	700	500
M73102000X1	GREEN	1.0	2000	1600	4000	2800	2000	1400	1000
M73102000X1,5		1.5	2000	1600	4000	2800	2000	1400	1000
M73102000X2		2.0	2000	1600	4000	2800	2000	1400	1000
M73102000X2,5		2.5	2000	1600	4000	2800	2000	1400	1000
M73102000X3		3.0	2000	1600	4000	2800	2000	1400	1000
M73102000X4		4.0	2000	1600	4000	2800	2000	1400	1000
M73102000X5		5.0	2000	1600	4000	2800	2000	1400	1000
M73103000X1	YELLOW	1.0	3000	2400	6000	4200	3000	2100	1500
M73103000X1,5		1.5	3000	2400	6000	4200	3000	2100	1500
M73103000X2		2.0	3000	2400	6000	4200	3000	2100	1500
M73103000X2,5		2.5	3000	2400	6000	4200	3000	2100	1500
M73103000X3		3.0	3000	2400	6000	4200	3000	2100	1500
M73103000X4		4.0	3000	2400	6000	4200	3000	2100	1500
M73103000X5		5.0	3000	2400	6000	4200	3000	2100	1500
M73103000X6		6.0	3000	2400	6000	4200	3000	2100	1500
M73104000X1	GREY	1.0	4000	3200	8000	5600	4000	2800	2000
M73104000X1,5		1,5	4000	3200	8000	5600	4000	2800	2000
M73104000X2		2.0	4000	3200	8000	5600	4000	2800	2000
M73104000X3		3,0	4000	3200	8000	5600	4000	2800	2000
M73104000X4		4.0	4000	3200	8000	5600	4000	2800	2000
M73104000X6		6.0	4000	3200	8000	5600	4000	2800	2000
M73105000X1	RED	1,0	5000	4000	10,000	7000	5000	3500	2500
M73105000X1,5		1.5	5000	4000	10,000	7000	5000	3500	2500
M73105000X2		2,0	5000	4000	10,000	7000	5000	3500	2500
M73105000X2,5		2.5	5000	4000	10,000	7000	5000	3500	2500
M73105000X3		3,0	5000	4000	10,000	7000	5000	3500	2500
M73105000X4		4,0	5000	4000	10,000	7000	5000	3500	2500
M73105000X5		5,0	5000	4000	10,000	7000	5000	3500	2500
M73105000X6		6,0	5000	4000	10,000	7000	5000	3500	2500
M73106000X1	BROWN	1,0	6000	4600	12,000	8400	6000	4200	3000
M73106000X2		2,0	6000	4600	12,000	8400	6000	4200	3000
M73106000X4		4,0	6000	4600	12,000	8400	6000	4200	3000
M73106000X5		5,0	6000	4600	12,000	8400	6000	4200	3000
M73106000X6		6,0	6000	4600	12,000	8400	6000	4200	3000
M73108000X1	BLUE	1,0	8000	6400	16,000	11,200	8000	4900	4000
M73108000X2		2,0	8000	6400	16,000	11,200	8000	4900	4000
M73108000X4		4,0	8000	6400	16,000	11,200	8000	4900	4000
M73108000X5		5,0	8000	6400	16,000	11,200	8000	4900	4000
M73108000X6		6,0	8000	6400	16,000	11,200	8000	4900	4000
M731010000X1	ORANGE	1,0	10,000	8000	20,000	14,000	10,000	5600	5000
M731010000X2		2,0	10,000	8000	20,000	14,000	10,000	5600	5000
M731010000X3		3,0	10,000	8000	20,000	14,000	10,000	5600	5000
M731010000X4		4,0	10,000	8000	20,000	14,000	10,000	5600	5000
M731010000X5		5,0	10,000	8000	20,000	14,000	10,000	5600	5000
M731010000X6		6,0	10,000	8000	20,000	14,000	10,000	5600	5000

The direct pull lifting capacity can be easily identified: 1000 kg per black longitudinal line

WEB LIFTING SLINGS

CE

ITEM: M7320

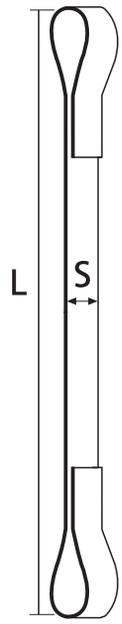
Polyester lifting straps.

Features:
- High-tenacity polyester hank, with soft loops with fabric protection
- Maximum elongation 7% fully recovered at rest
- Coloured as per table according to current standards
-Temperature conditions must be those of normal use

Advantages
- Excellent elastic properties

Lifting arms can be used at temperatures ranging from -40°C to +100°C (PES and PA) or -40°C to +80°C (PP)





SAFETY FACTOR 7:1				LOAD CAPACITY kg				
Tech. Code	Colour	S mm	L m	DIRECT PULL	LOOP TYPE	PARALLEL BASKET	BASKET ß ≤ 45°	BASKET ß ≤ 60°
M73201000X1	PURPLE	50	1.0	1000	800	2000	1400	1000
M73201000X1,5		50	1.5	1000	800	2000	1400	1000
M73201000X2		50	2.0	1000	800	2000	1400	1000
M73201000X2,5		50	2.5	1000	800	2000	1400	1000
M73201000X3		50	3.0	1000	800	2000	1400	1000
M73201000X4		50	4.0	1000	800	2000	1400	1000
M73201000X5		50	5.0	1000	800	2000	1400	1000
M73201000X6		50	6.0	1000	800	2000	1400	1000
M73202000X1	GREEN	60	1.0	2000	1600	4000	2800	2000
M73202000X1,5		60	1.5	2000	1600	4000	2800	2000
M73202000X2		60	2.0	2000	1600	4000	2800	2000
M73202000X2,5		60	2.5	2000	1600	4000	2800	2000
M73202000X3		60	3.0	2000	1600	4000	2800	2000
M73202000X4		60	4.0	2000	1600	4000	2800	2000
M73202000X5		60	5.0	2000	1600	4000	2800	2000
M73202000X6		60	6.0	2000	1600	4000	2800	2000
M73203000X1	YELLOW	90	1.0	3000	2400	6000	4200	3000
M73203000X1,5		90	1.5	3000	2400	6000	4200	3000
M73203000X2		90	2.0	3000	2400	6000	4200	3000
M73203000X2,5		90	2.5	3000	2400	6000	4200	3000
M73203000X3		90	3.0	3000	2400	6000	4200	3000
M73203000X4		90	4.0	3000	2400	6000	4200	3000
M73203000X5		90	5.0	3000	2400	6000	4200	3000
M73203000X6		90	6.0	3000	2400	6000	4200	3000
M73203000X8		90	8.0	3000	2400	6000	4200	3000
M73204000X2	GREY	120	2.0	4000	3200	8000	5600	4000
M73204000X4		120	4.0	4000	3200	8000	5600	4000
M73204000X5		120	5.0	4000	3200	8000	5600	4000
M73204000X6		120	6.0	4000	3200	8000	5600	4000
M73204000X8		120	8.0	4000	3200	8000	5600	4000
M73205000X2	RED	150	2.0	5000	4000	10000	7000	5000
M73205000X3		150	3.0	5000	4000	10000	7000	5000
M73205000X6		150	6.0	5000	4000	10000	7000	5000
M73205000X8		150	8.0	5000	4000	10000	7000	5000
M73206000X2	BROWN	180	2.0	6000	4800	12000	8400	6000
M73206000X3		180	3.0	6000	4800	12000	8400	6000
M73206000X4		180	4.0	6000	4800	12000	8400	6000
M73206000X5		180	5.0	6000	4800	12000	8400	6000
M73206000X6		180	6.0	6000	4800	12000	8400	6000
M73206000X8		180	8.0	6000	4800	12000	8400	6000
M73208000X4	BLUE	240	4.0	8000	6400	16000	11200	8000
M73208000X5		240	5.0	8000	6400	16000	11200	8000
M73208000X6		240	6.0	8000	6400	16000	11200	8000
M73208000X8		240	8.0	8000	6400	16000	11200	8000
M732010000X4	ORANGE	300	4.0	10000	8000	20000	14000	10000
M732010000X5		300	5.0	10000	8000	20000	14000	10000
M732010000X6		300	6.0	10000	8000	20000	14000	10000
M732010000X8		300	8.0	10000	8000	20000	14000	10000

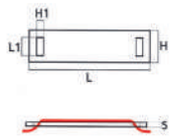
The direct pull lifting capacity can be easily identified. 1000 kg per 30 mm of belt width or each longitudinal black line.

PROTECTIVE SLEEVING FOR LIFTING SLINGS

ITEM: M7325

Protective sleeving in polyurethane for lifing slings.
Suitable to protect only one side of the strap from sharp edges, corners and several types of roughness.

Tech. Code	Tape capacity Kg	L mm	H mm	L1 mm	H1 mm	S mm
M73252000	2000	450	100	60	30	4



LADDER LOCK CLOSURE STRAPS

ITEM: M7330

Straps in polyester with locking buckle.
Suitable for holding tightly together in a practical and safe way various objects and structures.
To be used only for anchoring needs.
Safety factor 2:1

Tech. Code	Tape width mm	Tape length m	Anchoring capacity daN
M73303	25	2,5	250



LADDER LOCK CLOSURE STRAPS

ITEM: M7335

Straps in polyester with locking buckle.
Suitable for holding tightly together in a practicl and safe way various objects and structures.
To be used only for anchoring needs
Safety factor 2:1

Tech. Code	Tape width mm	Tape length m	Anchoring capacity daN
M73354	35	4	200

Sales packaging minimum 2 pieces.



RATCHET TENSIONER STRAPS

ITEM: M7350

Polyester straps with ratchet tensioner.
Suitable for holding tightly together in a practical and safe way various objects and structures.
To be used only for anchoring needs.
Safety factor 2:1

Tech. Code	Tape width mm	Tape length m	Anchoring capacity daN
M73505	25	5	800



RATCHET TENSIONER STRAPS

ITEM: M7355

Polyester straps with ratchet tensioner.
Suitable for holding tightly together in a practical and safe way various objects and structures.
To be used only for anchoring needs.
Safety factor 2:1

Tech. Code	Tape width mm	Tape length m	Anchoring capacity daN
M73558,5	50	8.0	4000



RATCHET TENSIONER, HOOK-ENDED STRAPS

ITEM: M7360

Polyester straps with ratchet tensioner, hook ended.
Suitable for holding tightly together in a practical and safe way various objects and structures.
To be used only for anchoring needs.
Safety factor 2:1

Tech. Code	Tape width mm	Length before and after ratchet m	Anchoring capacity daN
M73604,5	25	4,5 + 0,5	1000



RATCHET TENSIONER, HOOK-ENDED STRAPS

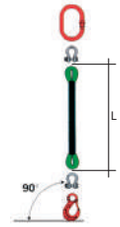
ITEM: M7365

Polyester straps with ratchet tensioner, hook ended.
Suitable for holding tightly together in a practical and safe way various objects and structures.
To be used only for anchoring needs.
Safety factor 2:1

Tech. Code	Tape width mm	Length before and after ratchet m	Anchoring capacity daN
M73658	50	8,5 + 0,5	1500



ITEM: M7410



Single rope pendant.

Features:
- High-tenacity hank polyester rope sheathed in a polyester sock
- Maximum elongation 7% fully recovered at rest
- Rope safety factor 7:1
- Safety factor metal components 4:1
-Temperature conditions must be those of normal use

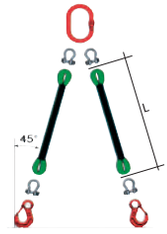
Advantages:
- Excellent elastic properties

Lifting slings can be used at temperatures ranging from -40°C to +100°C (PES and PA) or -40°C to +80°C (PP)

Scope of delivery:
- Complete with bell, shackles and load hooks

Tech. Code	Colour	L m	Load capacity kg 90°
M74101000X0,5	VIOLA	0.5	1.000
M74101000X1	VIOLA	1.0	1.000
M74102000X1	VERDE	1.0	2.000
M74102000X1,5	VERDE	1.5	2.000
M74102000X2	VERDE	2.0	2.000
M74103000X1	YELLOW	1.0	3.000
M74103000X1,5	YELLOW	1.5	3.000

ITEM: M7415



Two-arm rope pendant.

Features:
- High-tenacity hank polyester rope sheathed in a polyester sock
- Maximum elongation 7% fully recovered at rest
- Rope safety factor 7:1
- Safety factor metal components 4:1
-Temperature conditions must be those of normal use

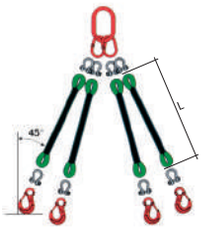
Lifting slings can be used at temperatures ranging from -40°C to +100°C (PES and PA) or -40°C to +80°C (PP)

Advantages:
- Very good elastic properties.

Equipment:
- Complete with bell, shackles and load hooks

Tech. Code	Colour	L m	Load capacity Kg
M74151400X0,5	VIOLA	0.5	1.400
M74151400X1	VIOLA	1.0	1.400
M74152800X0,5	VERDE	0.5	2.800
M74152800X1	VERDE	1.0	2.800
M74152800X2	VERDE	2.0	2.800
M74154200X0,5	YELLOW	0.5	3.800
M74154200X1	YELLOW	1.0	3.800
M74154200X1,5	YELLOW	1.5	3.800
M74154200X2	YELLOW	2.0	3.800

QUADRUPLE LIFTING SLINGS



ITEM: M7420

Four-arm rope pendant.

Features:
- High-tenacity hank polyester rope sheathed in a polyester sock
- Maximum elongation 7% fully recovered at rest
- Rope safety factor 7:1
- Safety factor metal components 4:1
-Temperature conditions must be those of normal use

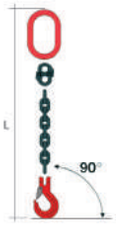
Advantages:
- Excellent elastic properties

Lifting slings can be used at temperatures ranging from -40°C to +100°C (PES and PA) or -40°C to +80°C (PP)

Scope of delivery:
- Complete with bell, shackles and load hooks

Tech. Code	Colour	L m	Load capacity Kg 90°
M74202100X1	VIOLA	1.0	2.100
M74204200X1	VERDE	1.0	4.200
M74204200X1,5	VERDE	1.5	4.200
M74206300X1	YELLOW	1.0	6.300
M74206300X1,5	YELLOW	1.5	6.300
M74206300X2	YELLOW	2.0	6.300

LIFTING CHAIN SLINGS



ITEM: M7440

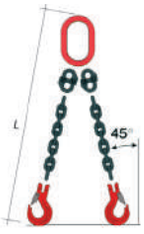
Single lifting chain sling.

Features:
- Chain, master link, hammerlock and hook in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hook

Tech. Code	Chain Ø mm	L m	Capacity kg 90°
M74401120X0,5	6	0.5	1,000
M74401120X1	6	1.0	1,000
M74402000X0,5	8	0.5	2,000
M74402000X1	8	1.0	2,000
M74403150X1	10	1.0	3,100

Also available in grade 60 stainless steel.



ITEM: M7445

Lifting chain slings with two arms.

Features:
- Chain, master link, hammerlock and hook in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hooks

Tech. Code	Chain Ø mm	L m	Capacity kg 90°
M74451600X0,5	6	0.5	1,400
M74451600X1	6	1.0	1,400
M74451600X1,5	6	1.5	1,400
M74452800X0,5	8	0.5	2,800
M74452800X1	8	1.0	2,800
M74452800X1,5	8	1.5	2,800
M74452800X2	8	2.0	2,800
M74454250X1	10	1.0	4,300
M74454250X1,5	10	1.5	4,300
M74454250X2	10	2.0	4,300
M74457500X1	13	1.0	7,000
M74457500X2	13	2.0	7,000

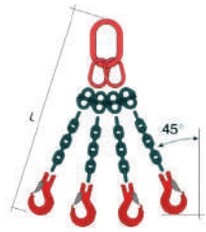
Also available in grade 60 stainless steel.

LIFTING CHAIN SLINGS

STROPS

ITEM: M7450

Lifting chain slings with four arms.



Features:
- Chain, master link, hammerlock and hook in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hooks

Tech. Code	Chain Ø mm	L m	Capacity kg
M74502360X1	6	1.0	2,100
M74502360X1,5	6	1.5	2,100
M74504250X1	8	1.0	4,200
M74504250X1,5	8	1.5	4,200
M745011200X1	13	1.0	11,000
M745011200X2	13	2.0	11,000

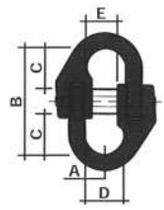
Also available in grade 60 stainless steel.

HAMMERLOCKS FOR LIFTING CHAIN SLINGS

STROPS

ITEM: M7460

Grade 80 alloy steel hammerlocks for lifting chain slings.
Safety factor 4:1.



Tech. Code	Capacity kg	A mm	B mm	C mm	D mm	E mm
M74601000	1000	6.8	43	18	16	16
M74602000	2000	9	70	26	25	22.7
M74603000	3000	11	77	32	27	25
M74605000	5000	15.5	85	35	32	30

Also available in grade 60 stainless steel.

Related products

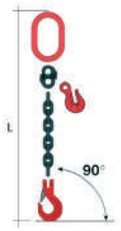
SAFETY SHOES

Tech. Code	EU Size	UK Size
K181243	43	9
K181244	44	10
K181245	45	10 1/2
K181246	46	11



Product available in chapter K

LIFTING CHAIN SLINGS WITH SHORTENING GRAB HOOKS



ITEM: M7452

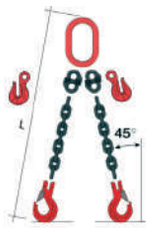
Lifting chain slings with shortening grab hooks.

Features:
- Chain, master link, hammerlock, hook and shortening hooks in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hook

Tech. Code	Chain Ø mm	L m	Capacity kg
M74521120X1	6	1.0	1,000

Also available in grade 60 stainless steel.



ITEM: M7455

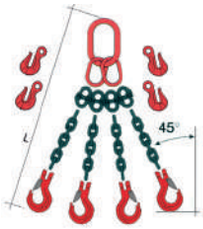
Lifting chain slings with two arms and shortening grab hooks.

Features:
- Chain, master link, hammerlock, hook and shortening hooks in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hooks

Tech. Code	Chain Ø mm	L m	Capacity kg
M74551600X0,5	6	0.5	1,400
M74551600X1	6	1.0	1,400
M74551600X1,5	6	1.5	1,400
M74552800X1	8	1.0	2,800
M74552800X1,5	8	1.5	2,800
M74552800X2	8	2.0	2,800
M74554250X2	10	2.0	4,300
M74557500X2	13	2.0	7,000

Also available in grade 60 stainless steel.



ITEM: M7458

Lifting chain sling with four arms and shortening grab hooks.

Features:
- Chain, master link, hammerlock, hook and shortening hooks in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hooks

Tech. Code	Chain Ø mm	L m	Capacity kg
M74582360X1	6	1.0	2,100
M74582360X1,5	6	1.5	2,100
M74584250X1,5	8	1.5	4,200

Also available in grade 60 stainless steel.

ITEM: M7020

Lifting clamps for handling sheet metal.

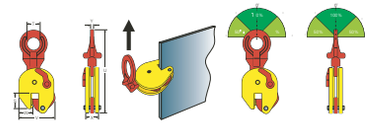
Features:
- Joint lifting arm with articulation
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical ifting and transport of sheet metal and steel structures in all horizontal, vertical and lateral postitions

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance



Tech. Code		M7020750	M70201000	M70202000	M70203000
Model		0.75 TSU	1 TSEU	2 TSEU	3 TSEU
Load capacity	kg	750	1.000	2,000	3,000
Opening	mm	0 - 13	0 - 25	0 - 35	0 - 35
S	mm	47	56	78	78
T	mm	30	50	70	70
U	mm	203	292	372	372
V	mm	100	141	183	183
W	mm	37	37	56	56
X	mm	37	47	56	56
Y	mm	10	15	16	16
Weight	kg	1.7	3,8	7.3	7.5



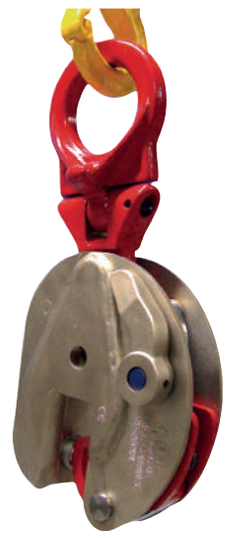
ITEM: M7022

Lifting clamps in stainless steel for handling metal sheets

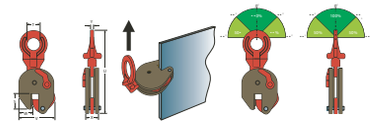
Features
- Joint lifting arm with articulation
- Components made of stainless steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum capacitiy
- Suitable for vertical lifting and transport of sheet metal and steel structures in corrosive environments

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance



Tech. Code		M70220750	M70221000	M70222000	M70223000	M70224500
Model		0.75 TSU-R	1 TSEU-R	2 TSEU-R	3 TSEU-R	4.5 TSEU-R
Load capacity	kg	750	1.000	2.000	3.000	4.500
Opening	mm	0 - 13	0 - 25	0 - 35	0 - 35	0 - 45
S	mm	47	56	78	78	85
T	mm	30	50	70	70	70
U	mm	203	292	372	372	431
V	mm	100	141	183	183	228
W	mm	37	37	56	56	60
X	mm	37	47	56	56	78
Y	mm	10	15	16	16	20
Weight	kg	1,8	3,8	8	8	16,5



ITEM: M7010

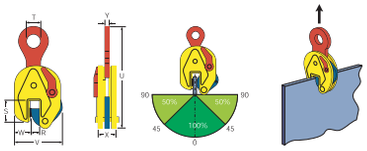
Lifting clamps for handling sheet metal.

Features:
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport of sheet metal and steel structures

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance





Tech. Code		M7010750	M70101000	M70102000	M70104500
Model		0.75 TS	1 TSE	2 TSE	4.5 TSE
Load capacity	kg	750	1,000	2,000	4,500
R opening	mm	0 - 13	0 - 25	0 - 35	0 - 45
S	mm	47	56	78	85
T	mm	30	45	64	70
U	mm	202	263	336	425
V	mm	100	141	183	228
W	mm	37	37	56	60
X	mm	37	47	56	78
Y	mm	10	15	16	20
Weight	kg	1.5	3.6	6.5	15.9

ITEM: M7015

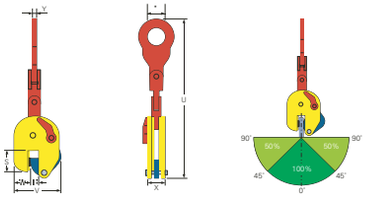
Lifting clamps for handling metal sheets.

Features:
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport of sheet metal and steel structures in three different ways of handling/lifting

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance





Tech. Code		M7015750	M70151000	M70152000
Model		0.75 TSMP	1 TSEMP	2 TSEMP
Load capacity	kg	750	1,000	2,000
R opening	mm	0 - 13	0 - 25	0 - 35
S	mm	47	56	78
T	mm	30	45	64
U	mm	307	403	516
V	mm	100	141	183
W	mm	37	37	56
X	mm	37	47	56
Y	mm	10	15	16
Weight	kg	2	4.5	7.7

HORIZONTAL LIFTING CLAMPS SETS OF PAIRS

ITEM: M7045



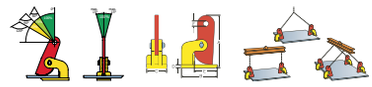
Lifting clamps in pairs for the handling of flat surfaces.

Features:
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Suitable for horizontal lifting and transport of sheet metal

Advantages:
- The clamp is blocked in close and open positions
- More pairs of clamps can be used

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M7045100035	M7045200060	M70452000100	M70453000100
Model		1 FH-X	2 FH-X	2 FHS-X	3 FHS-X
Pair capacity	kg	2 x 500	2 x 1.000	2 x 1.000	2 x 1.500
Opening	mm	0 - 35	0 - 60	0 - 100	0 - 100
A	mm	188	287	383	387
B	mm	140	180	180	180
C	mm	65	90	90	90
D	mm	10	15	15	20
E	mm	99	118	120	120
F	mm	25	30.5	30.5	30.5
Weight	kg/pcs	2.6	7	9,2	10



ITEM: M7047



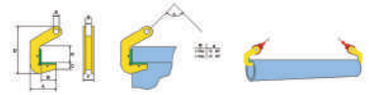
Lifting clamps in pairs for the handling of steel pipes.

Features:
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Suitable for horizontal and transport of steel pipes

Advantages:
- The clamp is blocked in close and open positions
- More pairs of clamps can be used

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M70471500	M70473000	M70474000
Model		1.5 TPH	3 TPH	4 TPH
Pair capacity	kg	2 x 750	2 x 1.500	2 x 2.000
Opening R	mm	40	40	50
A	mm	120	120	140
B	mm	70	70	70
C	mm	50	50	58
D	mm	185	185	204
E	mm	16	16	26
F	mm	41	41	41
G	mm	25	25	25
Weight	kg/pcs	2	2	3



ITEM: M7025



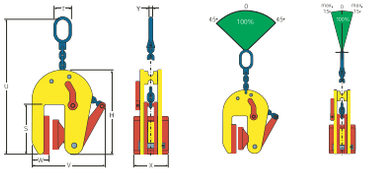
Lifting clamps for vertical handling of sheet metal with damageable surfaces.

Features:
- Pads in plastic material to secure the integrity of the gripped surfaces
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Suitable for vertical lifting and transport of all those types of materials at risk of damage: steel, aluminium, plastic, wood and marble

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M7025500	M70251000
Model		0.5 TNMK	1 TNMK
Load capacity	kg	500	1,000
Opening	mm	0 - 20	0 - 30
H	mm	205	232
T	mm	40	40
S	mm	102	105
U	mm	462	470
V	mm	224	282
W	mm	48	46
X	mm	80	80
Y	mm	14	14
Weight	kg	6	6,5



ITEM: M7028



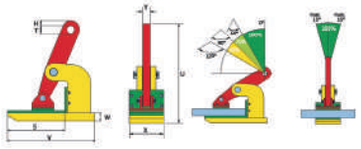
Lifting clamps with protective pads for the horizontal handling of sheet metals with delicate surfaces.

Features:
- Plastic gripping pads to protect the surfaces
- Body and components made of high quality steel
- Lifting thickness and capacity marked on the body
- Suitable for horizontal lifting and handling all materials with delicate surfaces such as stainless steel, aluminium, plastic, wood and marble

Advantages:
- Safety mechanism that prevents the load from being released during lifting and handling

Supplied with:
- Use and maintenance manual

Tech. Code		M70281000	M70282000
Model		1 TNMH	2 TNMH
Pair capacity	kg	2 x 500	2 x 1,000
Opening	mm	0 - 25	0 - 45
H	mm	10	15
T	mm	20	30.5
S	mm	94	151
U	mm	155	267
V	mm	140	225
W	mm	15	23
X	mm	65	90
Y	mm	15	15
Weight	kg/pcs	2.4	7.5



ITEM: M7040

Lifting clamps for handling of pipes, tubes and solid round materials.

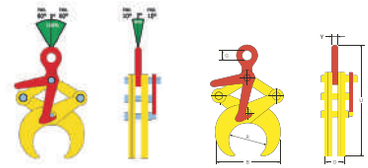


Features:
- Body and components made of high quality steel
- Closing lever with an automatic opening when the load is deposited
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Suitable for horizontal lifting and transport of individual pipes, in bundles and round structures

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M7040500	M70401000	M70402000
Model		0.5 TTL	1 TTL	2 TTL
Load capacity	kg	500	1,000	2,000
R opening	mm	48.3 - 114.3	114.3 - 219.1	219.1 - 368
B max	mm	207	345	610
U max	mm	400	615	955
Y	mm	15	15	16
D	mm	47	47	56
G	mm	45	45	64
Weight	kg	4,5	9	31



ITEM: M7042

Lifting clamps for handling parts with parallel surfaces.

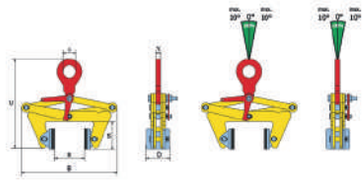


Features:
- Body and components made of high quality steel
- Closing lever with an automatic opening when the load is deposited
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Suitable for horizontal lifting and transport of square tubes and structures with parallel surfaces
- Plastic grip pads to protect the integrity of the gripped surface

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M70422000	M70423000
Model		2 TBLC	3 TBLC
Load capacity	kg	2.000	3.000
R opening	mm	220 - 360	350 - 500
B max	mm	675	835
U max	mm	735	900
Y	mm	15	16
D	mm	80	100
G	mm	45	64
Weight	kg	18	33



ITEM: M7030

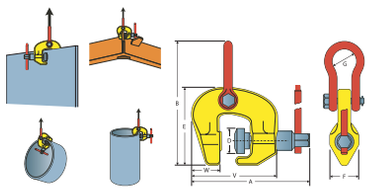


Lifting clamps for handling sheet metal profiles of various sizes.

Features:
- Body and components made of high quality steel
- Threaded pin with oscillating terminal
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum flow rate
- Suitable for vertical lifting and transport of sheet metal and steel structures

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M7030500	M70301500	M70303000
Model		0.5 TSCC	1.5 TSCC	3 TSCC
Load capacity	kg	500	1.500	3.000
Opening	mm	0 - 35	0 - 40	0 - 60
A	mm	158	220	280
B	mm	211	232	278
W	mm	26	40	46
V	mm	108	150	190
D	mm	27.5	42	50
E	mm	82	140	184
F	mm	0.8	46	60
G	mm	25	46	50
Weight	kg	1	3.5	7.8



ITEM: M7035

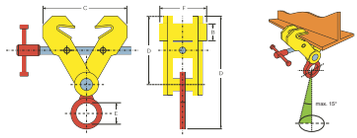


Lifting clamps for handling profiled bars.

Features:
- Body and components made of high quality steel
- Symmetrical jaws concentric closure
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport of profiled bars, IPE, INP, HEA and metal structures

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M70351000	M70353000
Model		1 FSV	3 FSV
Load capacity	kg	1.000	3.000
Opening	mm	75 - 190	75 - 190
B	mm	30	30
C-max	mm	357	357
D-max	mm	345	345
E	mm	73.5	73.5
F	mm	120	120
Weight	Kg	5	5



ITEM: M7050

Drum lifting clamps for transportation of the drums.

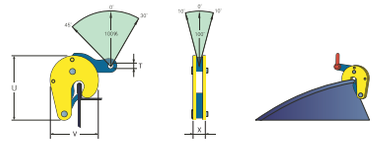
Features:
- Body and components made of high quality steel
- The extent, thickness of the lifting capacity and the jaw opening is engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport in complete safety of even full drums

Advantages:
- Automatic clamping mechanism

Supplied with:
- Instruction manual for use and maintenance



Tech. Code		M7050500
Model		TVK
Load capacity	kg	500
Opening	mm	0-17
U	mm	121
V	mm	96
X	mm	28
T	mm	12
Weight	kg	1,3

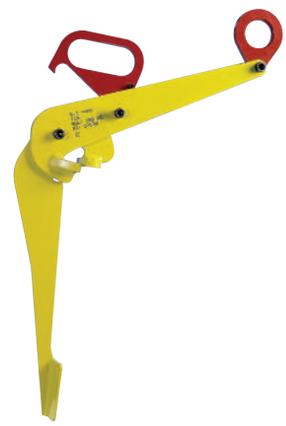


ITEM: M7055

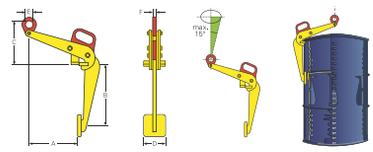
Drum lifting clamps for transportation of the drums.

Features:
- Body and components made of high quality steel
- The extent, thickness of the lifting capacity and the jaw opening is engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport in complete safety of even full drums

Supplied with:
- Instruction manual for use and maintenance



Tech. Code		M7055600
Model		TVKH
Load capacity	kg	600
Opening	mm	0 - 25
A	mm	305
B	mm	434
C-max	mm	331
D	mm	100
E	mm	50
F	mm	10
Weight	kg	7

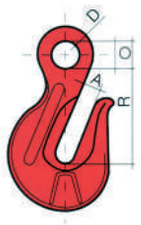


SHORTENING GRAB HOOKS FOR LIFTING CHAIN SLINGS

STROPS

ITEM: M7470

Shortening grab hooks in Grade 80 alloy steel for lifting chain slings.
Suitable for regulating the length of the chain.
Safety factor 4:1



Tech. Code	Chain Ø mm
M74706	6
M74708	7/8
M747010	10
M747013	13

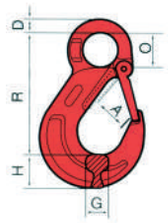
Also available in grade 60 stainless steel.

HOOKS WITH SAFETY LATCH FOR LIFTING LIFTING CHAIN SLINGS

STROPS

ITEM: M7475

Hooks with safety latch in grade 80 alloy steel for lifting chain slings.
Safety factor 4:1.

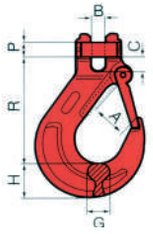


Tech. Code	Capacity kg	A mm	D mm	G mm	H mm	O mm	R mm
M74751000	1000	25	8.5	14.5	20	20.5	80.5
M74752000	2000	25.5	11	19	27	25	95.5
M74753000	3000	30.5	14	23.5	33	34	120.5
M74755000	5000	41	17.5	29	40	42.5	150

Suitable for use with lifting chain slings. Also available in grade 60 stainless steel.

ITEM: M7480

Hooks with safety latch in grade 80 alloy steel for lifting chain slings.
Safety factor 4:1.

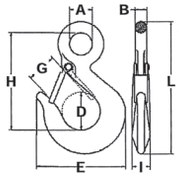


Tech. Code	Capacity kg	A mm	B mm	C mm	G mm	H mm	P mm	R mm
M74801000	1000	24.5	6.7	8.5	14.5	20	7	73
M74802000	2000	25.5	8.7	9.8	19	27	9	86.3
M74803000	3000	30.5	12.2	13.5	23.5	33	13	105
M74805000	5000	41	15.3	17	28.5	40	16	128.5

Suitable for use with lifting chain slings. Also available in grade 60 stainless steel.

ITEM: M7485

Hooks with safety latch in carbon steel for lifting chains.
Safety factor 4:1.





Tech. Code	Capacity kg	A mm	B mm	D mm	E mm	G mm	H mm	I mm	L mm
M74851000	1000	23	12	32	82	23	93	17.5	125
M74852000	2000	30	16	38	105	24	117	22	165
M74853000	3000	38	19	46	125	26.5	145	28.5	204

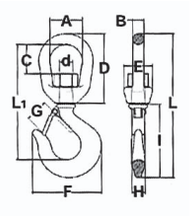
Also available in grade 60 stainless steel.

SWIVEL HOOKS WITH SAFETY LATCH

STROPS

ITEM: M7490

Swivel hooks with safety latch in carbon steel for lifting chains.
Safety factor 4:1.





Tech. Code	Capacity kg	d ø mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	L1 mm
M74901000	1000	M16	39	13	33	81	34	81	17	19	87	170	135
M74901600	1600	M20	44	16	40	99	38	91	21	22	96	200	158
M74902000	2000	M20	44	16	40	99	38	104	23	23	108	210	165
M74903000	3000	M16	48	19	43	117	39	123	34	33	141	222	185
M74905000	5000	M27	66	26	60	150	62	166	50	38	167	320	248

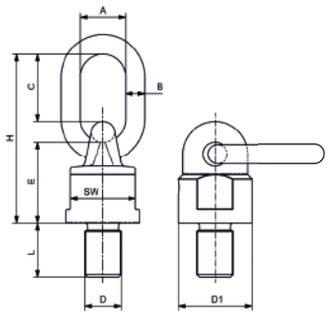
Also available in grade 60 stainless steel.

SWIVEL EYE BOLTS WITH RING

CARCANO | CARTEC

ITEM: M7510

Swivel eye bolts in grade 80 steel with ring adjustable under load. Suitable for lifting and tilting loads fitted with a threaded hole. Safety factor 4 in all load directions. Rotates through 360° with ring that pivots 180°, self-aligning. Tested for 20,000 stress cycles.





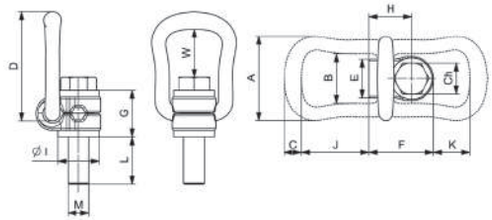
Tech. Code	Size	Capacity kg	A mm	B mm	C mm	E mm	H mm	SW mm	D1 mm	Weight kg
M7510M0816	M8 x 16	300	30	13	46	50	105	30	38	0.48
M7510M1018	M10 x 18	300	30	13	46	50	105	30	38	0.48
M7510M1218	M12 x 18	500	30	13	46	50	105	30	38	0.50
M7510M1620	M16 x 20	1125	30	13	46	50	105	30	38	0.53
M7510M2030	M20 x 30	2000	34	16	57	61	131	40	50	1.05
M7510M2430	M24 x 30	3150	40	18	70	68	153	48	58	1.63
M7510M3035	M30 x 35	5300	45	22	65	80	165	65	75	2.23

BOLT-ON SWIVEL EYE BOLTS

CARCANO | CARTEC

ITEM: M7515

Bolt-on swivel eye bolts for 90° load, in grade 100 steel, takes up minimal space. Anchor point for lifting loads fitted with a threaded hole. Safety factor 4 in all load directions. Can rotate through 360° when not loaded. Suitable for anchor points up to 90°. Tested for 20,000 stress cycles.





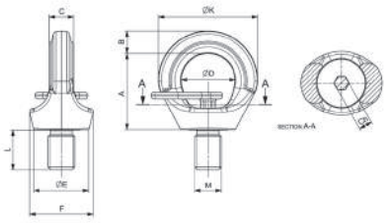
Tech. Code	Size	Capacity kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	W mm	J mm	K mm	CH mm	Weight kg
M7515M08	M8	300	57	34	10	78	24	41	30	26.5	25	15	43	51	35	13	0.275
M7515M10	M10	630	57	34	10	78	24	41	30	26.5	25	15	42	51	35	17	0.29
M7515M12	M12	1000	66	38	13.5	85	30	50	36	33	32	23	40	52	28	19	0.50
M7515M16	M16	1500	66	38	13.5	85	30	50	36	33	32	24	38	52	28	24	0.51
M7515M20	M20	3500	87	55	16	111	48	68	44	42.5	45	31	54	71	36	30	1.25
M7515M24	M24	4000	87	55	16	111	48	68	44	42.5	45	37	51	71	36	36	1.30
M7515M27	M27	4000	109	66	22.5	145	54	91	63	58.5	60	37	64	86	47	41	3.15
M7515M30	M30	5000	109	66	22.5	145	54	91	63	58.5	60	45	62	86	47	46	3.25

SWIVEL EYE BOLTS

CE

ITEM: M7520

Swivel eye bolts in grade 100 steel. Anchor point for lifting loads fitted with a threaded hole. Safety factor 4 in all load directions. Can rotate through 360° when not loaded. Suitable for anchor points up to 90°. Tested for 20,000 stress cycles.





Tech. Code	Size	Capacity kg	A mm	B mm	C mm	D mm	E mm	F mm	K mm	L mm	CH mm	Weight kg
M7520M08	M8	300	33.7	10	9.8	25	25.5	30	46	12	6	0.12
M7520M10	M10	400	33.7	10	9.8	25	25.5	30	46	15	6	0.12
M7520M12	M12	750	41.5	12.5	11.5	30	30.6	36.5	55.5	18	8	0.20
M7520M16	M16	1500	49.5	14.5	15.7	35	36.5	42	64.5	24	10	0.35
M7520M20	M20	2300	58	16	18	40	42	52.5	74.5	30	12	0.60
M7520M24	M24	3200	69	20.5	22	49	50	61	90	36	12	1
M7520M27	M27	3200	69	20.5	22	49	50	61	90	36	12	1
M7520M30	M30	4500	86	25.5	28	60	66	75	111	45	17	2

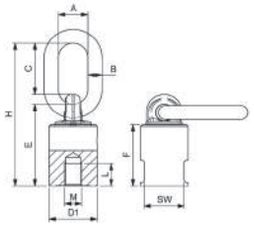
Also available in grade 60 stainless steel.

SWIVEL EYE NUTS FEMALE WITH RING

CE

ITEM: M7525

Female swivel eye nut in grade 80 steel with ring adjustable under load. Suitable for lifting loads fitted with a threaded shaft. Safety factor 4 in all load directions. Rotates through 360° with ring that pivots 180°, self-aligning. Tested for 20,000 stress cycles.





Tech. Code	Size	Capacity kg	A mm	B mm	C mm	E mm	F mm	H mm	SW mm	D1 mm	Weight kg
M7525M1215	M12 x 15	500	30	13	47	69	50	124	34	36.5	0.61
M7525M1620	M16 x 20	1000	30	13	47	76	57	131	34	38	0.68
M7525M2025	M20 x 25	1700	34	16	57	93	70	164	46	55	1.65
M7525M2430	M24 x 30	2100	42	18	72	107	81	193	50	58	2.17
M7525M3040	M30 x 40	3200	45	22	65	126	94	211	65	75	4.29

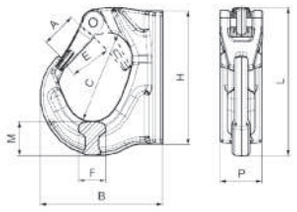
WELDING EYEBOLTS

CE

NEW

ITEM: M7531

Weld-on eyebolt made of alloy steel grade 80 for lifting loads. **Safety factor 4**.
Available with load capacities from 1.12 to 10 tonnes.
Conforms to CE marking according to Machinery Directive **2006/42/EC**.
Easy and quick to weld, the welding eyebolt must be placed on surfaces of adequate size, free of surface defects, paint residues, oxide, lubricants or other materials that could impair proper welding adhesion.





Tech. Code	L mm	Capacity Kg	A mm	B mm	C mm	E mm	F mm	H mm	M mm	P mm	Weight Kg
M7531112	101	1120	23	77	63	22	18	93	22.5	25	0,54
M75312	114	2000	27	92	66	26	20.5	81	23	34	0,87
M75313	128	3000	30	106	75	30	24	116	30	36	1,27
M75315	170	5000	37	133	98	32.5	28	160	43	43.5	2,70
M75318	177	8000	36	137	99	31	39	166	44	51	3,5
M753110	224	10000	49	169	140	39	38	205	55	53	5,20

BJ HANDLING

MAGNETIC LIFTERS - NEO GRAVITY

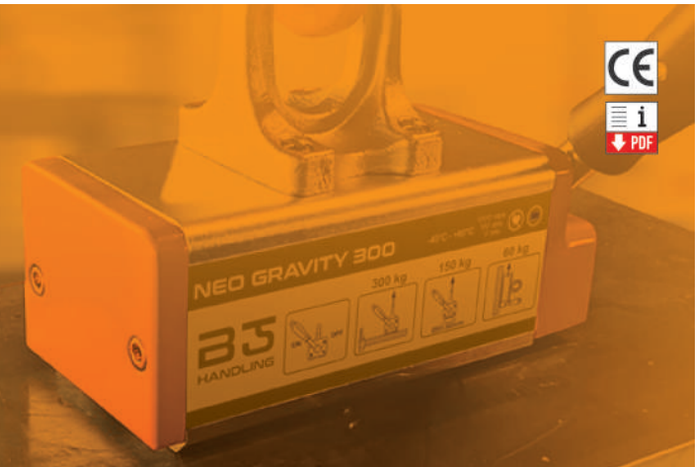
Neo Gravity magnetic lifters are made with a special single-magnet circuit and high-energy neodymium iron boron magnets. The massive ball-bearing rotor and reduced internal air gaps guarantee high magnetic output, efficiency and reliability in lifting operations.

- The magnetic system is fully activated with a lever rotation of only 90°, making operation quick and easy.

- Activation and deactivation occurs smoothly, without recoil on the lever.

- The neodymium iron boron segment magnets applied to the rotor ensure maximum magnetic output without flux leakage.

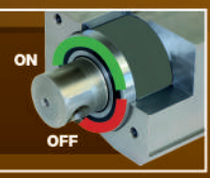
- Optimised design and reduced internal air gaps allow high performance with less magnetic material, reducing costs and environmental impact.





- Increased durability and corrosion resistance thanks to a fully nickel-plated lifter body.
- High magnetic force and consistent performance thanks to high-energy neodymium iron boron magnets.
- Safe and reliable lifting thanks to the large forged lifting eye (SF5).
- Increased operational efficiency due to compact design that reduces loading and unloading times.
- Simple and versatile use: one-handed operation and suitable for both flat surfaces and round materials.

One-piece magnetic shaft, machined from solid, fully nickel-plated with no mechanical weak points.



Tech. Code	Max. load capacity on thickness table mm	Max. lifting capacity on deck Kg	Max. capacity on rebar Ø min - max mm	Max. capacity on rebar Kg	Dimensions mm	Eye dimensions mm	Weight Kg
M8021150	8	150	50 - 200	75	161 x 64 x 124	Ø 30 - 42 H	3.6
M8021300	15	300	50 - 300	150	205 x 87 x 158	Ø 40 - 52 H	8.4
M8021600	20	600	80 - 400	300	288 x 112 x 189	Ø 50 - 62 H	19
M8021800	20	800	80 - 400	400	348 x 112 x 189	Ø 50 - 62 H	23
M80211000	25	1000	100 - 450	500	361 x 152 x 240	Ø 60 - 77 H	42
M8022150	8	150	50 - 200	75	161 x 64 x 124	Ø 30 - 42 H	3.6
M8022300	15	300	50 - 300	150	205 x 87 x 158	Ø 40 - 52 H	8.4
M8022600	20	600	80 - 400	300	288 x 112 x 189	Ø 50 - 62 H	19
M8022800	20	800	80 - 400	400	348 x 112 x 189	Ø 50 - 62 H	23
M80221000	25	1000	100 - 450	500	361 x 152 x 240	Ø 60 - 77 H	42
M8023100	8	100	25 - 150	100	161 x 70 x 135	Ø 30 - 42 H	4
M8023225	10	225	50 - 205	225	205 x 98 x 172	Ø 30 - 42 H	9.5
M8024170	8	170	30 - 105	150	195 x 64 x 134	Ø 30 - 42 H	5.1
M8024330	10	330	40 - 160	300	263 x 87 x 170	Ø 40 - 52 H	12.4
M8025200	10	200	20 - 50	100	195 x 64 x 141	Ø 30 - 42 H	5.5
M8025400	15	400	25 - 60	200	265 x 87 x 176	Ø 43 - 53 H	13

UNIVERSAL MAGNETIC LIFTERS

ITEM: NEO GRAVITY

NEW



The Neo Gravity universal magnetic lifters are characterised by their wide range of application: they can lift flat, round, finished or rough ferrous loads.
The lifters can achieve good gripping results even with thin materials and large air gaps.
The product is also characterised by its great robustness and an excellent performance/price ratio.
The unique and patented internal magnetic circuit channels the magnetic range directly into the load without any dispersion. This guarantees constant performance and no magnetic residue.

Tech. Code	Max. load capacity on thickness table mm	Max. lifting capacity on deck Kg
M8021150	8	150
M8021300	15	300
M8021600	20	600
M8021800	20	800
M80211000	25	1000

MAGNETIC LIFTERS FOR THIN SHEETS AND TUBES

ITEM: NEO GRAVITY SLIM

NEW



Magnetic lifters for thin sheets and pipes are a series of lifters designed for professional handling and lifting of thin sheets and pipes. The special magnetic configuration, combined with the V-pole, provides maximum magnetic flux density for thin materials. Positioning of the FX P on tubes and round materials is easy, with no abrupt jerking of the lever during deactivation.

Tech. Code	Max. load capacity on thickness table mm	Max. lifting capacity on deck Kg
M8024170	8	170
M8024330	10	330

MAGNETIC LIFTS WITH DOUBLE EYELETS

ITEM: NEO GRAVITY DOUBLE

NEW



Neo gravity universal magnetic lifters with double lifting eyes are characterised by their wide range of application and allow lifting of flat or round ferrous loads, finished or unfinished.
They offer good gripping performance even on thin materials and in the presence of large air gaps. The unique and patented internal magnetic circuit conveys the magnetic range directly into the load without dispersion, guaranteeing constant performance and absence of magnetic residue. The product is also characterised by its robustness and excellent performance/price ratio.
The double lifting eye also allows the safe vertical transport of light loads.

Tech. Code	Max. load capacity on thickness table mm	Max. lifting capacity on deck Kg
M8022150	8	150
M8022300	15	300
M8022600	20	600
M8022800	20	800
M80221000	25	1000

MAGNETIC LIFTERS FOR PROFILES AND HEAT

ITEM: NEO GRAVITY PROFIL

NEW



Magnetic lifters for profiles and hot material are particularly suitable for use in carpentry, shipyards and machine shops. The narrow, elongated body is designed to lift beams and profiles, even from the inner core, and to achieve maximum holding force even with relatively thin material thickness. Thanks to the configuration of the magnetic pole, it is possible to lift 90° angle profiles from both inside and outside. When lifting parts after hot cutting, the height of the polar shoe protects the magnets inserted in the rotor from heat, bringing the normal limit of use from 80°C to 150°C.

Tech. Code	Max. load capacity on thickness table mm	Max. lifting capacity on deck Kg
M8025200	10	200
M8025400	15	400

MAGNETIC LIFTERS FOR ROUND LOADS

ITEM: NEO GRAVITY ROUND

NEW



Magnetic lifters for round loads is the series of magnetic lifters designed for handling round materials. The large polar shoe allows easy positioning on the load and directs the magnetic range directly into the material. The lifter can be activated on larger polar surfaces, facilitating the gripping of round materials of different diameters. Even flat materials of small thickness can be lifted without problems.

Tech. Code	Max. load capacity on thickness table mm	Max. lifting capacity on deck Kg
M8023100	8	100
M8023225	10	225

M8021150		Airgap < 0,1mm			Airgap 0,1 - 0,3mm			Airgap 0,3 - 0,5mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 2		20	800	800	12	800	800	10	800	800
>= 4		60	1500	1000	40	1500	1000	30	1200	1000
>= 6		80	1500	1000	60	1500	1000	50	1200	1000
>= 8		150	1500	1000	120	1500	1000	80	1200	1000
Ø 50 - 200		75	1500	-	50	2000	-	40	1500	-

M8021300		Airgap < 0,2mm			Airgap 0,2 - 0,3mm			Airgap 0,3 - 0,6mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 4		60	1600	1000	50	1500	1000	40	1250	1000
>= 8		200	2000	1250	160	2000	1250	120	1500	1000
>= 10		230	2250	1250	190	2000	1250	150	1500	1000
>= 15		300	2500	1250	250	2000	1250	200	1500	1000
Ø 50 - 300		150	3000	-	125	2500	-	100	2000	-

M8021600		Airgap < 0,2mm			Airgap 0,2 - 0,3mm			Airgap 0,3 - 0,6mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 6 mm		150	1800	1500	120	1800	1000	100	1500	1000
>= 10 mm		300	2250	1500	250	2250	1250	210	2000	1250
>= 15 mm		500	2500	1500	440	2500	1250	350	2000	1250
>= 20 mm		600	3000	1500	520	3000	1250	440	2500	1250
Ø 80-400 mm		300	4000	-	250	3500	-	200	3000	-

M8021800		Airgap < 0,2mm			Airgap 0,2 - 0,3mm			Airgap 0,3 - 0,6mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 6 mm		200	1800	1500	160	1800	1500	140	1500	1500
>= 10 mm		400	2250	2000	320	2250	2000	280	2000	1500
>= 15 mm		650	2500	2000	520	2500	2000	450	2000	1500
>= 20 mm		800	3000	2000	720	3000	2000	550	2500	1500
Ø 80-400 mm		400	5000	-	320	4500	-	250	3500	-

M80211000		Airgap < 0,3mm			Airgap 0,3 - 0,5mm			Airgap 0,5 - 0,6mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 10 mm		350	2250	1500	300	2250	1500	260	2250	1250
>= 15 mm		600	2500	1500	500	2500	1500	450	2500	1250
>= 20 mm		900	3000	1500	750	3000	1500	675	3000	1250
>= 25 mm		1000	3500	1500	850	3000	1500	750	3000	1250
Ø 100-450 mm		500	4500	-	400	4000	-	330	3000	-

M8023100		Airgap < 0,1mm			Airgap 0,1 - 0,3mm			Airgap 0,3 - 0,5mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 2		25	800	800	12	800	800	10	800	800
>= 4		50	1500	1500	40	1500	1250	30	1200	800
>= 6		70	1500	1500	60	1500	1250	45	1200	800
>= 8		100	1500	1500	75	1500	1250	60	1200	800
Ø 25 - 150		100	2000	-	75	2000	-	60	1500	-

M8023225		Airgap < 0,2mm			Airgap 0,2 - 0,3mm			Airgap 0,3 - 0,6mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 4		80	1600	1000	60	1500	1000	40	1250	1000
>= 8		180	2000	1250	150	2000	1250	120	1500	1250
>= 10		225	2250	1250	200	2000	1250	150	1500	1250
Ø 50 - 205		225	3000	-	200	2500	-	150	2000	-
Ø 50 - 300		150	3000	-	125	2500	-	100	2000	-

M8024170		Airgap < 0,1mm			Airgap 0,1 - 0,3mm			Airgap 0,3 - 0,5mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 2		30	800	800	20	800	800	15	800	800
>= 4		80	1500	1250	60	1500	1250	50	1200	800
>= 6		120	1500	1250	90	1500	1250	75	1200	800
>= 8		170	1500	1250	130	1500	1250	100	1200	800
Ø30-105		150	2000	-	115	2000	-	60	1500	-

M8024330		Airgap < 0,2mm			Airgap 0,2 - 0,3mm			Airgap 0,3 - 0,6mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 4		100	2000	1250	80	1500	1000	60	1250	1000
>= 6		160	2500	1250	130	2000	1250	100	1500	1000
>= 8		300	2500	1250	240	2000	1250	180	1500	1000
>= 10		330	2500	1250	270	2000	1250	200	1500	1000
Ø 40 - 160		300	3500	-	250	3000	-	180	2000	-

M8025200		Airgap < 0,1mm			Airgap 0,1 - 0,3mm			Airgap 0,3 - 0,5mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 4		70	1500	1250	50	1500	1250	35	1000	1250
>= 6		110	2000	1250	75	1500	1250	60	1250	1250
>= 8		175	2500	1250	120	2000	1250	90	2000	1250
>= 10		200	2500	1250	140	2000	1250	110	2000	1250
90° ∧		100	3000	-	80	2500	-	60	2000	-
90° ∨		120	3000	-	100	2500	-	60	2000	-

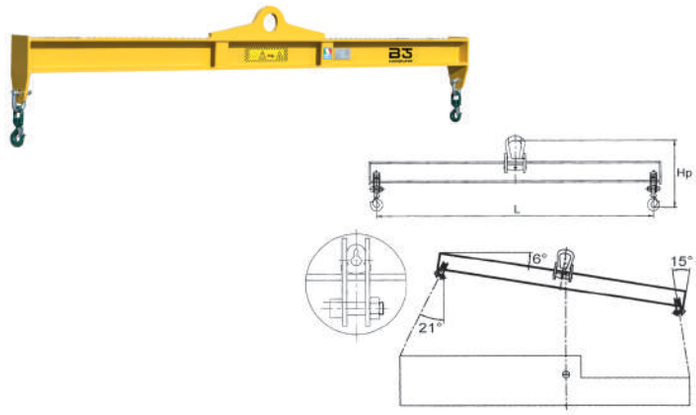
M8025400		Airgap < 0,2mm			Airgap 0,2 - 0,3mm			Airgap 0,3 - 0,6mm		
Plate thickness (mm)		Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)	Max load capacity (Kg)	Max L (mm)	Max B (mm)
>= 6		200	2000	1000	120	1500	1000	100	1250	1000
>= 8		300	2500	1250	210	2250	1250	150	2000	1250
>= 10		340	2500	1250	260	2250	1250	180	2000	1250
>= 15		400	2500	1250	320	2250	1250	220	2000	1250
90° ∧		200	4000	-	160	3500	-	120	3200	-
90° ∨		250	4000	-	190	3500	-	130	3200	-

ITEM: M8110

Lifting bars with fixed hooks without welds

Features:
Central ring suspension and load hooks fixed on the edges

Supplied with:
Instruction manual for use and maintenance



Tech. Code	Model	Max work load kg	Total length mm	Hook spacing inferior mm	Encumbrance vertical mm	Weight kg
M81101000A	PBFA1-A	1.000	1050	1.000	440	20
M81101000D	PBFA1-D	1.000	2050	2.000	440	36
M81101000G	PBFA1-G	1.000	3050	3.000	440	90
M81101000J	PBFA1-J	1.000	4050	4.000	495	145
M81102000A	PBFB2-A	2.000	1050	1.000	460	25
M81102000D	PBFB2-D	2.000	2050	2.000	460	65
M81102000G	PBFB2-G	2.000	3050	3.000	485	115
M81102000J	PBFB2-J	2.000	4050	4.000	500	184
M81103000A	PBFC3-A	3.000	1050	1.000	485	30
M81103000D	PBFC3-D	3.000	2050	2.000	485	85
M81103000G	PBFC3-G	3.000	3050	3.000	505	145
M81103000J	PBFC3-J	3.000	4050	4.000	525	225
M81104000A	PBFD4-A	4.000	1050	1.000	510	45
M81104000D	PBFD4-D	4.000	2050	2.000	510	110
M81104000G	PBFD4-G	4.000	3050	3.000	530	150
M81104000J	PBFD4-J	4.000	4050	4.000	550	230
M81105000A	PBFE5-A	5.000	1050	1.000	620	55
M81105000D	PBFE5-D	5.000	2050	2.000	620	125
M81105000G	PBFE5-G	5.000	3050	3.000	650	215



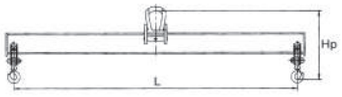
ITEM: M8120

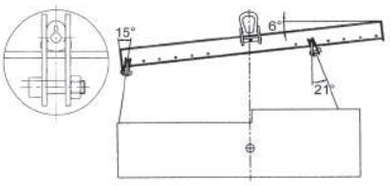
Adjustable, weld-free lifting sling bars **without hooks**.

Features:
- Central suspension ring and adjustable swivelling load hooks every 100 mm along the beam

Scope of supply:
- Operation and maintenance manual







Tech. Code	Model	Max work load kg	Total length mm	Useful length L mm	Height mm	Weight kg
M81201000A	PBMA1-A	1,000	1.050	600 - 1.000	440	26
M81201000D	PBMA1-D	1,000	2.050	1.000 - 2.000	440	48
M81201000G	PBMA1-G	1,000	3.050	2.000 - 3.000	440	96
M81201000J	PBMA1-J	1.000	4.050	3.000 - 4.000	495	152
M81202000A	PBMB2-A	2.000	1.050	600 - 1.000	460	32
M81202000D	PBMB2-D	2,000	2.050	1.000 - 2.000	460	72
M81202000G	PBMB2-G	2,000	3.050	2.000 - 3.000	485	122
M81202000J	PBMB3-J	2.000	4.050	3.000 - 4.000	500	190
M81203000A	PBMC3-A	3.000	1.050	600 - 1.000	485	36
M81203000D	PBMC3-D	3,000	2.050	1.000 - 2.000	485	91
M81203000G	PBMC3-G	3.000	3.050	2.000 - 3.000	505	152
M81203000J	PBMC3-J	3.000	4.050	3.000 - 4.000	525	232
M81204000A	PBMD4-A	4.000	1.050	600 - 1.000	510	53
M81204000D	PBMD4-D	4.000	2.050	1.000 - 2.000	510	118
M81204000G	PBMD4-G	4,000	3.050	2.000 - 3.000	530	158
M81204000J	PBMD4-J	4.000	4.050	3.000 - 4.000	550	240
M81205000A	PBME5-A	5.000	1.050	600 - 1.000	620	60
M81205000D	PBME5-D	5.000	2.050	1.000 - 2.000	620	131
M81205000G	PBME5-G	5,000	3.050	2.000 - 3.000	650	223



LIFTING CROSS MONOBEAMS FOR BIG BAGS

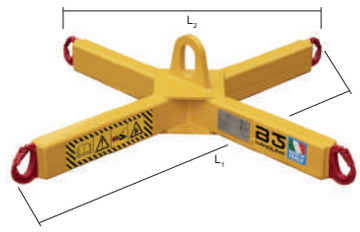
B·HANDLING 3

ITEM: M8130

Cross type lifting monobeams

Features:
- Central ring sospension, load hooks welded on the edges

Supplied with:
- Instruction manual for use and maintenance



Tech. Code	Model	Load capacity kg	Hook Interaxis L1 mm	Hook Interaxis L2 mm	Weight kg
M81301000A	BCA1-A	1.000	1.000	707	55
M81301000C	BCA1-C	1.000	1.500	1.060	65
M81302000A	BCA2-A	2.000	1.000	707	70
M81302000C	BCA2-C	2.000	1.500	1.060	90
M81303000A	BCA3-A	3.000	1.000	707	95
M81303000C	BCA3-C	3.000	1.500	1.060	115
M81304000A	BCA4-A	4.000	1.000	707	110
M81304000C	BCA4-C	4.000	1.500	1.060	140

BIG BAG

ITEM: P7014

Big Bag standard UN 13H3Y approved with four lifting straps. In polypropylene.



Tech. Code		P7014U2	P701401	P701402
Dimension	cm	90 x 90 x 120	90 x 90 x 120	90 x 90 x 120
Volume	m³	0,97	0,97	0,97
Load capacity	kg	1000	1000	1500
Form		Cloded bottom	Closed bottom	With drain valve
Type approved		13H3Y	-	-



M

FORK MOUNTED HOOKS



ITEM: M8160

Forklift sleeve for single fork, can be placed on the fork of the forklift truck.

Features:
- High-quality steel body and components
- Suitable for lifting and transporting workpieces by means of a swivel hook

Advantages:
- Safety mechanism ensures that the load is not released during lifting and transporting
- Can be positioned anywhere on the fork

Equipment:
- Operation and maintenance manual

Use of this interchangeable attachment requires authorisation from the forklift manufacturer for the purposes of current regulations.

Tech. Code	Capacity kg	Weight kg	Internal fork dimensions mm
M81602000	2000	11	160 x 60

FORK MOUNTED HOOKS



ITEM: M8170

Sleeve that can be forked on both forks of the forklift.

Features:
- High-quality steel body and components
- Suitable for lifting and transporting workpieces by means of a swivel hook

Advantages:
- Safety mechanism ensures that the load is not released during lifting and transporting

Scope of supply:
- Operation and maintenance manual

Use of this interchangeable attachment requires authorisation from the forklift manufacturer for the purposes of current legislation.

Tech. Code	Capacity kg	Weight kg
M81702000	2000	27
M81705000	5000	30

FORK MOUNTED HOOKS



ITEM: M8180

Sleeve that can be positioned on both forks of the forklift.

Features:
- High-quality steel body and components
- Suitable for lifting and transporting workpieces by means of a swivel hook

Advantages:
- Safety mechanism ensures that the load is not released during lifting and transporting
- Fixed position for continuous use

Scope of supply:
- Operation and maintenance manual

Use of this interchangeable attachment requires authorisation from the forklift manufacturer for the purposes of current regulations.

Tech. Code	Capacity kg	Weight kg
M81802000	2000	30
M81805000	5000	35

MANUAL CLAMPS FOR 200 LITERS

B·HANDLING

ITEM: M7060



Single-drum pliers that can be attached to the forks of the forklift truck (fork-lift truck) for central gripping of metal drums.
The drum is lifted, transported and deposited automatically without the operator having to get off the forklift.

Features:
- Can be attached to the forks of the forklift truck
- Automatically works both during pick-up and release
- Safety chain to secure the attachment to the forklift truck

Use of this interchangeable attachment requires authorisation from the forklift manufacturer for the purposes of current regulations.

Tech. Code	Model	Capacity kg	Length mm	Width mm	Height mm	Fork dimensions max mm	Weight kg
M7060300	PF200	300	1220	670	200	135 x 45	50

MANUAL CLAMP FOR 200 LITERS DRUM TILT

B·HANDLING

ITEM: M7065



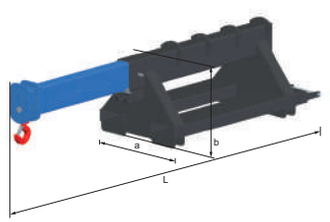
Manually forkable drum unloader from vertical to horizontal and vice versa for storage saddles.

Features:
- Can be attached to forklift forks
- Allows drums to be tipped from vertical to horizontal and vice versa
- Drums are transported in a horizontal position
- All operations are carried out with the operator on board the forklift

Use of this interchangeable attachment requires authorisation from the forklift manufacturer for the purposes of current regulations.

Tech. Code	Model	Capacity kg	Length mm	Width mm	Height mm	Fork dimensions max. mm	Weight kg
M7065300	PRF200	300	2110	612	470	145 x 45	140

ITEM: M8220



Telescopic crane that can be forklifted with forks.

Features:
- High-quality steel body and components
- Suitable for lifting and transporting workpieces by hook

Advantages:
- Fixed position for continuous use
- Locking bracket for fast and safe application on forks
- Hook can be rotated 360°.

Scope of supply:
- Operation and maintenance manual

Use of this interchangeable attachment requires authorisation from the forklift manufacturer for the purposes of current regulations.

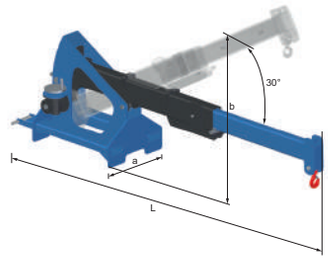
Tech. Code	Capacity kg	Length mm	Width mm	Height mm	Section max mm	Weight kg
M82200500	500	2180	540	460	100 x 45	160
M82201000	1000	2180	550	500	125 x 45	205
M82201500	1500	2200	570	550	150 x 60	215

TELESCOPIC TILTING CRANES WITH FORKLIFT

B·HANDLING

ITEM: M8230

Telescopic and tilting crane that can be forklifted with forks.



Features:
- High-quality steel body and components
- Suitable for lifting and transporting workpieces by hook

Advantages:
- Fixed position for continuous use
- Locking bracket for fast and safe application on forks
- Hook can be rotated 360°.

Scope of supply:
- Operation and maintenance manual

Use of this interchangeable attachment requires authorisation from the forklift manufacturer for the purposes of current regulations.

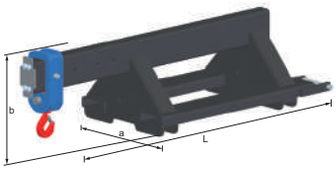
Tech. Code	Capacity kg	Length mm	Width mm	Height mm	Section max mm	Weight kg
M82300500	500	2680	540	460	100 x 45	265
M82301000	1000	2680	540	500	125 x 45	310
M82301500	1500	2700	550	550	150 x 60	350

CRANES FORKABLE WITH FORKLIFT

B·HANDLING

ITEM: M8210

Cranes that can be forklifted with forks.



Features:
- High-quality steel body and components
- Suitable for lifting and transporting workpieces by means of hooks

Advantages:
- Fixed position for continuous use
- Locking bracket for fast and safe application on forks
- Hook can be rotated 360°.

Scope of supply:
- Operation and maintenance manual

Use of this interchangeable attachment requires authorisation from the forklift manufacturer for the purposes of current regulations.

Tech. Code	Capacity kg	L mm	A mm	B mm	Section max mm	Weight kg
M82100500	500	2180	540	460	100 x 45	153
M82101000	1000	2180	550	500	125 x 45	160
M82101500	1500	2200	570	550	150 x 60	213

ELECTRIC PALLET TRUCKS

ITEM: M9121

Pallet trucks with electric traction and lifting, the ideal solution for light logistics operations.



- Easy to use,compact dimensions and low weight
- Powerful removable lithium battery
- Emergency button and electric brake as standard
- Easy and fast handling of pallets
- Fast recharging thanks to the removable and replaceable lithium battery

Tech. Code		M91211500	M91212000
Capacity	kg	1500	2000
Fork size	mm	1150 - 540	800 - 540
Lift height	mm	200	200
Translation speed	km/h	4.6	4.8
Weight	kg	123	153

SINGLE-STAGE ELECTRIC PACKER STACKER

ITEM: M9015

Complete and compact single-post stacker.

- Compact size, ergonomic
- Powerful maintenance-free gel battery
- Ergonomic tiller with: accelerator, proportional control for the forks, safety button, calcson, turtle button, display with hour meter and battery indicato
- Safe and fast handling and lifting of pallets
- Convenient height-adjustable work surface
- Excellent for movements in narrow spaces, because it can also be used with the rudder in a vertical position while operating in turtle mode



Tech. Code		M901512001600
Capacity	kg	1200
Fork dimension	mm	1150 - 570
Lift height	mm	1600
Post height	mm	1930
Weight	kg	585

DOUBLE STAGE ELECTRIC PALLET STACKER

CE

ITEM: M9013

Compact stacker

- Compact dimensions (800 mm wide), lateral drawbar, wide mast
- Powerful maintenance-free gel battery
- Ergonomic tiller with: accelerator, proportional control for forks, safety button, calcson, turtle button, display with hour meter and mast battery indicator with height indicator
- Safe and fast handling and lifting of pallets, excellent visibility
- Convenient height-adjustable worktop
- Excellent for handling in confined spaces, because it can also be used with the rudder in a vertical position while operating in turtle mode



Tech. Code		M901312002900	M901312003600
Capacity	Kg	1200	1200
Fork dimension	mm	1150 - 570	1150 - 570
Lift height	mm	2900	3600
Closed mast height	mm	1930	2280
Extended mast height	mm	3337	4037
Weight	Kg	585	585

Related products

U-Power SAFETY SHOES

Tech. Code	EU Size	UK Size
K181243	43	9
K181244	44	10
K181245	45	10 1/2
K181246	46	11



Product available in chapter K

BALLASTED REVOLVING CRANES 360 ° WITH MANUAL EXTENSION

B·HANDLING

ITEM: M9410



Features:
- Lifting with double delivery manual pump that allows fast lifting
- High-capacity pivoting wheels with high smoothness with bumper supports and parking brakes
- 360 ° rotatable
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Reduces operator effort thanks to the hydraulic cylinder of the larger pump
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M9410200	M9410500	M9431PRL
Load capacity	kg	200 - 170 - 150 - 130	500 - 420 - 370 - 320	Extension
Cantilever	mm	365 - 500 - 635 - 770	365 - 500 - 635 - 770	-
A max	mm	2500	2500	-
Capacity with extension	mm	90 - 85 - 80 - 70	220 - 200 - 180 - 160	-
Cantilever with extension	mm	865 - 1000 - 1135 - 1270	865 - 1000 - 1135 - 1270	-
A max with extension	mm	2850	2850	-
Weight	kg	400	600	-

BALLASTED REVOLVING CRANES 360° WITH MANUAL EXTENSION

B·HANDLING

ITEM: M9415



Features:
- Electric lifting by means of a push-button panel that maneuvers the up and down of the arm
- High-capacity pivoting wheels with high smoothness with bumper supports and parking brakes
- 360 ° rotatable
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M9415200	M9415500	M9431PRL
Load capacity	kg	200 - 170 - 150 - 130	500 - 420 - 370 - 320	Extension
Cantilever	mm	365 - 500 - 635 - 770	365 - 500 - 635 - 770	-
A max	mm	2500	2500	-
Capacity with extension	kg	90 - 85 - 80 - 70	220 - 200 - 180 - 160	-
Cantilever with extension	mm	865 - 1000 - 1135 - 1270	865 - 1000 - 1135 - 1270	-
A max with extension	mm	2850	2850	-
Weight	kg	440	640	-

M9415200 Equipment not subject to periodic visits by certification bodies for certification of use and maintenance status.

BALLASTED REVOLVING CRANES WITH PROGRESSIVE LIFTING AND MANUAL EXTENSION

B·HANDLING

ITEM: M9420



Features:
- Electric lifting by means of proportional joystick that manoeuvres the boom up and down
- High-load capacity pivoting wheels with bumper supports and parking brakes
- 360° swivelling
- Lift arm extendable in 4 different positions
- Load descent adjusted by handwheel incorporated in the pump

Not included in the scope of delivery, can therefore be supplied as an accessory.

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M9420200	M9420500	M9431PRL
Load capacity	kg	200 - 170 - 150 - 130	500 - 420 - 370 - 320	Extension
Cantilever	mm	365 - 500 - 635 - 770	365 - 500 - 635 - 770	-
A max	mm	2500	2500	-
Capacity with extension	kg	90 - 85 - 80 - 70	220 - 200 - 180 - 160	-
Cantilever with extension	mm	865 - 1000 - 1135 - 1270	865 - 1000 - 1135 - 1270	-
A max with extension	mm	2850	2850	-
Weight	kg	440	640	-

M9420200 Equipment not subject to periodic visits by certification bodies for certification of use and maintenance status.

BALLASTED REVOLVING CRANES WITH ELECTRIC LIFTING AND EXTENSION

B·HANDLING

ITEM: M9425



Features:
- Electric lifting and extending by means of a convenient joystick that manoeuvres the ascent the descent and extension of the boom
- High-load capacity pivoting wheels with bumper supports and parking brakes
- 360° swivel
- Continuously extendable lifting arm over the entire length
- Load descent adjusted by handwheel incorporated in the pump

Not included in the scope of delivery, can therefore be supplied as an accessory.

Advantages:
- Suitable for frontal loading directly into the loading mouth of the machining centre
- Extremely versatile thanks to its small size which allows it to reach even narrow spaces

Tech. Code		M9425200	M9425500	M9431PRL
Load capacity	kg	200 - 80	500 - 200	Extension
Cantilever	mm	410 - 1410	410 - 1410	-
A max	mm	2258	2258	-
Capacity with extension	kg	40	100	-
Cantilever with extension	mm	1910	1910	-
A max with extension	mm	2600	2600	-
Weight	kg	480	680	-

M9425200 Equipment not subject to periodic visits by certification bodies for certification of use and maintenance status.

BALLASTED CANTILEVERED CRANES WITH MANUAL EXTENSION

B·HANDLING

CE

ITEM: M9435



Features:
- Lifting with double delivery manual pump that allows fast lifting
- Equipped with two fixed wheels and two fully loaded steering wheels connected to the guide rudder, to allow extreme maneuverability even when fully loaded
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Reduces operator effort thanks to the hydraulic cylinder of the larger pump
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M94351000
Load capacity	kg	1000 - 835 - 670 - 500
Cantilever	mm	650 - 850 - 1050 - 1250
A max	mm	2640
Capacity with extension	mm	450 - 390 - 325 - 275
Cantilever with extension	mm	1400 - 1600 - 1800 - 2000
A max with extension	mm	3030
Weight	kg	1150

ELECTRIC BALLASTED OVERHANGING CRANES WITH MANUAL EXTENSION

B·HANDLING

CE

ITEM: M9440



Features:
- Electric lifting by means of a push-button panel that maneuvers the up and down of the arm
- Equipped with two fixed wheels and two fully loaded steering wheels connected to the steering drawbar, to allow extreme maneuverability even when fully loaded
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M94401000
Load capacity	kg	1000 - 835 - 670 - 500
Cantilever	mm	650 - 850 - 1050 - 1250
A max	mm	2640
Capacity with extension	kg	450 - 390 - 325 - 275
Cantilever with extension	mm	1400 - 1600 - 1800 - 2000
A max with extension	mm	3030
Weight	kg	1190

ELECTRIC BALLASTED CANTILEVER CRANES WITH PROGRESSIVE LIFTING AND MANUAL EXTENSION

B·HANDLING 3



ITEM: M9445

Features:
- Electric lifting by means of a proportional joystick that maneuvers the lifting and lowering of the arm
- Equipped with two fixed wheels and two fully loaded steering wheels connected to the guide rudder, to allow extreme maneuverability even when fully loaded
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M94451000
Load capacity	kg	1000 - 835 - 670 - 500
Cantilever	mm	650 - 850 - 1050 - 1250
A max	mm	2640
Capacity with extension	kg	450 - 390 - 325 - 275
Cantilever with extension	mm	1400 - 1600 - 1800 - 2000
A max with extension	mm	3030
Weight	kg	1190

CANTILEVER CRANE WITH LIFTING AND ELECTRIC EXTENSION

B·HANDLING 3



ITEM: M9450

Features:
- Electric lifting and extension through joystick control that maneuvers the ascent, the descent and extension of the arm
- Equipped with two fixed wheels and two fully loaded steering wheels connected to the guide rudder to allow extreme maneuverability even when fully loaded
- Continuously extendable lifting arm over the entire length
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M94501000
Load capacity	kg	1000 - 500
Cantilever	mm	650 - 1250
A max	mm	2640
Capacity with extension	mm	200
Cantilever with extension	mm	1400 - 2000
A max with extension	mm	3030
Weight	kg	1195

Related products

NEW

U-Power SAFETY FOOTWEAR

Tech. Code	EU Size	UK Size
K181744	44	10
K181745	45	10,5
K181746	46	11
K181747	47	12



Product available in chapter K

REVOLVING BALLASTED MOTORIZED CRANES 270° WITH ELECTRIC LIFTING AND EXTENSION

B·HANDLING

ITEM: M9456



Fully electric crane equipped with motorized traction, usable in all industrial sectors.

Features:
- Electric lifting controlled by proportional levers
- Manual rotation at 270°
- Electric extension with 1430 mm overhang, extendable up to 1930 mm
- Motorized traction driven by an ergonomic rudder equipped with horn and anti-crushing buttons
- Hare/Turtle button which allows 2-speed driving

Advantages:
- Suitable for front loading
- System for limiting the maximum permitted load
- Allow handling with the suspended load
- Crane with the smallest dimensions in its category
- Exceptional steering angle that allows it to move or rotate in limited spaces
- Transportable by forklift

Tech. Code		M9456500	M9457BAT	M9457PRL
Capacity	kg	500 - 200	Battery	Extension
Cantilever	mm	430 - 1430	-	-
A max	mm	2261	-	-
Capacity with extension	kg	100	-	-
Cantilever with extension	mm	1930	-	-
A max with extension	mm	2725	-	-
Speed	km/h	1,5/3	-	-
Weight with ballast	kg	910	-	-

BALLASTED CANTILEVER MOTORIZED CRANES WITH ELECTRIC LIFTING AND EXTRACTION

B·HANDLING

ITEM: M9458



Fully electric crane equipped with motorized traction, usable in all industrial sectors.

Features:
- Electric lifting controlled by proportional levers
- Electric extension with overhang of 1653 mm, extendable up to 2155 mm
- Motorized traction driven by an ergonomic rudder equipped with horn and anti-crushing buttons
- Hare/Turtle button which allows 2-speed driving

Advantages:
- Suitable for front loading
- System for limiting the maximum permitted load
- Allow handling with the suspended load
- Crane with the smallest dimensions in its category
- Exceptional steering angle that allows it to move or rotate in limited spaces
- Transportable by forklift

Tech. Code		M94581000	M9459BAT
Capacity	kg	1000 - 500	Battery
Cantilever	mm	400 - 1400	-
A max	mm	2585	-
Speed	km/h	1.5/3	-
Weight with ballast	kg	1600	-

MOBILE ELEVATING PLATFORMS

B·HANDLING

ITEM: M9210



Features:
- Solid steel painted structure
- Foot pump with pump cylinder and piston rod of hard chrome
- 2 fixed wheels - 2 swivel wheels with brake
- Manual lowering lever control

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M9210500	M9210500L	M92101000	M92101000L
Load capacity	Kg	500	500	1000	1000
Platform	mm	815 x 500	1600 x 810	1.016 x 510	2035 x 750
Min- Max height	mm	290 - 870	286 - 915	380 - 990	350 - 1360
Weight	Kg	84	154	122	198

MOBILE ELEVATING PLATFORMS

B·HANDLING

ITEM: M9220



Features:
- Solid steel painted structure
- Foot pump with pump and cylinder and piston rod of hard chrome
- 2 fixed wheels - 2 swivel wheels with brake
- Manual lowering lever control

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M9220350	M9225700
Load capacity	Kg	350	700
Platform	mm	905 x 512	1220 x 610
Min-Max height	mm	370 - 1300	445 - 1500
Weight	Kg	113	195

MOBILE ELEVATING PLATFORMS WITH ROLLERS

B·HANDLING

ITEM: M9250



Features:
- Solid steel painted structure
- Foot pump with pump cylinder and piston rod of hard chrome
- 2 fixed wheels - 2 swivel wheels with brake
- Manual lowering lever control
- Roller with mechanical stops on both ends to move loads easily along the table

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M92500500	M92500750
Load capacity	kg	500	750
Platform	mm	815 x 500	1100 x 510
Min- Max height	mm	350 - 930	480 - 1050
Weight	kg	100	139

Versions with rollers available on request.

MOBILE ELEVATING PLATFORMS WITH ROLLERS

B·HANDLING

ITEM: M9255



Features:
- Solid steel painted structure
- Foot pump with pump cylinder and piston rod of hard chrome
- 2 fixed wheels - 2 swivel wheels with brake
- Manual lowering lever control
- Roller with mechanical stops on both ends to move loads easily along the table

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M9255350	M9255700
Capacity	kg	350	700
Platform	mm	905 x 512	1220 x 610
Min-max height	mm	420 - 1350	495 - 1550
Weight	kg	127	205

Versions with rollers available on request.

ELECTRIC ELEVATING PLATFORMS

B·HANDLING

ITEM: M9230



Features:
- Solid steel painted structure
- Operations of up and down are activated through the relevant buttons
- An excess flow valve controls the speed of descent of different loads

Supplied with:
- Instruction manual of use and maintenance
- Perimeter protection placed under the lifting platform, if during descent there are impediments the table is stopped

Tech. Code		M92300500	M92301000	M92302000	M92303000
Load capacity	kg	500	1000	2000	3000
Lifting time	sec.	15	25	40	26
Load upward speed	mm/s	55	40	22	30
Load downward speed	mm/s	40	35	33	40
Electric motor	kW	0,75 three - phase	0,75 three - phase	0,75 three - phase	0,75 three - phase
Dimension	mm	800 x 1.300	800 x 1.300	800 x 1.300	800 x 1.300
Min- Max height	mm	190 - 1010	190 - 1010	190 - 1010	220 - 1020
Weight	Kg	160	220	280	320

Versions with rollers available on request.

ITEM: M9235



Features:
- Solid steel painted structure
- Operations of up and down are activated through the relevant buttons
- An excess flow valve controls the speed of descent of different loads

Supplied with:
- Instruction manual of use and maintenance
- Perimeter protection placed under the lifting platform, if during descent there are impediments the table is stopped

Tech. Code		M92351000
Load capacity	kg	1000
Lifting time	sec.	18
Load upward speed	mm/s	42
Load downward speed	mm/s	48
Electric motor	kW	0,75
Dimension	mm	1140 x 1450
Min- Max height	mm	80 - 760
Weight	Kg	235

Versions with rollers available on request.

MOBILE ELECTRIC ELEVATING PLATFORMS

B·HANDLING



ITEM: M9260

Features:
- Solid steel painted structure
- Operations of up and dow are activated through the relevant buttons
- An excess flow valve controls the speed of descent of different loads

Supplied with:
- Instruction manual of use and maintenance
- Perimeter protection placed under the lifting platform; if there are any obstacles during the descent, the table locks automatically

Tech. Code		M92601000
Load capacity	Kg	1000
Lifting time	sec.	18
Load. upward speed	mm/s	42
Load. downward speed	mm/s	48
Electric motor	kW	0.75 three-phase
Dimension	mm	1140 x 1450
Min- Max height	mm	82 - 760
Weight	kg	245

Versions with rollers available on request.

MOBILE ELECTRIC ELEVATING PLATFORMS

B·HANDLING



ITEM: M9240

Features:
- Solid steel painted structure
- Operations of up and down are activated through the relevant buttons
- An excess flow valve controls the speed of descent of different loads

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M92400500
Load capacity	kg	500
Lifting time	mm	1010 x 520
Min - Max height	mm	440 - 1025
Weight	kg	157

Versions with rollers available on request.

MOBILE ELECTRIC ELEVATING PLATFORMS

B·HANDLING



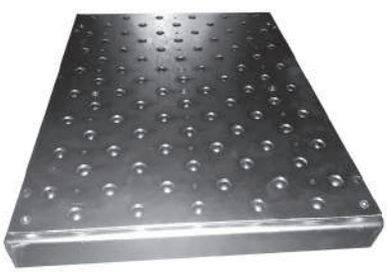
ITEM: M9245

Features:
- Solid steel painted structure
- Operations of up and down are activated through the relevant buttons
- An excess flow valve controls the speed of descent of different loads

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M92450350
Load capacity	kg	350
Lifting time	mm	910 x 500
Min - Max height	mm	370 - 1300
Weight	kg	142

Versions with rollers available on request.







HAND PALLET TRUCKS

ITEM: M9008



Features:
- Solid painted steel construction.
- 3-position control lever (up - neutral - down) positioned on the drawbar for convenient operation.
- Elastic rubber wheels on cast iron and polyurethane roller material

Equipment:
- Operation and maintenance manual
- Supplied with disassembled drawbar.

Tech. Code		M9008250080	M90082000200
Load capacity	kg	2500	2000
Fork Dimension	mm	800 x 520	2000 x 540
Total length	mm	1200	2400
Lift H	mm	85 - 200	85 - 200
Steering angle		220°	220°
Total height	mm	1230	1230
Rolls dimensions	mm	82 x 99 single	82 x 99 single
Weight	kg	62	120

ITEM: M9010



Features:
- Solid painted steel structure
- 3-position control lever (up - neutral - down) positioned on the drawbar for convenient operation
- Elastic rubber wheels on cast iron and polyurethane roller material

Supplied with:
- Operation and maintenance manual
- Supplied with disassembled drawbar

Tech. Code		M90102500
Load capacity	Kg	2500
Forks	mm	1.150 x 520
Total length	mm	1550
Lift H	mm	85 - 200
Steering angle		220°
Total height	mm	1230
Rolls dimensions	mm	82 x 70 double
Weight	kg	85

AGILE PLUS SEMI-ELECTRIC PALLET TRUCKS

ITEM: M9120



Innovative motorized pallet trucks that combines electric and manual funcions for a comfortable usability.

Features:
- Compact and light, simple and easy to use
- Two large diameter wheels (200 mm)
- Long life 36V battery
- With switch to activate manual movements in case of low battery

Advantages:
- Ideal solution for effortless handling of any pallets
- Great stability and excellent for all applications
- The fastest in its class

Supplied with :
- Use and maintenance manual

Tech. Code		M91201250
Capacity	kg	1200
Model		AGILE PLUS
Fork length	mm	1150
Fork width	mm	525
Weight	kg	88

SCALE PALLET TRUCKS

B·HANDLING

ITEM: M9114



Features:
- Stainless steel, oven-fire painted structure
- Switch level featuring good ergnomic grip for easy operation, 3 position control: down - neutral - up
- steering wheels and double loading polyurethane rollers.
- 4 shear-beam aluminum-based load cells
- 25 mm, backlit LCD display, 6 high-contrast digits which are clearly visible even in poor lighting conditions
- Waterproof membrane keyboard with 5 functional, easy to use and intuitive keys
- Configuration, calibration and diagnostics from keyboard
- Power supply through 4 AA-type battery set, also rechargeable
- Operating time is of 40 hours of continuous use
- Programmable auto switch-off function, battery level indication
- High resolution weighing x 10
- Function of zeroing, tare, net/gross, lb/kg conversion, accumulation, formulation +/- checkweighing, counting.

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M91142000
Capacity	kg	2000
Precision	kg	+/- 1
Fork Dimension	mm	1150 x 550
Lift H	mm	83 - 200
Rolls dimensions	mm	74 x 70 double
Weight	kg	127

SCALE PALLET TRUCKS WITH PRINTER

B·HANDLING

ITEM: M9115



Features:
- Solid structure in steel and oven-fire painted structure
- Switch lever feauturing good ergnomic grip, for easy operation, 3 position control down - neutral - up
- Steering wheels and double loading polyurethane rollers.
- 4 shear-beam, IP67-protection load cells
- Weight indicator in IP65 stainless steel water proof case, resistant to harsh and corrosive environments.
- 25 mm, backlit LCD display, clearly visible even in poor lighting conditions.
- Waterproof membrane keyboard with 17 functional, easy to use and intuitive keys
- Configuration, calibration and diagnostics from keyboard
- Power supply through extractable rechargeable battery
- Operating time is of about 80 hours of continuous use or one month with the typical non continuous use thanks to its programmable auto switch-off function
- Function of zeroing, tare, net/gross, lb/kg conversion, accumulation, percentage weighing, counting
- Max resolution of 1.500.000 divisions

Supplied with:
- Instruction manual of use and maintenance
- Equipped with 230Vac 50Hz battery charger (recharging time is about 8 hours).
- Configurable RS23332/C port for connection to a printer. PC, modem radio or portable terminal.
- Fitted with thermal printer with IR input for remote control management
- On request CE-M approval for weighing for leagal use

Tech. Code		M91152000
Capacity	kg	2000
Precision	Kg	+/- 2
Fork Dimension	mm	1150 x 550
Lift H	mm	85 - 200
Rolls dimensions	mm	74 x 70 double
Weight	kg	127

MANUAL LIFT PALLET TRUCKS

B·HANDLING

ITEM: M9125



Features:
- Solid steel painted structure
- Switch lever 3 position control up- neutral - down for easy operations
- Equipped with a 2 speed pump, fast mode 20 cycles lifts 800 mm, slow mode in 55 cycles lifts 800 mm
- Designed to increase the productivity thanks to the possibility of moving the weight up to a height of 400 mm
- Suitable for upload presses, cutters, conveyor assembly lines etc.

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M91251000
Capacity	kg	1000
Fork Dimension	mm	1140 x 520
Lift H	mm	800
Min clearance from ground	mm	80 - 400*
Total length	mm	1540
Rolls dimensions	mm	78 x 60
Weight	kg	127

*Above 400mm the transpallet translation is automatically blocked.

ELECTRIC LIFT PALLET TRUCKS

B·HANDLING

ITEM: M9135



Features:
- Solid steel painted structure
- Switch lever 3 position control up- neutral - down for easy operations
- Designed to increase the productivity thanks to the possibility of moving the weight up to a height of 250 mm
- Suitable for upload presses, cutters, conveyor assembly lines etc.

Supplied with:
- Instruction manual of use and maintenance
- 12 V battery and standard battery charger

Tech. Code		M91351000
Capacity	kg	1000
Fork Dimension	mm	1170 x 570
Lift H	mm	800
Min clearance from ground	mm	85 - 400*
Total length	mm	1570
Motor		0,58KW - 12V
Battery		12V - 52Ah
Rolls dimensions	mm	78 x 60
Weight	kg	127

*Above 400 mm the translation of the pallet truck is automatically blocked

PANTOGRAPH PALLET TRUCKS

PRAMAC

ITEM: M9141



Pallet truck with pantograph function.

Features:
- Easy and light lifting up to 800 mm
- Ergonomic handle and electric switch for lifting and lowering
- Long-life 12V battery

Advantages:
- Pallet truck that becomes a convenient working platform
- Excellent for production, assembly lines and logistics
- Autolevel system that adjusts the height of the forks while maintaining a constant working height

Scope of supply:
- Operation and maintenance manual

Tech. Code		M91411000
Capacity	kg	1000
Model		HX10E
Fork length	mm	1150
Fork width	mm	540
Weight	kg	139
system		AUTO LEVELING

HYDRAULIC CRANES-LIGHT SERIES

B·HANDLING

ITEM: M9352



Features:
- Two speed hydraulic pump
- Lateral tie rods
- Overload valve
- Extentable arm in 4 working positions
- Fixed front wheels, pivoting rear wheels

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M9352500	M93521000	M93521500	M93522000
Max capacity	kg	500	1000	1500	2000
Variable capacity	Kg	500 - 400 / 350 - 250	1000 - 800 / 600 - 300	1500 - 1200 / 800 - 500	2000 - 1500 / 1200 - 700
A	mm	1040 - 1350	1210 - 1510	1370 - 1820	1470 - 1920
B	mm	2160 - 2360	2100 - 2250	2750 - 3100	2800 - 3145
C	mm	885	1060	1050	1200
D	mm	665	750	1000	1150
E	mm	1260	1520	1800	2000
Weight	kg	77	95	171	211

FOLDABLE HYDRAULIC CRANES

B·HANDLING

ITEM: M9362



Features:
- Steel frame-Fold-away elements
- Two speed hydraulic pump
- Overload valve
- Extenable arm in 4 working positons
- four wheels-two fixed, two pivoting rear wheels

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M9362500	M93621000
Max capacity	kg	500	1000
Variable capacity	kg	500 - 400 - 300 -250	1000 - 800 - 600 - 300
A	mm	1010 - 1320	1000 - 1300
B	mm	2040 - 2190	2240 - 2420
C	mm	860	1000
Weight	kg	83	99

FOLDABLE HYDRAULIC CRANES WITH LOW PROFILE LEGS

B·HANDLING

ITEM: M9363



Features:
- Steel frame-Fold-away elements
- Two speed hydraulic pump
- Lateral tie rods
- Overload valve
- Extendable arm with 4 working positions
- Fur wheels-two fixed, two pivoting rear wheels

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M9363500
Max capacity	kg	500
Variable capacity	kg	500 - 400 - 350 - 250
Lowered model	mm	80
A	mm	1010 - 1320
B	mm	1990 - 2140
C	mm	860
Weight	kg	87



GENERAL CATALOGUE

You can purchase any product in the WERA catalogue by contacting our sales department. Delivery times depend on supplier availability, you will receive an order confirmation with detailed delivery dates.

WERA products included in the LINK26 catalogue are in stock and dispatched within 24 hours.

www.linkindustrialtools.com
info@linkindustrialtools.it

APPROVED TRESTLES

B·HANDLING

ITEM: M8100

To further comply with the strict and specific workplace safety rules, we introduce our trestle equipment range in steel designed for static suspended product handling.
A safe and highly reliable tool for the industry production sectors.



Supplied with:
- Related approval and loading capacity certification.

Tech. Code		M8100200	M8100500	M81001000	M81002000
Load capacity	kg	200	500	1000	2000
Length A	mm	1100	1200	1500	1500
Width C	mm	600	600	600	600
Height B	mm	830	850	900	900
Weight	kg	21,5	28	59	65

STOPBAR DEVICE FOR TRESTLES

B·HANDLING

ITEM: M8104

Stopbar device for round pieces, for trestles.

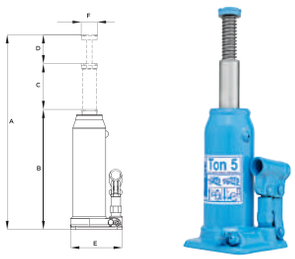


Tech. Code		M81041000	M81042000
For trestles with capacities of	kg	1000	2000

Individually sold.

HYDRAULIC BOTTLE JACKS

ITEM: M9365



Features:
- Steel structure - strong resistance
- High stability support base
- Overload protection valve

Supplied with:
Instruction manual for use and maintenance

Tech. Code		M93653	M93655	M936510	M936520
Load capacity	kg	3000	5000	10000	20000
A	mm	325	485	515	575
B	mm	200	220	240	285
C	mm	125	140	150	165
D	mm	-	125	125	125
E	mm	120 x 120	120 x 120	140 x 140	170 x 170
F	mm	40	40	50	60
Weight	kg	4,8	5,5	8,0	18

MECHANICAL RACK AND PINION JACK FOR INDUSTRIAL HANDLING

ITEM: M9375

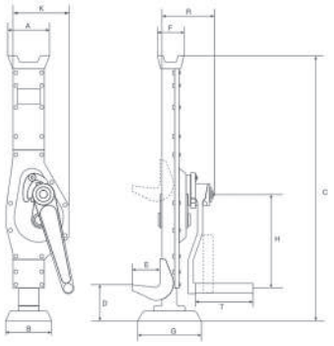
Mechanical rack and pinion jack



Features:
- Casing made of sheet steel, pinions and forged and molded gears
- The toothing of the rack is milled

Advantages:
- The crank, with friction locking device and double spring catcher, allows to hold the load at any distance from the ground

Supplied with:
- Use and maintenance manual



Tech. Code		M93751	M93753	M93755	M937510	M937516	M937520
Head flow rate	T	1,5	3	5	10	16	20
Foot flow rate	T	1,5	3	5	10	11,2	14
Max.force	daN	30	35	40	58	73	80
Min height	mm	70	70	80	100	160	150
Raised positon	mm	300	355	345	390	320	300
A	mm	81	83	108	124	135	135
B	mm	100	130	140	140	200	240
C min	mm	600	735	735	800	900	960
D min	mm	70	70	80	100	160	150
E	mm	55	60	71	86	75	80
F	mm	46	45	68	76	85	85
G	mm	110	138	170	170	230	270
H	mm	225	249	249	300	400	400
K	mm	147	168	190	250	270	300
R	mm	119	129	146	168	220	240
T	mm	113	130	130	239	280	280
Weight	kg	18	20	28	46	65	90

HYDRAULIC JACK FOR INDUSTRIAL HANDLING

ITEM: M9376

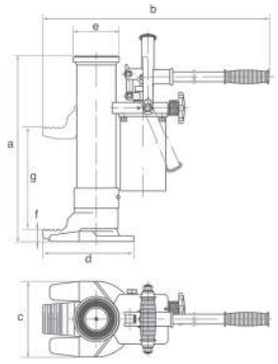
Hydraulic Jack



Features:
- Sheet steel casing
- Extendable handle to facilitate transport

Advantages:
- Load evenly distributed both on the head and on the foot
- Possibility to rotate 360° on the axis

Supplied with:
- Use and maintenance manual



Tech. Code		M93765	M937610	M937625
Load capacity	T	5	10	25
Max.force	daN	38	40	40
Min height	mm	20	28	58
Raised positon	mm	205	230	215
a	mm	368	420	505
b	mm	740	745	1305
c x d	mm	140 x 213	170 x 205	210 x 420
e	mm	93 x 93	103 x 103	155 x 155
f	mm	25	30	58
g	mm	205	230	215
Weight	kg	20	28	109


LTEC
“ think clean ”
LTEC
lubricants

WORKSHOP EQUIPMENT

N



Milwaukee, Metabo

2 - 6

Drilling machines



ITAMA

7 - 9

Lathes safety shields,
anti vibration mounts



BIANCO, LTEC

10 - 13

Band saw machines
circular mitre saw



GRIND

14 - 18

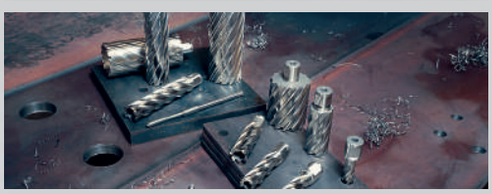
Grinders
Cleaners
Belt sanders



BOSCH, Ingersoll Rand, Milwaukee, Metabo

19 - 35

Power tools



LTEC, ROHM, BOSCH, Metabo

36 - 57

Drill accessories,
vacuum cleaners



LTEC

58 - 68

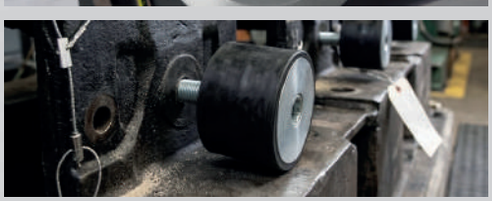
Fumes aspirators,
industrial aspirators



WODEX, B·HANDLING, ZECA

68 - 75

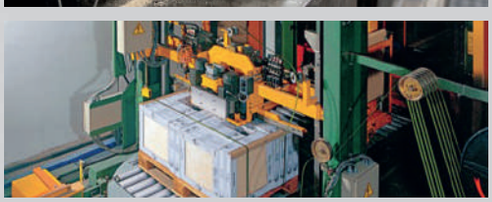
Hydraulic presses, vices, torches, lamps, cable reels, air hoses



tellureRôta, WRK

76 - 105

Anti vibration mounts, magnets, quickclamps,
spring plungers, brushes,
thread inserts



WRK

105 - 115

Packaging equipment

DRILLING MACHINES 18CO

ITEM: 18CO

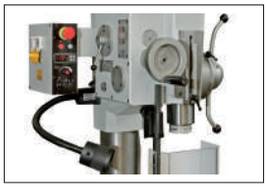
Precise, silent and reliable drilling machines, compliant with safety standards.

Features:
- Steel column
- Cast iron base
- Ground swivel table and vice
- Manual downfeed with depth stop
- Three phase motor 400 Volt
- Safety guard

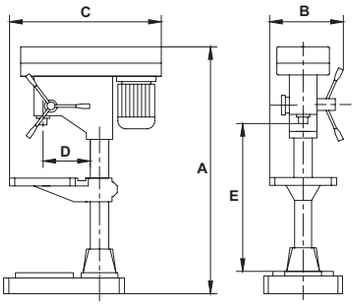
Variants:
- 2 speed motor (10 speed spindle via step pulley drive)
- Motor with electronic Speedtronic speed variator and digital display



VARIANTS



Electronic variator speedtronic with digital reading of RPM of the spindle



Tech. Code	Drilling mm	Coupling	Range mm	Table mm	Column Ø mm	Distance spindle to table mm	Kw HP	A mm	B mm	C mm	D mm	E mm	Weight kg	Variants
N038018	1 - 18/20	CM2	90	240 x 240	80	50 - 630	0.56 0.75	1625	490	660	200	1160	140	2-speed motor
N038018VE	1 - 18/20	CM2	90	240 x 240	80	50 - 630	0.56 0.75	1625	490	660	200	1160	140	Electronic speed variator

DRILLING MACHINES 25TM

ITEM: 25TM

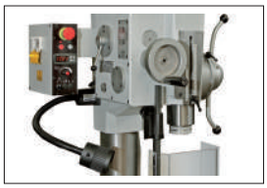
Precise, silent and reliable drilling machines, compliant with safety standards.

Features:
- Steel column
- Cast iron base
- Ground swivel table and vice
- Manual downfeed with depth stop
- Three phase motor 400 Volt
- Safety guard

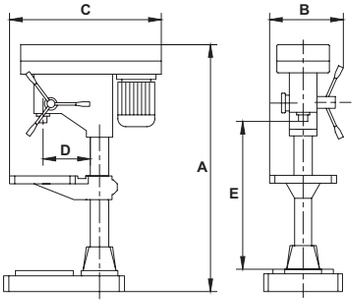
Variants:
- 2 speed motor (10 speed spindle via step pulley drive)
- Motor with electronic Speedtronic speed variator and digital display



VARIANTS



Electronic variator speedtronic with digital reading of RPM of the spindle



Tech. Code	Drilling mm	Coupling	Range mm	Table mm	Column Ø mm	Distance spindle to table mm	Kw HP	A mm	B mm	C mm	D mm	E mm	Weight kg	Variants
N043825	1 - 25/28	CM3	110	300 x 300	100	50 - 620	0.75 1	1710	580	830	250	1185	230	2-speed motor
N043825VE	1 - 25/28	CM3	110	300 x 300	100	50 - 620	0.75 1	1710	580	830	250	1185	230	Electronic speed variator

DRILLING MACHINES 30LE

ITEM: 30LE

Precise, silent and reliable drilling machines, compliant with safety standards.

Features:
- Steel column
- Cast iron base
- Ground swivel table and vice
- Manual downfeed with depth stop
- Three phase motor 400 Volt
- Safety guard

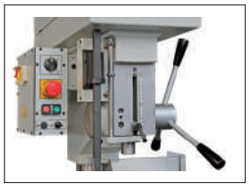
Variants:
- 2 speed motor (14 speed spindle via step pulley drive)
- Motor with electronic Speedtronic speed variator and digital display
- Tapping system and cooling system



VARIANTS



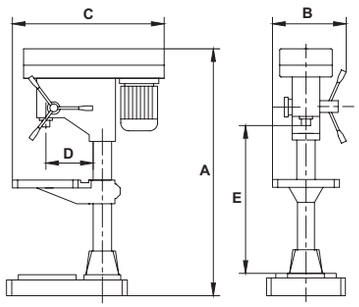
Electronic variator speedtronic with digital reading of RPM of the spindle



Tapping system with teleinversion



Tapping system with teleinversion



Tech. Code	Drilling mm	Coupling	Range mm	Table mm	Column Ø mm	Distance spindle to table mm	Kw HP	A mm	B mm	C mm	D mm	E mm	Weight kg	Variants
N044230	1 - 30/32	CM3	110	350 x 350	110	50 - 630	1.1 1.5	1800	580	880	280	1210	290	2-speed motor
N044230VE	1 - 30/32	CM3	110	350 x 350	110	50 - 630	1.1 1.5	1800	580	880	280	1210	290	Electronic speed variator
N044230MR	1 - 30/32	CM3	110	350 x 350	110	50 - 630	1.1 1.5	1800	580	880	280	1210	290	Tapping system cooling

WODEX mro

Perfect ergonomics



List 2026

Test tool

GENERAL CATALOGUE

To buy any products of this FEIN catalogue contact our commercial office. Delivery time depends on the availability of our supplier, you will receive a confirmation of your order with the details of the delivery date.

The FEIN items included in our LINK26 catalogue, are ready to be delivered in 24 h.

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DRILLING MACHINES WITH MAGNETIC BASE

ITEM: KBE 32

The compact single-speed core drill KBE 32 is the most powerful in its class with performance of the highest precision and quality, thanks to the high magnetic holding force. Resistant for hole diameters up to 32 mm. Quick change system of the core bit without service keys. Internal engine wiring and cooling system. Advance knob mountable on both sides and safety differential switch. Excellent accessibility in confined spaces.



Tech. Code		N432032
Rated power consumption	W	1200
Rendered power	W	770
Speed under load	Rpm	450
No-load speed	Rpm	700
Crown tip Ø max	mm	32
HSS crown cutter Ø max	mm	32
Depth of drilling max with crown	mm	50
Hole cutters coupling		3/4" Weldon
Execursion	mm	90
Magnetic holding force	N	10.000
Dimension of magnet base	mm	175 x 80
Weight	kg	11

Supplied with:
Hand pump
Protection grid
Fixing strap
100 mm centering pin
Bottle holder
1 Allen key 5mm
1 Case

DRILLING MACHINES WITH MAGNETIC BASE

ITEM: KBC 36 MAGFORCE

NEW

Compact drilling unit for core drills with 1-speed magnetic base, extremely small and lightweight, with minimal dimensions for use in confined spaces in the workshop and on the building site.
High-performance brushless motor with left/right rotation and electronic speed control for all drilling operations (core and twist drills), reaming and countersinking.
Large mounting space under the drill shaft with a stroke of 46 mm.
Anti-tilt sensor and practical magnet holding force indicator for safe tool positioning.
Combination drive shaft with 1/2" square and 8 mm Allen key
Storage of the last selected RPM.
Maximum flexibility and mobility in use thanks to Lboxx transport system.



Tech. Code		N4319036
Rated input power	W	1200
Power output	W	680
Core cutter attachment		3/4" Weldon
Speed under load	Rpm	130 - 610
HSS core cutter Ø max	mm	36
Max. drilling depth with core bit	mm	35
Helix drill bit Ø max	mm	16
Tapping		M12
Max. countersinking Ø	mm	32
Angular footprint	mm	40
Dimension	mm	169 x 290
Stroke	mm	46
Magnetic holding force	N	10.000
Weight	Kg	8,5

Included:
1/2" ratchet
Depth stop extension1/2"
Coolant pump
Fastening strap
Chip hook
82 mm centring pin
Protection grid
Additional handle
5 mm Allen key
5 mm T-head Allen key
Plastic tool case (L-BOXX 238)

DRILLING MACHINES WITH MAGNETIC BASE

ITEM: KBM 50 UQW

NEW

Universal core drill with magnetic 2-speed base, lightweight and with an extremely wide stroke, left/right rotation, CM3 tool holder attachment and maximum functionality for flexible work in the workshop and on the building site.
Low weight thanks to compact design and high-performance motor for reliable and cost-effective work with electronic speed control.
Universal use for drilling with core and helical drills, tapping, countersinking and reaming.
High magnetic holding force with practical indicator for correct and safe positioning of the tool.
Last selected RPM memory. CM3 tool holder.



Tech. Code		N0521050
Rated power input	W	1200
Power output	W	610
Speed under load 1st gear	Rpm	130-260
Speed under load 2nd gear	Rpm	260-520
Tapping		M16
Countersinking Ø max	mm	50
Boring Ø max	mm	23
Helix drill Ø max	mm	23
Core drill attachment		3/4" Weldon
HSS core cutter, max. Ø	mm	40
Stroke	mm	145
Overall stroke	mm	315
Magnetic base dimensions	mm	195 x 90
Weight	Kg	15,7

Supplied with:
Metalworking fluid tank
Fastening belt
Chip hook
Centring pin
Protective grid
Extraction wedge
Case

CORDLESS MAGNETIC BASE DRILLS WITH 18 V BATTERY

ITEM: M18 FMDP-502C M18 FUEL

Two-speed M18 FMDP-502C drill with magnetic base for use with end mills or drill bits. The brushless POWERSTATE™ motor provides corded drilling performance with a strong magnet holding force on ¼" steel and can make 40 x 18 mm holes per battery charge. The intelligent REDLINK PLUS™ system provides advanced digital overload protection for the tool and battery. The REDLITHIUM-ION™battery, by monitoring the individual battery cells, optimises the durability and performance of the battery pack to deliver more tool run time. The AUTOSTOP™ sensor detects misalignment of the magnetic base compared to its original position and automatically stops the drill. Fast release 19 mm Weldon adapter (keyless). On board lubrication tank with magnet, easy to fix to the material, especially when drilling in vertical positions. Handle can be positioned for right or left hand usage.



Tech. Code		N05018
Battery capacity	Ah	5
Magnetic holding force	N	8890
Blade stroke length	mm	146
Max. solid drilling bit hole	mm	13
Max drilling capacity	mm	38
Max drilling depth	mm	50
Battery charge time	min	59
Battery type		Lithium
No-load speed	Rpm	400/690
Weight with battery	kg	13

Included:
2 batteries 5 Ah
Battery charger
Lubrication tank
Chuck 13 mm
Ejector pin
Safety strap
Case

DRILLING MACHINES WITH MAGNETIC BASE

ITEM: KBU 35 QW

NEW

Universal drill with crown drill bit and magnetic base with 1 speed, small dimensions and a very large stroke, with left and right-hand rotation and maximum functionality and flexibility.
Compact design and high-performance motor for high speed stability and reliable, cost-effective working.
Universal use for drilling with crown or helical drills, tapping, countersinking and reaming.
High magnetic holding force with practical indicator for safe tool positioning.
Anti-tilt sensor and storage of last selected speed.



Tech. Code		N05335QW
Rated power input	W	1100
Power output	W	550
Core drill attachment		3/4" Weldon
Speed under load	Rpm	130 - 520
HSS core cutter Ø max	mm	35
Max. drilling depth with core bit	mm	50
Tapping		M14
Max. countersinking Ø	mm	31
Stroke	mm	135
Overall stroke	mm	260
Magnetic holding force	N	10.000
Magnetic base dimensions	mm	175 x 80
Helix drill Ø max	mm	16
Max. boring Ø	mm	16
Weight	Kg	10,7

Supplied with:
Metalworking fluid tank
Fastening belt
Chip hook
Centring pin
Protective grid
Case

Related products

NEW

U-Power SAFETY FOOTWEAR

Tech. Code	EU Size	UK Size
K181744	44	10
K181745	45	10,5
K181746	46	11
K181747	47	12

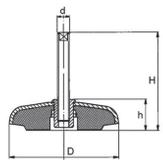
Product available in postcode K



ANTI-VIBRATION STANDS

ITEM: N1300

Zinc plated steel base, anti-vibration sole in anti-oil and anti-slip rubber compound, removable threaded shank complete with two hexagonal nuts and two galvanised steel washers, preserves machine tools from wear that can be accumulated over time and significantly increases noise damping, suitable for simple, fast and accurate positioning and levelling of machine tools.



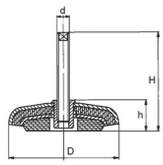


Tech. Code	D mm	d mm	H mm	h mm	Dynamic load kg max	Static load kg max
N130080	80	M12	80	27	max. 320	max. 900
N1300110	110	M14	125	32	max. 550	max. 1500
N1300140	140	M16	130	39	max. 750	max. 2000
N1300200	200	M20	175	62	max. 1450	max. 3600

ANTI-VIBRATION STANDS

ITEM: N1310

Zinc-plated steel base, anti-vibration sole in anti-oil and anti-slip rubber compound, with two stages of different density separated by a metal reinforcement.



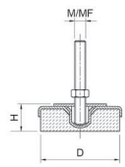


Tech. Code	D mm	d mm	H mm	h mm	Dynamic load kg max	Static load kg max
N131080R	80	M12	80	27	400	1200
N1310110R	110	M14	125	32	650	1900
N1310140R	140	M16	130	39	900	2850

ANTI-VIBRATION STANDS

ITEM: N1315

Self levelling and adjustable for height vibration-control mounts for machine tools and machineries. Zinc plated steel structure with lower surface in NBR 80 Shore, fine threaded square headed bolt, 1 nut and 1 washer. Base and spindle not assembled.





Tech. Code	D mm	H mm	M/MF mm	Shaft mm	Stat. load kg max
N1315080	80	45	12x1,25	100	700
N1315120	120	45	16x1,5	120	1000
N1315160	160	45	20x1,5	150	1500
N1315200	200	55	20x2,5	160	4000

Related products

WODEX COMBINATION WRENCHES IN FOAM

Tech. Code	Pieces	Module size mm
E000712	12	400 x 223,5 - 1/3 Horizontal position
E000716	16	400 x 447 - 2/3 Vertical position



The product is available in Chap. E

SAFETY SHIELDS FOR DRILLS

ITEM: N1040

Impact-proof transparent plastic shield. Chrome-plated attachment.

Tech. Code	Ø mm	Band mm	Type
N1040200	200	130	-
N1040200M	200	130	With micro-switch
N1040300	300	130	-
N1040300M	300	130	With micro-switch



ATTACHMENTS FOR SAFETY SHIELDS

ITEM: N1010

Chrome-plated side attachment with lamp holder hole.

Tech. Code	For shields Ø mm
N1010200500	200-500
N10105501000	550-1000



ITEM: N1015

With micro-switch. Chrome-plated universal attachment.

Tech. Code	For shields Ø mm
N1015200500	200-500
N10155501000	550-1000



SAFETY SHIELDS FOR LATHES

ITEM: N1020

Impact-proof transparent plastic.

Tech. Code	Ø mm	Band mm
N1020300	300	150
N1020350	350	150
N1020400	400	180
N1020450	450	190

Tech. Code	Ø mm	Band mm
N1020500	500	200
N1020550	550	240
N1020650	650	265
N1020800	800	300



ITEM: N1025

Polycarbonate shield, steel structure with 30 mm Ø hole for attachment to the lathe.

Tech. Code	Ø mm	Band mm
N1025300	300	240
N1025400	400	240



SAFETY SHIELDS FOR GRINDING WHEELS

ITEM: N1035

Slotted bracket for quick mounting on any grinding wheel, friction joint for perfect positioning. Shield with the optical area made of replaceable impact-proof plastic and of glass.

Tech. Code	Shield mm
N1035115110	115 x 110



PARALLEL LATHE

ITAMA

ITEM: 200/15 L/VE

TECHNICAL FEATURES

- Spindle speeds: infinite
- Revolutions per minute: 30-3000 Rpm
- Bar passage: 52 mm
- Spindle taper bore CM6
- Spindle taper: CAM-LOCK D1
- Tailstock (standard): Ø 200 mm
- Live centre quill: Ø 60 mm
- Tailstock stroke: 120 mm
- Tapered quill bore: CM4
- Cross travel: 230 mm
- Tool carriage stroke: 140 mm
- Max. tool section: 20x20 mm
- Longitudinal feeds: 0.05-1.70 mm/revolution
- Transverse feeds: 0.025-0.85 mm/revolution
- Metric threads: 0.2-14 mm
- Inch threads: 72-2 tpi
- Spindle motor power: 5.5 kW
- Electric pump motor power: 0.10 kW
- Overall dimension (W x D x H): 2100 x 1200 x 1800 mm
- Weight: 1800 kg

ACCESSORIES SUPPLIED:

- Refrigeration system with electric pump
- Spindle and turret screens
- Inverter with 2 mechanical ranges (Rpm 30-550 / Rpm 160-3000)
- Potentiometer installed in ergonomic position
- 3-axis visualiser with digital readout of spindle rpm on display
- Self-centring chuck with 3 jaws Ø 200 mm
- Platform with 4 independent jaws Ø 250 mm
- Quick-change turret complete with 4 'B' type tool holders
- Fixed steady rest, movable steady rest
- 4-position star stop on longitudinal carriage
- Fixed live centre, swivelling tailstock
- Lamp for illuminating the working area
- Foot brake
- Box with service keys

NEW

Tech. Code		N14921500
Height of centres	mm	210
D. max. rotating on trolley	mm	250
Max. rotating diameter on pallet	mm	420
D. max. rotating in recess	mm	590
Bench width	mm	250
Recess length	mm	260
Distance between centres	mm	1500



Related products

WODEX HEXAGONAL T-HANDLE WRENCHES WITH FIXED SHAFT

Tech. Code	⬢ mm
E264308	8
E264309	9
E264310	10



Products are available in CAP E

Landoil

ART. H204615025



Recommended for

LATHES

Landoil

ART. H2031220025



Recommended for

GEAR GROUPS

Landoil

ART. H2016680025



Recommended for

MACHINE TOOL GUIDE

N

BAND SAWS INVERTER - SNIP 105MI

SNIP 105 MI

ITEM: SNIP 105MI

Powerful 1800 watt motor. Cutting angle adjustable from 0° to 45° right. Automatic belt tensioning. Electronic speed variator with torque control. Oversized steel clamping vice and sliding blade guide.
The use of coolant is not recommeded.

Tech. Code	Tension V	Blades length mm	Cutting capacity	Round Ø mm	Rectectangle mm	Square mm	Weight kg
N22911140	230	1140 x 13 x 0,65	0° 45°	100 55	100 x 105 55 x 60	90 x 90 45 x 45	19



ITEM: BASIC UNIFLEX

Blade width 13 x 0.65 mm

Length mm	Tooth pitch 6/10	Tooth pitch 8/12
1140	**A70121140610**	**A70121140812**

BAND SAWS INVERTER - SNIP 125MI

SNIP 125 MI

ITEM: SNIP 125MI

Powerful 1800 watt motor. Cutting angle adjustable from 0° to 60° right. Automatic belt tensioning. Electronic speed variator. Gear reducer with long life grease. Metal clamping vice and sliding blade guide.
Arch locking system.

Tech. Code	Tension V	Blades length mm	Cutting capacity	Round Ø mm	Rectectangle mm	Square mm	Weight kg
N22931440	230	1440 x 13 x 0,65	0° 45° 60°	125 102 60	130 x 115 90 x 110 60 x 90	115 x 115 90 x 90 60 x 60	19



ITEM: BASIC UNIFLEX

Blade width 13 x 0.65 mm

Length mm	Tooth pitch 6/10	Tooth pitch 8/12
1440	**A70121440610**	**A70121440812**

BAND SAWS INVERTER- SNIP 176MI

SNIP 176 MI

ITEM: SNIP 176MI

Powerful 1800 watt motor. Cutting angle adjustable from 0° to 45° right. Automatic belt tensioning. Electronic speed variator. Gear reducer with long life grease. Metal clamping vice and sliding blade guide. Arch locking system. Base in die-cast aluminum. Cutting angle adjustment. Self-lubricating bushings. The use of coolant is not recommended.

Tech. Code	Tension V	Blades length mm	Cutting capacity	Round Ø mm	Rectectangle mm	Square mm	Weight kg
N22961440	230	1440 x 13 x 0,65	0° 45°	150 75	150 x 125 70 x 50	125 x 125 50 x 50	35



ITEM: BASIC UNIFLEX

Blade width 13 x 0.65 mm

Length mm	Tooth pitch 6/10	Tooth pitch 8/12
1440	**A70121440610**	**A70121440812**

N

STAND FOR INVERTER BAND SAW MACHINES SNIP 105MI - 125MI - 176MI

ITEM: N2299

Foldable moving stand for portable band saw machines, can be positioned in three different heights. Can be used as a trolley, thanks to the two rubber wheels. A safety locking system fix the stand to prevent injuries to the operator. Wheels are equipped with brake, for maximum stability.



Tech. Code	Load capacity kg	Weight kg
N229900	50	10

CUT-OFF BENCH SAWS FOR PUNCHES

ITEM: DIAMANTE ABZ

Particularly suitable for cutting pins, punches, columns and guide bushings, cobalt steel bars, special profiles in stainless steel, aluminium, brass, copper, nylon, etc... It does not leave burrs and does not alter the hardening treatment, 1HP motor /0.75kW, 400V three-phase power supply, on request also 230V single-phase power supply. High-speed abrasive disc Ø 150 x 1-1.6 mm with 20 mm hole, rotation speed around 6000 rpm, graduated rotating vice for cuts up to 45°. Starter control in the handle by means of a low voltage microswitch, enveloping casing for total protection of the abrasive disc.



Tech. Code	Power supply	Electric motor	Ø Disc mm	Rotating speed rpm
N2310150	400V three-phase	1HP/0.75kW	150 x 1-1,6 x 20	6000

Related products

GUABO READY-TO-USE METALWORKING FLUID FOR BAND SAWS

Tech. Code	Quantity L	Specific weight at 20°C kg/L	Appearance
H005025	25	1,0	Translucent



The products are available in chapter H

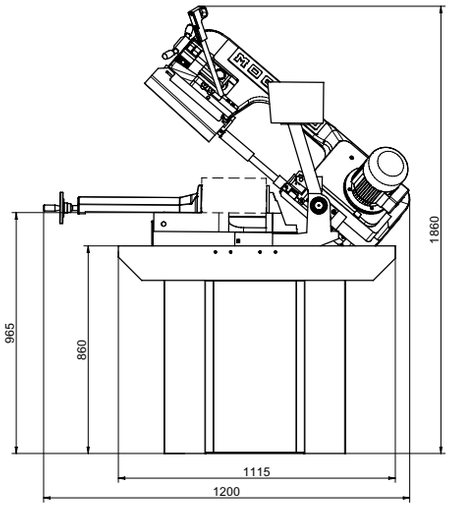
MANUAL BAND SAW MACHINES

ITEM: 280 M

Small and robust band saw.
- Particularly suitable for use in carpentry and workshops which need to cut in small series
- Vice support group, adapted to the cutting capacities, studied to contain the costs of the machine while maintaining its reliability
- Low voltage electrical system according to CE regulations
- Available only with high control panel
- Worm screw reducer
- Possibility of cutting up to 60° right
- Two-speed three-phase motor
- Worktop height 965 mm
- Hardened and ground gears

Product Made in Italy

STANDARD ACCESSORIES
- Millimetre scale 0-500 mm with stop block
- Infeed roller
- Workpiece discharge chute





Tech. Code		N2327280M
Band dimension	mm	2450 x 27 x 0,9
Tension	V	400
Power	Kw	0,5 - 0,7
Cutting speed	m/min	35 - 70
Weight	kg	240

Products are available in CAP. N

		Cutting capacity mm
○	0° / 45° / 60°	220 / 160 / 95
□	0° / 45° / 60°	220 / 155 / 95
▭	0° / 45° / 60°	260 x 140 / 160 x 140 / 95 x 95

Standard colours: Red upper part RAL 3002 - Black lower part RAL 7022.
BLUE RAL 5015 on request at an additional cost.

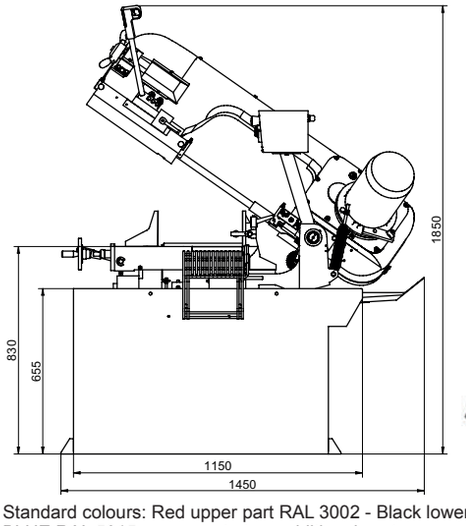
MANUAL GRAVITY FEED BANDSAW MACHINES

ITEM: 330 M + SA

Manual gravity feed band saws.
- Cutting capacity up to 60° right
- Suitable for cutting round, flat and medium size profiles
- High cutting precision and absolute reliability
- Hardened die-cast aluminium blade unit for flexibility and strength
- Low voltage electrical system compliant with all EC standards
- Can only be supplied with a top control panel
- Controlled down feed device included (art.SA)

Product Made in Italy

STANDARD ACCESSORIES
- Millimetre scale 0-500 mm with stop block
- Infeed roller
- Workpiece unloading chute
- Blade cleaning brush





Tech. Code		N2326330
Band dimension	mm	3010 x 27 x 0.9
Tension	V	400
Power	Kw	0.9-1.5
Cutting speed	m/min	35-70
Weight	kg	345

		Cutting capacity mm
○	0° / 45° / 60°	260 / 200 / 120
□	0° / 45° / 60°	240 / 190 / 115
▭	0° / 45° / 60°	330 x 120 / 200 x 130 / 120 x 100

Standard colours: Red upper part RAL 3002 - Black lower part RAL 7022.
BLUE RAL 5015 on request at an additional cost.

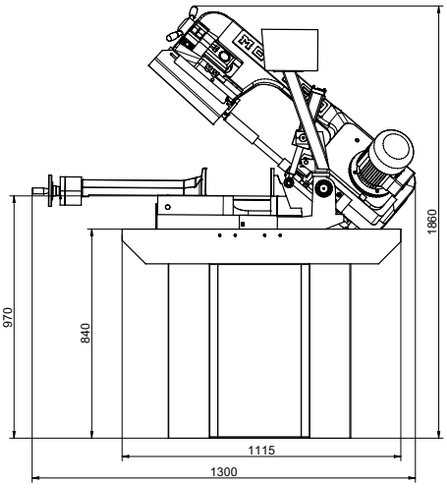
CE

ITEM: 280 SA E

Semi-automatic band saw machine.
- Cutting capacity up to 60° right
- Blade unit and hydraulic vice
- Touch probe-controlled rapid up / down movement and infinitely adjustable cutting feed
- Rear blade unit lifting cylinder
- Fitted with double cycle start safety button and low voltage electrical system compliant with EC standards
- Can only be supplied with a top control panel
- Two speed three-phase motor

Product Made in Italy

STANDARD ACCESSORIES
- Millimetre scale 0-500 mm with stop block
- Workpiece unloading chute





Tech. Code		N2328280SEM
Band dimension	mm	2450 x 27 x 0.9
Tension	V	400
Power	Kw	0.5 - 0.7
Cutting speed	m/min	35 - 70
Weight	kg	290

Standard colours: Red upper part RAL 3002 - Black lower part RAL 7022.
BLUE RAL 5015 on request at an additional cost.

		Cutting capacity mm
○	0° / 45° / 60°	220 / 160 / 90
□	0° / 45° / 60°	200 / 140 / 90
▭	0° / 45° / 60°	250 x 150 / 140 x 140 / 90 x 90

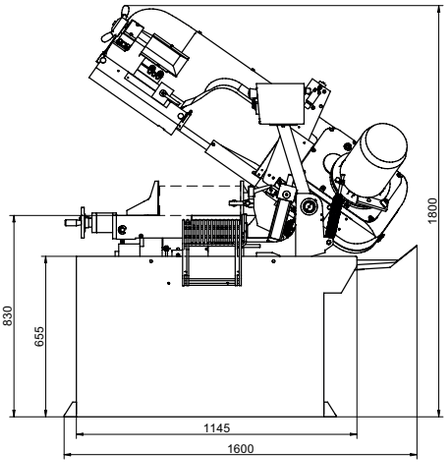
CE

ITEM: 330 SA E

Semi-automatic band saw machine.
- Cutting capacity of up to 60° right
- Hydraulic blade unit and vice
- Touch probe-controlled rapid up / down movement and infinitely adjustable cutting feed
- Rear blade unit lifting cylinder
- Double cycle start safety button and low voltage electrical system compliant with EC standards
- Can be supplied with a top or bottom control panel (to be specified when placing the order)
- Two speed three-phase motor

Product made in Italy

STANDARD ACCESSORIES
- Millimetre scale 0-500 mm with stop block
- Workpiece unloading chute
- Blade cleaning brush





Tech. Code		N2329330SEM
Band dimension	mm	3010 x 27 x 0.9
Tension	V	400
Power	Kw	0.9 - 1.5
Cutting speed	m/min	35 - 70
Weight	kg	394

Standard colours: Red upper part RAL 3002 - Black lower part RAL 7022.
BLUE RAL 5015 on request at an additional cost.

		Cutting capacity mm
○	0° / 45° / 60°	260 / 200 / 120
□	0° / 45° / 60°	240 / 190 / 115
▭	0° / 45° / 60°	330 x 120 / 200 x 130 / 120 x 100

BENCH GRINDERS 230V

ITEM: N3102



Industrial bench grinder Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheels not included.

Tech. Code	Grinding wheels mm	Electric motor	RPM	HP	W	Weight kg	Model column
N3102150	150 x 20 x 20	Single-phase 230V	2800	0,5	375	8	-
N3102200	200 x 25 x 16/20	Single-phase 230V	2800	0,9	675	16	A1

BENCH GRINDERS 400V

ITEM: N3104



Industrial bench grinder Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheel to be ordered separately.

Tech. Code	Grinding wheels mm	Electric motor	RPM	HP	W	Weight kg	Model column
N3104150	150 x 20 x 16	Three-phase 400 V	2800	0,5	375	11	A1
N3104200	200 x 25 x 20	Three-phase 400 V	2800	1	750	17	A2

COMBINED BENCH GRINDERS 230V

ITEM: N3106



Industrial combined bench grinder (GRINDING WHEEL/BRUSH) Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheel and brushes to be ordered separately.

Tech. Code	Grinding wheels Brushes mm	Electric motor	RPM	HP	W	Weight kg	Model column
N3106150	150 x 20 x 20 100 x 12 x 12	Single-phase 230 V	2800	0,5	375	7,5	-

COMBINED BENCH GRINDERS 400V

ITEM: N3108



Industrial combined bench grinder (GRINDING WHEEL/BRUSH) Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheel and brushes to be ordered separately.

Tech. Code	Grinding wheels Brushes mm	Electric motor	RPM	HP	W	Weight kg	Model column
N3108150	150 x 20 x 16	Three-phase 400 V	2800	0,5	375	12,1	A1
N3108200	200 x 25 x 20	Three-phase 400 V	2800	1	750	18,8	A2

BENCH GRINDERS IN CAST IRON 400 VOLT

ITEM: N3103



Bench grinders made in Italy cast iron for intense and continuous industrial use. Motors made with low loss magnetic laminations for very high efficiency in any situation. Flanges turned on both sides to ensure maximum parallelism when coupling the abrasive wheel.
The single-phase version for the Ø 200 is available on request.

Grinding wheels not included.

Tech. Code	Grinding wheels mm	Motor	RPM	HP	W	Weight kg
N3103200	200 x 25 x 20	Three-phrase 400V	2800	1	750	25
N3103300	300 x 35 x 30	Three-phrase 400V	1400	2,5	1800	65

ECOLOGICAL BENCH GRINDERS IN ALUMINUM 400 VOLT

ITEM: N3116

Industrial bench grinders Made in Italy designed with a view to fully comply with workplace health and safety regulations, complete with column and integrated vacuum system.

Grinding wheels to be ordered separately.

Tech. Code	Grinding wheels mm	Electric motor	RPM	HP	W	Weight kg
N3116200	200 x 25 x 20	Three-phase 400 V	2800	1	750	57



COMBINED ECOLOGICAL BENCH GRINDERS IN ALUMINUM 400 VOLT

ITEM: N3118

Industrial combined bench grinder (grinding wheel + brush) Made in Italy designed with a view to fully comply with workplace health and safety regulations, complete with column and integrated vacuum system.

Grinding wheel and brushes to be ordered separately.

Tech. Code	Grinding wheels Brushes mm	Electric motor	RPM	HP	W	Weight kg
N3118200	200 x 25 x 20	Three-phase 400 V	2800	1	750	59,2



ECOLOGICAL GRINDERS IN CAST IRON 400 VOLT

ITEM: N3105

Cast-iron grinders made in Italy for intensive and continuous industrial use, complete with base and suction system. Motors made with low-loss magnetic laminations for very high efficiency in any situation. Flanges turned on both sides to ensure maximum parallelism when coupling the abrasive wheel.
Single-phase version for Ø 200 available on request.

Grinding wheels not included

Tech. Code	Grinding wheels mm	Motor	RPM	HP	W	Weight kg
N3105200	200 x 25 x 20	Three-phrase 400V	2800	1	750	64
N3105300	300 x 35 x 30	Three-phase 400V	1400	2,5	1800	124



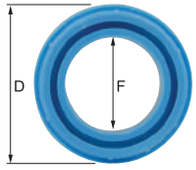
BUSH FOR GRINDING WHEELS

ITEM: N3121

Plastic bush for grinding wheel bore.

Tech. Code	D x F mm
N31212012	20 x 12
N31212013	20 x 13
N31212016	20 x 16

Tech. Code	D x F mm
N31212520	25 x 20
N31213220	32 x 20
N31213225	32 x 25



COLUMN FOR BENCH GRINDERS

ITEM: N3110

Sturdy column in pressed steel fitter with removable water reservoir for tool cooling.

Tech. Code	MODEL	Dimension mm	Hole interaxis mm	Weight kg
N3110A1	A1	370 x 360 x 790h	145 x 120	26
N3110A2	A2	400 x 370 x 760h	180 x 130	33
N3110VR	Cooling tray	-	-	-



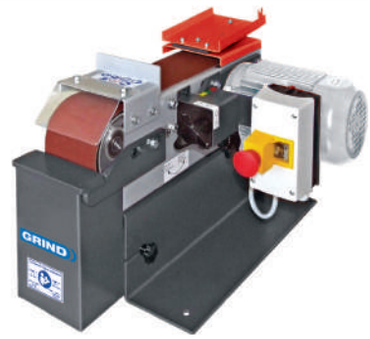
BENCH BELT SANDERS

ITEM: N3200

Industrial bench belt sanders. Made in Italy. Engine induction with thermal protection bimetallica which protects from any overloading ensuring an almost unlimited process of the sander. Quick substitution of the abrasive belt.

Belts to be ordered separately.

Tech. Code	Belt mm	Motor	HP	Kw	RPM	m/s	Weight kg
N320003	100 x 1000	Three-Phase 400 V	1,5	1,1	2800	19	38



TILTING BELT SANDERS

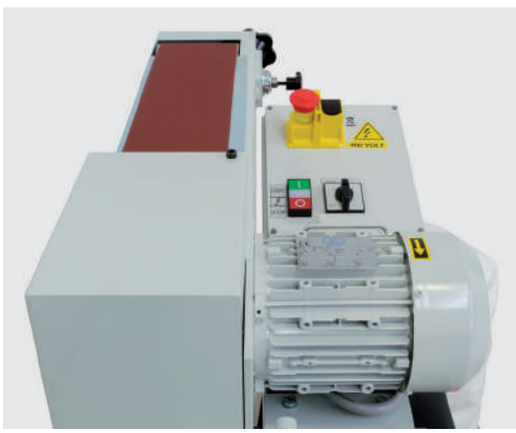
ITEM: N3205

Industrial belt sanders. Made in Italy, double speed engine induction (N320503BT), arm orientated 0° a 360°, pulley drive loader, complete with a low voltage control unit of 24 volts (N320503BT) Emergency stop button. Quick substitution of the abrasive belt.

Belts to be ordered seperately

Tech. Code	Belt mm	Motor	HP	Kw	RPM	m/s	Weight kg
N320503	120 x 1500	Three-Phase 400 V	1,1	0,8	2800	14	87
N320503BT	120 x 1500	Three-Phase 400 V	0,8 - 1,1	0,6 - 0,8	1400 - 2800	14 - 28	88







INDUSTRIAL BELT SANDERS

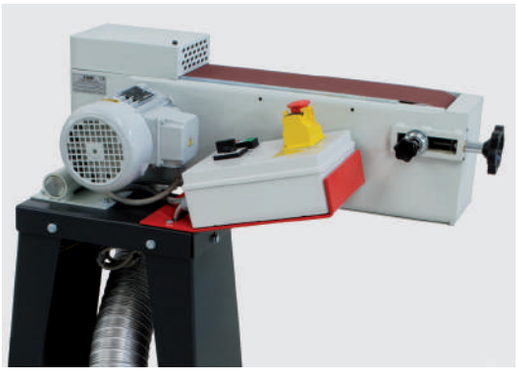
ITEM: N3210

Industrial belt sanders. Made in Italy. Designed in the total respect of Health and Safety regulations of the working envioronment. Intergrated with a complete vacume cleaner. Adjustable double speed drive 0° a 360°, pulley wheel, full control of commands with a low voltage control unit of 24 volts. Emergency stop button. Quick substitution of the abrasive belt.



Belts to be ordered seperately.

Tech. Code	Belt mm	Motor	HP	Kw	RPM	m/s	Weight kg
N321003BT	120 x 1500	Three-Phase 400 V	0,8 - 1,1	0,6 - 0,8	1400 - 2800	14 - 28	38





Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10



The products are available in chapter K

Related products

NEW

DELTAPLUS POLYCARBONATE GOGGLES

Tech. Code	Filter	Gradation	Optical class
K400710	2C - UV filter	1.2 - Clear lens	Class 1



Products are available in the CAP. K



Milwaukee

GREATER POWER AND PRODUCTIVITY FOR PROFESSIONALS

Browse the catalog

CORDLESS SCREWDRIVER DRILLS BATTERY OPERATED 12V

BOSCH

ITEM: GSR 12V-15 PROFESSIONAL

At just 169 mm, they are the most compact design in their class.
The 2-speed gearbox ensures a powerful 30 Nm when drilling (up to 19 mm) and screwdriving (up to 7 mm). The Bosch Premium lithium-ion technology provides a 400% longer battery life. The Bosch Electronic Cell Protection (ECP) protects the battery against overload, overheating and total discharge. Bosch Hyper Charge: due to the rapid charging process, the batteries are charged to 75% after just half the charge time. No memory effect: the battery can be charged at any time regardless of the charging state, without damaging the cells. Motor brake for precise work when driving rows of screws.



Tech. Code		N402012V
Battery voltage	V	12
No-load speed (speed 1/speed 2)	Rpm	0-350/1,300
Chuck clamping range min./max.	mm	1/10
Max. screw Ø	mm	7
Max. drilling Ø - Steel	mm	10
Max. drilling Ø - Wood	mm	19
Max. hard/soft tightening torque	Nm	30/15
Tightening torque settings		20 + 1
Weight (with battery)	kg	0.95

Included:
2 lithium batteries 2 Ah
Charger GAL 12V-20
L-BOXX inlay

ITEM: GSR 12V-35 PROFESSIONAL

The GSR 12V-35 PROFESSIONAL screwdriver drills is the most compact and offers the best performance in the 12V category. Its extremely compact design and excellent performance-size ratio provides optimum handling, especially when working over head or in tight places. The brushless motor along with the Electronic Motor Protection system prevents overload and ensures a longer tool lifetime. 2 speed, auto-lock, belt clip/hook, bit holder, charging status display, Electronic Cell Protection, LED light, right/left-handed rotation. Compatible with all Bosch Professional 12 Volt batteries and chargers (Professional 12V System line).



Tech. Code		N401212
Battery tension	V	12
Battery capacity	Ah	3
Battery type		Lithium
No-load speed (1°/2° gear)	Rpm	0/460 - 0/1750
Ø max screws	mm	8
Ø Max. drilling - Wood	mm	32
Max. drilling Ø - Steel	mm	10
Tightening torque for hard/elas. coupling max	Nm	20/35
Weight (with battery)	kg	0.95
Tightening torque settings		20 + 1

Included:
2 GBA 12V 3 Ah batteries
GAL 12V-40 rapid charger
L-BOXX carrying case

CORDLESS SCREWDRIVERS 12V

BOSCH

NEW

ITEM: GSR 12V-35 HX

Brushless screwdriver offering the best compromise between compactness and performance with easy access to confined spaces.
Lockable 1/4" bit holder interface for easy bit replacement.
With a maximum speed of 1750 rpm, it is the fastest 2-speed cordless screwdriver in the 12 V category.
Compatible with all Bosch Professional 12 V and 10.8 V battery chargers.



Tech. Code		N444218
Battery voltage	V	12
Battery capacity	Ah	3
Battery type		Li-ion
Max. drilling diameter - wood	mm	32
Max. drilling diameter - Steel	mm	10
No load rpm (1st/2nd speed)	Rpm	0 - 460 / 0 - 1.750
Max. screw Ø	mm	8
Max. torque	Nm	20/35
Torque adjustment positions		20+1
Weight	Kg	0,57

Included:
2 x 12V 3 ah batteries
Rapid charger
1 belt clip
1 bit holder
L-BOXX carrying case

12V CORDLESS SCREWDRIVER DRILLS

Milwaukee

NEW

ITEM: M12 BLDDRC-202C

Extremely compact drills (137 mm) for use in tight spaces. Best size/power ratio with 40 Nm. Very strong 10 mm chuck. Mechanical clutch with 13 selectable settings. POWERSTATE brushless motor offers excellent performance in compact dimensions. REDLINK PLUS™ electronics and REDLITHIUM™ battery pack offer superior performance and durability and advanced overload protection.
Compatible with all M12™ batteries.



Tech. Code		N402412
Battery voltage	V	12
Battery capacity	Ah	2
Battery type		Li-ion
Max. drilling diameter - wood	mm	40
Max. drilling diameter - Steel	mm	10
Max. torque	Nm	40
Keyless chuck	mm	10
Speed settings		2
Speed 1	Rpm	0-450
Speed 2	Rpm	0-1550
Weight	Kg	0,7

Included:
2 x 12 V 2 Ah batteries
Battery charger
Case

CORDLESS SCREWDRIVER DRILLS BATTERY OPERATED 12V

ITEM: M12 BD-202C

M12 BD-202C screwdriver drills: compact with 175 mm in length it is ideal for working in confined spaces.
REDLINK™ electronics protect the tool and battery against overcharging by monitoring individual cells. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. 1/4" hex connection. Ergonomic handle to ensure greater control and a secure grip.
12V platform works with all Milwaukee M12 batteries.



Tech. Code		N402512
Battery tension	V	12
Battery capacity	Ah	2
Battery type		Li-Ion
Ø Max. drilling - Wood	mm	22
Ø Max. drilling - Metal	mm	10
Torque max	Nm	30
Coupling		¼" Hex
Speed settings		2
Speed 1	Rpm	0-400
Speed 2	Rpm	0-1500
Weight (with battery)	kg	1

Included:
2 batteries 12V da 2 Ah
Battery charger
Case

CORDLESS SCREDRIVER DRILLS BATTERY OPERATED 12V

ITEM: M12 FDD2-202X

Cordless screwdriver drills M12 FDD2-202X, FUEL™ technology, equipped with a new generation POWERSTATE™ Brushless motor, REDLINK PLUS™ electronics and REDLITHIUM™ battery, which offer advanced protection against overload, exponentially increasing the power tool's performance. Extremely compact design (151 mm) for accessing confined spaces, with an excellent torque/size ratio (45 Nm torque). Heavy Duty 13mm metal chuck. Mechanical clutch with 13 settings.
Compatible with all M12™ platform batteries.



Tech. Code		N402912
Battery tension	V	12
Battery capacity	Ah	2
Battery type		Li-ion
Max drilling Ø - Wood	mm	35
Max drilling Ø - Steel	mm	13
Torque max	Nm	37
Quick clamping chuck	mm	13
Speed settings		2
Speed 1	Rpm	0-450
Speed 2	Rpm	0-1550
Weight	kg	1,1

Included:
2 12V 2Ah batteries
Battery charger
Heavy Duty Case

ITEM: M12 FDD-202X

Screwdriver drills M12 FUEL™ with interchangeable chucks, for maximum versatility. REDLINK™ electronics protect the tool and battery against overcharging by monitoring individual cells. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. 4 interchangeable chucks for multiple applications: self-locking metal 10 mm, ¼″ hex 6 mm, with angle drive ¼″ hex attachment, off-centre attachment ¼″ hex. Compact (130 mm length) and ergonomic. The POWERSTATE™ brushless motor delivers up to 34Nm of torque. Magnetic holder for bits. Works with all M12™ batteries.



Tech. Code		N403112
Battery tension	V	12
Battery capacity	Ah	2
Battery type		Li-ion
Max drilling Ø - Wood	mm	28
Max drilling Ø - Steel	mm	10
Torque max	Nm	34
Speed settings		2
Speed 1	Rpm	0-400
Speed 2	Rpm	0-1600
Weight	kg	0,9

Included:
2 12V 2Ah batteries
Battery charger
Heavy Duty Case

12V CORDLESS IMPACT SCREWDRIVER DRILLS

NEW

ITEM: M12 BLPDRC-202C

Extremely compact brushless impact screwdriver, perfect for use in tight spaces (only 142 mm).
10 mm metal chuck guarantees durability, quick change of accessories and excellent grip.
Mechanical clutch with 13 settings.
The intelligent REDLINK PLUS™ system provides advanced digital protection against tool and battery overload, improving tool performance under load. The REDLITHIUM™ battery pack offers superior battery pack construction for increased efficiency in terms of range and durability. Works with all Milwaukee M12 batteries.



Tech. Code		N419112
Battery voltage	V	12
Battery capacity	Ah	2
Battery type		Li-Ion
Max. drilling diameter - Metal	mm	10
Max. drilling diameter - wood	mm	32
Max. torque	Nm	40
Keyless chuck	mm	10
Speed 1	Rpm	0-450
Speed 2	Rpm	0-1.550
Weight	Kg	0,93

COMPACT IMPACT SCREWDRIVERS

NEW

ITEM: M12_FCIWF12G3-502X

Compact and lightweight impact screwdriver, weighs 1 kg and is just over 12 cm long.
Exceptional speed: 3000 rpm.
4 DRIVE CONTROL modes for changing speed directly from the tool.
By pressing the switch, the speed can be changed quickly.
Works with all MILWAUKEE® M12™ batteries.



Tech. Code		N404112
Battery voltage	V	12
Battery capacity	Ah	5
Battery type		Lion
Max. torque	Nm	271 / 406 / 542 / 20
No load speed	Rpm	0-930/ 0-2100/ 0-3000/ 0-1300
Stroke frequency	Bpm	0-1500 / 0-3000 / 0-3300 /-
Attachment		½" square
Weight with battery	Kg	1,5

Included:
2 batteries 5 ah
1 Charger
1 HeavyDuty case

BATTERY RATCHETS 12V

ITEM: M12 IR-201B 3/8

Powerful and fast M12 IR-201B ratchet with a torque of 47 Nm and 250 Rpm. Compact head, ideal for working in confined spaces.
Variable speed switch for better control in different types of applications.
REDLINK™ electronics protect the tool and battery against overload.
The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration.
Works with all Milwaukee M12 batteries.



Tech. Code		N407318
Battery tension	V	12
Battery capacity	Ah	2
Battery type		Li-Ion
Coupling		3/8 square
Handle circumference	mm	45
Torque max	Nm	47
Length	mm	274
Head profile	mm	20
No-load speed	Rpm	0-250
Weight (with battery)	kg	0,9

Included:
Battery 12V of 2 Amp
Battery charger
Bag

CORDLESS ANGLED IMPACT WRENCHES BATTERY-OPERATED 12V

ITEM: M12 BRAID-0

Extremely compact impact wrenches with angled head, ideal for tight spaces. Only 287 mm long with compact angle head and only 35.6 mm diameter.
1/4" hexagonal connection with quick insert change. REDLINK™ electronics offer superior battery pack construction, electronics and consistent performance to deliver more range and more effectiveness over the life of the battery. 60 Nm of torque - maximum performance, maximum compactness. Works with all Milwaukee® M12™ batteries.



Tech. Code		N418712
Battery voltage	V	12
Battery capacity	Ah	2
Battery type		Li-Ion
Impact rate	Bpm	0-3300
Max. tightening torque	Nm	68
No-load speed	Rpm	0-2425
Weight	kg	1,2

CORDLESS SCREWDRIVERS 18V

ITEM: GSR 18V-65

NEW

Drill for the most demanding drilling applications thanks to the improved torque of 63 Nm compared to previous models.
Compact and manoeuvrable in tight spaces, with a head length of only 166 mm.
Switchable KickBack Control allows the user to maintain control and work safely
Maximises illumination of the work area thanks to two integrated lights
Powerful performance thanks to the robust brushless motor.



Tech. Code		N425618
Battery voltage	V	18
Battery capacity	Ah	4
Battery type		Lithium-ion
No load rpm (1st/2nd speed)	Rpm	0 - 550 / 0 - 2.100
Max. drilling diameter - wood	mm	35
Max. drilling diameter - Steel	mm	10
Tightening torque for hard/elastic coupling max.	Nm	31/63/76
Weight	Kg	1,06

Included:
2 x 4 Ah Procore batteries
1 charger
1 Heavy Duty case

CORDLESS DRILL DRIVERS 18V

ITEM: M18 BLDDRC-202C

Compact drill driverw only 145 mm long equipped with brushless motor. Improved torque/size ratio up to 60 Nm.13 mm metal chuck that ensures exceptional grip on bits or inserts.REDLINK™ electronics protect the tool and battery against overcharging by monitoring individual cells. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. Works with all Milwaukee M18 batteries.



Tech. Code		N408518
Battery voltage	V	18
Battery capacity	Ah	2
Battery type		Li-Ion
Ø Max drilling - Wood	mm	52
Ø Max drilling - Metal	mm	13
Max. torque	Nm	60
Self-tightening chuck	mm	13
Speed 1	Rpm	550
Speed 2	Rpm	1700
Weight	kg	1,2

Included:
2 x 18V 2.0 Ah batteries
Battery charger
Carrying case
Reversible metal belt hook

CORDLESS IMPACT SCREWDRIVERS 18V

ITEM: GSB 18V-25

Extremely versatile cordless power tool. Electronic functions protect the motor and extend battery life.
Compatible with all Bosch 18 V batteries and chargers.

Tech. Code		N415618
Battery voltage	V	18
Battery capacity	Ah	2
Battery type		Li-Ion
No load rpm (1st, 2nd speed)	Rpm	0 - 440 / 0 - 1.650
Tightening torque (soft/hard/max.)	Nm	21/56
Max. screw Ø	mm	10
Max. drilling diameter - wood	mm	35
Max. drilling diameter - Steel	mm	13
Max. drilling diameter - Masonry	mm	13
Weight	Kg	1,2

Included::
2 x 18V 2 Ah batteries
1 charger
L-BOXX carrying case



CORDLESS IMPACT SCREWDRIVERS 18V

NEW

ITEM: GSB 18V-65

Compact and robust impact drill for demanding screwdriving jobs, thanks to the improved torque of 65 Nm.
Compact and manoeuvrable in tight spaces, with a head length of only 175 mm.
The switchable KickBack Control allows the user to maintain control and work safely.
Maximises illumination of the work area thanks to the two integrated lights.

Tech. Code		N425918
Battery voltage	V	18
Battery capacity	Ah	4
Battery type		Lion
No load rpm (1st/2nd speed)	Rpm	0 - 550 / 0 - 2.100
Tightening torque for hard/elastic coupling max.	Nm	-/-/76 Nm
Max. screw Ø	mm	10
Max. drilling diameter - wood	mm	35
Max. drilling diameter - Steel	mm	13
Max. drilling diameter - Masonry	mm	13
Weight	Kg	1.12 (without battery pack)

Included:
2 Procore 18V 4 ah batteries
Rapid charger
L-BOXX carrying case



DRILL DRIVERS WITH PERCUSSION BATTERY OPERATED 18V

ITEM: M18 BLPDRC-402C

Compact percussion drills only 145 mm long equipped with brushless motor. Improved torque/size ratio up to 60 Nm.13 mm metal chuck that ensures exceptional grip on bits or inserts.REDLINK™ electronics protect the tool and battery against overcharging by monitoring individual cells. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. Works with all Milwaukee M18 batteries.

Tech. Code		N418118
Battery voltage	V	18
Battery capacity	Ah	4
Battery type		Li-Ion
Ø Max drilling - Wood	mm	52
Max drilling Ø - Metal	mm	13
Max. torque	Nm	60
Self-tightening chuck	mm	13
Speed 1	Rpm	550
Speed 2	Rpm	1700
Weight	kg	1,4

Included:
2 18V 4.0 Ah batteries
Battery charger
Heavy duty case
Reversible metal belt hook



ITEM: M18 FPD3-502X

Impact wrenches with 158 Nm torque which allows you to operate even in the most demanding applications. Compact with its 175 mm it allows you to access even the tightest spaces.The AUTOSTOP™ function protects the operator from over-rotation. The mechanical clutch allows the use of a wide range of sizes and types of screws.
FUEL™ technology redefines battery-powered power tools:
The brushless motor, REDLINK PLUS™ electronics and REDLITHIUM™ battery pack offer exponential performance and durability.
Works with all M18™ MILWAUKEE® batteries.

Tech. Code		N418918
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-Ion
Ø Max drilling - Wood	mm	89
Max drilling Ø - Metal	mm	16
Ø Max drilling - Masonry	mm	16
Max torque	Nm	158
Self-tightening chuck	mm	13
Speed 1	Rpm	0-500
Speed 2	Rpm	0-2100
Weight	kg	2,2

Included:
2 batteries 5 Ah
Battery charger
HeavyDuty carrying case



CORDLESS IMPACT WRENCHES 18V

ITEM: M18 FIW2F12-502X

High-performance impact screwdriver with MILWAUKEE® DRIVE CONTROL electronics with 1/2" square F port that allows selection of 4 different speeds and torque settings for maximum versatility in every application, specifically
- Speed 1: precision work
- Speed 2: prevents and avoids material damage
- Speed 3: heavy-duty work
- Speed 4: the tool automatically locks one second after impact preventing over-tightening and therefore material damage.

The POWERSTATE™ brushless motor provides increased durability, efficiency and power.
The intelligent REDLINK PLUS™ system provides advanced digital protection against tool and battery overload, improving tool performance under load.
The REDLITHIUM™ battery pack offers superior battery pack construction for increased efficiency in terms of battery life and durability.
Works with all Milwaukee M18 batteries.



Tech. Code		N407118
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-ion
Tightening torque coupling max.	Nm	339
Impact rate	Bpm	1000/2400/3500
No-load speed	Rpm	900/1650/2400/1200
Weight (with battery)	kg	1,8

Included:
2 batteries 18V of 5 Amp
Battery charger
Heavy Duty Case

CORDLESS IMPACT WRENCHES 18V

ITEM: M18 ONE FHIWF34-502X

Compact size high torque impact wrenches. DRIVE CONTROL system allows you to select 4 different speed and torque setting modes. Possibility of repeating applications with extreme torque accuracy. ¾″ square drive with friction ring. The KEY™ technology allows you to customize the tool according to the application to be carried out, increasing its productivity and also guarantees remote, monitoring of all tools in the inventory, preventing tampering. The REDLINK PLUS™ intelligent system provides protection advanced digital overload protection for tools and batteries, and dramatically improves tool performance under load. The REDLITHIUM™ battery offers superior quality battery pack construction, electronics and consistent performance to deliver longer range. Works with all Milwaukee® M18™ batteries.



Tech. Code		N407618
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-ion
Max. tightening torque	Nm	702/1138/1627/1627
Ø max. bolt		M33
Impact rate	Bpm	0-850/0-1850/0-2400
No-load speed	Rpm	0-800/0-1300/0-1800/0-1800
Max torque in reverse	Nm	2034
Weight (with battery)	kg	3,5

Included:
2 batteries 18V 5 Ah
Battery charger
Heavy Duty Case

ITEM: FHIW2F12-502X

Cordless Impact wrenches, only 193 mm, with a speed 35% higher than the previous range.System with 4 DRIVE CONTROL modes that allows you to choose between 4 different speed and torque settings for maximum flexibility in different applications.The fourth "bolt removal" mode delivers maximum torque during unscrewing and then decreases to 750 rpm, avoiding losing control of the bolt. ½" square drive with friction ring.The POWERSTATE™ brushless motor guarantees greater durability, efficiency and power. The intelligent REDLINK PLUS™ system provides advanced digital protection against overcharging of the tool and battery, improving the performance of the tool under load. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. Works with all Milwaukee M18 batteries.



Tech. Code		N418318
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-Ion
Max. tightening torque	Nm	1491
Max. torque in reverse	Nm	2034
No-load speed	Rpm	2000
Impact rate	Bpm	2400
Max. bolt		M36
Weight	kg	3,3

Included:
2 batteries 18V 5.0 Amp
Battery charger
Heavy Duty stackable case

18V CORDLESS SCREWDRIVERS

ITEM: M18 FMTIW2F12-502X

Cordless Impact wrenches medium torque capable of delivering up to 745 Nm of tightening torque.
Compact: total length 152 mm, for applications in confined spaces. ½" square friction ring.
System with 4 DRIVE CONTROL modes that allows you to choose between four different speed and torque settings, to maximize flexibility in different applications.
Bolt Removal mode to ensure greater unscrewing control: decrease in turns once the bolt has been loosened to prevent it from falling.
FUEL™ Technology: The brushless motor, REDLINK PLUS™ electronics and REDLITHIUM™ battery pack offer exponential performance and durability.
Works with all M18™ batteries.



Tech. Code		N418818
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-Ion
Tightening torque coupling max.	Nm	745
Ø max.bolt		M22
Impact rate	Bpm	0-900/ 0-2100/ 0-3100
No-load speed	Rpm	0-1200/ 0-1950/ 0-2575/ 0-1325
Max. torque in reverse	Nm	881
Weight	kg	2,3

Included:
2 batteries 5 Amp
Battery charger
Heavy Duty Case

INDUSTRIAL SCREWDRIVERS

BOSCH NEW

ITEM: IDS 18V-200T

Ideal tool for those looking for a powerful, high-performance industrial impact screwdriver capable of performing precise tightening with a stable and constant torque output.
This tool saves time by improving work efficiency and tightening quality thanks to the automatic shut-off function that stops the tool when the nut is tightened.
The correct torque is indicated by an LED indicator. Designed for extended use in the assembly line.
The NFC connectivity feature allows only authorised persons to change tool settings and allows data to be collected on tool usage.



Tech. Code		N440218
Torque from (hard materials)	Nm	30
Torque up to (hard materials)	Nm	140
Torque (hard materials)	Nm	30-140
Speed	Rpm	2500
Direction of rotation		R/L
Bit Holder		1/2" square
Battery		GBA 18V
Weight	Kg	1,2

IN LINE SCREWDRIVERS 4V

ITEM: M4 D

Compact 244 mm screwdrivers. Tool suitable for small screwdriving on metal that require little power, typically assemblies. Extremely accurate 8% clutch. Two speeds for screwing and drilling. Electronic switch with variable speed ¼" hexagonal shank.



Tech. Code		N407804V
Battery tension	V	4
Capacity	Ah	2
Battery type		Li-ion
No-load speed (1°/2°vel.)	Rpm	0-200/0-600
Tightening torque coupling max.	Nm	5
Weight (with battery)	kg	0,5

Included:
2 batteries 4V
Battery Charger

ROTARY HAMMERS BATTERY OPERATED 18V

ITEM: M18 BLHX-502X

Powerful cordless rotary hammers battery operated with compact and ergonomic design. FIXTEC™ system for keyless spindle change (SDS plus coupling). 4 operating modes: rotary percussion, chisel rotation and neutral position for chisel orientation. Anti-vibration side handle. Metal gearbox for maximum strength.The REDLINK PLUS™ intelligent system provides advanced digital overload protection for tools and batteries, and dramatically improves tool performance under load, The REDLITHIUM™ battery offers superior quality battery pack construction, electronics, consistent performance to deliver more range. Works with all Milwaukee® M18™ batteries.



Tech. Code		N407918
Battery tension	V	18
Battery capacity	Ah	5
Stroke power	J	2,3
Percussion frequency (strokes / min)		0-5100
No-load speed	Rpm	0-1400
Capacity max wood drilling	mm	26
Capacity max metal drilling	mm	13
Capacity max concrete drilling	mm	26
Vibration drilling	m/s²	8.9
Vibration chisel	m/s²	9.5
Weight (with battery)	kg	3,5

Included:
2 batteries 18v 5 Ah
Battery charger
Heavy Duty case

CORLESS ANGLE GRINDERS BATTERY OPERATED 18V

ITEM: M18 FSAGF125XB-0X

Angle grinders M18 FUEL™ equipped with new generation POWERSTATE™ Brushless motor, REDLINK PLUS™ electronics and REDLITHIUM™ battery, which offer advanced protection against overload, exponentially increasing the yield of individual cells to guarantee a result comparable to that of traditional tools. wire. Flat head design, for maximum accessibility in confined spaces with angles up to 42°. RAPIDSTOP™ system capable of braking the disc in less than 2 seconds, for greater safety. FIXTEC™ system for tool-free disc replacement. AVS anti-vibration side handle. Protection against accidental restart.
Works with all M18™ batteries.



Tech. Code		N404718
Battery tension	V	18
Battery capacity	Ah	-
Batterry type		Li-ion
No-load speed	Rpm	8500
Ø Disc	mm	125
Threaded shaft coupling		M14
Weight	kg	2,6

Included:
Heavy Duty Case
Quick release deburring cap
AVS anti-vibration side handle
Flange and counter flange
Spade wrench
Dust grilles

CORDLESS ANGLE GRINDERS BATTERY OPERATED 18V

ITEM: M18 FSAG125XB-502X

Cordless Angle Grinders M18 FSAG125XB-502X equipped with Brushless motor POWERSTATE™ new generation electric REDLINK PLUS™ battery REDLITHIUM™ offers superior performance and durability, power equal to 1200 W. System RAPIDSTOP™ capable of braking the disc in less than 2 seconds, for added safety. Small head size and optimized battery housing: maximum handling. Ergonomic side handle and AVS anti-vibration. FIXTEC ™ system for tool-free disc replacement. Removable dust grids to protct the motor from abrasive dust and quick release cap that allows maximum cutting capacity and quick adjustment. Protection against accidental restart. Compatible with all MILWAUKEE® M18™ batteries.



Tech. Code		N404818
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-Ion
Battery charging time	min.	59
No-load speed/min.	Rpm	8500
Ø Disc	mm	125
Cutting depth max.	mm	33
Threaded shaft coupling		M14
Accidental restart lock		Yes
Weight (with battery)	kg	2,7

Included :
2 batteries M18 5 Ah
Battery charger M12-18 FC
HeavyDuty case

18V CORDLESS ANGLE GRINDERS

NEW

ITEM: GWS 18V-8 PROFESSIONAL

Fast and compact angle grinder with power comparable to an 800 watt wire tool. It offers the highest cutting performance in various applications such as cutting rebar, sheet metal, PVC and tiles, or deburring light metal. Safety features restart protection, kickback control, slim ergonomic handle for maximum comfort. Optimised and enhanced battery autonomy. Overload protection.



Tech. Code		N412718V
Battery voltage	V	18
Battery capacity	Ah	4
Battery type		Lithium-ion
No load rpm	Rpm	11.000
Ø Grinding wheel	mm	125
Ø Backing pad	mm	125
Threaded shaft connection		M14
Weight	Kg	2,2

Included:
GAL 18V-40 Professional rapid charger
2 GBA 18V 4.0Ah batteries
L-BOXX carrying case

LITHIUM BATTERIES

ITEM: M12 B2-4/M18 B5

Tech. Code	Battery tension V	Ah
N4080122	12	2
N4080124	12	4
N4080185	18	5



LITHIUM BATTERIES RESISTANT TO CHEMICAL AGENTS

ITEM: M18B5-CR

New coating composed of nylon with glass fiber (GFN) which increases the useful life of the battery and guarantees chemical resistance against oils and greases. Up to 2.5 times longer runtime, up to 20% more power and up to double the battery life compared to other lithium-ion technologies. Operation at temperatures down to -20°. Internal anti-shock separators to prevent damage due to vibrations or falls.

Tech. Code	Battery tension V	Ah
N408918	18	5



FORGE BATTERIES

ITEM: M18 FB8

NEW

High-performance batteries with patented REDLITHIUM™ FORGE™: exponentially fast recharge time (100% in 45 minutes); twice the average life of conventional batteries.
COOL-CYCLE™: integrated cooling system. Enhanced autonomy for higher-drain applications.
Durable housing designed to provide enhanced protection against common oils, solvents and greases. Delivers the same power as a 12 ah battery but in a more compact and lightweight form.

Tech. Code	Battery voltage V	Ah
N428318V	18	8



12V LITHIUM BATTERIES

ITEM: GBA

LITHIUM BATTERIES

Tech. Code	Battery tension V	Ah
N409012	12	2
N409012/3	12	3



LITHIUM BATTERIES

ITEM: GBA 18V

NEW

LITHIUM BATTERIES

Tech. Code	Battery voltage V	Ah
N409318/2	18	2
N409318/5	18	5



PROCORE BATTERIES

ITEM: PROCORE

The batteries are 100% compatible with all new and existing Bosch 18V power tools and battery chargers.
87% more power compared to standard batteries due to the latest cell technology that provides superior and intelligent heat management.
135% longer life with the Coolpack 2.0 technology that prevents the battery from overheating.

Tech. Code	Battery tension V	Ah
N409118/4PRO	18	4
N409118/8PRO	18	8



BATTERY CHARGERS

ITEM: GAL 12V-40

NEW

Fast and compact charger
Fully compatible with all Bosch Professional 12V batteries

Tech. Code	Battery voltage V
N419818	12



N

BATTERY CHARGERS

BOSCH

ITEM: GAL 18V-40

Compact and quick charger compatible with all Bosch Professional 18V batteries.

Tech. Code	Battery voltage V
N429018	18



BATTERY CHARGER

ITEM: M12-M18 FC

Rapid charger for all M12 and M18 platform batteries

Tech. Code	Battery voltage V	Art. supplier
N418212/1805	12-18	M12-M18 FC



SUPER FAST CHARGERS

ITEM: M18 DBSC

Super-fast simultaneous charging (up to 6 times faster than standard model)
Adaptive charge distribution allows multiple batteries to be charged simultaneously to maximise productivity.
COOL-CYCLE™ cooling system provides high speed cooling to reduce downtime.
Wall-mounting is possible.



Tech. Code	Battery voltage V
N428418V	18

BATTERY KIT AND BATTERY CHARGER

ITEM: M12 NRG-402

Kit consisting of 2 4 Ah batteries and an M12 battery charger.

Tech. Code	Battery voltage V	Ah
N418412	12	4



BATTERY KIT AND BATTERY CHARGER

ITEM: M18 NRG-502

Kit consisting of 2 5 Amp/18V batteries, a 2 Amp/12V battery and a battery charger.

Tech. Code	Battery voltage V	Amp
N418518	12/18	5/2



REVERSIBLE DRILLS

BOSCH

ITEM: GBM 10 RE PROFESSIONAL

Supply voltage 230 Volt, powerful and compact, electronic control for a precise initial drilling phase. Auto-locking metal chuck for high precision and long service life, with anti-loosening safety screw during left-hand rotation, handle with Softgrip coating for a secure and comfortable grip, practical belt clip attachment, 43 mm collar Ø for use on a column support.

Tech. Code		N4100600/1
Power	W	600
No-load speed	Rpm	0-2600
Threaded shaft coupling		3/8"
Chuck	mm	10
Ø Max. drilling - Steel	mm	10
Ø Max. drilling - Aluminium	mm	10
Ø Max. drilling - Wood	mm	25
Weight	kg	1,7

Included:
Keyless chuck

Dimension: 267x194h mm



N

REVERSIBLE DRILLS

ITEM: GBM 13-2 RE PROFESSIONAL

Supply voltage 230 Volt, powerful and accurate, fully equipped with ball and roller bearings for long service life and precise work, pre-set number of revolutions with setting wheel. Auto-locking metal chuck for high precision and long service life,with anti-loosening safety screw during left-hand rotation, 43 mm collar Ø for use on a column support.



Tech. Code		N4103750/1
Power	W	750
No-load speed	Rpm	0-1000/3200
Threaded shaft coupling		1/2 UNF
Chuck	mm	1,5-13
Ø Max. drilling - Steel	mm	13/8
Ø Max. drilling - Aluminium	mm	20/12
Ø Max. drilling - Wood	mm	32/20
Weight	kg	2,4

Included:
Auxiliary handle
Depth stop 210 mm
Keyless chuck high precision

Dimension: 332x208h mm

ELECTRIC REVERSIBLE ANGLED DRILLS

ITEM: GWB 10 RE PROFESSIONAL

Supply voltage 230 Volt, slender cylindrical body, small angular size (only 23 mm) and very low height thanks to the cashed chuck. Pre-set number of revolutions with speed setting wheel, chuck rack.



Tech. Code		N4109400ANG
Power	W	400
No-load speed	Rpm	0-1300
Chuck	mm	10
Ø Max. drilling - Steel	mm	10
Ø Max. drilling - Aluminium	mm	12
Ø Max. drilling - Wood	mm	22
Weight	kg	1,7

Included:
Rack and pinion chuck

Dimension: 298x76h mm

REVERSIBLE IMPACT DRILLS

ITEM: GSB 13 RE PROFESSIONAL

Percussion drills GSB 13 RE extremely easy to handle and only 1,8 Kg heavy. Softgrip for a safer grip and more comfortable, robust, self-locking chuck with two metal bushes for a quick tool change. Preselection of the speed with adjustment wheel, clock-wise and anti-clock wise.



Tech. Code		N4111600P/1
Power	W	600
No-load speed	Rpm	0 - 2800
Impact frequency at no-load/min.		0 - 44800
Threaded shaft coupling		1/2 UNF
Chuck	mm	13
Ø Max. drilling - Concrete	mm	13
Ø Max. drilling - Masonry	mm	15
Ø Max. drilling - Steel	mm	10
Ø Max. drilling - Wood	mm	25
Weight	kg	1,8

Included:
Extra handle
Depth limiter 210 mm
Keyless chuck 13 mm

Dimension: 266x180h mm

ITEM: GSB 20-2 RE

Supply voltage 230 V. The GSB 20-2 RE Professional is a versatile 2-speed impact drill with a KickBack Control function for greater user protection in more complex drilling applications. The powerful 850 Watt motor ensures a very high workflow. This impact drill is designed for drilling concrete, stone and masonry. It is fitted with a sturdy metal gear housing to ensure greater durability. Autolock, overload clutch and speed selector included.



Tech. Code		N4121850P/1
Power	W	850
No-load speed	Rpm	0-1000 / 3000
Impact rate at no-load speed/bpm		0-17000 / 51000
Threaded shaft coupling		1/2" - 20 UNF
Chuck	mm	13
Ø Max. drilling - Concrete	mm	18/13
Ø Max. drilling - Masonry	mm	20/15
Max. drilling Ø - Steel	mm	13/8
Ø Max. drilling - Wood	mm	40/25
Min/max chuck clamping range	mm	1.5 / 13
Max torque	Nm	36 / 15.5
Weight	kg	2.6

Included:
Keyless chuck 13 mm
Auxiliary handle
Depth stop 210 mm
Carrying case L-case

REVERSIBLE ROTARY HAMMERS SDS PLUS

ITEM: GBH 2-26 PROFESSIONAL

Supply voltage 230 Volts, compact and balanced thanks to its "L" shape, system for quick replacement of the SDS Plus coupling with auto-locking chuck. Stepless adjustment of the number of revolutions for a more sensitive drilling start, impact stop for drilling steel and wood and rotation stop for chiselling. Safety clutch against overload, Vibration Control for effective vibration reduction, handle with Softgrip coating for a secure and comfortable grip, ball coupling of the cable to prevent breakage and impediments.



Tech. Code		N4133790M/1
Power	W	830
Rated speed	Rpm	0 - 900
Max stroke power	J	2,7
Impact frequency at no-load/min.		0-4000
Chuck tool coupling		SDS plus
Ø Max. drilling - Concrete with SDS drills	mm	4 - 26
Ø Max. drilling - Steel	mm	13
Ø Max. drilling - Wood	mm	30
Hollow crowns for drilling masonry	mm	68
Weight	kg	2,9

Included:
Auto-locking chuck
Quick-change 13 mm
Auxiliary handle
Depth stop 210 mm
Plastic case

Dimension: 354 x 233 h mm

ANGLE GRINDERS

ITEM: AG 800 E

Grinders with powerful 800w motor and extremely light. Compact design, slim body. Protection against accidental restart. Steel gears for maximum durability. Protected air intakes for better cooling.



Tech. Code		N4207115
Power	W	800
No-load speed	Rpm	11500
Ø Grinding wheels	mm	115
Ø Pad	mm	115
Ø hole brushes max	mm	70
Threaded shaft coupling		M14
Weight	kg	2

Included:
Side handle
Flange
Flange key
Protective cover

ITEM: AG 800-125 E

Angle grinders with powerful 800W motor, compact, lightweight and with a slim machine body for greater ease of handling. Soft start and protection against accidental restart. Protected air vents for better cooling.



Tech. Code		N4712800
Power	W	800
No-load speed	Rpm	11500
Ø grinding wheel	mm	125
Ø pad	mm	125
Cutting depth max	mm	33
Threaded shaft coupling		M14
Weight	kg	2

Included:
Side handle
Flange
Flange spanner
Protective cover

ITEM: AG 10-125 EK

AG 10-125 EK grinder, powerful 1000 W motor for high performance. Compact design: only 276 mm in length and 2.1 kg in weight for greater maneuverability. Protection against accidental restart (LLO). Resistant adjustable protective cover without tools, slide switch, 4 meter cable.



Tech. Code		N4208125
Power	W	1000
No-load speed	Rpm	11000
Variable speed		No
AVS (Anti-Vibration-System)		No
Accidental restart lock		Yes
Ø Disc	mm	125
Threading shaft coupling		M14
Weight	kg	2,1

Included:
Side handle
Flange
Flange wrench
Adjustable protection cover without tools

ANGLE GRINDERS

ITEM: GWS 750 PROFESSIONAL

Supply voltage 230 Volt, lightweight and easy to handle, chuck lock for easy wheel change, safety switch to prevent accidental starting. Gear head rotatable in steps of 90°, adjustable grinding wheel guard with axial safety lock and extra handle for both right and left-hand use. Equiped with the RESTART PROTECTION, protection against the restarting in case of power interruption.



Tech. Code		N4205115
Power	W	750
No-load speed	Rpm	11000
Ø Grinding wheels	mm	115
Ø Pad	mm	115
Ø hole brushes max	mm	70
Threaded shaft coupling		M 14
Weight	kg	1,8

Tech. Code	N4200RIC
SPARE PARTS	Brushes (pair) 1607014145

Included:
Mounting flange
Protection cap
Clamping nut
Dual hole wrench

Dimension: 263x104h mm

N

ANGLE GRINDERS

BOSCH

ITEM: GWS 9-125 S PROFESSIONAL

Angle grinders GWS 9-115 / 125 S powerful and ergonomic. Long life, thanks to the motors with direct cooling, protection against overload and long life of the brushes. Suitable for processing all materials thanks to the adjustable speed. Perfect control thanks to the optimized weight, only 1.9 kg and the smallest handle in its class (187 mm).



Tech. Code		N4210125
Power	W	900
No-load speed	Rpm	2800 - 11000
Ø Grinding wheels	mm	115/125
Ø Pad	mm	115/125
Ø Hole brushes	mm	70
Threaded shaft coupling		M14
Weight	kg	1,9

Included:
Mounting flange
Protection cap
Clamping nut
Vibration Control handle
Dual hole wrench

Dimension: 284x100h mm

Tech. Code	N4200RIC5
SPARE PARTS	Brushes (pair) 1619P11715

ITEM: GWS 12-125

Compact, ergonomic and economical angle grinders. Ideal power/size ratio for quick applications and less effort. Robust and powerful motor, with good overload resistance. Self-tightening protective cap.



Tech. Code		N435012
Power	W	1200
No-load speed	Rpm	11.000
Ø grinding wheel	mm	125
Ø backing pad	mm	125
Threaded shaft coupling		M14
Weight	kg	2,2

Included:
Fixing flange
Protective cap
Tightening nut
Handle
Dual hold wrench

Dimension: 125 x 365 x 150 mm

QUICK CHANGE RING NUTS

ITEM: FIXTEC

Fixtec system for quick disc change in a few seconds and without using tools.
Compatible with all tools with M14 thread up to Ø150 mm.



Tech. Code		N4190M14
Thickness	mm	8
Threaded shaft connection		M14

ANGLE GRINDERS

ITEM: AGV13-125 XE

Powerful 1250 W PROTECTOR-MOTOR with epoxy resin coated windings for greater durability and maximum resistance to abrasive dust. Power supply 230V, powerful and compact. Constant power and speed under load. Accidental restart protection (LLO). Protection against overheating. Overload clutch to protect the user in case the disc jams. New integrated Milwaukee FIXTEC™ system for fast and tool-less disc changes. Durable tool-free protective cover. Anti-Vibration handle for maximum user comfort. 90° Rotatable head. 4 m cable.



Tech. Code		N421413125
Power	W	1250
No-load speed	Rpm	2800 - 11,500
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Max. cutting depth	mm	33
Threaded shaft coupling		M14
Weight	kg	2.4

Included:
Side handle AVS
Flange
Flange wrench
Protective cover - adjustable without tools

ITEM: AGV 15-125 XC

1550 watt PROTECTOR resin motor for optimised service life and greater resistance to abrasive dust.
Compact design for easy handling. Soft start and protection against accidental restart.
Protection clutch, protects the user in the event of a disc jam.
New FIXTEC™ system for quick disc change without tools.
Anti-vibration handle.



Tech. Code		N422215125
Power	W	1550
No load turns	Rpm	11.000
Grinding wheel Ø	mm	125
Backing pad Ø	mm	125
Max. cutting depth	mm	33
Threaded shaft connection		M14
Weight	Kg	2,6

Included:
Protective cover
AVS handle
FIXTEC flange
Nut

ELECTRIC ANGLE GRINDERS

BOSCH

ITEM: GWS 1400 PROFESSIONAL

Supply voltage 230 Volt, powerful, compact, technologically advanced, starting current limiter for a smooth and safe start and Constant Electronic for constant rpm even under load. Kick-Back-Stop for power turn-off in case of wheel lock, protection against accidental restarting, direct cooling for overload, high resistance and long service life. Chuck lock for easy wheel change, safety switch to prevent accidental starting. Gear head rotatable in steps of 90°, anti-rotating quick positioning guard for grinding wheel.



Tech. Code		N4217125/1
Power	W	1400
No-load speed	Rpm	11000
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Ø hole brushes max	mm	70
Threaded shaft coupling		M14
Weight	kg	2,2

Tech. Code	N4200RIC3
SPARE PARTS	Brushes (pair) 1607014176

Included:
Mounting flange
Protection cap
Clamping nut
Handle
Dual hole wrench

Dimension: 297x103h mm

ITEM: GWS 17-125 PROFESSIONAL

Extremely powerful and technologically advanced 230 Volt angle grinder with starting current limiter for a smooth and safe start and Constant Electronic for constant speed, even under load. KickBack Stop to shut down the tool if the grinding wheel jams, accidental restart protection and direct cooling for high overload capability and long lifetime. Spindle lock for easy disc change, restart protection switch, gear head can be rotated in 90° steps, anti-rotation disc guard with quick and easily adjustment without the need for tools, Vibration Control handle can be used on right or left.



Tech. Code		N4218125/3
Power	W	1700
No-load speed	Rpm	11500
Grinding disc Ø	mm	125
Backing pad Ø	mm	125
Cup brushes max. Ø	mm	75
Spindle thread		M 14
Weight	kg	2.4

Tech. Code	N4200RIC2
SPARE PARTS	Brushes (pair) 167000V37

Included:
Backing flange
Protective guard
Locking nut
Auxiliary vibration control handle
Two-hole spanner

Dimension: 327x265X108h mm

ITEM: GWS 17-125 INOX

Supply voltage 230 Volt, the specialist for stainless steel finishing, starting limiter for a smooth and safe start, preselection of the number of revolutions on six positions. Constant Electronic for a constant number of revolutions even under load, Kick Back Stop to cut off the power supply in the event of a grinding wheel jam, protection against unintentional restart, direct cooling for high overload resistance and a long service life. Spindle lock for simple wheel replacement, safety switch against accidental starting, gear head that can be rotated in 90° steps, quick-positioning anti-rotation wheel cover, additional Vibration Control handle applicable both on the right and on the left. Plastic case.



Tech. Code		N42201700/2
Absolute power	W	1700
No-load speed	Rpm	2200-7500
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Ø Max. hole brushes	mm	75
Threaded shaft coupling		M14
Weight	kg	2,4

Tech. Code	N4200RIC2
SPARE PARTS	Brushes (pair) 167000V37

Included:
Mounting flange
Protection cap
Clamping nut
Vibration Control handle
Dual hole wrench

Dimension: 311x103 mm

ANGLE GRINDERS

ITEM: CG 17-125

Angle grinders compact and easy to handle for heavy cutting and roughing operations. High overload capacity thanks to direct motor cooling. Kickback sensor, device against accidental restart, anti-vibration handle. 90° rotable head for a wide range of applications. Quick-release disc lock ring allows abrasives to be change without tools.



Tech. Code		N4229125
Power supply	V	230 - 50 Hz
Rated power consumption	W	1700
No-load speed	Rpm	11.500
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Ø hole brushes max	mm	70
Threaded shaft coupling		M14
Weight	kg	2,4

Included:
Protection cap
Pair of flanges
Anti-vibration handle
Key

N

ELECTRIC ANGLE GRINDERS

ITEM: GWS 19-125 CIE PROFESSIONAL

GWS 19-125 CIE angle grinders high performance, thanks to the powerful 1.900 engine Watts with Constant Electronic system. Long life, thanks to the engines with direct cooling, protection against the overload and long life of the brushes. Safety for the user thanks to the Kick-Back device Control, to protect against accidental reboot, to the anti-rotation protection cuff and to reduced vibrations.
Good handling thanks to the slim casing design with Soft grip lining for a secure grip. Optimized air conduction and better protection against dust. Preselection of the number of laps in 6 stages, depending on the different materials.



Tech. Code		N42241900
Power	W	1900
Delivered power	W	1220
No-load speed	Rpm	2800 - 11500
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Ø Hole brushes	mm	75
Threaded shaft coupling		M 14
Weight	kg	2,4

Tech. Code	N4200RIC2
SPARE PARTS	Brushes (pair) 167000V37

Included:
Two-hole key
Protection cap
Clamping nut
Clamping flange
Vibration control handle
Anti-dust filter

Dimension: 311x103h mm

ITEM: GWS 22-230 J

Power supply 230V. New motor, patented by Bosch, which guarantees more efficiency in the removal of the material and less consumption of the charcoals, Vibration reduction during machining. Oversized fan with new design to reduce overheating under overload conditions. Protection against accidental restart.



Tech. Code		N42342200
Tension	V	230
Power	W	2200
No-load speed	Rpm	6.500
Ø Grinding wheels	mm	230
Threaded shaft coupling		M14
Weight	kg	5,4

Tech. Code	N4200RIC4
SPARE PARTS	Brushes (pair) 1607014171

Included:
Dual hole wrench
Protection cap
Clamping nut
Mounting flange
Vibration control handle

Dimension: 500x140h mm

ANGLE GRINDERS

ITEM: AG22-230 DMS

Power supply voltage 230V. Powerful 2200 watt motor with protection against abrasive dust for greater durability. Compact design (485 mm) for easier handling. Durable protective cap. Convenient access to brushes for quick maintenance



Tech. Code		N42392200
Power	W	2200
No-load speed	Rpm	6600
Ø Grinding wheels	mm	230
Ø Pad	mm	230
Cutting depth max	mm	68
Threaded shaft coupling		M14
Weight	kg	5,2

Included:
Protective cap
Additional handle
4m cable
Wrench, fixing flange and nut

BENCH SAW CUTTING MACHINES

ITEM: MKAS 355

Cold cutting metal cutters for safe, dust-free processing. Maximum processing speed with minimal finishing work. Versatility in numerous applications.
Angle adjustment from 0° to 45° for oblique cuts. Quick piece clamping device.



Tech. Code		N4087355
Voltage	V	230
Nominal power	W	1800
Power rendered	W	1050
No-load speed	Rpm	1300
Ø cutting blade	mm	355
Ø blade hole	mm	25,4
Max. square cut	mm	120
Cutting at 45° max	mm	90
Round cut max	mm	100
Round cut 45° max	mm	90
Weight	kg	24,4

Included:
Cutting blade for steel
8 mm Allen key
Combination spanner
(O 6mm and ✪ PH2)
Additional pair of carbon brushes

ELECTRIC AXIAL GRINDERS

ITEM: GGS 8 CE PROFESSIONAL

Supply voltage 230 Volt, strong and very resistant, suitable for more challenging milling and grinding work, optimal management of the number of revolutions for every specific need and Constant Electronic for constant rpm under load. Robust gear housing, protection switch against accidental starting, optimally positioned air intakes for high resistance to overloads and long service life.



Tech. Code		N4243650
Power	W	750
No-load speed	Rpm	2500 - 8000
Ø sanding body	mm	50
Ø shaft collar	mm	43
Colet chuck	mm	8
Surface clamping nut wrench	mm²	19
Surface sanding spindle wrench	mm²	13
Weight	kg	1,7

Included:
13 mm fixed wrenches
19 mm fixed wrenches
6 mm collect chuck

Dimension: 387x77h mm

ELECTRIC ORBITAL SANDERS

ITEM: GSS 140-1 A

Sanders with an intelligent mounting system, robust and stable, easy to use and replace, resistant felt cloth with sheet metal for a greater duration, less vibrations and a simple replacement. Ergonomic handle to work without effort, strong leg swing support system for grinding work that lasts hours, switch protected from dust for a greater duration of the power tool, transparent container for dust with microfilter enhanced by Bosch. A vision for a better and easier cleaning.



Tech. Code		N4251180/1
Power	W	180
No-load speed	Rpm	12000
Oscillation/min		24000
Ø fluctuations	mm	1,6
Fluctuation emission value ah	m/s²	5
Uncertainty of measurement k	m/s²	1,5
Sanding plate	mm	113 x 101
Strap fit - Abrasive paper	mm	115 x 107
Bracket fit - Abrasive paper	mm	115 x 140
Weight	kg	1,2

Included:
Plate base 113x101 mm
with grinding plate
Plate punching
Dust container
Sand paper 120 K
Sheet of sand paper C470

Dimension: 250x110x143h mm

ELECTRIC ROTO-ORBITAL SANDERS

ITEM: GEX 34-150

Supply voltage 230 Volt, high removal model with revolution and oscillation adjustment and pre-setting for appropriate work in all types of applications. Constant Electronic for constant rpm even under load, pad brake to decrease wear and to avoid scratches and damage to the workpiece. Pad with Velcro abrasive disc fixing, micro-filter dust collector box for perfect suction, handle with palm position and removable front handle for wire sanding without obstacles.



Tech. Code		N4260340/1
Power	W	340
No-load speed	Rpm	4500-12000
Oscillation/min		9000-24000
Ø pad/ strap abrasive disc	mm	150
Weight	kg	2,1

Included:
80-grit sandpaper
Adapter

Dimension: 315x190 h mm

BELT SANDERS

ITEM: BF 10-280 E

Belt sanders BF 10-280 E powerful for sanding corners and edges when machining stainless steel. FEIN high-performance motor for maximum revoval capacity and constant speed even in case of high stresses. Optimal belt speeds for the effective use of abrasive belts, felt belts and different polishing belts.Maximum ease of use - 180 ° rotatable sanding arm without service keys, assembly and adjustment of the belt without service keys. Belt widths from 3 to 20 mm. Continuously adjustable number of revolutions, optimal for protecting delicate surfaces.



Tech. Code		N4270800
Rated power consumption	W	800
Rendered power	W	550
No-load speed	Rpm	10000 / 28000
Belt speed	m/sec	12-32
Cable with plug	m	4
Belt dimension	mm	520 x 3 / 6 / 20
Weight	kg	2,1

Included:
Power tools Curved sanding arm 3/6 mm

JIG SAWS

ITEM: GST 90 BE PROFESSIONAL

Supply voltage 230 Volt, standard model with high comfort, switch with acceleration function for soft-start cutting with all materials. SDS system for tool-free blade change without any tools, four-position adjustable blade oscillation, integrated suction duct for direct connection to the aspirator, sawdust blower device that can be switched off, handle with Softgrip-coated grip points for maximum working comfort.



Tech. Code		N4305650/1
Power	W	650
Idle runs/min		500-3100
Run height	mm	26
Max cutting depth - Wood	mm	90
Max cutting depth - Aluminum	mm	20
Max cutting depth - Non-alloyed steel	mm	10
Weight	kg	2,6

Included:
Blade
Hexagonal wrench 5 mm
Dust extraction set
Splinter protection
Plastic case

Dimension: 332x212h mm

AXIAL GRINDERS

ITEM: GGS 30 LS

NEW

Compact grinder offers the highest level of user convenience and protection.
Thanks to the spindle lock function, only one spanner is needed to change accessories.
Ergonomic, with a slimmer handle and KickBack Control, soft start and protection against accidental restart.
Ideal for heavy-duty grinding work.



Tech. Code		N434118
Power	W	750
No load turns	Rpm	7.000 - 33.000
Collet	mm	6
Shaft collar Ø	mm	43
Weight	Kg	1,7

Included:
6 mm collet with nut
1 fixed spanner

HEAT GUNS

ITEM: GHG 20-60

Power supply 230V. Its linear shape gives it exceptional versatility in any working position. Two air flow speeds and panel for setting 9 temperature levels for maximum practicality. The 2000 Watt motor guarantees high power allowing you to reach a temperature of 630° quickly.



Tech. Code		N46012000/3
Power	W	2000
Operating temperature	°C	50-630
Airflow	litres/minute	150-500
Weight	kg	0.6

Dimension: 340x97h mm

THERMAL BLOWERS

ITEM: GHG 23-66

NEW

The GHG 23-66 Professional thermal blower allows complete control of temperature and airflow. You can choose from 10 airflow levels, plus adjustable temperature settings in 10 °C intervals and four customisable stored programmes.
Ideal for work with temperatures up to 650 °C
The automatic thermal protection function that switches the heating unit off even if the fan is still running ensures a long service life. Practical cooling mode.
Ideal for a wide range of jobs, such as plastic and pipe soldering, desoldering and shrink-wrapping.



Tech. Code		N46042300
Power	W	2300
Working temperature	°C	50-650
Airflow	litres/minute	150-500
Weight	Kg	0,67

Included:
Glass protection nozzle
Flat nozzle 50 mm
Case

LEGEND ICONS JIG SAW BLADES FOR SAWS

- Fast cut
- Clean cut
- Fine and effortless cutting
- Circular cut, rough
- Circular cut, precise
- Rectified sharpened teeth
- Straight cut, rough
- With HM insert
- Bar grain 30
- Straight cut, accurate
- With HM coating
- Flexible blade for wire cutting
- Particular cutting from solid
- Long life service (Bimetallic / HM)
- Powerful and rough cutting
- Thin and thick materials

JIG SAW BLADES FOR WOOD

BOSCH



ITEM: T 111 C

HCS, set, milled, softwood, chipboard panels (4-50 mm), laminboard, fibre boards, for fast cut.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510111	100	3	5 blades



ITEM: T 144 D

HCS, set, rectified, softwood, chipboard panels (5-50 mm), laminboard, fibre boards.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510213	100	4 - 5,2	5 blades



ITEM: T 244 D

HCS set, rectified,softwood (5 - 50 mm), chipboard panels, laminboard, fibre boards, ideal for curved cuts.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510315	100	4 - 5,2	5 blades



ITEM: T 344 D

HCS, set, milled, thick wood, softwood (5 - 100 mm), chipboard panels, laminboard, fibre boards.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510417	152	4	3 blades

JIG SAW BLADES FOR WOOD

BOSCH



ITEM: T 101 B

HCS, straight, rectified and straight teeth, softwood, chipboard panels, laminboard, fibre boards (3 - 30 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510519	100	2,7	5 blades



ITEM: T 101 D

HCS, straight, rectified and straight teeth, softwood, chipboard panels, laminboard, fibre boards (10 - 45 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510621	100	4 - 5,2	5 blades

JIG SAW BLADES FOR WOOD



ITEM: T 301 CD

HCS, straight, rectified and straight teeth, softwood, chipboard panels, laminboard, fibre boards (10 - 65 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510723	117	3	5 blades

JIG SAW BLADES FOR WOOD WITH METAL



ITEM: T 345 XF

Two-metal, set, milled, wood for construction with nails (< 65 mm), wooden materials, plastic, sheet metal, pipes/profiles, including aluminum (3 - 10 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510825	132	2,4 - 5	5 blades



ITEM: T 118 G

HSS, wavy corrugated, milled, very thin sheet metal (0.5 - 1.5 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512231	92	0,7	5 blades



ITEM: T 118 A

HSS, wavy corrugated, milled, thin sheet metal (1 - 3 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512333	92	1,1 - 1,5	5 blades



ITEM: T 218 A

HSS, wavy corrugated, milled, thin sheet metal (1 - 3 mm). Ideal for cutting curved

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512435	92	1,1 - 1,5	5 blades

JIG SAW BLADES FOR METAL



ITEM: T 118 B

HSS, wavy corrugated, milled, medium-thick sheet metal (2.5 - 6 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512639	92	1,9 - 2,3	5 blades

JIG SAW BLADES FOR ALUMINIUM AND NON-FERROUS METALS



ITEM: T 127 D

HSS, set, milled, thin and thick sheet metal (3 - 15 mm), pipes/profiles (< 30 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N513143	100	3	5 blades



ITEM: T 227 D

HSS, set, milled, thin and thick sheet metal (3 - 15 mm), pipes/profiles (< 30 mm). Ideal for cutting curved.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N513245	100	3	5 blades

JIG SAW BLADES FOR ACRYLIC MATERIAL

BOSCH



ITEM: T 102 BF

HSS, straight, ground teeth, clear cuts on PMMA panels.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N515052	92	1,8	5 blades

JIG SAW BLADES FOR CERAMIC MATERIALS

BOSCH



ITEM: T 130 RIFF

HM-coated with 30 grain, soft ceramic tiles, fibreglass, cast iron (5 - 15 mm). Rough cuts.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N517057	83	-	3 blades

BLADES FOR UNIVERSAL SAWS - BLADES FOR WOOD

BOSCH



ITEM: S 2345 X

HCS, set, ground, wood for construction (< 150 mm), chipboard, MDF (6 - 60 mm), plywood, plastic material (< 150 mm),wooden walls (< 150 mm). Fine cut and effortlessly.

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5180A	200	2,5-4,3 - 6/10	2 blades

BLADES FOR AIR RECIPROCATING SAWS

Ingersoll Rand

ITEM: P4EV-6 / P4CS-6 / P4FS-6



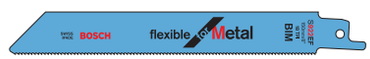
Bi-metal blades for use with all standard pneumatic saws with 1/2" shank.

Tech. Code	Total length mm	Teeth TPI	Package content pc.
N519814	100	14/18	6
N519824	100	24	6
N519832	100	32	6

The price shown refers to a pack

UNIVERSAL SAW BLADES FOR METAL

BOSCH



ITEM: S 922 EF

Two-metal, set, milled, thin sheet metal (1.5 - 4 mm), tubes/profiles (< 100 mm).

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5111G	150	1,4 - 18	5 blades



ITEM: S 922 BF

Two-metal, set, milled, thick plates (3 - 8 mm), massive pipes/profiles (< 100 mm). Fast cuts.

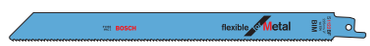
Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5112F	150	1,8 - 14	5 blades



ITEM: S 1122 EF

Two-metal, set, milled, thin sheet metal (1.5 - 4 mm), tubes/profiles (< 175 mm). Flush cutting.

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5113E	225	1,4 - 18	5 blades



ITEM: S 1122 BF

Two-metal, set, milled, thick plates (3 - 8 mm), massive pipes/profiles (< 175 mm). Flush and fast cuts.

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5114H	225	1,8 - 14	5 blades

KEYLESS DRILL CHUCKS

ITEM: SUPRA

Constant clamping force even under the most severe operating conditions. S-version recommended for portable drills.
* B18 cone shortened by 7 mm.



Tech. Code	Width	Opening mm	Coupling	External Ø mm
N520110	10S	0.5 - 10	3/8" - 24	35.8
N520111	10	0 - 10	B16	40.2
N520112	13S	1 - 13	1/2" - 20	40.2
N520113	13	1 - 13	B16	46
N520114	16	3 - 16	B16	51
N520115	16	3 - 16	B18*	51

ITEM: SUPRA SK

Safety clamping device for maximum reliability even with strong vibrations and reverse rotation, protection against dust and side drain holes with ejecting centrifuge in case of dust intrusion.



Tech. Code	Width	Opening mm	Coupling	External Ø mm
N520220	SK 13S	1 - 13	1/2" - 20	42.8

ITEM: SPIRO

Accurate execution, chamfered cap and 0.05 mm concentricity. Recommended for high-speed drills, boring machines and special drilling units.



Tech. Code	Width	Opening mm	Coupling	External Ø mm
N520313	13	1 - 13	B16	50
N520316	16	3 - 16	B16	55

ITEM: EXTRA RV

Metal cap, ergonomic shape and high concentricity, radial locking and hexagon for assembly and disassembly. Suitable for all types of drills up to 1100 Watts. Carbide jaws.

a* - without retaining ring
b* - with retaining ring

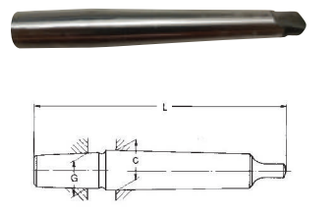


Tech. Code	Width	Opening mm	Coupling	Execution	External Ø mm
N520440	10	1 - 10	1/2" - 20	a*	42.7
N520441	10	1 - 10	3/8" - 24	a*	42.7
N520442	13	1.5 - 13	1/2" - 20	b*	42.7

TAPER COUPLINGS FOR DRILL SPINDLES

ITEM: N5210

Taper shank with tang DIN 228 B. Completely hardened and ground.



Tech. Code	CM	Coupling	L mm	C mm	G mm
N5210CM1B10	1	B10	86	12,06	10.09
N5210CM1B12	1	B12	89	12,06	12.06
N5210CM1B16	1	B16	97	12,06	15.73
N5210CM1B18	1	B18	107	12,06	17.78
N5210CM2B10	2	B10	103,5	17,78	10.09
N5210CM2B12	2	B12	106,5	17,78	12.06
N5210CM2B16	2	B16	110,5	17,78	15.73
N5210CM2B18	2	B18	117,5	17,78	17.78
N5210CM2B22	2	B22	130	17,78	21.79

Tech. Code	CM	Coupling	L mm	C mm	G mm
N5210CM3B12	3	B12	124	23,82	12.06
N5210CM3B16	3	B16	134	23,82	15.73
N5210CM3B18	3	B18	141	23,82	17.78
N5210CM3B22	3	B22	147	23,82	21.79
N5210CM4B16	4	B16	159	31,26	15.73
N5210CM4B18	4	B18	168	31,26	17.78
N5210CM4B22	4	B22	176	31,26	21.79
N5210CM5B16	5	B16	196	44,39	15.73
N5210CM5B18	5	B18	204,5	44,39	17.78

REDUCTION BUSH FOR DRILLS

ITEM: N5211

Accurate execution DIN 2185. Fully hardened and ground internally and externally.

Tech. Code	CM	Length mm
N5211CM2/1	2 / 1	92
N5211CM3/1	3 / 1	99
N5211CM3/2	3 / 2	112
N5211CM4/1	4 / 1	124

Tech. Code	CM	Length mm
N5211CM4/2	4 / 2	124
N5211CM4/3	4 / 3	140
N5211CM5/3	5 / 3	156
N5211CM5/4	5 / 4	171



EXTRACTORS/PULLERS FOR MORSE CONES

ITEM: N5215

Vanadium chrome steel.

Tech. Code	CM	Length mm
N521501-2	1-2	140
N521503	3	190

Tech. Code	CM	Length mm
N521504	4	225
N521505-6	5-6	265



SEMI AUTOMATIC DRILL DRIFTS

ITEM: N5216

Special hardened burnished steel, thermoplastic handle.

Tech. Code	CM	Length mm
N52161-3	1-3	330



Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10



The products are available in chapter K

90° COUNTERSINKS HSS-CO Z3

ITEM: WX7400

90° countersinks Z3 in HSS-Co5% DIN 335-C for countersinking on all materials.



Tech. Code	D mm	L mm	D1 mm	D2 mm
N5214063	6,3	45	1,5	5
N5214083	8,3	50	2	6
N5214104	10,4	50	2,5	6
N5214124	12,4	56	2,8	8

Tech. Code	D mm	L mm	D1 mm	D2 mm
N5214165	16,5	60	3,2	10
N5214205	20,5	63	3,5	10
N5214250	25	67	3,8	10
N5214310	31	71	4,2	12

90° COUNTERSINKS HSS-CO Z3 KIT

ITEM: WX7400/S6

90° countersink set Z3 in HSS-Co5% DIN 335-C for countersinking on all materials.
High-quality ABS housing with practical locking system to prevent accidental opening.



Tech. Code	Composition	Parts
N521706	Countersink set WX7400 Ø 6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5 mm	6

STEP DRILL BITS FOR 180° SCREW SEATS

ITEM: WX7340

Step drills for through holes and countersinks for cylinder head screws, Z2 drill bit and Z4 countersink in HSSE for countersinking in ferrous and non-ferrous materials.



Tech. Code	For screws	Tip Ø mm	Countersinker Ø mm	Shank Ø mm	Tip length mm	Cutter length mm	Total length mm
N522203	M3	3,2	5,9	5	9	13	72
N522204	M4	4,3	7,4	6	11	14	72
N522205	M5	5,3	8,9	8	13	16	82
N522206	M6	6,4	10,4	8	15	18	88
N522208	M8	8,4	13,5	12	19	22	105
N522210	M10	10,5	16,5	12	23	22	108
N522212	M12	13	19	12	27	24	115

STEP DRILL BITS FOR 90° SCREW SEATS

ITEM: WX7342

Step drills for drilling through holes and countersinks for countersunk screws, drill bit and countersink Z2 in HSSE for countersinking in ferrous and non-ferrous materials.



Tech. Code	For screws	Tip Ø mm	Countersinker Ø mm	Shank Ø mm	Tip length mm	Total length mm
N522403	M3	3,2	6,3	6	9	65
N522404	M4	4,3	8,3	6	11	70
N522405	M5	5,3	10,4	8	13	80
N522406	M6	6,4	12,4	8	15	85
N522408	M8	8,4	16,5	10	19	90
N522410	M10	10,5	20,5	12	23	100
N522412	M12	13	25	13	28	115

CONICAL STEP DRILLS

ITEM: WX7550

Conical step drills **PREMIUM QUALITY** in HSS steel with high surface resistance, suitable for drilling ferrous materials, aluminium, copper and plastic with thicknesses of up to 5 mm. Dimensions of the drilling diameters laser engraved on the groove and cylindrical shank with driving planes.



Specifications:

N522713A - WX7550/13A Ø 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
N522722A - WX7550/22A Ø 4 - 7 - 10 - 13 - 16 - 19 - 22 mm
N522723A - WX7550/23A Ø 5 - 8 - 11 - 14 - 17 - 20 - 23 mm
N522724A - WX7550/24A Ø 6 - 9 - 12 - 15 - 18 - 21 - 24 mm
N522724B - WX7550/24B Ø 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 mm
N522730A - WX7550/30A Ø 4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 mm
N522740A - WX7550/40A Ø 7 - 10.5 - 12.5 - 14.5 - 16.5 - 18.5 - 20.5 - 23.5 - 25.5 - 30.5 - 34 - 38.5 - 40.5 mm
N522742A - WX7550/42A Ø 6 - 10 - 14 - 18 - 22 - 26 - 30 - 34 - 38 - 42 mm
N522744A - WX7550/44A Ø 8 - 12 - 16 - 20 - 24 - 28 - 32 - 36 - 40 - 44 mm
N522745A - WX7550/45A Ø 9 - 13 - 17 - 21 - 25 - 29 - 33 - 37 - 41 - 45 mm
N522750A - WX7550/50A Ø 9 - 13 - 17 - 21 - 25 - 29 - 33 - 37 - 41 - 45 - 50 mm
N5227PG - WX7550/PG Ø 6 - 9 - 12.5 - 15 - 18.6 - 20.5 - 22.5 - 26 - 28.5 - 30.5 - 34 - 37.5 mm

Tech. Code	Ø min/max mm	Progression mm	Shank Ø mm	L mm
N522713A	4 - 13	1	8	80
N522722A	4 - 22	3	8	64
N522723A	5 - 23	3	8	64
N522724A	6 - 24	3	8	65
N522724B	6 - 24	2	9	88
N522730A	4 - 30	2	9	100

Tech. Code	Ø min/max mm	Progression mm	Shank Ø mm	L mm
N522742A	6 - 42	4	11	82
N522744A	8 - 44	4	11	84
N522745A	9 - 45	4	11	84
N522750A	9 - 50	4 - 5	11	89
N522740A	7 - 40.5	-	10	115
N5227PG	6 - 37.5	PG (*)	10	100

(*) For making through holes for cable gland fittings with PG thread

ITEM: WX7555

Conical step drills **PREMIUM QUALITY** in HSS-CO steel with high surface resistance, suitable for drilling ferrous materials, aluminium, copper and plastic with thicknesses up to 5 and 10 mm. Cylindrical shank with driving surfaces.



Specifications:

Holes of up to 10 mm
N522823A - WX7555/23A Ø 5-8-11-14-17-20-23 mm
N522824A - WX7555/24A Ø 6-9-12-15-18-21-24 mm
N522825A - WX7555/25A Ø 7-10-13-16-19-22-25 mm
Holes of up to 5 mm
N522836A - WX7555/36A Ø 6-9-12-15-18-21-24-27-30-33-36 mm
N522837A - WX7555/37A Ø 7-10-13-16-19-22-25-28-31-34-37 mm
N522838A - WX7555/38A Ø 8-11-14-17-20-23-26-29-32-35-38 mm

Tech. Code	Ø min/max mm	Progression mm	Shank Ø mm	L mm
N522823A	5 - 23	3	10	110
N522824A	6 - 24	3	10	110
N522825A	7 - 25	3	10	110

Tech. Code	Ø min/max mm	Progression mm	Shank Ø mm	L mm
N522836A	6 - 36	3	11	97
N522837A	7 - 37	3	11	97
N522838A	8 - 38	3	11	97

STEPPED CONE CUTTERS

ITEM: WX7560

Stepped cutters made of HSS-CO5% suitable for drilling ferrous materials, aluminium, copper and plastics in thicknesses up to 4 mm, cylindrical shank with trailing flats.



Tech. Code	Ø min/max mm	Progression mm	Shank Ø mm	L mm
N523212A	4 - 12	1	6	78
N523220A	4 - 20	2	8	79

Tech. Code	Ø min/max mm	Progression mm	Shank Ø mm	L mm
N523230A	6 - 30	2	10	99
N523236A	9 - 36	3	10	77

ITEM: WX7560/S3

Set of stepped cutters made of HSS-CO5% suitable for drilling ferrous materials, aluminium, copper and plastics up to 4 mm thick, cylindrical shank with trailing flats.
High-quality ABS housing with practical locking system that prevents accidental opening.

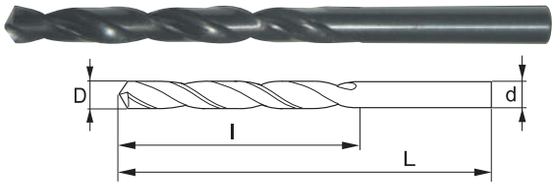


Tech. Code	Composition	Parts
N523506	Cutter set WX7560 Ø 4-12 - Ø 4-20 - Ø 6-30 mm	3

JOBBER DRILLS FOR SMALL PRODUCTION SERIES

DIN 338 | 118° | N/R

ITEM: N5240



Geometry Right hand N/R type normal flute
Point angle 118°
Surface treatment Vaporized
Application General application

Roll forged execution

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
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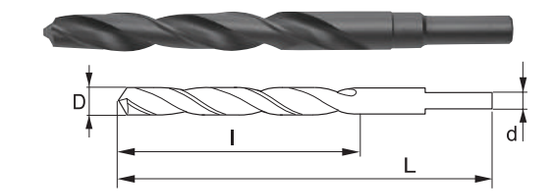
Tech. Code	D H8 mm	l mm	L mm	d mm
N524002,5	2,5	30	57	2,5
N524003	3	33	61	3
N524003,5	3,5	39	70	3,5
N524004	4	43	75	4
N524004,25	4,25	43	75	4,25
N524004,5	4,5	47	80	4,5
N524005	5	52	86	5
N524005,5	5,5	57	93	5,5
N524006	6	57	93	6
N524006,5	6,5	63	101	6,5
N524007	7	69	109	7
N524007,5	7,5	69	109	7,5

Tech. Code	D H8 mm	l mm	L mm	d mm
N524008	8	75	117	8
N524008,5	8,5	75	117	8,5
N524009	9	81	125	9
N524009,5	9,5	81	125	9,5
N524010	10	87	133	10
N524010,5	10,5	87	133	10,5
N524011	11	94	142	11
N524011,5	11,5	94	142	11,5
N524012	12	101	151	12
N524012,5	12,5	101	151	12,5
N524013	13	101	151	13

DRILLS WITH REDUCED SHANK

DIN 338 | 118° | N/R

ITEM: N5241



Geometry Right hand N/R type normal flute
Point angle 118°
Surface treatment Vaporized
Application General application

Roll forged execution.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
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Tech. Code	D mm	l mm	L mm	d mm
N524110,5	10,5	87	133	10
N524111	11	94	142	10
N524111,5	11,5	94	142	10
N524112	12	101	151	10
N524112,5	12,5	101	151	10
N524113	13	101	151	10
N524113,5	13,5	108	160	13
N524114	14	108	160	13
N524114,5	14,5	114	169	13
N524115	15	114	169	13

Tech. Code	D mm	l mm	L mm	d mm
N524115,5	15,5	120	178	13
N524116	16	120	178	13
N524116,5	16,5	125	184	13
N524117	17	125	184	13
N524117,5	17,5	130	191	13
N524118	18	130	191	13
N524118,5	18,5	135	198	13
N524119	19	135	198	13
N524119,5	19,5	140	205	13
N524120	20	140	205	13

ITEM: WX7250/S19 - WX7250/S25

Ground cylindrical drill bit set in HSS DIN 338 Type N Right-hand cut and polished finish, 118° vertex angle with split point.
High-quality ABS case with practical locking system that prevents accidental opening.



Tech. Code	Composition	Parts
N524319	Drill bit set WX7250 1.00 to 10.00 x 0.50	19
N524325	Drill bit set WX7250 1.00 to 13.00 x 0.50	25

ITEM: WX7250/S50 - WX7250/S41

Ground cylindrical drill bit set in HSS DIN 338 Type N Right-hand cut and polished finish, 118° vertex angle with split point.
High-quality ABS case with practical locking system that prevents accidental opening.



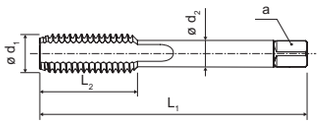
Tech. Code	Composition	Parts
N524450	Drill bit set WX7250 1.00 to 5.90 x 0.10	50
N524441	WX7250 drill bit set 6.00 to 10.00 x 0.10	41

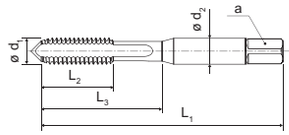
FINISHING TAPS

ITEM: WX7350/3

Hand taps finishing HSS-G DIN 352 coarse thread ISO 2/6H DIN 13, for blind and through holes on steels up to 900 N/mm² tensile strength.







Other dimensions and fine pitches available on request

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
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Tech. Code	d1 mm	P	L1 mm	L2 mm	d2 mm	a mm	Preforo mm
N525103	M3	0,5	40	12	3,5	2,7	2,5
N525104	M4	0,7	45	14	4,5	3,4	3,3
N525105	M5	0,8	50	16	4,9	4,9	4,2
N525106	M6	1	56	19	4,9	4,9	5
N525108	M8	1,25	56	22	6	4,9	6,8
N525110	M10	1,5	70	24	7	5,5	8,5

Tech. Code	d1 mm	P	L1 mm	L2 mm	d2 mm	a mm	Preforo mm
N525112	M12	1,75	75	28	9	7	10,2
N525114	M14	2	80	30	11	9	12
N525116	M16	2	80	32	12	9	14
N525118	M18	2,5	95	34	14	11	15,5
N525120	M20	2,5	95	34	16	12	17,5

HAND TAPS IN 3-PIECE SERIES

ITEM: WX7350

Set of 3 hand taps made of HSS-G DIN 352 coarse thread ISO 2/6H DIN 13, for blind and through holes on steels up to to 900 N/mm² tensile strength, each size consists of a taper tap, an intermediate tap and a finishing tap.



Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Pre-hole mm
N525403	M3	0,5	40	12	3,5	2,7	2,5
N525404	M4	0,7	48	14	4,5	3,4	3,3
N525405	M5	0,8	50	16	4,9	4,9	4,2
N525406	M6	1	56	19	4,9	4,9	5
N525408	M8	1,25	56	22	6	4,9	6,8
N525410	M10	1,5	70	24	7	5,5	8,5
N525412	M12	1,75	75	28	9	7	10,2
N525414	M14	2	80	30	11	9	12
N525416	M16	2	80	32	12	9	14
N525418	M18	2,5	95	34	14	11	15,5
N525420	M20	2,5	95	34	16	12	17,5

Other dimensions and fine pitches available on request

HAND TAPS IN KITS

ITEM: WX7350/S21

Set of hand taps made of HSS DIN 352 coarse thread ISO DIN 13, for blind and through holes on steels up to 900 N/mm² tensile strength, each size consists of a taper tap, an intermediate tap and a finishing tap.
High-quality ABS cassette with practical locking system that prevents accidental opening.



Tech. Code	Composition	Parts
N525521	Set of 3 hand taps M3 - M4 - M5 - M6 - M8 - M10 - M12	21

TAPS AND DRILL BITS IN KITS

ITEM: WX7360/S14

Set of machine taps in HSSE DIN 371/376 coarse thread ISO DIN 13 for through holes and ground cylindrical drills in HSS DIN 338 Type N Right cut, polished finish, 118° vertex angle with split point.
High quality ABS cassette with practical locking system to prevent accidental opening.



Tech. Code	Composition	Parts
N525614	Taps M3 - M4 - M5 - M6 - M8 - M10 - M12 Drills Ø 2.5 - 3.3 - 4.2 - 5 - 6.8 - 8.5 - 10.2 mm	14

TAPS FOR THROUGH HOLES

WODEX

DIN 371/6 | HSSE

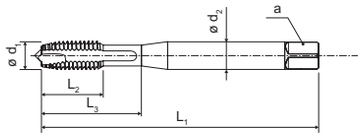


ITEM: WX7360

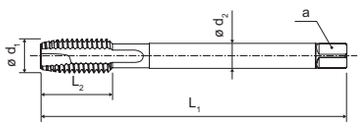
Machine taps in HSSE DIN 371/376 for through holes
ISO coarse thread DIN 13

Tolerance 6H ISO 2
Surface finish Polisher
Thread depth < 2xD
Hole type Loop
Application General use on low-alloy steels

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze	>700	Ti6Al4V	HTA	< 45	< 60
●	○	○						●									

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Preforo mm
N525703	3	0,5	56	10	3,5	2,7	2,5
N525704	4	0,7	63	12	4,5	3,4	3,3
N525705	5	0,8	70	14	6	4,9	4,2
N525706	6	1	80	16	6	4,9	5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Preforo mm
N525708	8	1,25	90	18	8	6,2	6,8
N525710	10	1,5	100	20	10	8	8,5
N525712	12	1,75	110	25	9	7	10,2

TAPS FOR BLIND HOLES

WODEX

DIN 371/6 | HSSE

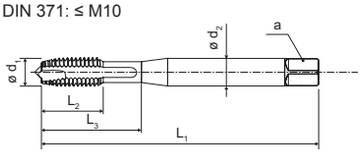


ITEM: WX7365

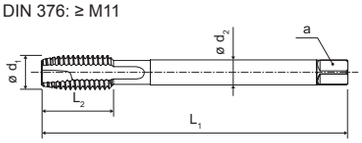
Machine taps in HSSE DIN 371/376 for blind holes
ISO coarse thread DIN 13

Tolerance 6H ISO 2
Surface finish Polisher
Thread depth < 2.5xD
Hole type Blind
Application General use on low-alloy steels

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze	>700	Ti6Al4V	HTA	< 45	< 60
●	○	○						●									

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Preforo mm
N525903	3	0,5	56	7	3,5	2,7	2,5
N525904	4	0,7	63	8,5	4,5	3,4	3,3
N525905	5	0,8	70	10	6	4,9	4,2
N525906	6	1	80	12	6	4,9	5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Preforo mm
N525908	8	1,25	90	15	8	6,2	6,8
N525910	10	1,5	100	17	10	8	8,5
N525912	12	1,75	110	18	9	7	10,2

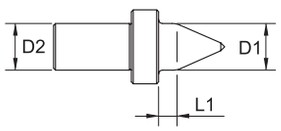
THERMAL FRICTION DRILLS

DRABUS®

ITEM: N5260

The DRABUS friction drilling process creates the possibility of making holes in thin metal sheets and thin-walled tubes in just a few seconds without chips, while forming a bushing at the same time. This bushing can be used as a soldering or welding connection or as a bearing bushing. By tapping a screw-thread it can also be used as screw connection. The DRABUS friction drilling process replaces and eliminates the use of rivet or welding nuts as well as steel insert bushings. It accordingly saves time, work and material.





Tech. Code	D1 mm	Threading mm	Max thickness mm	L1 mm	D2 mm	RPM
N5260370	3,7	M4 x 0,7	<0,7	3	6	5300
N5260460	4,6	M5 x 0,8	<1,0	4,5	8	4100
N5260540	5,4	M6 x 1,0	<1,0	5	8	3500
N5260730	7,3	M8 x 1,25	<1,5	6	8	3300
N5260920	9,2	M10 x 1,5 - 1/8" Gas	<2,0	7,5	12	2750
N52601240	12,4	1/4" Gas	<2,0	6,3	12	2000

CUP SAWS

ITEM: WX7485

HSS-Co steel holesaws 8% - M42 with variable tooth pitch 4/6 which increases tool life and reduces cutting time, max. cutting depth 38 mm.
Applications:
Drilling through holes in metals, non-ferrous metals, wood and plastics.
The use of cutting oils is recommended.



Tech. Code	Ø mm
N5265014	14
N5265016	16
N5265017	17
N5265019	19
N5265020	20
N5265021	21
N5265022	22
N5265024	24
N5265025	25
N5265027	27
N5265029	29
N5265030	30
N5265032	32
N5265033	33
N5265035	35
N5265037	37
N5265038	38
N5265040	40
N5265041	41
N5265043	43
N5265044	44
N5265045	45

Tech. Code	Ø mm
N5265046	46
N5265048	48
N5265050	50
N5265051	51
N5265052	52
N5265054	54
N5265055	55
N5265057	57
N5265059	59
N5265060	60
N5265064	64
N5265065	65
N5265067	67
N5265068	68
N5265070	70
N5265073	73
N5265074	74
N5265075	75
N5265076	76
N5265079	79
N5265083	83
N5265086	86

Tech. Code	Ø mm
N5265089	89
N5265092	92
N5265095	95
N5265098	98
N5265100	100
N5265102	102
N5265105	105
N5265108	108
N5265111	111
N5265114	114
N5265121	121
N5265127	127
N5265133	133
N5265140	140
N5265146	146
N5265152	152
N5265160	160
N5265168	168
N5265175	175
N5265177	177
N5265210	210

ATTACHMENTS FOR HOLESAWS

ITEM: WX7488

Universal attachments for holesaws complete with pilot drill and spring for swarf ejection.



Tech. Code	For saws Ø mm	Shank mm	Tip Ø x L mm
N526806	14 - 30	6,3	6,3 x 105

ITEM: WX7486

Universal attachments for holesaws complete with pilot drill and spring for swarf ejection.



Tech. Code	For saws Ø mm	Shank mm	Tip Ø x L mm
N526609	14 - 30	⬣ 9,5	6,3 x 75
N526611	14 - 30	⬣ 11	6,3 x 75

ITEM: WX7487

Version with driver for holesaws Ø 32 to Ø 210 mm



Tech. Code	For saws Ø mm	Shank mm	Tip Ø x L mm
N526711	32 - 210	⬣ 11	6,3 x 75

HOLESAW BITS

ITEM: WX7489

HSS- CO 5 replacement drill bits for holesaws.



Tech. Code		N5269075	N5269105
Ø	mm	6,3	6,3
L	mm	75	105

N

BI-METAL HOLESAWS

ITEM: N5270

Bi-metal saw ring with HSS M42 (8% Co) cutting edge, sturdy steel body construction, medium hardness 63 HRC, suitable for steel, aluminium, copper, bronze, etc., max. cutting depth 35 mm.

Tech. Code	Ø mm
N527014	14
N527016	16
N527017	17
N527019	19
N527020	20
N527021	21
N527022	22
N527024	24
N527025	25
N527027	27
N527029	29
N527030	30
N527032	32
N527033	33
N527035	35
N527037	37
N527038	38

Tech. Code	Ø mm
N527040	40
N527041	41
N527043	43
N527044	44
N527046	46
N527048	48
N527051	51
N527052	52
N527054	54
N527057	57
N527059	59
N527060	60
N527064	64
N527065	65
N527067	67
N527068	68
N527070	70

Tech. Code	Ø mm
N527073	73
N527076	76
N527079	79
N527083	83
N527086	86
N527092	92
N527095	95
N527098	98
N5270102	102
N5270105	105
N5270108	108
N5270111	111
N5270114	114
N5270121	121
N5270127	127
N5270140	140
N5270152	152



While stocks last

ITEM: N5276

Set of 6 bimetallic hole saws for precision drilling with cutting depth of 35 mm max. Recommended for cutting steel, cast Iron, aluminum, copper, wood and plastic.

Composition:
- 6 Hole saws Ø 22 - 29 - 35 - 44 - 51 - 64 mm
- 1 Attack 14-30 mm
- 1 Attack 32-152 mm
- 1 Reduction

Tech. Code	Pieces
N5276SET6	9



While stocks last

SHARK BIMETAL HOLESAWS

ITEM: N5272

Cutting edge made of Bi-metal HSS 8% Cobalt (M42). Progressive variable toothing 4/6 suitable for Steel, Stainless Steel, Aluminium, Copper, Bronze, etc. Maximum cutting depth 48mm.

Tech. Code	Ø mm
N527214	14
N527216	16
N527217	17
N527219	19
N527220	20
N527221	21
N527222	22
N527224	24
N527225	25
N527229	29
N527230	30
N527232	32
N527233	33
N527235	35
N527237	37
N527238	38
N527240	40
N527241	41

Tech. Code	Ø mm
N527243	43
N527244	44
N527245	45
N527246	46
N527248	48
N527250	50
N527251	51
N527252	52
N527254	54
N527255	55
N527257	57
N527259	59
N527260	60
N527264	64
N527265	65
N527267	67
N527268	68
N527270	70

Tech. Code	Ø mm
N527275	75
N527276	76
N527283	83
N527286	86
N527292	92
N527295	95
N527298	98
N5272100	100
N5272102	102
N5272105	105
N5272108	108
N5272111	111
N5272114	114
N5272121	121
N5272127	127
N5272140	140
N5272146	146
N5272152	152



SHARK TOOTH



While stocks last

ITEM: N5277

Kit 9 pcs bi-metal hole saws SHARK HIGH SPEED with progressive variable toothing 4/6, including two attachments and a reduction.

Composition:
- 9 Hole saws Ø 19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64 mm
- 1 Attack 14-30 mm
- 1 Attack 32-152 mm
- 1 Reduction

Tech. Code	Pieces
N5277SET9	12



While stocks last

HOLE CUTTERS FOR STEEL

ITEM: WX7495

Hole cutters **Premium Quality** in HSS hole cutters with ground sharpening for immediate chip evacuation and greater cutting performance.
Complete with spindle, bit and spring for waste expulsion.
Application:
Excution of through holes on steel sheets, light alloys and plastics with a depth of up to 5 mm.The use of cutting oils is recommended.



Tech. Code	Ø mm	d mm	D mm	h mm
N527510	10	5	7	20
N527511	11	5	7	20
N527512	12	5	7	20
N527513	13	5	7	20
N527514	14	5	8	20
N527515	15	5	8	20
N527516	16	5	8	20
N527517	17	5	8	20
N527518	18	5	8	20
N527519	19	5	8	20
N527520	20	5	8	20
N527521	21	5	8	20
N527522	22	5	8	20
N527523	23	6	9	20
N527524	24	6	9	20
N527525	25	6	9	20
N527526	26	6	9	20
N527527	27	6	9	20
N527528	28	6	9	20
N527529	29	6	9	20
N527530	30	6	9	20
N527531	31	6	9	22
N527532	32	6	9	22
N527533	33	6	9	22
N527534	34	6	9	22
N527535	35	6	9	22
N527536	36	6	9	22
N527537	37	6	9	22
N527538	38	6	9	22
N527539	39	6	9	22
N527540	40	6	9	22

Tech. Code	Ø mm	d mm	D mm	h mm
N527541	41	6	10	22
N527542	42	6	10	22
N527543	43	6	10	22
N527544	44	6	10	22
N527545	45	6	10	22
N527546	46	6	10	22
N527547	47	6	10	22
N527548	48	6	10	22
N527549	49	6	10	22
N527550	50	6	10	22
N527551	51	6	10	24
N527552	52	6	10	24
N527553	53	6	10	24
N527554	54	6	10	24
N527555	55	6	10	24
N527556	56	6	10	24
N527557	57	6	10	24
N527558	58	6	10	24
N527559	59	6	10	24
N527560	60	6	10	24
N527561	61	8	12	26
N527562	62	8	12	26
N527563	63	8	12	26
N527564	64	8	12	26
N527565	65	8	12	26
N527566	66	8	12	26
N527567	67	8	12	26
N527568	68	8	12	26
N527569	69	8	12	26
N527570	70	8	12	26
N527571	71	8	12	26

Tech. Code	Ø mm	d mm	D mm	h mm
N527572	72	8	12	26
N527573	73	8	12	26
N527574	74	8	12	26
N527575	75	8	12	26
N527576	76	8	12	26
N527577	77	8	12	26
N527578	78	8	12	26
N527579	79	8	12	26
N527580	80	8	12	26
N527581	81	8	12	26
N527582	82	8	12	26
N527583	83	8	12	26
N527584	84	8	12	26
N527585	85	8	12	26
N527586	86	8	12	26
N527587	87	8	12	26
N527588	88	8	12	26
N527589	89	8	12	26
N527590	90	8	12	26
N527591	91	8	13	28
N527592	92	8	13	28
N527593	93	8	13	28
N527594	94	8	13	28
N527595	95	8	13	28
N527596	96	8	13	28
N527597	97	8	13	28
N527598	98	8	13	28
N527599	99	8	13	28
N5275100	100	8	13	28

HSSE HOLE CUTTERS FOR STEEL AND STAINLESS STEEL

ITEM: WX7500

Hole cutters **PREMIUM QUALITY** in HSSE with special ground sharpening for immediate chip evacuation and greater cutting efficiency.
Complete with spindle, bit and spring for the ejection of waste.
Application:
For making through holes in steel, stainless steel, light alloys and hard plastic with depth of up to 10 mm.
It is recommended to use cutting oil.



Tech. Code	Ø mm	d mm	D mm	h mm
N527810	10	5	7	15
N527811	11	5	7	15
N527812	12	5	7	21
N527813	13	5	7	21
N527814	14	5	8	21
N527815	15	5	8	21
N527816	16	5	8	21
N527817	17	5	8	21
N527818	18	5	8	22
N527819	19	5	8	22
N527820	20	5	8	23
N527821	21	5	8	23
N527822	22	5	8	23
N527823	23	6	9	23
N527824	24	6	9	25
N527825	25	6	9	25
N527826	26	6	9	25
N527827	27	6	9	25
N527828	28	6	9	25
N527829	29	6	9	25
N527830	30	6	9	25
N527831	31	6	9	27
N527832	32	6	9	27
N527833	33	6	9	27
N527834	34	6	9	27
N527835	35	6	9	27
N527836	36	6	10	27
N527837	37	6	10	27
N527838	38	6	10	27
N527839	39	6	10	27
N527840	40	6	10	27

Tech. Code	Ø mm	d mm	D mm	h mm
N527841	41	6	10	27
N527842	42	6	10	27
N527843	43	6	10	27
N527844	44	6	10	27
N527845	45	6	10	27
N527846	46	6	10	27
N527847	47	6	10	27
N527848	48	6	10	27
N527849	49	6	10	27
N527850	50	8	12	27
N527851	51	8	12	27
N527852	52	8	12	27
N527853	53	8	12	27
N527854	54	8	12	27
N527855	55	8	12	28
N527856	56	8	12	28
N527857	57	8	12	28
N527858	58	8	12	28
N527859	59	8	12	28
N527860	60	8	12	28
N527861	61	8	12	28
N527862	62	8	12	28
N527863	63	8	12	28
N527864	64	8	12	28
N527865	65	8	12	29
N527866	66	8	12	29
N527867	67	8	12	29
N527868	68	8	12	29
N527869	69	8	12	29
N527870	70	8	12	29
N527871	71	8	12	29

Tech. Code	Ø mm	d mm	D mm	h mm
N527872	72	8	12	29
N527873	73	8	12	29
N527874	74	8	12	29
N527875	75	8	12	29
N527876	76	8	12	29
N527877	77	8	12	29
N527878	78	8	12	29
N527879	79	8	12	29
N527880	80	8	12	29
N527881	81	8	12	29
N527882	82	8	12	29
N527883	83	8	12	29
N527884	84	8	12	29
N527885	85	8	12	29
N527886	86	8	12	29
N527887	87	8	12	29
N527888	88	8	12	29
N527889	89	8	12	29
N527890	90	8	12	29
N527891	91	8	13	30
N527892	92	8	13	30
N527893	93	8	13	30
N527894	94	8	13	30
N527895	95	8	13	30
N527896	96	8	13	30
N527897	97	8	13	30
N527898	98	8	13	30
N527899	99	8	13	30
N5278100	100	8	13	30

HOLE CUTTERS TCT FOR STEEL AND STAINLESS STEEL

WODEX

ITEM: WX7510

Hole cutters **TCT** (Tungsten Carbide Tipped) complete with fixed chuck, usable with portable drills and column drills with manual feed, complete with pilot tip and spring for ejecting scrap.
Applications:
Making through holes on steel sheets, tubes and profiles with a thickness of up to 4 mm, AISI 304 and AISI 316L stainless steel up to 2 mm, light alloys, fibreglass, hard plastics and sandwich panels. The use of cutting oils is recommended.



Tech. Code	Ø mm	d mm	D mm	h mm
N5286016	16	6	10	29
N5286017	17	6	10	29
N5286018	18	6	10	29
N5286019	19	6	10	29
N5286020	20	6	10	29
N5286021	21	6	10	29
N5286022	22	6	10	29
N5286024	24	6	10	29
N5286025	25	6	10	29
N5286026	26	6	10	29
N5286027	27	6	10	29
N5286028	28	6	10	29
N5286030	30	6	10	29
N5286031	31	6	10	29
N5286032	32	6	10	29
N5286033	33	6	10	29
N5286034	34	6	10	29
N5286035	35	6	10	29
N5286036	36	6	10	29

Tech. Code	Ø mm	d mm	D mm	h mm
N5286037	37	6	10	29
N5286038	38	6	10	29
N5286040	40	6	10	29
N5286042	42	6	10	29
N5286045	45	6	10	29
N5286047	47	6	10	29
N5286048	48	6	10	29
N5286050	50	6	10	29
N5286051	51	6	10	29
N5286052	52	6	10	29
N5286054	54	6	10	29
N5286055	55	6	10	29
N5286057	57	6	10	29
N5286060	60	6	10	29
N5286062	62	6	10	29
N5286065	65	6	10	29
N5286068	68	6	10	29
N5286070	70	6	10	29
N5286073	73	6	10	29

Tech. Code	Ø mm	d mm	D mm	h mm
N5286076	76	6	10	29
N5286078	78	6	10	29
N5286080	80	6	10	29
N5286082	82	6	10	29
N5286083	83	6	10	29
N5286090	90	6	10	29
N5286095	95	6	10	29
N5286100	100	6	10	29
N5286105	105	6	10	29
N5286110	110	6	10	29
N5286115	115	6	10	29
N5286125	125	6	10	29
N5286130	130	6	10	29
N5286135	135	6	10	29
N5286140	140	6	10	29
N5286145	145	6	10	29
N5286150	150	6	10	29

Measurements not in stock are available within 2 weeks.

TAP EXTRACTORS FOR BROKEN TAPS

ITEM: N5293

Remove broken taps and save the threads. Walton Tap Extractors let you remove broken taps without drilling, lasers, damaged threads, scrapped parts or repair inserts.



Model with 3 beam to put into the groove of a broken taps.

Tech. Code	MA	UM
N529303	M3	#4
N529304	M4	#8
N529305	M5	#10
N529306	M6	1/4"

Tech. Code	MA	UM
N529308	M8 - M7	5/16"
N529310	M10 - M9	3/8"
N529312	M12	1/2"

TWIST DRILLS FOR MASONRY/CONCRETE

BOSCH

ITEM: SILVER PERCUSSION

Head with special geometry for high feed, wide HM cutting edge discharged at the bottom to avoid drill bit breakage and hard steel body with “U” spiral groove. Suitable for drilling masonry, concrete, natural and artificial stone.





Tech. Code	D mm	L1 mm	L2 mm
N53013X70	3	40	70
N53014X75	4	40	75
N53015X85	5	50	85
N53016X100	6	60	100
N53018X120	8	80	120
N53018X200	8	150	200
N53018X400	8	350	400
N530110X120	10	80	120
N530110X200	10	150	200

Tech. Code	D mm	L1 mm	L2 mm
N530110X400	10	350	400
N530112X150	12	90	150
N530112X200	12	150	200
N530112X400	12	350	400
N530114X150	14	90	150
N530114X400	14	350	400
N530116X160	16	100	160
N530116X400	16	350	400

DRILL BIT SET FOR MASONRY/CONCRETE

BOSCH

ITEM: CYL-3

Drill bit set in plastic case.
Composition: Ø x Length
N5302SET5/1 4 x 75 - 5 x 85 - 6 x 100 (2 pcs.) - 8 x 120
N5302SET7/1 4 x 75 - 5 x 85 - 6 x 100 (2 pcs.) - 7 x 100 - 8 x 120 - 10 x 120



Tech. Code	Ø for length mm	Pieces
N5302SET5/1	4x75 - 5x85 - 6x100 (2 pcs.) - 8x120	5
N5302SET7/1	4x75 - 5x85 - 6x100 (2 pcs.) - 7x100 - 8x120 - 10x120	7

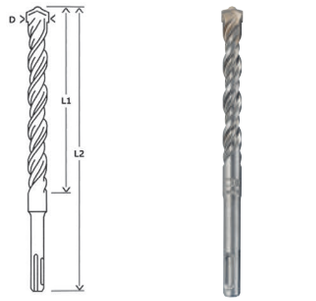
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DRILL BITS FOR CONCRETE SDS-PLUS WITH TWO CUTTERS

BOSCH

ITEM: N5305

Head with HM cutting edges and geometry optimized for maximum energy transmission for fast drilling. Innovative four-fold spiral flute for the rapid removal of drilling dust, vibration reduction and for greater tip stability and durability.
Suitable for drilling masonry, reinforced concrete, natural and artificial stone.



Tech. Code	D mm	L1 mm	L2 mm	Z
N53054X110	4	50	110	2
N53055X115	5	50	115	2
N53055X160	5	100	160	2
N53056X110	6	50	110	2
N53056X160	6	100	160	2
N53056X210	6	150	210	2
N53058X110	8	50	110	2
N53058X160	8	100	160	2
N53058X210	8	150	210	2
N53058X260	8	200	260	2
N53058X460	8	400	460	2
N530510X160	10	100	160	2
N530510X210	10	150	210	2
N530510X260	10	200	260	2
N530510X460	10	400	460	2
N530512X160	12	100	160	2

Tech. Code	D mm	L1 mm	L2 mm	Z
N530512X210	12	150	210	2
N530512X260	12	200	260	2
N530512X460	12	400	460	2
N530514X160	14	100	160	2
N530514X210	14	150	210	2
N530514X260	14	200	260	2
N530514X460	14	400	460	2
N530516X210	16	150	210	2
N530516X310	16	250	310	2
N530516X450	16	400	450	2
N530518X300	18	250	300	2
N530518X450	18	400	450	2
N530520X300	20	250	300	2
N530520X450	20	400	450	2
N530522X450	22	400	450	2
N530525X450	25	400	450	2

ITEM: N5306

Drill bit set in plastic case.



Composition: Ø x Length 5 x 110 - 6 x 110 - 6 x 160 - 8 x 160 - 10 x 160 mm

Tech. Code	z	Pieces
N5306SET5/2	2	5

KIT TOOL BOX FOR PROFESSIONALS

WRK

ITEM: N5225

Kit tool box composed of:



HAND TAPS HSS DIN 352 / M3-M12
- For cutting internal threads
- Tested industrial quality

90° COUNTERSINKS HSS DIN 335 C / TIN / Ø 6,3-20,5 mm
- 100% defined cutting geometric
- Optimized chip removal
- Tested and reliable industrial quality

TWIST DRILLS HSS-G Ø 1-10,5 mm x 0,5 mm IN PASSI
- Universal twist drill for cordless drilling machines
- Ø 1,0-10,5 mm + Ø 3,3 / 4,2 / 6,8 / 10,2 mm (size for threading)
- For the most materials

Tech. Code	Pieces n°
N5225SET3	51

While stocks last

FOUR-CUTTER SDS-PLUS DRILLS FOR CONCRETE

WODEX

ITEM: WX7590

Drills with SDS-Plus shank and 4-cutter carbide drill head for working on reinforced concrete and masonry in general.
State-of-the-art drill bit geometry significantly increases drill bit lifetime and reduces vibration.



Tech. Code	D mm	L1 mm	L2 mm
N529905110	5	50	110
N529905160	5	100	160
N529906110	6	50	110
N529906160	6	100	160
N529906210	6	150	210
N529906260	6	200	260
N529908110	8	50	110
N529908160	8	100	160
N529908210	8	150	210
N529908260	8	200	260
N529908310	8	250	310
N529908450	8	400	450
N529910160	10	100	160
N529910210	10	150	210
N529910260	10	200	260
N529910310	10	250	310
N529910450	10	400	450
N529910600	10	550	600

Tech. Code	D mm	L1 mm	L2 mm
N529912160	12	100	160
N529912210	12	150	210
N529912260	12	200	260
N529912310	12	250	310
N529912450	12	400	450
N529912600	12	550	600
N529914160	14	100	160
N529914210	14	150	210
N529914260	14	200	260
N529914310	14	250	310
N529914450	14	400	450
N529914600	14	550	600
N529916210	16	150	210
N529916260	16	200	260
N529916310	16	250	310
N529916450	16	400	450
N529916600	16	550	600

FOUR-CUTTER SDS-PLUS CONCRETE DRILL BIT KIT

ITEM: WX7590/S7

Set of drills with SDS-Plus shank and 4-cutter carbide drill head for working on reinforced concrete and masonry in general.
State-of-the-art drill bit geometry significantly increases drill bit lifetime and reduces vibration.
High-quality ABS housing with practical locking system that prevents accidental opening.



Tech. Code	Composition	Parts
N530007	Drill bit set WX7590 Ø 5x110 - 6x110 - 8x110 - 6x160 - 8x160 - 10x160 - 12x160 mm	7

EMPTY TOOL KIT BOXES

ITEM: WX7250 - WX7350 - WX7360 - WX7400 - WX7560 - WX7590

High-quality ABS enclosures with practical locking system that prevents accidental opening.



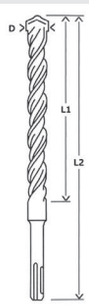
Tech. Code	Description	Pieces
N5308019	For drill bit sets DIN 338 1.00 to 10.00 x 0.50	19
N5308025	For drill bit sets DIN 338 1.00 to 13.00 x 0.50	25
N5308041	For drill bit sets DIN 338 6.00 to 10.00 x 0.10	41
N5308050	For drill bit sets DIN 338 1.00 to 5.90 x 0.10	50
N5308407	For SDS-Plus drill bit sets Ø 5-6-8x110 mm and Ø 6-8-10-12x160 mm	7
N5308206	For countersink sets DIN 335 Ø 6.3-8.3-10.4-12.4-16.5-20.5 mm	6
N5308303	For step cutter sets Ø 4-12 - Ø 4-20 - Ø 6-30 mm	3
N5308121	For set of 3 hand taps DIN 352 M3-M12	21
N5308107	For tap sets DIN371/376 M3-M12 and 7 bits DIN 338	14

DRILL BITS FOR CONCRETE SDS-PLUS WITH FOUR CUTTERS

ITEM: MX4

The SDS-Plus drills with 4 tungsten carbide cutters guarantee performance and durability up to 4 times higher than the same tips with 2 cutters. Suitable for drilling masonry, reinforced concrete, natural and artificial stone.

Features:
- 4-flute geometry for the maximum removal of drilling dust and debris
- Centring tip for easy spot drilling with pinpoint accuracy
- Enhanced rebar guards for improved resistance when hitting rebars
- New flute design with thin flute at the tip for maximum debris extraction, higher speed and less friction.





Tech. Code	D mm	L1 mm	L2 mm
N531005X115	5	50	115
N531005X165	5	100	165
N531006X115	6	50	115
N531006X165	6	100	165
N531006X215	6	150	215
N531006X265	6	200	265
N531007X165	7	100	165
N531008X115	8	50	115
N531008X165	8	100	165
N531008X215	8	150	215
N531008X265	8	200	265
N531008X315	8	250	315
N531010X160	10	100	160
N531010X215	10	150	215

Tech. Code	D mm	L1 mm	L2 mm
N531010X265	10	200	265
N531010X315	10	250	315
N531012X160	12	100	160
N531012X210	12	150	210
N531012X260	12	200	260
N531012X310	12	250	310
N531014X210	14	150	210
N531016X210	16	150	210
N531016X260	16	200	260
N531016X310	16	250	310
N531016X450	16	400	450
N531018X250	18	200	250
N531020X250	20	200	250
N531020X450	20	400	450

SDS - PLUS POINTED CHISELS FOR ROTARY AND DEMOLITION HAMMERS

ITEM: N5350

Coupling SDS Plus



Tech. Code	Length mm
N5350250	250

SDS - PLUS FLAT CHISELS FOR ROTARY AND DEMOLITION HAMMERS

ITEM: N5351

Coupling SDS Plus



Tech. Code	Cutting edge mm	Length mm
N5351250	20	250

SDS - MAX POINTED CHISELS FOR ROTARY AND DEMOLITION HAMMERS

ITEM: N5352

Coupling SDS Max



Tech. Code	Length mm
N5352400	400

SDS - MAX FLAT CHISELS FOR ROTARY AND DEMOLITION HAMMERS

ITEM: N5353

Coupling SDS Max



Tech. Code	Cutting edge mm	Length mm
N5353400	25	400

MILLING CUTTERS IN HSS WITH WELDON COUPLING 19

ITEM: HSS NOVA 25 3/4" WELDON

HSS core drills with Weldon 19 - 3/4" coupling for drilling steel and aluminium with magnetic-based drilling units.**Maximum cutting depth 25 mm**.



Tech. Code	Ø mm
N540012	12
N540013	13
N540014	14
N540015	15
N540016	16
N540017	17
N540018	18
N540019	19
N540020	20
N540021	21
N540022	22
N540023	23
N540024	24
N540025	25
N540026	26
N540027	27
N540028	28

Tech. Code	Ø mm
N540029	29
N540030	30
N540031	31
N540032	32
N540033	33
N540034	34
N540035	35
N540036	36
N540037	37
N540038	38
N540039	39
N540040	40
N540041	41
N540042	42
N540043	43
N540044	44
N540045	45

Tech. Code	Ø mm
N540046	46
N540047	47
N540048	48
N540049	49
N540050	50
N540051	51
N540052	52
N540053	53
N540054	54
N540055	55
N540056	56
N540057	57
N540058	58
N540059	59
N540060	60

MILLING CUTTERS IN HM WITH WELDON COUPLING 19

ITEM: HM ULTRA 35 3/4" WELDON

HM core drills with Weldon 19 - 3/4" coupling and hard metal teeth. High durability and considerable removal capacity on steel and stainless steel. Can be used with magnetic-based drilling units. **Maximum cutting depth 35 mm**.



Tech. Code	Ø mm
N541012	12
N541013	13
N541014	14
N541015	15
N541016	16
N541017	17
N541018	18
N541019	19
N541020	20
N541021	21
N541022	22
N541023	23
N541024	24
N541025	25
N541026	26
N541027	27
N541028	28

Tech. Code	Ø mm
N541029	29
N541030	30
N541031	31
N541032	32
N541033	33
N541034	34
N541035	35
N541036	36
N541037	37
N541038	38
N541039	39
N541040	40
N541041	41
N541042	42
N541043	43
N541044	44
N541045	45

Tech. Code	Ø mm
N541046	46
N541047	47
N541048	48
N541049	49
N541050	50
N541051	51
N541052	52
N541053	53
N541054	54
N541055	55
N541056	56
N541057	57
N541058	58
N541059	59
N541060	60

MILLING CUTTERS IN HSS WITH QUICKIN QUICK COUPLING

ITEM: HSS NOVA 25 QUICKIN

HSS core drills with **QuickIN** coupling for drilling steel and aluminum with magnetic-based drilling units.
Maximium cutting depth 25 mm.

Tech. Code	Ø mm
N542012	12
N542013	13
N542014	14
N542015	15
N542016	16
N542017	17
N542018	18
N542019	19
N542020	20
N542021	21
N542022	22
N542023	23
N542024	24

Tech. Code	Ø mm
N542025	25
N542026	26
N542027	27
N542028	28
N542029	29
N542030	30
N542031	31
N542032	32
N542033	33
N542034	34
N542035	35
N542036	36
N542037	37

Tech. Code	Ø mm
N542038	38
N542039	39
N542040	40
N542041	41
N542042	42
N542043	43
N542044	44
N542045	45
N542046	46
N542047	47
N542048	48
N542049	49
N542050	50



MILLING CUTTERS IN HM WITH QUICKIN QUICK COUPLING

ITEM: HM ULTRA 35 QUICKIN

HM core drills with **QuickIN** quick coupling and teeth in hard metal. High durability and considerable removal capacity on steel and stainless steel. Can be used with magnet based drilling units. Max cutting depth 35 mm.with **QuickIN** quick coupling and teeth in hard metal. High durability and considerable removal capacity on steel and stainless steel. Can be used with magnet based drilling units. **Max cutting depth 35 mm.**

Tech. Code	Ø mm
N543012	12
N543013	13
N543014	14
N543015	15
N543015,5	15,5
N543016	16
N543017	17
N543017,5	17,5
N543018	18
N543019	19
N543019,5	19,5
N543020	20
N543021	21
N543022	22
N543023	23
N543024	24
N543025	25
N543026	26
N543026,5	26,5
N543027	27

Tech. Code	Ø mm
N543028	28
N543029	29
N543030	30
N543031	31
N543032	32
N543033	33
N543034	34
N543035	35
N543036	36
N543037	37
N543038	38
N543039	39
N543040	40
N543041	41
N543042	42
N543043	43
N543044	44
N543045	45
N543046	46
N543047	47

Tech. Code	Ø mm
N543048	48
N543049	49
N543050	50
N543051	51
N543052	52
N543053	53
N543054	54
N543055	55
N543056	56
N543057	57
N543058	58
N543059	59
N543060	60
N543061	61
N543062	62
N543063	63
N543064	64
N543065	65



CENTERING PINS FOR DRILLING UNITS

ITEM: 63134998300 - 63134998310

Centering pins for cutters with Weldon coupling 19 and QuickIN.



Tech. Code	Ø mm	Length mm	Depth mm
N5439082	6,5	82	25
N5439100	6,5	100	35

ADAPTORS FOR DRILLING UNITS

ITEM: N5440

Adapters for milling cutters and chucks usable with magnetic-based drilling units.



Tech. Code	Machine coupling	Tool coupling	Form
N5440QI-W19	QuickIN	Weldon 19	For W 19 tools
N5440QI-1/2	QuickIN	1/2" - 20 UNF	For chucks
N5440QI-B16	QuickIN	B16	For chucks
N5440W19-QI	Weldon 19	QuickIN	For QuickIN tools
N5440W19-1/2	Weldon 19	1/2" - 20 UNF	For chucks
N5440W19-B16	Weldon 19	B16	For chucks

MORSE TAPER ADAPTERS FOR BORING UNITS

ITEM: N5450

Morse taper adapters for burr cutters with **QuickIN** quick coupling for use with magnetic base drilling.



Tech. Code	Machine coupling	Tool coupling	Length mm	For cutters Ø mm
N5450MK250	MK2	QuickIN	50	12 - 35
N5450MK275	MK2	QuickIN	75	12 - 35
N5450MK350	MK3	QuickIN	50	12 - 65
N5450MK375	MK3	QuickIN	75	12 - 65

MORSE TAPER ADAPTERS FOR DRILLING UNITS

ITEM: N5455

Morse taper adapters for annular cutters with Weldon shank 19 usable with magnetic base drilling units.



Tech. Code	Machine coupling	Tool coupling	Length mm	For cutters Ø mm
N5455MK250	MK2	Weldon 19	50	12 - 35
N5455MK275	MK2	Weldon 19	75	12 - 35
N5455MK350	MK3	Weldon 19	50	12 - 65
N5455MK375	MK3	Weldon 19	75	12 - 65

PNEUMATIC WASHING TUBS

ITEM: 70365

Washing tubs for quick cleaning of mechanical parts and components in general. The system with low-pressure pneumatic operation, allows both the continuous flow of cleaning liquid with a brush to be washed and the immersion washing with the components immersed in the cleaning liquid inside the tank. For a correct use pour 48 - 52 liters of detergent liquid.

Standard equipment:
Knurled bristle brush N589001
Decanting grid/ filter



Tech. Code		N589000
Tub capacity	L	50
Tank capacity	L	65
Maximum degergent pressure	BAR	0,5
Maximum blow gun pressure	BAR	12
Dimension of the tub	mm	510 x 670
Dimension	mm	510 x 670 x 1070
Weight	kg	47

Related products

NEW

WODEX POLYURETHANE CUT-RESISTANT GLOVES

Tech. Code	Size	EU size
K234807	M	7
K234808	L	8
K234809	XL	9
K234810	XXL	10



The products are available in chapter K

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LIQUID VACUUM CLEANERS BREEZY 25

ITEM: N5900

Liquid vacuum cleaners, small, reliable, practical and versatile with a twin engine 1300 Watt, barrel polpropylene filter, washable filter 2300 cm², sealed snap and cart with door accessories. Strong and practical closing hook system. Anti-shock head splash with and 4 sliding wheels Ø 50 mm. Quick coupling for tube, Ø 36 mm accessories Ø 36 mm Kit A included .

Made in Italy

Tech. Code	Can L	Electric motors N°	Tension V	Depression mm/H_2O	Air capacity m^3/h	Dimension cm	Weight kg
N590001	25	1	230	2200	180	34 x 34 x 64 h	6



LIQUID VACUUM CLEANERS BREEZY 35

ITEM: N5910

Professional liquid vacuum cleaners for high performance,reliable, versatile,practical, ideal for all types of workplaces. Motor twin engine 1300 Watt with a steel barrel and trolley im metal, 4 sliding wheels Ø 80 mm, washable polyester filter 2300 cm² tested Anti-shock head. Quick coupling for tube accessories Ø 40 mm, accessories Ø 40 mm Kit B included.

Made in Italy

Tech. Code	Can L	Electric motors N°	Tension V	Depression mm/H_2O	Air capacity m^3/h	Dimension cm	Weight kg
N591001	35	1	230	2200	180	40 x 40 x 77 h	10



LIQUID VACUUM CLEANERS BREEZY 50

ITEM: N5920

Professional liquid vacuum cleaners for high performance, reliable, versitile, practical, ideal for all types of workplaces. Equipped with a overhead door frame for easier emptying. Motor twin engine 1300 Watt, steel barrel and trolley in metal, 2 sliding wheels Ø 80 mm + 2 sliding wheels Ø 200 mm, washable polyester filter 6900 cm² tested Anti-shock head. Quick coupling for tube Ø 40 mm, accessories Ø 40 mm Kit B included.

Made in Italy

Tech. Code	Can L	Electric motors N°	Tension V	Depression mm/H_2O	Air capacity m^3/h	Dimension cm	Weight kg
N592001	50	1	230	2400	220	47 x 47 x 93h	20



LIQUID VACUUM CLEANERS BREEZY 70

ITEM: N5930

Professional liquid vacuum cleaners for high performance, reliable, versitile, proctical,ideal for all types of workplaces. Equipped with overhead door frame for easier emptying Motor twin engine 1300 Watt, steel barrel and trolley in metal, 2 sliding wheels Ø 80 mm + 2 sliding wheels Ø 200 mm, washable polyester filter 6900 cm² Anti-shock tested. Quick coupling for tube accessories Ø 40 mm, accessories Ø 40 mm Kit C included.

Made in Italy

Tech. Code	Can L	Electric motors N°	Tension V	Depression mm/H_2O	Air capacity m^3/h	Dimension cm	Weight kg
N593001	70	2	230	2200	360	60 x 59 x 105 h	22



LIQUID VACUUM CLEANERS - ACCESSORIES AND SPARE PARTS Ø 36MM

ITEM: N5980

Accessories for vacuum cleaners with quick tube attachment Ø 36mm.

Tech. Code	Type	Description	Kit A Pieces
N598001	A	Hose fitting - complete with outlet - 2m	1
N598002	B	Brush for liquids 32cm	1
N598003	C	Car brushes 14cm	1
N598004	D	Chrome extension 50cm	2
N598005	E	Dust brushes 32cm	1
N598006	F	Circle brushes Ø 75mm	1
N598007	G	Flat brushes 20cm	1

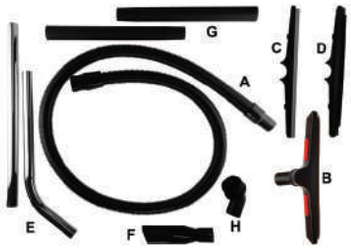


LIQUID VACUUM CLEANER - ACCESSORIES AND SPARE PARTS Ø 40MM

ITEM: N5990

Accessories for vacuum cleaners with quick tube attachment Ø 40mm.

Tech. Code	Type	Description	Kit B Pieces	Kit C Pieces
N599001	A	Flexible tube - complete with outlet - 2,5m	1	1
N599002	B	Brush holder 40cm	1	-
N599003	C	Dust brush 40cm	1	-
N599004	D	Brush for liquids 40cm	1	-
N599005	E	Chrome extension 1 starboard + 1 inclined	1 + 1	1 + 1
N599006	F	Flat launches 25cm	1	1
N599007	G	PVC extension 50cm	2	1
N599008	H	Circle brushes Ø 75mm	1	1



VACUUM CLEANERS - ACCESSORIES AND SPARE PARTS FILTER KITS

ITEM: N5995

Polproplene filter kits for liquid vacuum cleaners.

Tech. Code	For models
N5995300	N590001
N5995330	N591001
N5995400	N592001 - N593001



VACUUM CLEANERS - ACCESSORIES AND SPARE MOTOR PARTS

ITEM: N5997

Twin motor by-pass 1300 Watt.

Tech. Code	For models
N59971300W	N590001 - N591001 - N592001 - N593001



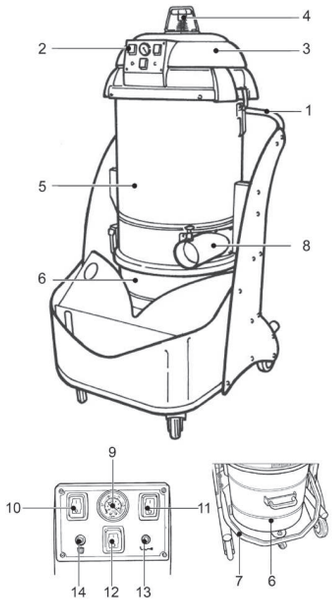
INDUSTRIAL ASPIRATORS STORM 3600

ITEM: N6015

Single-phase, mobile, versatile and compact industrial vacuum cleaner. Reliability and power at the top of its category.

Features:
- 3 independent By-Pass motors
- Cyclone with tangential material inlet
- Manual mechanical filter shaker
- Power indicator light
- Filter clogging indicator light
- Vacuum gauge
- Compensation valve
- Thermomagnetic circuit breaker
- Suction nozzle ø 80 mm with reduction terminal quick release for pipe ø 50 mm
- Accessory compartment
- Wheeled, quick-release container for suction material

Standard equipment:
- 1 Polyester filter class M code N004520
- 1 Reduction terminal hose ø 80/50 mm code N00267050
- 1 Flexible hose PUR ø 50 x 3 m code N00285003
- 2 Antistatic rubber sleeve/nozzle ø 50mm code N002750
- 1 Conical lance anti-oil code N003550





1	Carrying handle	2	Controls
3	Cover	4	Cleaning filter lever
5	Filter housing	6	Container for aspirated debris
7	Release container debris lever	8	Suction pipe connection
9	Vacuum gauge	10	1st engine control on/off
11	2nd engine control on/off	12	3rd engine control on/off
13	Red light LED clogged filter	14	White light LED voltage presence

Tech. Code	Tank capacity L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Air capacity max L/min	Medium filter IFA/BGIA	Sound level dB(A)	Dimension mm	Weight kg
N6015100	100	230 - 50/60	3.6 - 4.5	250	9000	M	72	820 x 650 x 1640h	71

Conformity with the standard regulations EN 60204 - IEC 204/I - CEI 44/5 - 2006/42/CE - 2006/95/CE - 2004/108/CE

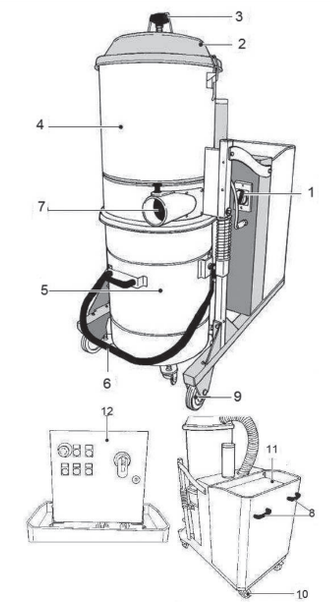
INDUSTRIAL ASPIRATOR HURRICANE 55

ITEM: N6020

Industrial mobile three-phase aspirator, reliable with a very sturdy frame, for constant and continuous use.

Features:
- 1 Turbine with three-phase motor by-pass
- Cyclone with tangential input of the material
- Manual mechanical filter shaker
- Voltage indicator
- Filter clogging indicator
- Vacuum gauge
- Compensation valve
- Suction inlet 80 mm ø with reduction terminal with quick release hose 50 mm ø
- Wheeled container for the aspirated material with quick release hook
- Accessories port

Standard equipment:
- 1 polyester filter class M code N004520
- 1 reduction terminal 80/50 mm ø code N00268050
- 1 flexible hose PUR 50 x 3 m ø code N00285003
- 2 Anti-static rubber sleeve/nozzle 50 mm ø code N002750
- 1 Conical lance anti-oil code N003550
- 1 flat lance L 400 mm in metal code. N003350





1	Control on/off	2	Engine cover
3	Filter shaker	4	Filter housing
5	Container for aspirated debris	6	Release container debris lever
7	Suction pipe connection	8	Carrying handle
9	Fixed wheels	10	Rotating wheels with brake
11	Accessories port	12	Electric panel

Tech. Code	Tank capacity L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Max. Air capacity L/min	Medium filter IFA/BGIA	Sound level dB(A)	Dimension mm	Weight kg
N6020100	100	400 - 50/60	4 - 5,5	300	8666	"M" CLASS	76	1250 x 650 x 1520h	155

Conformity with standard regulations EN 60204 - IEC 204/I - CEI 44/5 - 2006/42/CE - 2006/95/CE - 2004/108/CE

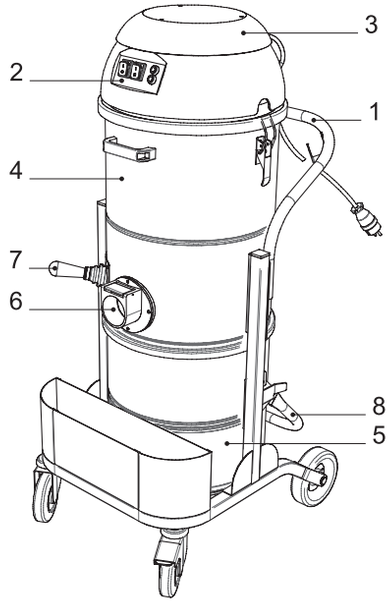
UNIVERSAL ASPIRATORS MINI STORM

ITEM: N6010

Industrial mobile single-phase extra compact aspirators.
Practical and reliable with a very sturdy frame.

Features:
-2 Independent motor By-passes
- Manual mechanical filter shaker
- Voltage indicator
- Filter clogging indicator
- Suction Inlet 70 mm ø with reduction terminal quick release hose 50 mm ø
- Accessories port
- Wheeled container for the aspirated material quick release hook

Standard equipment:
- 1 Polyester filter class M code N004510
- 1 Reduction terminal 70/50 mm ø code N00267050
- 1 Flexible tube PUR 50 x 3 m ø code N00285003
- 2 Antistatic rubber sleeve/nozzle 50 mm ø code N002750
- 1 Flat lance L 400 mm in metal code N003350





1	Carrying handle	2	Contact on/off
3	Engine cover	4	Filter housing
5	Container for aspirated debris	6	Pipe union for suction hose
7	Filter shaker	8	Container removal lever

Tech. Code	Tank capacity L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Air capacity L/min	Medium filter IFA/BGIA	Sound level dB(A)	Dimension mm	Weight kg
N601035	45	230 - 50/60	2,4 - 3	250	6330	M - CLASS	72	510 x 640 x 1240h	45

Conformity with the standard regulations EN 60204 - IEC 204/I - CEI 44/5 - 2006/42/CE - 2006/95/CE - 2004/108/CE

ACCESSORIES FOR INDUSTRIAL ASPIRATORS

ITEM: N0051

Kit too full for automatic interrupting of the suction when the tank is full, preserving the filter.

Included:
- 1 Wet & Dry container
- 1 Floating valve



Tech. Code	For model
N005110	MINI STORM

ITEM: N0052

Kit too full for interrupting the suction when the tank is full, preserving the filter.

Included:
- 1 Floating valve for liquids
- Drainage tap to be applied to the lower tank to make emptying easy (tap application 3/4" requires an hole at the bottom of the tank)



Tech. Code	For models
N005210	Storm 3600 - Hurricane 55

ACCESSORIES FOR INDUSTRIAL ASPIRATORS

ITEM: N0026

Metal reduction terminal and connection between aspirator and rubber sleeve or directly to the flexible hose.



Tech. Code		N00267050	N00268050
Ø Aspirator	mm	70	80
Ø Tube/rubber sleeve	mm	50	50

ITEM: N0027

Rubber sleeve for metallic terminal connection to flexible hose pipe.



Tech. Code		N002750
Ø Terminal	mm	50
Ø Hose pipe	mm	50

ITEM: N0028

Flexible hose pipe PUR armed, resistant to mineral oil and abrasion, fire-proof. Maximum temperture usage 90°C.



Tech. Code		N00285003	N00285005	N00285010
Ø Hose pipe	mm	50	50	50
Length	m	3	5	10

ITEM: N0031

Drainage hose pipe for Twistoil aspirators.



Tech. Code		N00313503
Ø Hose pipe	mm	1" - 1/4
Length	m	3

ITEM: N0033

Flat nozzel in metal.



Tech. Code		N003350
Ø Attachment	mm	50
Length	mm	400

ITEM: N0035

Flat nozzel anti-oil.



Tech. Code		N003550
Ø Attachment	mm	50
Length	mm	280

ITEM: N0036

Metal tube - "S" shape with rapid coupling.



Tech. Code		N003650
Ø Joint	mm	50
Length	mm	1250

ITEM: N0038

Brushes with artificial bristles and regulating grip.



Tech. Code		N003850400	N003850500
Ø Attachment	mm	50	50
Length	mm	400	500

ITEM: N0039

Suction cup brushes with rubber strips and grip regulator.



Tech. Code		N003950400	N003950500
Ø Attachment	mm	50	50
Length	mm	400	500

ACCESSORIES FOR INDUSTRIAL ASPIRATORS

ITEM: N0042

Rubber nozzle - anti-static.



Tech. Code		N004250
Ø Attachment	mm	50
Length	mm	250

ITEM: N0043

Scraper galvanized metal.



Tech. Code		N004350
Ø Attachment	mm	50
Length	mm	1000

ITEM: N0045

Star filters IFA/BGIA class "M".



Tech. Code	N004510	N004520
For models	Ministorm	Storm 3600 - Storm 4800 - Hurricane 55

ITEM: N0046

Telflon star filters IFA/BGIA class "M".



Tech. Code	N004610	N004620
For models	Ministorm	Storm 3600 - Hurricane 55

ITEM: N0048

Filter TNT and Nylon for Twistoil aspirator & Twistoil 280.



Tech. Code	N004810	N004820
Material	Nylon (washable)	TNT

ITEM: N6204

150µm liquid filter



Tech. Code	N6204150
For models	Twistoil Evo

ITEM: N6205

Oil-resistant cartridges



Tech. Code	N6205OLIO
For models	Twistoil Evo

ITEM: N6206

Oil-resistant cartridges



Tech. Code	N6206OLIO133
For models	Mini-Twistoil

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CLEAN GO WELDING FUMES ASPIRATORS

ITEM: CLEANGO

The CLEANGO wheeled vacuum cleaners for welding fumes represent, due to their small size, user-friendliness and efficient operation, the most economical solution to problems of extraction, filtration and deodorisation of welding fumes. This wheeled vacuum cleaner is characterised by its very quiet operation and stability due to its pivoting wheels with brakes. Maintenance of the machine is limited to the replacement of the cellulose filter cartridge, an operation that requires little time and unskilled personnel.



Standard equipment:
- 1 Evolution No Smoke self-supporting arm ø 160 mm length 3m
- 1 High-efficiency cellulose cartridge IFA/BGIA M-CEL Code 1110670
- 1 ON/OFF thermomagnetic switch
- 1 Hour counter device

Optional:
- Cartridge with 2.5 kg active carbon Code 1161611

Tech. Code	Power supply V - Hz	Power kW	Brake capacity m³/h	Medium filter IFA/BGIA	Filter efficiency	Noise level dB(A)	Dimension mm	Weight kg
N6055ASP	400 - 50	1,1	1400	M CEL	99%	72	* 756 x 702 x 916H	80

(*) Max dimension of the aspirator without the self supporting arm No Smoke

DF-2 CLEANING WELDING FUMES ASPIRATORS

ITEM: CLEANING DF-2

The CLEANING DF trolley-mounted extractor fans for welding fumes are, due to their small dimensions, ease of use and efficient operation, the ideal solution to problems of extraction, filtration and deodorisation of welding fumes. This wheeled vacuum cleaner is characterised by its quiet operation and stability due to its pivoting wheels with brakes. Maintenance of the machine is limited to the replacement of the 2 cellulose filter cartridges, an operation that takes very little time thanks to the easy front access.



Standard equipment:
- 1 Decanting chamber for coarse dust
- 1 Evolution No Smoke self-supporting arm ø 160 mm length 3m
- 2 IFA/BGIA M-CEL high-performance cellulose cartridges Code 1165233
- 1 ON/OFF thermomagnetic switch
- 1 Hour counter device

Optional:
- Cartridge with 2.5 kg active carbon Code
- Exhaust plenum with DIN EN 1822 HEPA H13 filtration filtration efficiency 99.95 % Code

Tech. Code	Power supply V - Hz	Power kW	Brake capacity m³/h	Medium filter IFA/BGIA	Filter efficiency	Noise level dB(A)	Dimension mm	Weight kg
N6057ASP	400 - 50	1.1	1550	M CEL	99%	74	* 750 x 960 x 1150H	154

(*) Max dimension of the aspirator without a self supporting arm No Smoke

SUCTION-FILTERING BENCHES

CORAL NEW

ITEM: POLIJET 2000

Benches applicable in any production sector for suction of welding fumes, grinding dust, thermal cutting residues.
The suction slots allow the capture of harmful fumes before they can reach the operator's respiratory tract.
The benches are made up of a series of panels bolted together and suitably sized to give strength to the structure, which can support loads of up to 250 kg/m².
An extraction and filtration system must be provided. The filtering work surface is removable to allow for possible inspections inside.
Extreme ease of maintenance. 99.9% filtration efficiency. Plug-and-play solution with no installation required.



Standard equipment:
- Metal straw prefilter
- Sheet metal supporting plate
- Front suction wall
- Simple containment side walls
- Cyclic programmer for automatic cartridge cleaning management
- Certified compressed air lung
- Polar plug 16A (3F+N+E)
- Magnetothermal ON/OFF switch
- Dust collection drawers

Tech. Code	Feeding V-Hz	Power Kw	Scope m3/h	IFA/BGIA filter media	Filtration efficiency	Noise db/A	Dimension mm	Weight kg
N6058ASP	400-50	3	4.800	TEFLON-COATED M PES	99%	75	2,695 x 118 x 1,417	89

INFRARED HEATERS

STAR PROGETTI COMFORT ZONE MAKERS

CE

ITEM: EHT

Extremely functional and versatile infrared heaters for heating work areas. They use short-wave radiation to heat objects and people, but not the surrounding air. They do not pollute and do not emit harmful substances. Their special reflectors make HELIOS RADIANT TITAN very powerful heaters.
HELIOS RADIANT TITAN heaters allow savings of more than 60 % compared to conventional heating systems because they only heat the areas of interest without dispersion. They can be equipped with timers, thermostats and presence detectors. They are also used in many industrial processes. Without glass, white pre-painted steel frame. IP55 protection.





Tech. Code	Model	Power W	Heated area m²	Dimensions mm	Weight kg
N6060120	Single	2000	28	470 x 230 x 130	3.8
N6060240	Double	4000 (2 x 2000)	43	1040 x 230 x 130	6.9

They are ideally positioned on a wall or ceiling at a 45 degree angle.

CE

ITEM: EHT BLACK

The Black infrared heater with black safety glass differs from the standard EHT models in that it has reduced light emission. It provides a considerable heat over a large surface area. Suitable for all environments where you wish to avoid the emission of light or where the aesthetic aspect is also important. Its polyester-coated strong steel structure means it can be installed both indoors and outdoors (IP23).



Tech. Code	Model	Power W	Heated area m2	Dimension mm	Weight kg
N6062120	Single	2000	18	500 x 230 x 160	5

ACCESSORIES FOR INFRARED HEATERS

STAR PROGETTI COMFORT ZONE MAKERS

ITEM: N6065

- Universal telescopic support suitable for the single model
- Replacement bulb for 2000 watt EHT models

Tech. Code		N60650010	N60650015
Article		Floor support	Replacement bult 2000 watt
Height	mm	from 1070 to 2000	-
Weight	kg	9	-





BENCH VICES - CAST IRON

ITEM: WX7800

Bench vices **PREMIUM QUALITY** made of high quality cast iron with replaceable induction hardened and ground jaws. Designed to provide long service even for heavy duty use. Dovetail guides mean that the movement of the upper and lower guides is play-free, the upper part can be precision-adjusted using the screw. Fixing 3-point, 2 front and one upper. Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	Weight kg
N6800100	100	130	12
N6800125	125	180	24
N6800150	150	215	41

ROTATING BASES FOR VICES WX7800

ITEM: WX7802

Rotating bases in cast iron for vices WX7800. Grey painted with hammered finish.



Tech. Code	For vices mm	Weight kg
N6802100	100	6
N6802125	125	8
N6802150	150	12

BENCH VICES - CAST IRON

ITEM: WX7810

Bench vices **PREMIUM QUALITY** made of high quality cast iron with replaceable induction hardened and ground jaws. Play-free movement of the upper and lower parts thanks to the precision dovetail guides. Fixing 3-point, 2 front and one upper. Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	Weight kg
N6810080	80	110	6
N6810100	100	140	11
N6810120	120	185	18
N6810150	150	220	25

ROTATING BASES FOR VICES WX7810

ITEM: WX7812

Rotating bases in cast iron for vices WX7810. Grey painted with hammered finish.



Tech. Code	For vices mm	Weight kg
N6812080	80	2.5
N6812100	100	4
N6812120	120	5.5
N6812150	150	8

BENCH VICES - STEEL

ITEM: WX7820

Steel vices with front opening, non-removable induction hardened jaws, threaded rod protected from dust and processing residues. 2-point upper fixing. Gray paintwork with hammered finish.



Tech. Code	Width mm	Opening mm	Weight kg
N6820110	110	120	7

BENCH VICES - STEEL

ITEM: WX7830

Bench vices **PREMIUM QUALITY** in high quality forged steel with front opening, non-removable upper jaws and pipe wrench jaws. Double adjustable prismatic slideways, threaded rod protected from dust and processing residues. Fixing more than 4 points. Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	For tubes Ø mm	Weight kg
N6850100	100	100	16 - 40	6
N6850120	120	120	20 - 55	11
N6850140	140	180	20 - 80	19
N6850160	160	210	25 - 100	27

ROTATING BASES FOR VICES WX7830

ITEM: WX7831

Rotating bases in steel for vices WX7830. Grey painted with hammered finish.



Tech. Code	For vices mm	Weight kg
N6851100	100	1.5
N6851120	120	2
N6851140	140	3
N6851160	160	4

BENCH VICES - STEEL

ITEM: WX7840

PREMIUM QUALITY forged steel vices with front opening, induction hardened and ground non-removable jaws. All sliding parts are hardened and adjustable. 2-point top fixing. Grey paintwork with hammered finish.

Optional accessories:
Removable hose clamping jaws.



Tech. Code	Width mm	Opening mm	Weight kg
N6860100	100	125	7
N6860125	125	150	11
N6860150	150	200	17
N6860175	175	220	26

PAIR OF PIPE WRENCH JAWS FOR VICES WX7840

ITEM: WX7841

Pair of hardened steel pipe wrench jaws for vices WX7840.



Tech. Code	For vices mm	For tubes Ø mm
N6861100	100	12 - 125
N6861125	125	12 - 145

Tech. Code	For vices mm	For tubes Ø mm
N6861150	150	15 - 165
N6861175	175	15 - 190

ROTATING BASES FOR VICES WX7840

ITEM: WX7842

Rotating bases in steel for vices WX7840. Grey painted with hammered finish.



Tech. Code	For vices mm	Weight kg
N6862100	100	1.4
N6862125	125	2
N6862150	150	2.8
N6862175	175	4

BENCH VICES - STEEL

ITEM: WX7860

Bench vices **PREMIUM QUALITY** in high quality forged steel, rear opening, replaceable induction hardened and ground steel jaws. Play-free movement of the upper and lower parts thanks to the precision dovetail guides. Fixing more than 3 points. Grey painted with hammered finish.
Replacement jaws N6811 - WX7811



Tech. Code	Width mm	Opening mm	Weight kg
N6870100	100	130	11
N6870120	120	160	16
N6870150	150	175	24

Spare jaws N6811 - WX7811

BENCH VICES - STEEL

ITEM: WX7870

Bench vices **PREMIUM QUALITY** in high quality forged steel, rear opening, replaceable induction hardened and ground jaws. Play-free movement of the upper and lower parts thanks to the precision dovetail guides. Fixing 3-point, 2 front and one upper.
Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	Weight kg
N6880085	85	170	10
N6880100	100	170	10.5
N6880120	120	200	16.5
N6880150	150	210	27

Replacement jaws N6811 - WX7811

VICES FOR COLUMN DRILLS

ITEM: WX7900

Vices for column drills **PREMIUM QUALITY** made of high quality cast iron with replaceable induction hardened and ground steel jaws. The prismatic jaws allow flat and round pieces to be clamped, while the sliding guides for the mobile jaw act as a support base for the precise closure of the pieces. Fixing more than 2 points. Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	Jaw height mm	Weight kg
N6910060	60	70	25	2.5
N6910080	80	80	25	4
N6910100	100	110	30	9
N6910120	120	150	40	16
N6910150	150	180	45	24

VICES FOR COLUMN DRILLS

ITEM: WX7910

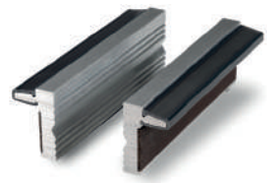


High quality cast iron vices for column drills **PREMIUM QUALITY** with replaceable induction hardened and ground steel jaws. The prismatic jaws are reversible, one side has a knurled surface and the other is smooth with a prismatic profile for clamping flat and round pieces. The sliding guides of the mobile jaw serve as a support base for the precise closure of the pieces. Fixing more than 4 points. Grey painted with hammered finish.

Tech. Code	Width mm	Opening mm	Jaw height mm	Weight kg
N6920110	110	130	32	9.5
N6920135	135	160	40	14
N6920160	160	220	50	25.5

MAGNETIC JAWS FOR BENCH VICES

ITEM: WX7995/N



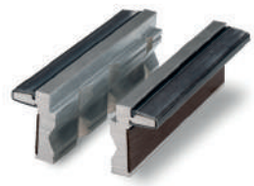
Pair of jaws in hardened aluminum alloy with neodymium magnetic band, the high holding force (~34 Nm x 100 mm) guarantees a stable coupling to the vice. Suitable for all bench vices with corresponding jaw width.

Characteristics:
Hardened aluminum clamping surface with horizontal grooves

Tech. Code	Width mm
N6940100	100
N6940120	120
N6940125	125
N6940140	140

Tech. Code	Width mm
N6940150	150
N6940160	160
N6940180	180

ITEM: WX7995/P



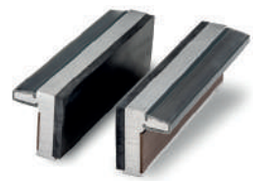
Pair of jaws in hardened aluminum alloy with neodymium magnetic band, the high holding force (~34 Nm x 100 mm) guarantees a stable coupling to the vice. Suitable for all bench vises with corresponding jaw width.

Characteristics:
Hardened aluminum clamping surface with horizontal and vertical prismatic grooves for machining round workpieces.

Tech. Code	Width mm
N6941100	100
N6941120	120
N6941125	125
N6941140	140

Tech. Code	Width mm
N6941150	150
N6941160	160
N6941180	180

ITEM: WX7995/G



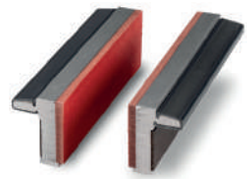
Pair of jaws in hardened aluminum alloy with neodymium magnetic band, the high holding force (~34 Nm x 100 mm) guarantees a stable coupling to the vice. Suitable for all bench vices with corresponding jaw width.

Characteristics:
Clamping surface covered in smooth rubber, hardness 85 SH for processing irregular and delicate pieces

Tech. Code	Width mm
N6942100	100
N6942120	120
N6942125	125
N6942140	140

Tech. Code	Width mm
N6942150	150
N6942160	160
N6942180	180

ITEM: WX7995/F



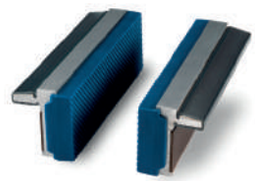
Pair of jaws in hardened aluminum alloy with neodymium magnetic band, the high holding force (~34 Nm x 100 mm) guarantees a stable coupling to the vice. Suitable for all bench vises with corresponding jaw width.

Characteristics:
Heat-resistant smooth fiber coated clamping surface for machining finished parts requiring high-strength clamping.

Tech. Code	Width mm
N6943100	100
N6943120	120
N6943125	125
N6943140	140

Tech. Code	Width mm
N6943150	150
N6943160	160
N6943180	180

ITEM: WX7995/PUF



Pair of jaws in hardened aluminum alloy with neodymium magnetic band, the high holding force (~34 Nm x 100 mm) guarantees a stable coupling to the vice. Suitable for all bench vises with corresponding jaw width

Characteristics:
Polyurethane coated clamping surface with cross knurling for clamping workpieces with very delicate relief details.

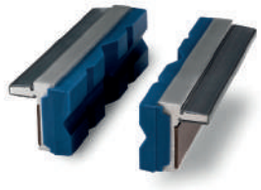
Tech. Code	Width mm
N6944100	100
N6944125	125

Tech. Code	Width mm
N6944140	140
N6944150	150

MAGNETIC JAWS FOR BENCH VICES

ITEM: WX7995/PUP

Pair of jaws in hardened aluminum alloy with neodymium magnetic band, the high holding force (~34 Nm x 100 mm) guarantees a stable coupling to the vice. Suitable for all bench vices with corresponding jaw width.



Characteristics:
Polyurethane coated clamping surface with horizontal and vertical prismatic grooves for clamping round workpieces with very delicate relief details.

Tech. Code	Width mm
N6945100	100
N6945125	125

Tech. Code	Width mm
N6945140	140
N6945150	150

ADJUSTABLE VICES

ITEM: WX7950

Adjustable aluminium alloy vices for mould makers and model makers, fitted with spherical joint that can be locked in any position by means of a quick clamping lever at the base. This solution means that the operator can maintain a correct and safe working position. Suitable for finishing or polishing work on delicate, small and medium-sized mechanical parts.



Fixing more than 4 points.

Tech. Code	Width mm	Opening mm	Jaws included	Weight kg
N6950050	50	75	Plastic	2.5
N6950075	75	110	Steel	3.7

ITEM: WX7955

Bottom bracket fixing with screw.



Tech. Code	Width mm	Opening mm	Jaws included	Bracket opening mm	Weight kg
N6953050	50	75	Plastic	80 max	2.6
N6953075	75	110	Steel	80 max	3.8

ADJUSTABLE VICES WITH GRIPS

ITEM: WX7965

Adjustable aluminium alloy vices for mould makers and model makers, fitted with spherical joint that can be locked in any position by means of a quick clamping lever at the base. This solution means that the operator can maintain a correct and safe working position. Suitable for finishing or polishing work on delicate, small and medium-sized mechanical parts. Fitted with swivel grips for clamping irregular pieces.
Bottom bracket fixing with screw.



Tech. Code	Width mm	Opening mm	Jaws Included	Bracket opening mm	Weight kg
N6960050	50	75	Aluminium	80 max	2.4

GRIPS FOR ADJUSTABLE VICES WX7965

ITEM: WX7967 - WX7968

Pair aluminium, metal or plastic grips for vices WX7965.



Tech. Code	For vices mm	Material
N6962050AL	50	Aluminium

Tech. Code	For vices mm	Material
N6962050PL	50	Plastic

BASE WITH ADJUSTABLE PIN

ITEM: WX7975

Fixing system with swivel and adjustable spherical joint. The aluminium alloy base can be fixed to a workbench, while the pin has an internal and external thread to receive special clamping devices made by the user. The ball joint can be locked into the required position using the quick clamping lever. Base with fixing of more than 4 points.
Mobile pin with external thread MF 18 x 1.5 and hole with thread M 10 x 1.5.

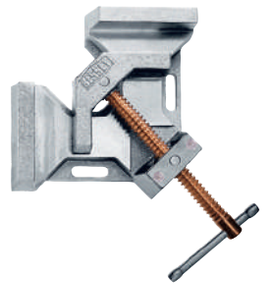


Tech. Code	Oscillation	Weight kg
N697000	90°	0.9

ANGLE CLAMPS WSM

ITEM: WSM

High quality cast iron angle vices for joining two workpieces at 90°, even pieces having different thickness. The unobstructed work area allows free access for assembly or welding to be carried out very easily.



Tech. Code	Max opening mm	Jaw length mm	Jaws height mm	Open work area mm	Weight kg
N6990090	2 x 90	110	35	60	3.8
N6990120	2 x 120	120	61	100	7.8

MAGNETIC SCREW VICES

ITEM: VERSAMAG

Magnetic screw vices with 100 mm jaw width. Portable, for quick and flexible use, it adapts to any work environment thanks to its compact structure and very thin permanent magnet. Modular system guarantees a secure seal in multiple applications. Clamping range 108 mm and jaw width 100 mm. Replaceable jaws at different heights for clamping large materials such as sheet metal and pipes. Clamping in small spaces, vertically, safe on all magnetic surfaces, even very thin sheets (starting from 4 mm thick). Up to 7800N of holding force.



Tech. Code		N4086100
Jaw width	mm	100
Magnetic holding force	N	7800
Magnetic base dimension	mm	212X70
Weight	kg	7,25

Supplied witht:
Permanent magnet
Screw vice
Fastening strap
Mounting plate
Allen key 3 m

JACK PIPE BENDING MACHINE

ITEM: ATLAS

The article is equipped with 5 formers for pipes of 1/4" - 3/8" - 1/2" - 3/4" - 1" and with a sturdy jack. It coldbends gas and water pipes, without welding.
UNI EN10255 (BS1387 - UNI3824).



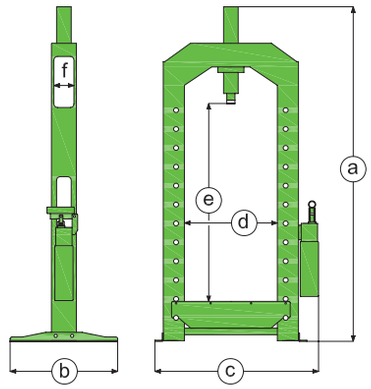
Tech. Code	For hoses Ø inches
N705000	1/4" - 3/8" - 1/2" - 3/4" - 1"

While stocks last

HYDRAULIC PRESSES

ITEM: N7010

High performance, sturdy hydraulic press Entirely cut by laser, provides high precision during execution. A twospeed pump, one for rapid approach at low pressure, one for high pressure. The cylinder includes spring return and a manometer mounted off the-rack.





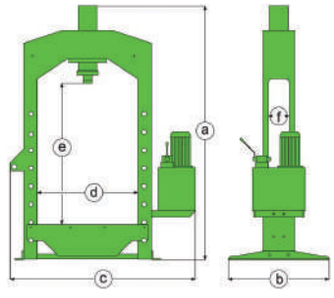
Tech. Code		N7010120	N7010200
a	mm	1900	1900
b	mm	530	590
c	mm	850	950
d	mm	510	510
e	mm	1050	1050
f	mm	80	80
Weight	kg	100	110
Load capacity	T	12	20
Activation		Pneumatic	Pneumatic

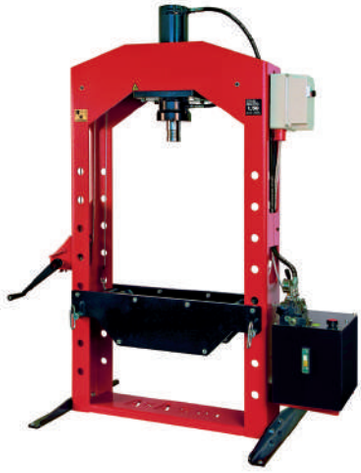
Tech. Code		N7010300	N7010500
a	mm	1970	2000
b	mm	700	800
c	mm	1250	1350
d	mm	710	805
e	mm	1120	1060
f	mm	130	160
Weight	kg	250	400
Load capacity	T	30	50
Activation		Manual	Manual

MOTORIZED HYDRAULIC PRESSES

ITEM: N7011

High performance, sturdy motorized hydraulic presses. Entirely cut by laser, provides high precision during execution. A twospeed pump, one for rapid approach at low pressure, one for high pressure. the cylinder includes spring return and a manometer mounted off the-rack.





Tech. Code		N7011120	N7011200
a	mm	1900	1900
b	mm	530	590
c	mm	1100	1150
d	mm	510	510
e	mm	1050	1050
f	mm	80	80
Weight	kg	170	190
Load capacity	T	12	20
Fast-forward	m/min	1,4	1,7
Working speed	m/min	0,3	0,25

Tech. Code		N7011300	N7011500
a	mm	1970	2000
b	mm	700	800
c	mm	1350	1350
d	mm	710	805
e	mm	1120	1060
f	mm	130	160
Weight	kg	350	500
Load capacity	T	30	50
Fast-forward	m/min	1,4	1,6
Working speed	m/min	0,3	0,3

ELECTRIC MARKING PENS

ITEM: N7060



Supply voltage 220 Volt / 50Hz, painted sheet steel body, suitable for engraving all metal electricity conductors, ideal for writing on and marking machine parts.

Tech. Code	Description	Weight kg
N7060PEN	Pen	7
N7060CR	Cable with spare pen	-
N7060PR	Spare pen	-

ITEM: N7065



Supply voltage 220 Volt / 50Hz, impact-proof with vibration frequency controller, plastic body. Suitable for engraving all ferrous and non-ferrous materials, glass, ceramic, stone, plastic and wood. Ideal for writing on and marking parts already in place.

Tech. Code	Description	Vibrations per minute	Power Watt
N70657200	Pen	7200	12
N7065PR	Spare tip	-	-

BENCH DEMAGNETISERS

ITEM: N7070



Supply voltage 220 Volt / 50Hz, painted sheet steel body, suitable for de-magnetising mechanical parts in contact with magnetic surfaces that have retained residual magnetism.

Tech. Code	Pad mm	Weight kg
N7070200	200 x 160 x 90 h	4.5
N7070400	400 x 160 x 90 h	8

LED TORCHES

SCANGRIP® INNOVATION FROM DENMARK

ITEM: 03.5850 ZONE 2



The ZONE 2 headlamp is very powerful and offers up to 200 lumens. It has a 3-level function that allows you to adjust the light intensity according to your actual needs: Level 1 = 20 lumens, Level 2 = 100 lumens and Level 3 = 200 lumens. Level 1 is referred to as 'Reading Mode' as 20 lumens provides enough light to read, for example, an instruction manual. ZONE 2 is equipped with a battery charge level indicator and has a maximum battery life of 22 hours.

Features:
- Light intensity adjustable in 3 levels
- Rechargeable lithium-ion battery 3.7V - 1200 mAh
- Operating time at minimum luminous flux 22 hours
- Operating time at maximum luminous flux 2 hours
- Recharge time 2.5 hours
- USB charging cable 1 m long
- Charger with USB 5V-1A connector (Optional)

Tech. Code	Light emission Lm	Protection grade	Dimension mm	Weight g
N706801	20 - 100 - 200	IP54	84 x 32 x 37	75

LED TORCHES

WODEX

ITEM: WX6610



High performance extra compact LED torches with adjustable head and magnet for positioning on metal walls, impact resistant aluminium body with pocket clip. IK07 impact resistant, IPX4 water splash protection.
Adjustable light beam as follows: High 150 Lm - Low 60 Lm - Strobe 150 Lm - SOS 150 Lm
Operating time: 60 Lm 8 hours - 150 Lm 2.5 hours

Tech. Code	Light output Lm	Beam distance m	Dimensions Ø x L1 mm	Weight g
N706901	60 - 150	50	17.5 x 150	50

Batteries not included (The torch requires 2 AAA 1.5 Volt batteries)

BATTERIES

ITEM: D9925

- AAA-type 1,5V battery



Tech. Code	Model
D99251,5V	Ministyl type AAA 1.5V

LED TORCHES

WODEX

1/3 H WMS

ITEM: WX6620



High performance **PREMIUM QUALITY** modular LED torches with rechargeable battery (not included) and magnet for positioning on metal walls. Impact resistant aluminium construction with a quick-change component system and USB socket for charging even during use. ON-OFF button with ECO 30% and 100% FULL function. Operating time max 5 hours.
Set complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal Position.
Composition:
- Handle with magnet Ø 35x140 mm
- Flexible bulb Ø 20x400 mm LED XPG 180 Lumen with Zoom function **WX6620-B**
- Fixed bulb Ø 35x50 mm LED XPG 250 Lumens with Zoom function **WX6620-A**
- Multiled adjustable bulb 20x190 mm COB LED 350 Lumens **WX6620-C**
- USB battery charger 230V
-USB cable

- Charging time 4 hours

Tech. Code	Pieces
N708001	6

Battery not included (The torch requires one 18650 3.7 Volt battery Model WX6621)

RECHARGEABLE LI-ION 18650 BATTERIES

WODEX

ITEM: WX6621

Rechargeable lithium-ion batteries for LED torches.



Tech. Code		N707800
Volt		3.7
Capacity	mAh	2600
Ø	mm	18.5
L1	mm	70

LED TORCHES

WODEX

CE

ITEM: WX6630



High performance LED torches suitable for lighting workstations and general inspection work. The body is covered with shock-resistant rubber (1.5 metres impact resistant) and is also resistant to splashing water (IPX-4 protection). Includes a swivel hook, an adjustable magnetic base up to 180°, a 3.7 Volt 2200 mAh Li-ion battery and a battery charger with USB socket.

Operating mode:
- Upper light - SMD LED 45 Lm - Autonomy max 13 hours
- Main light- COB LED LOW 70 Lm - Autonomy max 10 hours
- Main light - COB LED HIGH 240 Lm - Autonomy max 3 hours

- Charging time 4 hours

Tech. Code	Light output Lm	Beam distance m	Dimensions a x b x L mm	Weight g
N708101	45 - 70 - 240	10 - 20 - 24	52 x 30 x 164	197

LED TORCHES

ITEM: 03.6208 UNIFORM



UNIFORM is an LED work lamp designed to withstand harsh working environments. Features include a swivel hook, a powerful built-in magnet and a clip for attachment to a belt. The flexible head of the portable lamp can tilt up to 180 degrees, allowing the direction of the light to be adjusted as required. Powered by a highly efficient multi-LED design of 32 LEDs, UNIFORM offers a powerful and adjustable light output of up to 500 lumens. The top light emits a concentrated beam of 175 lumens. The OPTILight setting provides the required illuminance (LUX) in a typical work situation, ensuring optimised light and range at the touch of a button.

Features:
- Light intensity adjustable in 3 levels
- Swivelling head (180°)
- Rechargeable lithium-ion battery 3.7V - 2600 mAh
- Operating time at minimum luminous flux 32 hours
- Operating time at maximum luminous flux 3 hours
- Operating time with OPTILight setting 4 hours
- Charging time 3.5 hours
- Charging station
- USB charging cable 1 m long
- Charger with USB 5V-1A connector (Optional)

Tech. Code	Light output Lm	Grade protection	Dimension mm	Weight g
N708301	50 - 500 - Spot 175	IP65	188 x 60 x 33	263

LED FLOOD LIGHTS

ITEM: 03.6201 NOVA-R



NOVA R rechargeable battery-operated floodlights are equipped with high-performance LED technology, are easy to carry thanks to their swivel handle, and feature magnets for positioning on metal walls. The OPTILight setting is specifically designed to provide optimum illuminance (LUX) in a typical work situation, guaranteeing optimised light and autonomy at the touch of a button, these work lamps offer a constant luminous flux, measured according to the European EN 13032-1 standard. Autonomy 1.5-17 hours, charging time 5.5 hours, operating temperature -10°C +40°C. Standard equipment includes a 3200 mAh 7.2 Volt Li-ion battery and a 1 m USB cable.

Tech. Code	Light output Lm	Protection	Dimension mm	Weight g
N708701	200 - 2000	IP67	167 x 166 x 60	840

SWING ARM LAMPS

ITEM: N7085



Standard EN 60598-1 EN 60204-1.
Complies with Italian legislative decree 81/08, maximum fixing clamp opening 58 mm, square steel profile structure, upper part of the reflector made of fibreglass reinforced nylon and lower ø 160 mm part made of turned steel, two-layer oven cured paint, double-clutch for vertical and horizontal arm movement, spring compensated joints, 60-Watt light bulb with E27 fitting (not included).

Tech. Code	Arm length mm	Coupling	Power supply V	Power cable length m	Protection	Class	Colour
N708520	510 + 455	E27	220 - 240	1.7	IP20	I	Grey

LAMP STANDS

ITEM: N7086



Suitable for pantograph lamps

Tech. Code	Coupling
N7086FP	For fixing to wall
N7086FB	For fixing to bench

PANTOGRAPH LAMPS WITH MAGNIFYING LENS

ITEM: N7091

Standard EN 60598-1 EN 60204-1.
Compliant with law 81/08, supply voltage 230 Volt, clamp fixing, max opening 58 mm, structure in profiled steel panel, 230 mm diameter aluminum reflector with plexiglass protection screen, touch touch switch, double oven-baked painting, quick positioning and tilting with one hand, spring compensated joints, gray colour. 13.7W LED module.



Tech. Code	Lens Ø mm	Diopters	Magnifiers	Arm development mm	Power cable m	Plug	Protection IP
N7091120	120	3	1.75X	965	1.60	Type C (European 2 pole)	20

PANTOGRAPH LAMPS WITH MAGNIFYING GLASS

WODEX

ITEM: WX6655

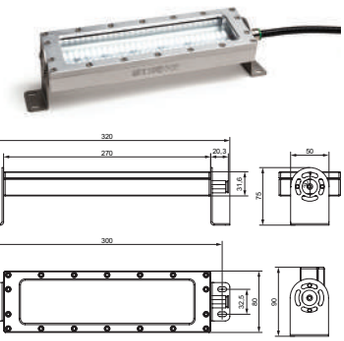


LED lamps with glass lens and pantograph arm that allows the operator to change the position of the lamp very easily, particularly suitable for accurate visual checks in machine shops and quality control laboratories.
Features:
- SMD LED light source
- Adjustable light intensity
- Luminous flux 1000 lm
- Colour temperature 6000 - 7000K
- Power consumption 12W
- Power supply AC 220-240V 50Hz
- Clamp fastening max. aperture 58 mm

Tech. Code	Lens Ø mm	Diopters	Magnifiers	Arm development mm	Power cable m	Plug	Protection IP
N7093150	150	5	2.25x	850	1,5	Type C (European 2-pole)	20

LED LAMPS FOR MACHINE TOOLS

ITEM: L18



Lamps for machine tools with high brightness LEDs, long life and low power consumption.

Features:
- Adjustable anodized aluminum frame
- Tempered glass 5 mm thick
- Gaskets in NBR
- Natural white light colour
- IP68 protection degree against dust and liquid
- Impact resistance class IK07
- Electrical isolation class III
- Low voltage operation
- Mininum distance from iluminated object 100 mm

Made in Italy

Tech. Code	Number LED's	Luminous flux Lm	Illuminance Lux	Work voltage Vdc	Power W	Operating temperature	Weight g
N709418S	120	3500	1100	24	25	-20°C +55°C	1200

CABLE REELS MANUAL

CE



ITEM: 3501 - 3508 - 3510 - 3512 - 3513 - 3514 - 3517 - 3520 - 3521

Cable reels manual Standard IEC 1242, tubular stand of fire-painted steel, galvanised steel flanges, plastic internal body, coil locking brake and cable reel knob, safety thermal cut-out.
(excluding art. N710023001). Supply voltage 230 Volts

Tech. Code	Cable sect.	Cable m	Watt	Socket	Plug	
N710023001	-	No cable	-	Without socket	-	
N710023008	3 x 1.5	25	1400	4-10/16A 2P + T SHUKO	16 A 2P + T	
N710023010	3 x 2,5	25	2100	4-10/16A 2P + T SHUKO	16 A 2P + T	
N710023013	3 x 1.5	25	1400	2-10/16A 2P + T SHUKO 1-CEE 16A	CEE 16 A 2P+T	
N710023014	3 x 1,5	40	1200	2-10/16A 2P + T SHUKO 1-CEE 16A	CEE 16 A 2P+T	
N710023017	-	No cable	-	2 CEE 16A	CEE 16 A 2P+T	
N710023020	3 x 2,5	25	2100	2 CEE 16A	CEE 16 A 2P+T	
N710023021	3 x 2.5	40	1800	2 CEE 16A	CEE 16 A 2P+T	

CABLE REELS MANUAL

CE



ITEM: 3522 - 3525

Cable wheels manual standard IEC 1242, tubular stand of fire painted steel, galvanised steel flanges, Internal plastic body, coil locking brake and cable reel knob (excluding art. N 710338022). Supply voltage 380 Volts.

Tech. Code	Cable sect.	Cable m	Watts	Socket	Plug	
N710338022	-	No cable	-	2 CEE 16A 3P+T	CEE 16A 3P+T	
N710338025	4 x 2.5	30	2500	2 CEE 16A 3P + T	CEE 16A 3P + T	

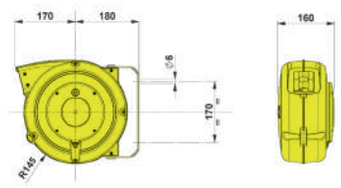
INDUSTRIAL CABLE REELS WITH SPRING

ITEM: N7115

EN 61242 EN 60335-1, complies with 81/08 Standard. Supply voltage 230 Volt, impact-resistant plastic body, cable roll guide mouth, cable rack stopping device that can be inserted at 50-cm intervals and easily removed when constant cable traction is needed, thermal cut-out, double ground contact, high-resistance cable recoil spring, adjustable sheet steel fixing bracket, cable type H05 WW-F Ø 8.5.



Tech. Code	Cable section	Cable m	Capacity W	Capacity W	Max. Volts	Protection rating IP
N71154M	3 x 1.5	14 + 1	1200	1800	500	42
N71155M	3 x 2.5	9 + 1	1900	2500	500	42

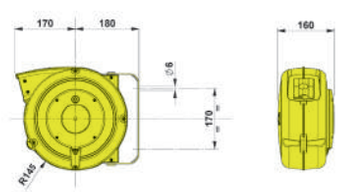


ITEM: 4315/GS

EN 61242 EN 60335-1, complies with 81/08 Standard. Supply voltage 230 Volt, plastic external structure, cable roll guide mouth, cable rack stopping device that can be inserted at 50-cm intervals, thermal cut-out, double ground contact, high-resistance cable recoil spring, adjustable sheet steel fixing bracket, cable type H05 WW-F Ø 8.5.



Tech. Code	Cable section	Cable m	Capacity W	Capacity W	Max. Volts	Socket and plug	Protection rating IP
N71167M	3 x 1.5	14 + 1	1200	1800	500	Schuko	42



INDUSTRIAL CABLE REELS SAFETY SPEED CONTROL

ITEM: 2315F/C2 - 2325F/C2 - 4425F/C2

Cable reels with an automatic device for the controlled rewinding of the SAFETY SPEED CONTROL cable and the cable stop system to the desired length. The Raasm winders comply with the CE Standard EN 61242 - 2014/35 /EU - 2014/30 / EU 2011/65 / EU. Degree of protection of the electrical part IP44. Made of shock-resistant plastic with adjustable steel bracket for wall mounting.

Standard equipment:
Input cable 1,2 m
Thermal protector
Cable guide nozzle with rollers on all 4 side



Tech. Code	Tension V	Electric cable	Cable length m	Wounded cable usage power Kw	Unwounded cable usage power* Kw	Dimension with bracket mm	Weight kg
N711031515	230	3G x 1,5 - H05 VV-F	14 + 1	1,2	2,3	387 x 331 x 175	7,6
N711032510	230	3G x 2,5 - H05 VV-F	9 + 1	1,9	3,5	387 x 331 x 175	7,7
N711042509	400	4G x 2,5 - H05 VV-F	8 + 1	2	6	387 x 331 x 175	8

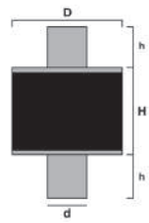
* The values refer to use with a completly unwound cable
Sockets and plugs to be ordered separately

VIBRATION-CONTROL RUBBER MOUNTS WITH 2 THREADED PINS

ITEM: N8010

Wide application for industrial use, for elastic suspensions and for absorbing the vibrations of the machines and of the various mechanical structures. Those vibration-control mounts are composed by molded rubber inside two parallel metallic plates. White Metallic Galvanized plates.





M/M version with double threaded pin

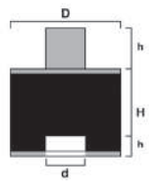
Tech. Code	D mm	H mm	d mm	h mm	Material	Hardness
N80101515M4	15	15	M4	10	SBR Rubber compound	55° shore A (±5)
N80101515M5	15	15	M5	10	SBR Rubber compound	55° shore A (±5)
N80102020M6	20	20	M6	18	SBR Rubber compound	55° shore A (±5)
N80102520M6	25	20	M6	18	SBR Rubber compound	55° shore A (±5)
N80102520M8	25	20	M8	20	SBR Rubber compound	55° shore A (±5)
N80102530M6	25	30	M6	18	SBR Rubber compound	55° shore A (±5)
N80103020M8	30	20	M8	23	SBR Rubber compound	55° shore A (±5)
N80103030M8	30	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80104030M8	40	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80104040M8	40	40	M8	23	SBR Rubber compound	55° shore A (±5)
N80105030M10	50	30	M10	28	SBR Rubber compound	55° shore A (±5)
N80105040M10	50	40	M10	28	SBR Rubber compound	55° shore A (±5)
N80106050M12	60	50	M12	37	SBR Rubber compound	55° shore A (±5)
N80107550M12	75	50	M12	37	SBR Rubber compound	55° shore A (±5)
N801010060M16	100	60	M16	41	SBR Rubber compound	55° shore A (±5)

VIBRATION-CONTROL RUBBER MOUNTS WITH 1 THREADED HOLE AND 1 THREADED PIN

ITEM: N8011

Wide application for industrial use, for elastic suspensions and for absorbing the vibration of the machines and of the various mechanical structures vibrations. Those vibration-control mounts are composed by molded rubber inside two parallel metallic plates. White metallic galvanized plates.





M/F version with single threaded pin and threaded blind hole

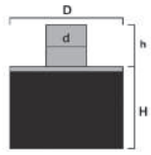
Tech. Code	D mm	H mm	d mm	h mm	Material	Hardness
N80111515M4	15	15	M4	10	SBR Rubber compound	55° shore A (±5)
N80112020M6	20	20	M6	18	SBR Rubber compound	55° shore A (±5)
N80112520M6	25	20	M6	18	SBR Rubber compound	55° shore A (±5)
N80112530M6	25	30	M6	18	SBR Rubber compound	55° shore A (±5)
N80113020M8	30	20	M8	23	SBR Rubber compound	55° shore A (±5)
N80113030M8	30	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80114020M8	40	20	M8	23	SBR Rubber compound	55° shore A (±5)
N80114030M8	40	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80115030M10	50	30	M10	28	SBR Rubber compound	55° shore A (±5)
N80115040M10	50	40	M10	28	SBR Rubber compound	55° shore A (±5)
N80116040M12	60	40	M12	37	SBR Rubber compound	55° shore A (±5)

VIBRATION-CONTROL RUBBER MOUNTS WITH SINGLE THREADED PIN

ITEM: N8012

Wide application for industrial use, for elastic suspensions and for absorbing the vibration of the machines and of the various mechanical structures vibrations. Those vibration-control mounts are composed by molded rubber inside two parallel metallic plates. White Metallic Galvanized plates.





P/M version with single threaded pin

Tech. Code	D mm	H mm	d mm	h mm	Material	Hardness
N80121515M4	15	15	M4	10	SBR Rubber compound	55° shore A (±5)
N80121610M5	16	20	M5	12	SBR Rubber compound	55° shore A (±5)
N8012208M6	20	8	M6	10	SBR Rubber compound	55° shore A (±5)
N80122010M6	20	10	M6	18	SBR Rubber compound	55° shore A (±5)
N80122015M6	20	15	M6	18	SBR Rubber compound	55° shore A (±5)
N80122025M6	20	25	M6	18	SBR Rubber compound	55° shore A (±5)
N80122515M6	25	15	M6	18	SBR Rubber compound	55° shore A (±5)
N80122520M6	25	20	M6	18	SBR Rubber compound	55° shore A (±5)
N80123020M8	30	20	M8	23	SBR Rubber compound	55° shore A (±5)
N80123030M8	30	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80124030M8	40	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80124030M10	40	30	M10	28	SBR Rubber compound	55° shore A (±5)
N80125020M10	50	20	M10	28	SBR Rubber compound	55° shore A (±5)
N80125030M10	50	30	M10	28	SBR Rubber compound	55° shore A (±5)
N80125040M10	50	40	M10	28	SBR Rubber compound	55° shore A (±5)
N80126050M12	60	50	M12	37	SBR Rubber compound	55° shore A (±5)
N80127540M12	75	40	M12	37	SBR Rubber compound	55° shore A (±5)
N80127550M12	75	50	M12	37	SBR Rubber compound	55° shore A (±5)
N801210050M16	100	50	M16	41	SBR Rubber compound	55° shore A (±5)

WHEELS TABLE CHART

- Wheel diameter
- Hub bore diameter
- Wheel width
- Hub length
- Ball bearing seat diameter
- Ball bearing seat lenght
- Overall height
- Top-plate outer dimensions
- Hole spacing
- Hole width
- Offset
- Brake swept radius
- Threaded stem diameter
- Threaded stem lenght
- Plate diameter
- Fixed castor
- Swivel castor with front lock
- Swivel castor with top-plate
- Wheel with pin
- Wheel with pin front lock
- Capacity
- Static load
- Smoothness
- Weight
- Temperature
- Manual handling
- Asphalt floor
- Resin cement floor
- Not paved floor
- Grid floor
- Floor with chips
- Tile floor
- Hub with plain bore
- Hub with ball bearing

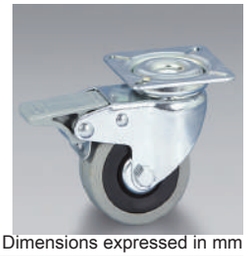
GREY RUBBER WHEELS - POLYAMIDE CORE

tellureRôta

ITEM: N8030

Grey rubber wheel ring, polyamide core with thread-guards, electrolytically galvanized supports.





Dimensions expressed in mm

Tech. Code	Support										daN
N803050G	Rotating	50	20	0.20	67	55 x 55	40 x 40	6	24	76	35
N803060G	Rotating	60	24	0.28	83	60 x 60	45 x 45	6	21	84	50
N803050F	Fixed	50	20	0.20	67	55 x 55	40 x 40	6	24	76	35
N803060F	Fixed	60	24	0.26	83	60 x 60	45 x 45	6	21	84	50
N803050GFR	Rotating and brake	50	20	0.24	67	55 x 55	40 x 40	6	24	76	35
N803060GFR	Rotating and brake	60	24	0.40	83	60 x 60	45 x 45	6	21	84	50

GREY RUBBER WHEELS - POLYAMIDE CORE

tellureRôta

ITEM: N8032

Grey rubber wheel ring, polyamide core with thread guards, electrolytically galvanized supports.
Threaded shank in galvanized steel.

SUITABLE
For use in wet environments and with medium corrosive chemicals.

NOT RECOMMENDED
For use in environments with organic solvents, chlorinated substances, hydrocarbons and mineral oils.




Dimensions expressed in mm

Tech. Code	Support										daN
N803250P	Rotating	50	20	0.18	66	8 M	15	35	24	76	35
N803260P	Rotating	60	24	0.29	83	12 M	25	41	21	84	50
N803250PFR	Rotating and brake	50	20	0.21	66	8 M	15	35	24	76	35
N803260PFR	Rotating and brake	60	24	0.36	83	12 M	25	41	21	84	50

N

BLACK RUBBER WHEELS – SHEET METAL DISC

ITEM: N8035

Black rubber ring, electrolytically galvanised sheet steel discs.



Dimensions expressed in mm

Tech. Code						1 daN	2 daN	daN
N803580R	80	25	0.17	12	39	260	60	65
N8035100R	100	30	0.28	12	44	300	75	80
N8035125R	125	37.5	0.51	15	44	330	85	130
N8035150R	150	40	0.73	15	44	350	100	170
N8035200R	200	50	1.75	20	58	410	140	230

POLYURETHANE WHEELS - POLYAMIDE CENTRE

ITEM: N8045

Injected polyurethane ring, polyamide 6 centre.



Dimensions expressed in mm

Tech. Code						1 daN	2 daN	daN
N804580R	80	30	0.11	12	39	220	120	120
N8045100R	100	30	0.15	12	44	300	170	170
N8045125R	125	35	0.25	15	44	350	230	230
N8045150R	150	45	0.47	20	59	500	280	350
N8045200R	200	50	0.82	20	59	700	380	450

POLYAMIDE WHEELS

ITEM: N8055

Solid polyamide 6 wheels.



Dimensions expressed in mm

Tech. Code						1 daN	2 daN	daN
N805580R	80	30	0.08	12	39	200	150	180
N8055100R	100	30	0.13	12	44	350	175	300
N8055125R	125	40	0.23	15	44	450	200	400
N8055150R	150	45	0.34	20	59	600	250	500
N8055200R	200	50	0.64	20	59	800	315	730

POLYURETHANE WHEELS - ALUMINIUM CENTRE

ITEM: N8065

TR polyurethane ring, aluminium centre.

*dimensions for pallet trucks



Dimensions expressed in mm

Tech. Code								1 daN	2 daN	daN
N806580R	80	25	0.20	12	30	28	8	280	150	220
N8065100R	100	30	0.34	12	40	32	10	350	225	250
N8065125R	125	35	0.50	12	40	32	10	500	280	400
N8065150R	150	40	0.91	20	50	47	14	850	330	600
N8065200R/A*	200	50	1.47	20	55	52	15	1000	360	850
N8065200R/B*	200	50	1.45	25	55	52	15	1000	500	850

POLYURETHANE WHEELS - CAST IRON CENTRE

ITEM: N8075

TR polyurethane ring, mechanical cast iron centre.



Dimensions expressed in mm

Tech. Code								1 daN	2 daN	daN
N8075100R	100	38	1.02	15	40	35	11	500	220	380
N8075125R	125	38	1.45	15	40	35	11	600	240	450
N8075150R	150	50	2.50	20	55	47	14	910	290	700
N8075200R	200	50	3.65	20	55	47	14	1500	380	1000

SIGMA ELASTIC RUBBER WHEELS – ALUMINIUM CENTRE



ITEM: N8082

"SIGMA ELASTIC" rubber ring, aluminium centre.

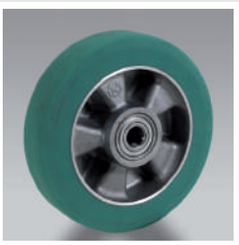
*dimensions for pallet trucks

SUITABLE
For use in wet environments and with medium corrosive chemicals.
NOT RECOMMENDED
For use in environments with organic solvents, aromatic substances, chlorinated substances, hydrocarbons.

Dimensions expressed in mm

Tech. Code								1 daN	2 daN	daN
N8082200R20*	200	50	2.00	20	60	52	17.5	1000	335	500
N8082200R25*	200	50	2.00	25	60	52	17.5	1000	335	500

TR-ROLL POLYURETHANE WHEELS – CAST ALUMINIUM CENTRE



ITEM: N8085

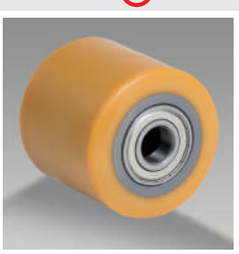
Hardness 75 Shore A.

SUITABLE
Suitable for use in industrial environments for transport of medium-heavy loads, also for mixed external-internal use.

Dimensions expressed in mm

Tech. Code								1 daN	2 daN	daN
N8085100R-NC	100	40	0.39	15	40	32	10	400	300	300
N8085160R-NC	160	50	1.00	20	60	47	14.5	800	400	550
N8085200R-NC	200	50	1.60	20	60	47	14.5	1000	500	700

POLYURETHANE PALLET TRUCK ROLLERS TR - STEEL CENTRE



ITEM: N8091

Hardness 95 Shore A, excellent smoothness and elasticity, high resistance to wear and tear.

APPLICATIONS:
Excellent for use on electric pallet trucks, also in case of heavy loads and high speed handling (up to 16 km/h).
Suitable for industrial environments, even in the presence of alcohols, glycols, hydrocarbons.

NOT RECOMMENDED FOR:
Areas in which there are organic and mineral acids, base solutions and saturated vapour.

Dimensions expressed in mm

Tech. Code								1 daN	2 daN	daN
N809180X70	80	70	1.06	20	70	47	14	800	250	700
N809180X90	80	90	1.35	20	90	47	14	1000	335	900
N809182X70	82	70	1.09	20	70	47	14	800	255	700
N809185X100	85	100	1.52	20	100	47	14	1100	400	1000
N809185X40	85	40	0.72	20	40	47	14	450	150	400
N809185X70	85	70	1.12	20	70	47	14	800	265	700
N809185X90	85	90	1.39	20	90	47	14	1000	350	900

BLACK RUBBER WHEELS – SHEET METAL DISC

tellureRôta

ITEM: N8040

Black rubber ring, electrolytically galvanised sheet steel discs, electrolytically galvanised sheet steel light supports, rotating parts with double ball bearings lubricated by grease, orange polyethylene dust guard ring.

SUITABLE
For use in wet environments and with medium corrosive chemicals.
NOT RECOMMENDED
For use in environments with organic solvents, chlorinated substances, hydrocarbons and mineral oils.





Dimensions expressed in mm

Tech. Code	Support										daN
N804080G	Rotating	80	25	0.69	107	100 x 85	80 x 60	9	39	120	65
N8040100G	Rotating	100	30	0.82	128	100 x 85	80 x 60	9	37	120	80
N8040125G	Rotating	125	37.5	1.18	156	100 x 85	80 x 60	9	39	120	130
N8040150G	Rotating	150	40	1.42	182	100 x 85	80 x 60	9	37	120	170
N8040200G	Rotating	200	50	3.25	240	140 x 110	105 x 80	11	56	156	230
N804080F	Fixed	80	25	0.49	107	100 x 85	80 x 60	9	39	120	65
N8040100F	Fixed	100	30	0.62	128	100 x 85	80 x 60	9	37	120	80
N8040125F	Fixed	125	37.5	0.92	156	100 x 85	80 x 60	9	39	120	130
N8040150F	Fixed	150	40	1.04	182	100 x 85	80 x 60	9	37	120	170
N8040200F	Fixed	200	50	2.89	240	140 x 110	105 x 80	11	56	156	230
N804080GFR	Rotating and brake	80	25	0.87	107	100 x 85	80 x 60	9	39	120	65
N8040100GFR	Rotating and brake	100	30	1.00	128	100 x 85	80 x 60	9	37	120	80
N8040125GFR	Rotating and brake	125	37.5	1.30	156	100 x 85	80 x 60	9	39	120	130
N8040150GFR	Rotating and brake	150	40	1.57	182	100 x 85	80 x 60	9	37	120	170
N8040200GFR	Rotating and brake	200	50	3.39	240	140 x 110	105 x 80	11	56	156	230

POLYURETHANE WHEELS - POLYAMIDE CENTRE

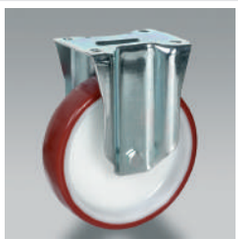
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ITEM: N8050

Injected polyurethane ring, polyamide 6 centre, electrolytically galvanised sheet steel light supports, rotating parts with double ball bearings lubricated by grease, orange polyethylene dust guard ring.

SUITABLE
For use in environments with weathering agents, alcohol and glycol, organic acids and minerals, water and saturated steam.

Note: the 60 series can be supplied with stainless steel supports, particularly recommended for medical and foodstuff environments and for particularly strong substances.


Dimensions expressed in mm

Tech. Code	Support										daN
N805080G	Rotating	80	30	0.62	107	100 x 85	80 x 60	9	39	120	120
N8050100G	Rotating	100	30	0.74	128	100 x 85	80 x 60	9	37	120	170
N8050125G	Rotating	125	35	0.91	156	100 x 85	80 x 60	9	39	120	220
N8050150G	Rotating	150	45	1.83	194	140 x 110	105 x 80	11	56	156	300
N8050200G	Rotating	200	50	2.23	240	140 x 110	105 x 80	11	56	156	300
N805080F	Fixed	80	30	0.38	107	100 x 85	80 x 60	9	39	120	120
N8050100F	Fixed	100	30	0.43	128	100 x 85	80 x 60	9	37	120	170
N8050125F	Fixed	125	35	0.66	156	100 x 85	80 x 60	9	39	120	220
N8050150F	Fixed	150	45	1.46	194	140 x 110	105 x 80	11	56	156	300
N8050200F	Fixed	200	50	2.01	240	140 x 110	105 x 80	11	56	156	300
N805080GFR	Rotating and brake	80	30	0.81	107	100 x 85	80 x 60	9	39	120	120
N8050100GFR	Rotating and brake	100	30	0.89	128	100 x 85	80 x 60	9	37	120	170
N8050125GFR	Rotating and brake	125	35	1.05	156	100 x 85	80 x 60	9	39	120	220
N8050150GFR	Rotating and brake	150	45	2.11	194	140 x 110	105 x 80	11	56	156	300
N8050200GFR	Rotating and brake	200	50	2.49	240	140 x 110	105 x 80	11	56	156	300

POLYAMIDE WHEELS

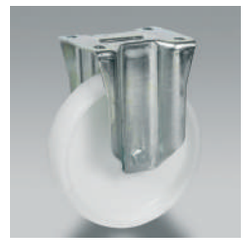
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ITEM: N8060

Solid polyamide 6 centre, electrolytically galvanised sheet steel light supports, rotating parts with double ball bearings lubricated by grease, orange polyethylene dust guard ring.

SUITABLE
For use in wet environments and with highly aggressive chemicals.
NOT RECOMMENDED
For use in environments with strong organic acids and mineral concentrates.

Note: the 68 series can be supplied with stainless steel supports, particularly recommended for medical and foodstuff environments and for particularly strong substances.


Dimensions expressed in mm

Tech. Code	Support										daN
N806080G	Rotating	80	30	0.58	107	100 x 85	80 x 60	9	39	120	180
N8060100G	Rotating	100	30	0.65	128	100 x 85	80 x 60	9	37	120	200
N8060125G	Rotating	125	40	0.89	156	100 x 85	80 x 60	9	39	120	220
N8060150G	Rotating	150	45	1.77	194	140 x 110	105 x 80	11	56	156	300
N8060200G	Rotating	200	50	2.14	240	140 x 110	105 x 80	11	56	156	300
N806080F	Fixed	80	30	0.39	107	100 x 85	80 x 60	9	39	120	180
N8060100F	Fixed	100	30	0.46	128	100 x 85	80 x 60	9	37	120	200
N8060125F	Fixed	125	40	0.64	156	100 x 85	80 x 60	9	39	120	220
N8060150F	Fixed	150	45	1.45	194	140 x 110	105 x 80	11	56	156	300
N8060200F	Fixed	200	50	1.92	240	140 x 110	105 x 80	11	56	156	300
N806080GFR	Rotating and brake	80	30	0.78	107	100 x 85	80 x 60	9	39	120	180
N8060100GFR	Rotating and brake	100	30	0.85	128	100 x 85	80 x 60	9	37	120	200
N8060125GFR	Rotating and brake	125	40	1.04	156	100 x 85	80 x 60	9	39	120	220
N8060150GFR	Rotating and brake	150	45	1.99	194	140 x 110	105 x 80	11	56	156	300
N8060200GFR	Rotating and brake	200	50	2.33	240	140 x 110	105 x 80	11	56	156	300

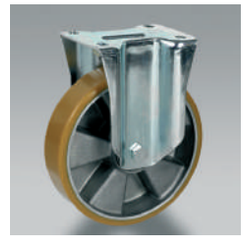
POLYURETHANE WHEELS - ALUMINIUM CENTRE

tellureRôta

ITEM: N8070

TR polyurethane ring, aluminium centre, electrolytically galvanised sheet steel light supports, rotating parts with double ball bearings lubricated by grease, orange polyethylene dust guard ring.

SUITABLE
For use in environments with weathering agents, alcohol and glycol.
NOT RECOMMENDED
For use in environments with mineral and organic acids, base solutions and saturated steam.


Dimensions expressed in mm

Tech. Code	Support										daN
N807080G	Rotating	80	25	0.72	107	100 x 85	80 x 60	9	39	120	200
N8070100G	Rotating	100	30	0.94	128	100 x 85	80 x 60	9	37	120	200
N8070125G	Rotating	125	35	1.14	156	100 x 85	80 x 60	9	39	120	220
N8070150G	Rotating	150	40	2.34	194	140 x 110	105 x 80	11	56	156	300
N8070200G	Rotating	200	50	3.05	240	140 x 110	105 x 80	11	56	156	300
N807080F	Fixed	80	25	0.52	107	100 x 85	80 x 60	9	39	120	200
N8070100F	Fixed	100	30	0.69	128	100 x 85	80 x 60	9	37	120	200
N8070125F	Fixed	125	35	0.89	156	100 x 85	80 x 60	9	39	120	220
N8070150F	Fixed	150	40	2.04	194	140 x 110	105 x 80	11	56	156	300
N8070200F	Fixed	200	50	2.76	240	140 x 110	105 x 80	11	56	156	300
N807080GFR	Rotating and brake	80	25	0.91	107	100 x 85	80 x 60	9	39	120	200
N8070100GFR	Rotating and brake	100	30	1.08	128	100 x 85	80 x 60	9	37	120	200
N8070125GFR	Rotating and brake	125	35	1.28	156	100 x 85	80 x 60	9	39	120	220
N8070150GFR	Rotating and brake	150	40	2.63	194	140 x 110	105 x 80	11	56	156	300
N8070200GFR	Rotating and brake	200	50	3.25	240	140 x 110	105 x 80	11	56	156	300

POLYURETHANE WHEELS - CAST IRON CENTRE

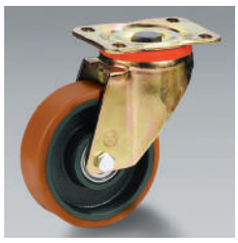


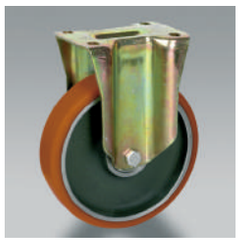
ITEM: N8080

TR polyurethane ring, mechanical cast iron centre, galvanised colonial yellow sheet steel heavy supports, rotating parts with double ball bearings lubricated by grease, red polyamide 6 dust guard ring.

SUITABLE
For use in environments with weathering agents, alcohol and glycol.

NOT RECOMMENDED
For use in environments with mineral and organic acids, base solutions and saturated steam.







Dimensions expressed in mm

Tech. Code	Support										daN
N8080100G	Rotating	100	38	1.93	138	100 x 85	80 x 60	9	46	120	350
N8080125G	Rotating	125	38	2.37	161	100 x 85	80 x 60	9	48	120	350
N8080150G	Rotating	150	50	4.81	200	140 x 110	105 x 80	11	70	126	700
N8080200G	Rotating	200	50	6.06	250	140 x 110	105 x 80	11	70	126	750
N8080100F	Fixed	100	38	1.52	138	100 x 85	80 x 60	9	46	120	350
N8080125F	Fixed	125	38	2.04	161	100 x 85	80 x 60	9	48	120	350
N8080150F	Fixed	150	50	3.55	200	140 x 110	105 x 80	11	70	126	700
N8080200F	Fixed	200	50	5.15	250	140 x 110	105 x 80	11	70	126	750
N8080100GFR	Rotating and brake	100	38	2.06	138	100 x 85	80 x 60	9	46	120	350
N8080125GFR	Rotating and brake	125	38	2.5	161	100 x 85	80 x 60	9	48	120	350
N8080150GFR	Rotating and brake	150	50	5.33	200	140 x 110	105 x 80	11	70	126	700
N8080200GFR	Rotating and brake	200	50	6.66	250	140 x 110	105 x 80	11	70	126	750

TR-POLYURETHANE ROLLERS – CAST ALUMINIUM CENTRE

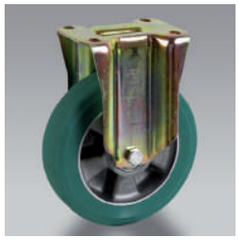


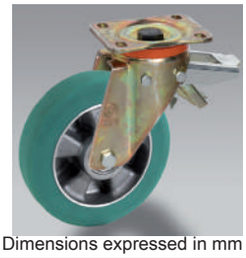
ITEM: N8090

Provide significant noise reduction of the trolleys and superior smoothness.

SUITABLE
For use at speeds up to 16 km/h and are, therefore, indicated for mechanical and mixed mechanical-manual handling.







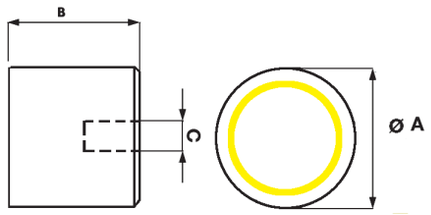
Dimensions expressed in mm

Tech. Code	Support										daN
N8090100G	Rotating	100	40	0.85	138	100 x 85	80 x 60	9	46	123	300
N8090125G	Rotating	125	40	2.33	170	140 x 110	105 x 80	11	70	126	350
N8090160G	Rotating	160	50	3.60	205	140 x 110	105 x 80	11	70	126	550
N8090200G	Rotating	200	50	4.31	250	140 x 110	105 x 80	11	70	126	700
N8090100F	Fixed	100	40	1.35	138	100 x 85	80 x 60	9	46	123	300
N8090125F	Fixed	125	40	1.69	170	140 x 110	105 x 80	11	70	126	350
N8090160F	Fixed	160	50	2.11	205	140 x 110	105 x 80	11	70	126	550
N8090200F	Fixed	200	50	2.85	250	140 x 110	105 x 80	11	70	126	700
N8090100GFR	Rotating and brake	100	40	1.52	138	100 x 85	80 x 60	9	46	123	300
N8090125GFR	Rotating and brake	125	40	1.86	170	140 x 110	105 x 80	11	70	126	350
N8090160GFR	Rotating and brake	160	50	4.17	205	140 x 110	105 x 80	11	70	126	550
N8090200GFR	Rotating and brake	200	50	4.91	250	140 x 110	105 x 80	11	70	126	700

ALNICO ALLOY PERMANENT MAGNETS

ITEM: N8101

Alnico permanent magnets shielded with a brass ring, the shielding ensures increased magnetic coercivity allowing this product to maintain its shape even when inserted in ferrous components, the outer protection provides impact resistance. Heat-resistant up to 450°.

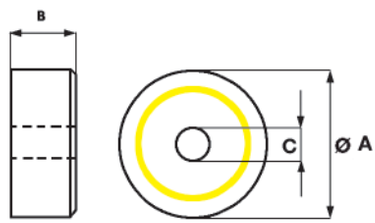




Tech. Code	A mm	B mm	C mm	Magnetic force kg
N81019,5	9.5	15	M3	1.5
N810112,7	12.7	15.8	M4	2
N810117,5	17.5	15.8	M6	4
N810120,6	20.6	19	M6	5.5
N810127	27	25.4	M6	10
N81013520	35	20	M6	12
N81013530	35	30	M6	18
N810145	45	30	M8	40
N810150	50	40	M8	50
N810155	55	14	M8	10

ITEM: N8102

Alnico permanent magnets shielded with a brass ring, the shielding ensures increased magnetic coercivity allowing this product to maintain its shape even when inserted in ferrous components, the outer protection provides impact resistance. Heat-resistant up to 450°.

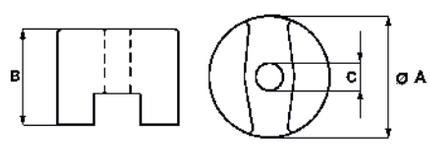




Tech. Code	A mm	B mm	C mm	Magnetic force kg
N810219	19	8	M4	2.5
N810228,6	28.6	9.5	M6	5.5
N810238	38	11.1	M6	10

ITEM: N8103

Alnico permanent magnets shielded with a brass ring, the shielding ensures increased magnetic coercivity allowing this product to maintain its shape even when inserted in ferrous components, the outer protection provides impact resistance. Heat-resistant up to 450°.

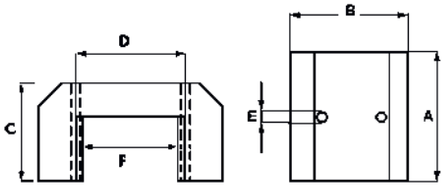




Tech. Code	A mm	B mm	C mm	Magnetic force kg
N810319	19	12.7	4.8	1.9
N810325,4	25.4	15.9	4.8	3

ITEM: N8104

Alnico permanent magnets shielded with a brass ring, the shielding ensures increased magnetic coercivity allowing this product to maintain its shape even when inserted in ferrous components, the outer protection provides impact resistance. Heat-resistant up to 450°.

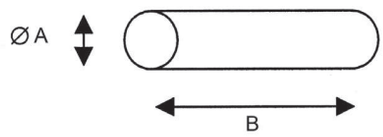




Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	Magnetic force kg
N810419	19	30	20	-	4.5	14.5	5
N810425	25	40	25	-	5	19	9
N810444	44	59	35	35	7.5	29	24

ALNICO ALLOY PERMANENT MAGNETS

ITEM: N8105



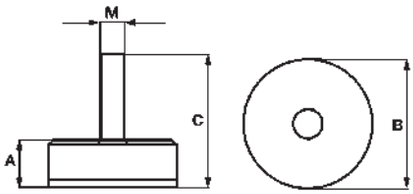


Tech. Code	A mm	B mm
N81056	6	20
N81058	8	25
N810510	10	30

NEODYMIUM PERMANENT MAGNETS

ITEM: N8110

Composed of an iron casing and a neodymium internal magnet, very strong despite the small dimensions. Widely used in positioning pieces of electric discharging machines.



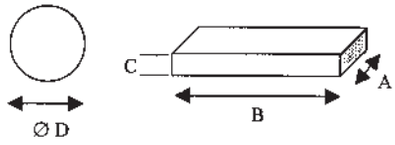


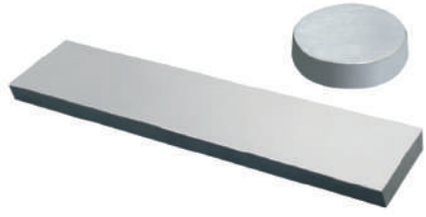
Tech. Code	A mm	B mm	C mm	M mm	Magnetic force kg
N8110A	7.5	19	-	-	6
N8110B	6	22	16	M5	5
N8110D	12	22	-	-	12

FERRITE RUBBER PERMANENT MAGNETS

ITEM: N8111

Magnetic rubber is a very malleable compound that is easily shaped, it does not feature a strong magnetic force, but if suitably applied it can solve major adhesion problems on walls and iron structures, it is easily applied.





Tech. Code	A mm	B mm	C mm	D mm
N811170X20	20	70	3	-
N8111120X30	30	120	6	-
N811120	-	-	3	20

Related products

WODEX COMBINATION RATCHET WRENCHES 72T

Tech. Code	⬣ mm	a mm
E019010	10	5,5
E019013	13	6,5
E019014	14	7,0
E019015	15	7,5

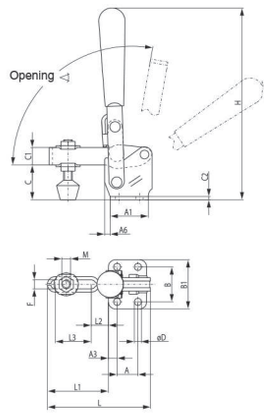


Products are available in CAP E

QUICK VERTICAL CLAMPS

ITEM: N8350

Quick vertical clamps complete with pressure screw locks, ideal for drilling operations assembling and bonding. Stainless steel rivets, ergonomic grip, resistant to oils.



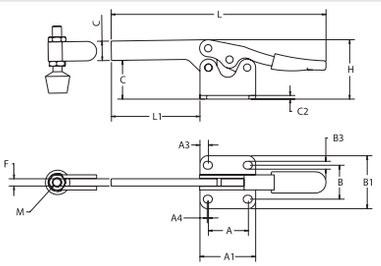


Tech. Code	MODEL	A mm	A1 mm	A3 mm	A6 mm	B mm	B1 mm	C mm	C1 mm	D mm	F mm	H mm	L mm	L1 mm	L2 mm	L3 mm	M mm
N8350201U	201-U	16	25,4	4,8	-	23,9	34	16	7,9	4,3	5,3	78,2	51,8	26,2	3,3	18,5	M5
N8350202U	202-U	12,4	25,4	6,6	2,8	26,7	39,1	23,4	9,7	5,6	6,6	110	69,6	43,9	13	24,9	M6
N8350207U	207-U	19,1	35,1	7,9	3,8	31,5	43,9	31,8	16	7,1	8,4	176	94,5	54,4	14,2	33	M8
N8350210U	210-U	31,8	48,5	7,9	10,7	45,2	64,3	42,4	20,1	8,4	10,2	207	140,7	92,2	23,9	61	M10

QUICK HORIZONTAL CLAMPS

ITEM: N8355

Quick horizontal clamps complete with pressure screw locks, ideal for drilling operations, assembling and bonding. Stainless steel rivets, ergonomic grip, resistant to oils.

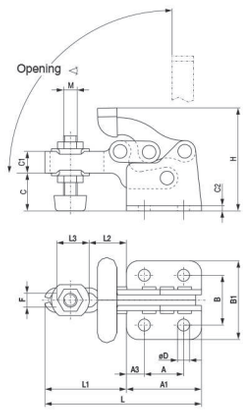


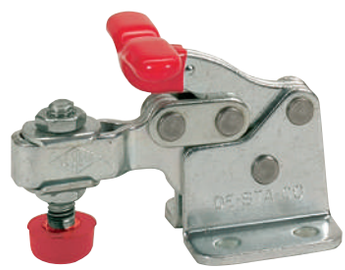


Tech. Code	MODEL	A mm	A1 mm	A3 mm	A4 mm	B mm	B1 mm	B3 mm	C mm	C1 mm	C2 mm	H mm	L mm	L1 mm	M mm
N8355205S	205-S	13,5	23,9	6,4	2,3	15,7	24,1	4,3	9,1	3	1,5	17	71,1	22,4	M4

ITEM: N8358

Quick horizontal clamps complete with pressure screw locks, ideal for drilling operations, assembling and bonding. Stainless steel rivets, argonomic grip, resistant to oil.



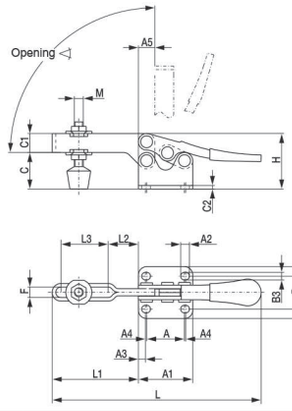


Tech. Code	MODEL	A mm	A1 mm	A3 mm	B mm	B1 mm	C mm	C1 mm	C2 mm	D mm	F mm	H mm	L mm	L1 mm	L2 mm	L3 mm	M mm
N8358305U	305-U	13,5	25,9	6,4	16	25,4	12,2	7,9	2	4,6	5,3	36,3	56,1	30,2	13	12,7	M5

QUICK HORIZONTAL CLAMPS

ITEM: N8360

Quick horizontal clamps complete with pressure screw locks, ideal for drilling operations, assembling and bonding. Stainless steel rivets, ergonomic grip, resistant to oils.

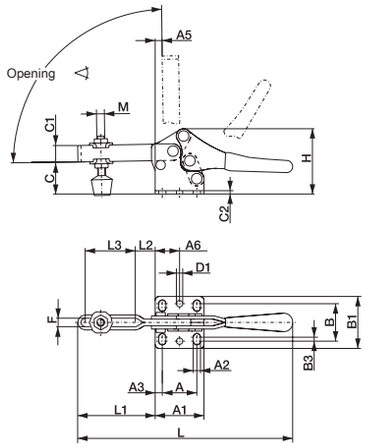




Tech. Code	MODEL	A mm	A1 mm	A2 mm	A3 mm	A5 mm	B mm	B1 mm	C mm	C1 mm	F mm	H mm	L mm	L1 mm	L2 mm	L3 mm	M mm
N8360205U	205-U	11,4	23,9	6,6	4,1	5,8	15,7	24,1	8,1	6,4	4,6	17,8	67,3	18,8	5,6	9,4	M4
N8360215U	215-U	25,4	36,3	6,6	4,8	8,1	22,1	35,1	25,4	12,7	7,1	38,9	139,7	57,4	19,8	32	M6

ITEM: N8365

Quick horizontal clamps complete with pressure screw locks, ideal for drilling operations, assembling and bonding. Stainless steel rivets, ergonomic grip, resistant to oils.



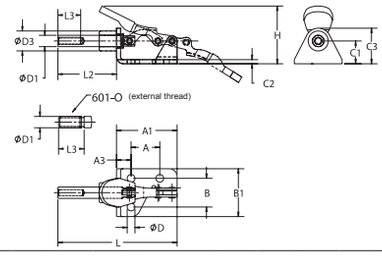


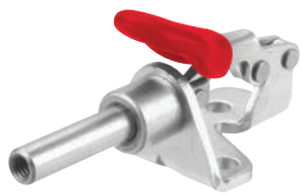
Tech. Code	MODEL	A mm	A1 mm	A2 mm	A3 mm	A5 mm	B mm	B1 mm	C mm	C1 mm	F mm	H mm	L mm	L1 mm	L2 mm	L3 mm	M mm
N8365213U	213-U	13,5	25,4	4,3	5,8	5,6	19,1	26,9	16,5	9,4	5,3	35,6	103,1	35,6	9,7	21,6	M5
N8365217U	217-U	26,2	37,1	5,6	5,3	7,6	28,4	39,4	23,4	12,4	6,4	49,5	177,8	58,7	14,2	39,1	M6
N8365227U	227-U	25,9	39,9	6,6	7,1	3,6	31,5	44,2	31,8	14,2	8,4	61	190,5	67,3	21,1	39,1	M8

QUICK PUSH ROD CLAMPS

ITEM: N8368

Quick push rod clamps threaded internally,ideal for drilling operations,assembling and bonding. Stainless steel rivets,ergononic grip,resistant to oils.





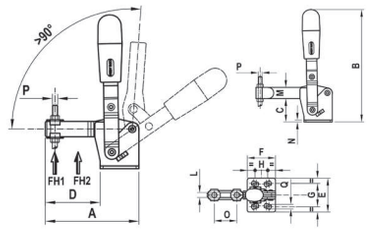
Tech. Code	MODEL	A mm	A1 mm	A3 mm	B mm	B1 mm	C1 mm	C2 mm	C3 mm	D mm	D1 mm	D3 mm	H mm	L mm	L2 mm	L3 mm
N8368601M	601-M	16	33,8	8,1	16	26,7	12,7	2,3	19,8	4,3	M4	11,2	32,3	66,3	32,5	12,7

QUICK CLAMPS

ITEM: N8400

VERTICAL SERIES

Galvanised hardened sheet steel clamping lever with plastic cover, supplied without spindle.





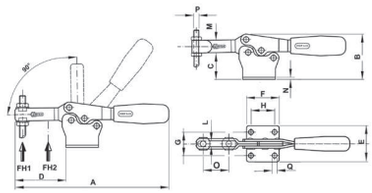
Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	N mm	O. mm	P mm	Q mm	FH1 DaN	FH2 DaN
N840067	66.5	98	20.5	37.5	34	29	24	15÷16	5.2	11	2	20	M5	4.5	75	160
N840085	85	142	28	50	42	35	27÷29	12.5÷19	6.2	16	2.5	28	M6	5.6	105	175
N8400110,5	110.5	168	33.5	67.5	45	43	32	19÷20	8.5	18	3	40	M8	6.7	200	320
N8400129	129	195	43	79	65	50	45÷46	29÷32	10.5	22	3.5	43	M10	8.5	240	400
N8400164	164	247	55,5	106	65	58	45	32	12,5	26	4	64	M12	8,5	280	500
N8400223	223	303	84,5	143	95	80	70	50÷51	12,5	32	7	90	M12	12,5	450	875

QUICK CLAMPS

ITEM: N8410

HORIZONTAL SERIES

Galvanised hardened sheet steel clamping lever with plastic cover, supplied without spindle.





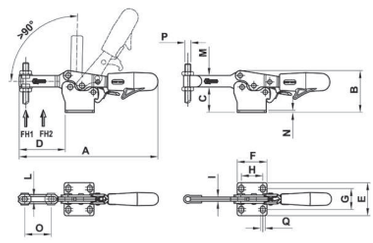
Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	N mm	O. mm	P mm	Q mm	FH1 daN	FH2 daN
N841068	68	23	12	19	24,5	24	16	15	4,2	7	1,2	10	M4	4,3	40	-
N8410118	118	37	20	40	26	28	17	13.5	5.5	11	2	20	M5	4.5	90	135
N8410170	170	51	29	56	40	36	26	26	6.5	14	2.5	32	M6	5.5	100	200
N8410195	195	61.5	36.5	65	42	44	28.5	26	8.5	18	3	37	M8	6.5	170	330
N8410269	269	83	50	100	56	60	41	41	10	22	3,5	58	M10	8,5	180	400
N8410308	308	98,5	60	115	65	70	41,5	41,5	12,4	26	4	65	M12	8,5	320	620

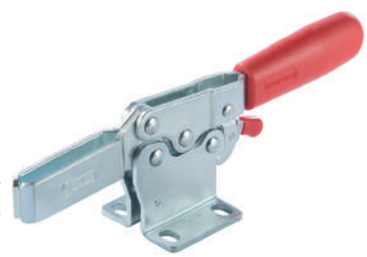
HORIZONTAL QUICK CLAMPS WITH ANTI-RELEASE LEVER

ITEM: N8412

HORIZONTAL SERIES

Some sizes of this series are also made of stainless steel and are shown in red.
The main feature of this series is the special anti-release lever with the purpose of avoiding any accidental openings caused by vibrations; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening.



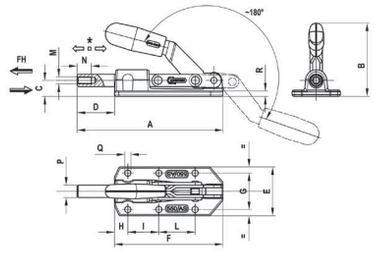


Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	N mm	O mm	P mm	Q mm	FH1 daN	FH2 daN
N8412118	118	37	20	39	26	28	16÷19	13,5	5,3	11	2	20	M5	4,5	90	135
N8412171	171	51	30,5	56,5	40	36	22,4÷28,4	26	6,3	16	2,5	32	M6	5,6	100	200
N8412196	196	61,5	36,5	65	44	44	26÷31,5	26	8,5	18	3	37	M8	6,6	170	330

QUICK CLAMPS

ITEM: N8420

STRAIGHT-LINE ACTION SERIES
Galvanised hardened sheet steel clamping lever with plastic cover, base body of lacquered brass, * painted forged steel body, supplied without spindle.



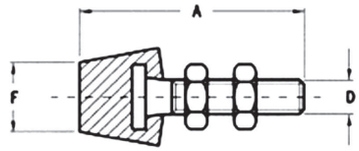


Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm	P mm	Q mm	R mm	* mm	FH daN
N842086	86	42.5	12	22	36	64	26	13	26	-	M6	12	8.5	4.3	6	20	120
N8420116	116	56	15	31	46	85	33.5	11.5	36,5	-	M6	12	11	5.5	7	30	280
N8420122*	122	75	25	32	45.9	90	33.5	36.5	36,5	-	M8	15	12	5.5	7	32	560
N8420165	164,5	75	18	42	55	122,5	41	15	35	41	M8	16	14	7	7	42	800
N8420182	182	95	25	49	57	133	41	15	35	41	M10	18	16	8,5	8	50	1600

SPINDLE WITH NEOPRENE THRUST

ITEM: N8430

Galvanised steel screw with two nuts.



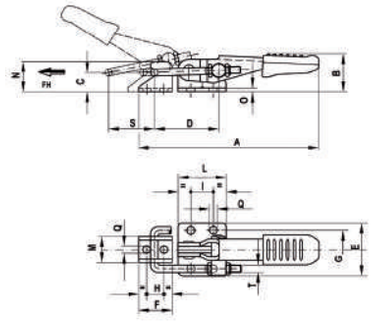


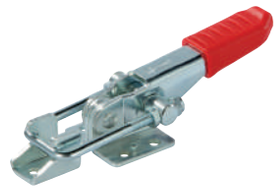
Tech. Code	A mm	D mm	F mm
N8430M5	45	M5	10
N8430M6	55	M6	13
N8430M8	68	M8	16
N8430M10	80	M10	20

QUICK CLAMP DOUBLE SYSTEM

ITEM: N8435

Clamping system in which the circular movement of the control lever is transformed into linear movement of the tie rod, this series is mostly used in closing hinged lids and containers.Support base parallel to the line of action of the force. In the closed position the control lever is parallel to the support base.Parts in UNI 5867 cemented steel sheet and UNI 7230-73 steel traction hook. Clamping force Fh 320 daN. Galvanized finish. Weight 320gr.



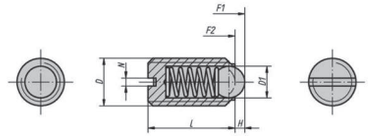


Tech. Code	MODEL	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm	Q mm	S mm	T mm	FH daN
N843598	160/T2	98	25	12	35÷44	28	20	19	10	16	26	14	18	4,3	25	M4	160
N8435220	320/T2	152	30	16	54÷63	44	28	32	14,3	19	40	22	25	6,5	48	M6	320
N8435221	700/T2	220	42	24	70÷90	54	38	38	19	41,5	60	26	36	8,5	58	M8	750

SPRING PLUNGERS WITH SLOT AND BALL, STEEL

ITEM: N8440

Spring plungers with ball and slot for screwdrivers. Burnished steel body 5.8 resistance class, spring and steel ball.



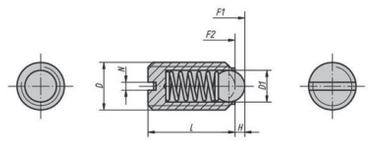


Tech. Code	D mm	D1 mm	L mm	H mm	N mm	F1 pressure N	F2 pressure N
N844003	M3	1,5	7	0,5	0,4	1,5	3
N844004	M4	2,5	9	0,8	0,6	4	10
N844005	M5	3	12	0,9	0,8	6	11
N844006	M6	3,5	14	1	1	9	13
N844008	M8	5	16	1,5	1,2	15	30
N844010	M10	6	19	2	1,6	20	35
N844012	M12	8	22	2,5	2	30	55

SPRING PLUNGERS WITH SLOT AND BALL, STAINLESS STEEL

ITEM: N8441

Spring plungers with ball and slot for screwdrivers. Body in stainless steel 1.4305, spring 1.4310 and sphere 1.4034.



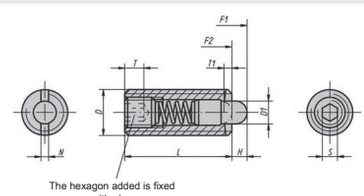


Tech. Code	D mm	D1 mm	L mm	H mm	N mm	F1 pressure N	F2 pressure N
N844103	M3	1,5	7	0,5	0,4	1,5	3
N844104	M4	2,5	9	0,8	0,6	4	10
N844105	M5	3	12	0,9	0,8	6	11
N844106	M6	3,5	14	1	1	9	13
N844108	M8	5	16	1,5	1,2	15	30
N844110	M10	6	19	2	1,6	20	35
N844112	M12	8	22	2,5	2	30	55

SPRING PLUNGERS WITH HEXAGON SOCKET AND THRUST PIN, STEEL

ITEM: N8445

Spring plungers with pin and hexagon socket. Burnished steel body 5.8 class resistance, steel spring and hardened steel thrust pin.





Tech. Code	D mm	D1 mm	L mm	H mm	T mm	T1 mm	N mm	S mm	F1 pressure N	F2 pressure N
N844503	M3	1	10	1,5	1,5	1	0,4	0,7	0,5	3
N844504	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16
N844505	M5	2,4	18	2,3	2	0,8	0,8	1,5	6	20
N844506	M6	2,7	20	2,5	2,5	1	1	2	7	20
N844508	M8	3,5	22	3	3	1,4	1,4	2,5	9	35
N844510	M10	4	22	3	3,5	1,4	1,4	3	9	35
N844512	M12	6	28	4	5	2	2	4	10	55

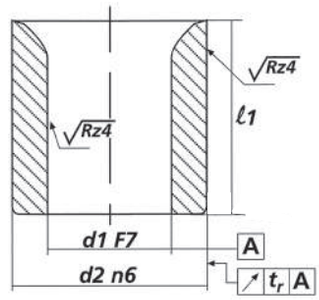
DRILL BUSHES DIN 179 – SHORT SERIES

ITEM: 179/C

Material 16 Cr Ni 4
Grinding tolerances d1 = F7 and d2 = n6
Heat Treatment Cementing + hardening
Hardness 60 - 62 HRc

Tech. Code	D1 hole Ø mm	l1 mm	D2 ext. Ø mm
N85002	2	6	5
N85004	4	8	8
N85005	5	8	8
N85005,5	5.5	10	10
N85006	6	10	10
N85006,1	6.1	10	12
N85006,25	6.25	10	12
N85006,5	6.5	10	12
N85008	8	10	12

Tech. Code	D1 hole Ø mm	l1 mm	D2 ext. Ø mm
N850010	10	12	15
N850010,5	10.5	12	18
N850012	12	12	18
N850014	14	16	22
N850016	16	16	26
N850017	17	16	26
N850018	18	16	26
N850020	20	20	30
N850030	30	20	42



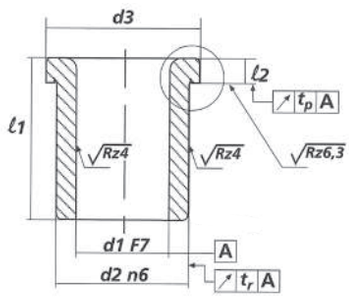
DRILL BUSHES DIN 172 – SHORT SERIES

ITEM: 172/C

Material 16 Cr Ni 4
Grinding tolerances d1 = F7 and d2 = n6
Heat Treatment Cementing + hardening
Hardness 60 - 62 HRc

Tech. Code	Hole Ø d1 mm	l1 mm	l2 mm	Ext. Ø d2 mm	d3 Ø mm
N85102,2	2.2	6	2	5	8
N85102,3	2.3	6	2	5	8
N85102,4	2.4	6	2	5	8
N85102,5	2.5	6	2	5	8
N85103,3	3.3	8	2.5	6	9
N85103,5	3.5	8	2.5	7	10
N85104	4	8	2.5	7	10
N85105	5	8	2.5	8	11
N85105,1	5.1	10	3	10	13
N85105,5	5.5	10	3	10	13
N85106	6	10	3	10	13
N85106,5	6.5	10	3	12	15
N85106,8	6.8	10	3	12	15
N85107	7	10	3	12	15

Tech. Code	Hole Ø d1 mm	l1 mm	l2 mm	Ext. Ø d2 mm	d3 Ø mm
N85108	8	10	3	12	15
N85109	9	12	3	15	18
N851010	10	12	3	15	18
N851010,5	10.5	12	4	18	22
N851011	11	12	4	18	22
N851012	12	12	4	18	22
N851014	14	16	4	22	26
N851015	15	16	4	22	26
N851016	16	16	4	26	30
N851020	20	20	5	30	34
N851022	22	20	5	30	34
N851025	25	20	5	35	39
N851030	30	20	5	42	46
N851040	40	25	5	55	59



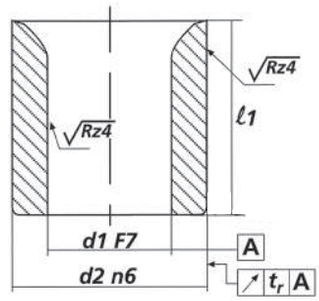
DRILL BUSHES DIN 179 – LONG SERIES

ITEM: 179/L

Material 16 Cr Ni 4
Grinding tolerances d1 = F7 and d2 = n6
Heat Treatment Cementing + hardening
Hardness 60 - 62 HRc

Tech. Code	D1 hole Ø mm	l1 mm	Ext. Ø D2 mm
N85202	2	9	5
N85203	3	12	6
N85203,2	3.2	12	6
N85203,5	3.5	12	7
N85204	4	12	7
N85205	5	12	8
N85206	6	16	10
N85208	8	16	12
N85209	9	20	15
N852010	10	20	15

Tech. Code	D1 hole Ø mm	l1 mm	Ext. Ø D2 mm
N852011	11	20	18
N852012	12	20	18
N852014	14	28	22
N852018	18	28	26
N852020	20	36	30
N852022	22	36	30
N852025	25	36	35
N852026	26	36	35
N852030	30	36	42



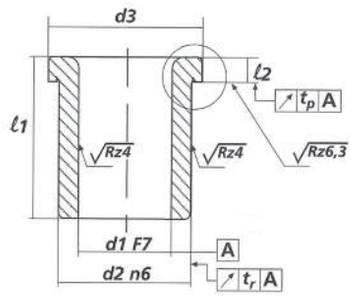
DRILL BUSHES DIN 172 – LONG SERIES

ITEM: 172/L

Material 16 Cr Ni 4
Grinding tolerances d1 = F7 and d2 = n6
Heat Treatment Cementing + hardening
Hardness 60 - 62 HRc

Tech. Code	Hole Ø d1 mm	l1 mm	l2 mm	Ext. Ø d2 mm	d3 Ø mm
N85303	3	12	2.5	6	9
N85304,5	4.5	12	2.5	8	11
N85305	5	12	2.5	8	11
N85306	6	16	3	10	13
N85306,5	6.5	16	3	12	15
N85307	7	16	3	12	15
N85308	8	16	3	12	15
N85308,5	8.5	20	3	15	18

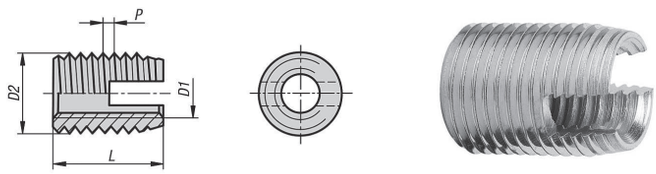
Tech. Code	Hole Ø d1 mm	l1 mm	l2 mm	Ext. Ø d2 mm	d3 Ø mm
N853010	10	20	3	15	18
N853012	12	20	4	18	22
N853013	13	28	4	22	26
N853014	14	28	4	22	26
N853016	16	28	4	26	30
N853020	20	36	5	30	34
N853025	25	36	5	35	39
N853030	30	36	5	42	46



SELF-TAPPING THREAD INSERTS - GALVANIZED STEEL

ITEM: N8602

Galvanized case hardened steel self-tapping thread inserts with internal and external thread. Ideal for producing metric screw threads that are capable of supporting heavy loads. Vibration and wear resistant. Suitable for materials with low shear strength such as aluminium alloys, brass, bronze, cast iron, Duroplast and thermoplastic resins.
The thread inserts have a cutting slot and a tapered bottom, which allows them to join together. When screwed in, they cut their own threads inside the hole, ensuring that it is fastened firmly and securely.



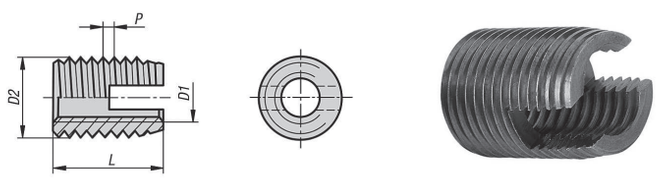
Tech. Code	D1	D2 x P	L mm	Hole diameter mm	Hole depth mm
N86020306	M3	MF 5 x 0.5	6	4.5 - 4.8	8
N86020408	M4	MF 6.5 x 0.75	8	5.8 - 6.2	10
N86020510	M5	MF 8 x 1	10	7.1 - 7.6	13
N86020612	M6	MF 9 x 1	12	8.1 - 8.6	15
N86020614	M6	MF10 x 1.5	14	8.6 - 9.4	17
N86020815	M8	MF12 x 1.5	15	10.6 - 11.4	18
N86021018	M10	MF14 x 1.5	18	12.6 - 13.4	22
N86021222	M12	MF16 x 1.5	22	14.6 - 15.4	26
N86021424	M14	MF18 x 1.5	24	16.6 - 17.4	28
N86021622	M16	MF20 x 1.5	22	18.6 - 19.4	27

Manual installation tools code N8607__

SELF TAPPING THREAD INSERTS - STAINLESS STEEL AISI 303

ITEM: N8603

stainless steel 1.305 AISI 303 self-tapping thread inserts with internal and external thread. Ideal for producing metric screw threads that are capable of supporting heavy loads. Vibration and wear resistant. Suitable for materials with low shear strength such as aluminium alloys, brass, bronze, cast iron, Duroplast and thermoplastic resins.
The thread inserts have a cutting slot and a tapered bottom, which allows them to join together. When screwed in, they cut their own threads inside the hole, ensuring that it is fastened firmly and securely.



Tech. Code	D1	D2 x P	L mm	Hole Ø mm	Hole depth mm
N86030306	M3	MF 5 x 0.5	6	4.5 - 4.8	8
N86030408	M4	MF 6.5 x 0.75	8	5.8 - 6.2	10
N86030510	M5	MF 8 x 1	10	7.1 - 7.6	13
N86030612	M6	MF 9 x 1	12	8.1 -8.6	15
N86030614	M6	MF10 x 1.5	14	8.6 - 9.4	17
N86030815	M8	MF12 x 1.5	15	10.6 - 11.4	18
N86031018	M10	MF14 x 1.5	18	12.6 - 13.4	22
N86031222	M12	MF16 x 1.5	22	14.6 - 15.4	26

Manual installation tools code N8607__

WIRE THREAD INSERTS STAINLESS STEEL - M

ITEM: N8611

Very high mechanical strength stainless steel wire thread inserts (approx. 145 kg/mm²). Their typical design, in the shape of a spring, forms two perfectly concentric threads, one external and the other internal. The external one allows the wire thread insert to be inserted in a hole threaded with a specific tap, while the internal thread accommodates a screw with maximum precision.

The pull stud bolt, which is essential for inserting the thread into the hole, is easily removed after assembly using a break off tool. The external diameter of the wire thread inserts in their free state is greater than that of their receiving holes. The elastic deformation that they undergo when entering the hole generates a force that holds the thread firmly anchored to the walls of the hole, preventing them from coming out.



Nominal∅	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length
M 2 x 0.4	N86110210	1 x D	N86110215	1,5 x D	N86110220	2 x D	N86110225	2,5 x D	N86110230	3 x D
M 2.5 x 0.45	N861102510	1 x D	N861102515	1,5 x D	N861102520	2 x D	N861102525	2,5 x D	N861102530	3 x D
M 3 x 0.5	N86110310	1 x D	N86110315	1,5 x D	N86110320	2 x D	N86110325	2,5 x D	N86110330	3 x D
M 4 x 0.7	N86110410	1 x D	N86110415	1,5 x D	N86110420	2 x D	N86110425	2,5 x D	N86110430	3 x D
M 5 x 0.8	N86110510	1 x D	N86110515	1,5 x D	N86110520	2 x D	N86110525	2,5 x D	N86110530	3 x D
M 6 x 1	N86110610	1 x D	N86110615	1,5 x D	N86110620	2 x D	N86110625	2,5 x D	N86110630	3 x D
M 7 x 1	N86110710	1 x D	N86110715	1.5 x D	N86110720	2 x D	N86110725	2,5 x D	N86110730	3 x D
M 8 x 1.25	N86110810	1 x D	N86110815	1,5 x D	N86110820	2 x D	N86110825	2,5 x D	N86110830	3 x D
M 10 x 1.5	N86111010	1 x D	N86111015	1,5 x D	N86111020	2 x D	N86111025	2,5 x D	N86111030	3 x D
M 12 x 1.75	N86111210	1 x D	N86111215	1,5 x D	N86111220	2 x D	N86111225	2,5 x D	N86111230	3 x D
M 14 x 2	N86111410	1 x D	N86111415	1,5 x D	N86111420	2 x D	N86111425	2,5 x D	N86111430	3 x D
M 16 x 2	N86111610	1 x D	N86111615	1,5 x D	N86111620	2 x D	N86111625	2,5 x D	N86111630	3 x D
M 18 x 2.5	N86111810	1 x D	N86111815	1,5 x D	N86111820	2 x D	N86111825	2,5 x D	N86111830	3 x D
M 20 x 2.5	N86112010	1 x D	N86112015	1,5 x D	N86112020	2 x D	N86112025	2,5 x D	N86112030	3 x D
M 22 x 2.5	N86112210	1 x D	N86112215	1,5 x D	N86112220	2 x D	N86112225	2,5 x D	N86112230	3 x D
M 24 x 3	N86112410	1 x D	N86112415	1,5 x D	N86112420	2 x D	N86114425	2,5 x D	N86112430	3 x D

Break off tools code N8655M_

WIRE THREAD INSERTS STAINLESS STEEL - MF

ITEM: N8612

Very high mechanical strength stainless steel wire thread inserts (approx. 145 kg/mm²). Their typical design, in the shape of a spring, forms two perfectly concentric threads, one external and the other internal. The external one allows the wire thread insert to be inserted in a hole threaded with a specific tap, while the internal thread accommodates a screw with maximum precision.

The pull stud bolt, which is essential for inserting the thread into the hole, is easily removed after assembly using a break off tool. The external diameter of the wire thread inserts in their free state is greater than that of their receiving holes. The elastic deformation that they undergo when entering the hole generates a force that holds the thread firmly anchored to the walls of the hole, preventing them from coming out.



Nominal∅	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length
MF 8 x 1	N86120810010	1 x D	N86120810015	1,5 x D	N86120810020	2 x D	N86120810025	2,5 x D	N86120810030	3 x D
MF10 x 1	N86121010010	1 x D	N86121010015	1,5 x D	N86121010020	2 x D	N86121010025	2,5 x D	N86121010030	3 x D
MF10 x 1.25	N86121012510	1 x D	N86121012515	1,5 x D	N86121012520	2 x D	N86121012525	2,5 x D	N86121012530	3 x D
MF12 x 1	N86121210010	1 x D	N86121210015	1,5 x D	N86121210020	2 x D	N86121210025	2,5 x D	N86121210030	3 x D
MF12 x 1.25	N86121212510	1 x D	N86121212515	1,5 x D	N86121212520	2 x D	N86121212525	2,5 x D	N86121212530	3 x D
MF12 x 1.5	N86121215010	1 x D	N86121215015	1,5 x D	N86121215020	2 x D	N86121215025	2,5 x D	N86121215030	3 x D
MF14 x 1.25	N86121412510	1 x D	N86121412515	1,5 x D	N86121412520	2 x D	N86121412525	2,5 x D	N86121412530	3 x D
MF14 x 1.5	N86121415010	1 x D	N86121415015	1.5 x D	N86121415020	2 x D	N86121415025	2,5 x D	N86121415030	3 x D
MF16 x 1.5	N86121615010	1 x D	N86121615015	1,5 x D	N86121615020	2 x D	N86121615025	2,5 x D	N86121615030	3 x D

Break off tools code N8655M_

TAPS FOR WIRE THREAD INSERTS

ITEM: N8630

Taps for hand or machine use.

Tech. Code	For threads
N8630M2X0,4	M 2 x 0,4
N8630M2,5X0,45	M 2,5 x 0,45
N8630M3X0,5	M 3 x 0,5
N8630M4X0,7	M4 x 0.70
N8630M5X0,8	M5 x 0.80
N8630M6X1,0	M6 x 1.00
N8630M7X1,0	M 7 x 1
N8630M8X1,0	MF 8 x 1
N8630M8X1,25	M8 x 1.25
N8630M10X1,0	MF 10 x 1
N8630M10X1,25	M10 x 1.25
N8630M10X1,50	M10 x 1.50
N8630M12X1,0	MF 12 x 1

Tech. Code	For threads
N8630M12X1,25	M12 x 1.25
N8630M12X1,5	MF 12 x 1,5
N8630M12X1,75	M12 x 1.75
N8630M14X1,25	M14 x 1.25
N8630M14X1,5	MF14 x 1,5
N8630M14X2,0	M14 x 2.00
N8630M16X1,5	MF 16 x 1,5
N8630M16X2,0	M16 x 2.00
N8630M18X2,5	M18 x 2.50
N8630M20X2,5	M20 x 2.50
N8630M22X2,5	M 22 x 2,5
N8630M24X3,0	M 24 x 3



MANDRELS FOR WIRE THREAD INSERTS

ITEM: N8650

Mandrels for wire thread inserts. Free rod insertion version.



Tech. Code	For threads
N8650M2X0,4	M2
N8650M2,5X0,45	M2.5
N8650M3X0,5	M3
N8650M4X0,7	M4
N8650M5X0,8	M5
N8650M6X1,0	M6
N8650M7X1,0	M7
N8650M8X1,0	MF8 x 1
N8650M8X1,25	M8
N8650M10X1,0	MF10 x 1
N8650M10X1,25	MF10 x 1,25
N8650M10X1,5	M10

Tech. Code	For threads
N8650M12X1,0	MF12x1
N8650M12X1,25	MF12 x 1,25
N8650M12X1,5	MF12 x 1.5
N8650M12X1,75	M12
N8650M14X1,25	MF14 x 1.25
N8650M14X2,0	M14
N8650M16X1,5	MF16 x 1.5
N8650M16X2,0	M16
N8650M18X2,5	M18
N8650M20X2,5	M20
N8650M22X2,5	M22
N8650M24X3,0	M24

THREAD INSERTS REPAIR KITS

ITEM: N8670

Thread Inserts repair kits studied to satisfy the needs of the technicians of the maintenance, practical and functional.



Compostion of kit:
- 1 cutter
- 1 installation tool
- 1 finishing tap
- 1 drill bit
- 10/15/20 threads 1,5xD

Tech. Code	For threads
N8670M03X0,5	M3
N8670M04X0,7	M4
N8670M05X0,8	M5
N8670M06X1,0	M6
N8670M08X1,0	MF8 x 1
N8670M08X1,25	M8

Tech. Code	For threads
N8670M10X1,0	MF10 x 1
N8670M10X1,25	MF10 x 1.25
N8670M10X1,5	M10
N8670M12X1,25	MF12 x 1.25
N8670M12X1,75	M12
N8670M16X2,0	M16

BASIC THREAD INSERTS REPAIR KIT

ITEM: N8671

Basic version of the repair kit for inserted threads, essential, practical and functional to meet the needs of maintenance technicians.



Kit composition:
- 1 installation tool
- 1 finishing tap
- 1 drill bit (except for M12/M14/M16)
- 1 miter saw (except for M12/M14/M16)
- 10/15/20 1.5D threads

Tech. Code	For threads
N8671M03X0,5	M3
N8671M04X0,7	M4
N8671M05X0,8	M5
N8671M06X1,0	M6
N8671M08X1,0	M8 x 1
N8671M08X1,25	M8
N8671M10X1,0	M10 x 1

Tech. Code	For threads
N8671M10X1,25	M10 x 1,25
N8671M10X1,5	M10
N8671M12X1,25	M12 x 1,25
N8671M12X1,75	M12
N8671M14X2,0	M14
N8671M16X2,0	M16

THREAD INSERTS REPAIR KITS MULTIDIMENSION

ITEM: N8690

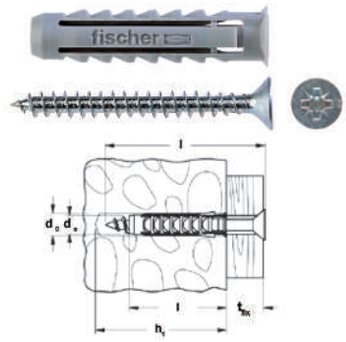
Thread Inserts repair kits multidimension studied to satisfy the needs of the technicians of the maintenance, pratical and functional.



Composition of the kit:
- 2 setting tools respectively for M6-M8 and M10-M12 threads
- 4 finishing taps for M6-M8-M10-M12 threads
- 3 thread cutters M6-M8-M10-M12
- 4 M6-M8-M10-M12 drill bits
- Threads 10/15/20 1.5D

Tech. Code	For threads
N8690KITMULTI	M6 - M8 - M10 - M12

NYLON ANCHOR SX MODEL, WITH RIM AND SCREW



ITEM: SX-S

The 4-way expansion provides the optimum force distribution in the material, and offers high load-bearing capacities in solid and hollow building materials.
The expansion-free plug neck prevents the creation of expansion forces on the material surface whilst screwing in the screw. This helps to prevent damage to tiles and plaster.
The pronounced rim prevents the plug from slipping into the drill hole, thus allowing for a simple installation.
The greater anchorage depth of the SX means that the plug is especially suited to fixings in hollow building materials, aerated concrete and to bridge plaster

Building materials
Concrete, vertically perforated brick, hollow block made from lightweight concrete, cavity floor slabs made of brick, concrete, perforated sand-lime brick, solid sand-lime brick, natural stone with dense structure, aerated concrete, solid panel made from gypsum, solid brick made from lightweight concrete, solid brick.

The price shown refers to a pack of 100 pieces

Tech. Code	Supplier code	d_0 mm	h1 mm	l mm	t fix mm	Screw = ds x l mm
N820505	SX5x25S	5	35	25	5	4,0 x 30
N820506	SX6x30S	6	40	30	10	4,5 x 40
N820508	SX8x40S	8	50	40	10	5,0 x 50
N820510	SX10x50S	10	70	50	-	6,0 x 60

UNIVERSAL PLUG FU WITH RIM AND SCREW





ITEM: FU

The universal fixing FU is suitable for through and non-through installations.
In solid building materials the screwing results in a complete expansion of the fastener against the hole wall, in perforated building materials the fastener body expands by undercutting into the cavity.

Building materials
Concrete, gypsum plasterboard and gypsum fibre boards, vertically perforated brick, hollow block made from lightweight concrete, cavity floor slabs made of brick, concrete, perforated sand-lime brick, solid sand-lime brick, aerated concrete.

The price shown refers to a pack of 100 pieces

Tech. Code	Supplier code	d_0 mm	h1 mm	l mm	Screw = ds x l mm	t fix mm
N82070635	FU6x35V	6	45	35	3,5 x 45	10
N82070645	FU6x45V	6	55	45	3,5 x 55	10
N820708	FU8x50V	8	60	50	4,5 x 60	10
N820710	FU10x60V	10	70	60	6,0 x 80	20

BRASS FIXING PO



ITEM: PO

Dowel with knurled body for excellent adhesion to hole walls, shallow installation depth, simple for light installations and air ducts, metric thread, threaded rods, screws and all threaded accessories can be fitted.

Building materials
Concrete and natural stone with dense structure.

Tech. Code	Supplier code	d_0 mm	h1 mm	l mm	M	S mm
N821006	PO M 6	8	30	24	M 6	24
N821008	PO M 8	10	40	30	M 8	30
N821010	PO M 10	12	45	35	M 10	35
N821012	PO M 12	15	50	40	M 12	40

HEAVY-DUTY ANCHOR TA M-S MODEL WITH TE SCREW



ITEM: TA M-S

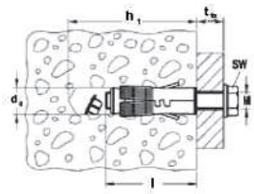
The optimized geometry minimise setting energy and allows for use in extremely narrow spaces. This allows for user-friendly installation.
The three-part expansion sleeve creates even load distribution, thus allowing small edge and axial spacing. Thus the TA M is extremely flexible.
The metric internal thread allows to use standard screws or threaded rods for the ideal adaptation to suit the intended use. The red plastic cap protects against soiling and thus ensures free-running of the thread. Versions zinc-plated steel.

Building materials
Approved for concrete C20/25 to C50/60, noncracked, also suitable for concrete C12/15 natural stone with dense structure.

Tech. Code	Supplier code	d_0 mm	h1 mm	l mm	t fix mm	Screw = d0 x l mm
N821516	TA M6 S	10	65	49	10	M 6 x 60
N821508	TA M8 S	12	70	56	10	M 8 x 65
N821510	TA M10 S	15	90	69	20	M 10 x 90
N821512	TA M12 S	18	105	86	25	M 12 x 110

HEAVY-DUTY ANCHOR SLM WITH SCREW TE 8.8





ITEM: SLM

The optimized geometry minimizes setting energy and allows for use in extremely narrow spaces. This allows for user-friendly installation.
The three-part expansion sleeve creates even load distribution, thus allowing small edge and axial spacing.
Thus the SLM is extremely flexible.
The metric internal thread allows to use standard screws or threaded rods for the ideal adaptation to suit the intended use.
The red plastic cap protects against soiling and thus ensures free-running of the thread.

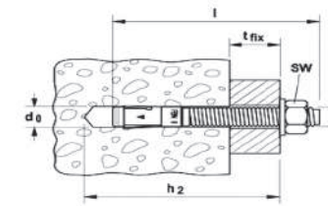
Zinc version with TE screw in steel 8.8.

Building materials
Approved for, concrete C20/25 to C50/60, non-cracked.
Also suitable for, concrete C12/15 natural stone with dense structure.

Tech. Code	Supplier code	d_0 mm	h1 mm	l mm	t fix mm	Screw = d0 x l mm
N822006	SL M 6 S screw TE	12	60	45	10	M 6 x 50
N822008	SL M 8 S screw TE	14	65	50	10	M 8 x 60
N822010	SL M 10 S screw TE	16	80	60	20	M 10 x 80
N822012	SL M 12 S screw TE	20	95	75	20	M 12 x 90

BOLT ANCHOR ZINC-PLATED STEEL





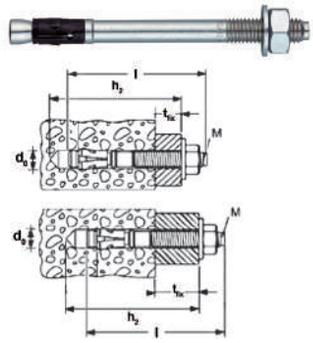
ITEM: FBN II

The standard anchorage depth achieves the maximum load-bearing capacities. Thus fewer fixing points and smaller anchor plates are required.
The reduced anchorage depth reduces the drill hole depth. This minimizes the amount of time needed for installation whilst increasing flexibility.
The long thread balances component tolerances and allows for stand-off installations, thus increasing flexibility.
Few hammer blows and the minimal torque slippage allow for a noticeably simpler installation. The drive-in pin protects the thread from damage, and thus ensures a faster installation and dismantling of the attachment.

Building materials
Approved for concrete C20/25 to C50/60, non cracked
Also suitable for concrete C12/15 and natural stone with dense structure

Tech. Code	Supplier code	d_0 mm	h2 mm	l mm	t fix mm	M Ø x mm
N822508005	FBN II 8/5	8	61	66	5/15	M 8 x 34
N822508010	FBN II 8/10	8	66	71	10/20	M 8 x 39
N822508020	FBN II 8/20	8	76	81	20/30	M 8 x 49
N822508030	FBN II 8/30	8	86	91	30/40	M 8 x 59
N822508050	FBN II 8/50	8	106	111	50/60	M 8 x 79
N822510010	FBN II 10/10	10	78	86	10/20	M 10 x 46
N822510020	FBN II 10/20	10	88	96	20/30	M 10 x 56
N822510030	FBN II 10/30	10	98	106	30/40	M 10 x 66
N822510050	FBN II 10/50	10	118	126	50/60	M 10 x 86
N822510070	FBN II 10/70	10	138	146	70/80	M 10 x 106
N822510100	FBN II 10/100	10	168	176	100/110	M 10 x 136
N822512010	FBN II 12/10	12	95	106	10/25	M 12 x 59
N822512020	FBN II 12/20	12	105	116	20/35	M 12 x 69
N822512030	FBN II 12/30	12	115	126	30/45	M 12 x 79
N822512050	FBN II 12/50	12	135	146	50/65	M 12 x 99
N822516025	FBN II 16/25	16	129	145	25/40	M 16 x 89
N822516050	FBN II 16/50	16	154	170	50/65	M 16 x 105
N822516080	FBN II 16/80	16	184	200	80/95	M 16 x 144
N822516100	FBN II 16/100	16	204	220	110/115	M 16 x 164
N822520030	FBN II 20/30	20	165	187	30/55	M 20 x 90
N822520060	FBN II 20/60	20	195	217	60/85	M 20 x 90
N822520080	FBN II 20/80	20	215	237	80/105	M 20 x 90

BOLT ANCHOR FAZ II MODEL



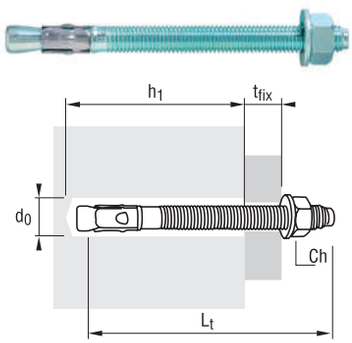
ITEM: FAZ II

The FAZ II tried and tested expansion clip enables the highest load bearing capacity. Thus fewer fixing points and smaller anchor plates are required.
The reduced anchorage depth allows for significantly reduced drill hole depths and reduces the number of reinforcement hits. This allows for a noticeably quicker installation.
Fewer hammer blows when hammering in the anchor, together with the low torque slippage, ensure a noticeably simple and comfortable setting process.
The international approvals guarantee maximum safety and the best performance. These approvals even cover use in earthquake zones (sismic).

Building materials
Approved for concrete C20/25 to C50/60, cracked. Concrete C20/25 to C50/60, non-cracked. Also suitable for concrete C12/15, natural stone with dense structure.

Tech. Code	Supplier code	d_0 mm	h2 (*) mm	l mm	t fix mm	Threading mm
N823008010	FAZ II 8/10 (1)	8	65	75	10/-	M 8 x 38
N823008050	FAZ II 8/50 (1)	8	105	115	50/-	M 8 x 78
N823010010	FAZ II 10/10 (1)	10	85	95	10/30	M 10 x 53
N823010050	FAZ II 10/50 (1)	10	125	135	50/70	M 10 x 93
N823012010	FAZ II 12/10 (1)	12	100	110	10/30	M 12 x 61
N823012020	FAZ II 12/20 (1)	12	110	120	20/40	M 12 x 71
N823012050	FAZ II 12/50 (1)	12	140	150	50/70	M 12 x 101
N823016025	FAZ II 16/25 (1)	16	135	148	25/45	M 16 x 84
N823016050	FAZ II 16/50 (1)	16	160	173	50/70	M 16 x 109
N823016100	FAZ II 16/100 (1)	16	210	223	100/120	M 16 x 159

BOLT ANCHOR ZINC-PLATED STEEL FOR NON-CRACKED CONCRETE MOD. VE.A



ITEM: VE.A

Mechanical anchors in galvanized steel with metal clamp and expansion cone. Extra-long thread ideal for all type of carpentry, plant and building applications.

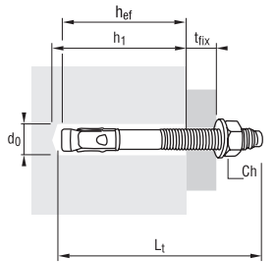
- Features:
- Thread diameter equal to drilling diameter
- Reinforced head to avoid damaging the thread during installation
- Special shape expansion bush to make the expansion soft and progressive
- It guarantees high load values and rapid installation even without moving the object to be fixed

Support materials
Recommended for non-cracked concrete with strength class C20/25

Tech. Code	Article	d_0 mm	Lt mm	t fix max mm	h_1 mm	Ch mm
N822308075	VA.A 8/15-75	8	75	15	55	13
N822308090	VE.A 8/25-90	8	90	25	55	13
N822310080	VE.A 10/10-80	10	80	10	60	17
N822310100	VE.A 10/30-100	10	100	30	60	17
N822310120	VE.A 10/50-120	10	120	50	60	17
N822310140	VE.A 10/70-140	10	140	70	60	17
N822312090	VE.A 12/15-90	12	90	15	65	19
N822312110	VE.A 12/20-110	12	110	20	80	19
N822312145	VE.A 12/50-145	12	145	50	85	19
N822316145	VE.A 16/30-145	16	145	30	100	24
N822316175	VE.A 16/60-175	16	175	60	100	24
N822320170	VE.A 20/30-170	20	170	30	120	30

BOLT ANCHOR ZINC-PLATED STEEL FOR NON-CRACKED CONCRETE MOD. VE.7CE





ITEM: VE.7CE

Mechanical anchors in galvanized steel with metal clamp and expansion cone **ETA-certified option 7** for non-cracked concrete C20 / 25 - C50 / 60. Suitable for anchoring in heavy carpentry, plant engineering, construction, laying of stairs and railings.

Features:
- European technical approvement
- Thread diameter equal to drilling diameter
- Head reinforced to avoid damaging the thread during installation
- Special shape expansion bush to make the expansion soft and progressive
- Ensures high load values and rapid installation even without moving the object to be fixed

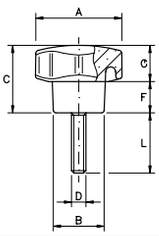
Support materials
Approved for non-cracked concrete with strength class from C20/25 to C50/60.
Also suitable for non-cracked concrete with strength class C12/15 and compact natural stone.

Tech. Code	Article	d_0 mm	Lt mm	t fix max mm	h_1 mm	Ch mm
N822708080	VE.7CE 8/15-80	8	80	15	45	13
N822708095	VE.7CE 8/30-95	8	90	30	45	13
N822710075	VE.7CE 10/1-75	10	75	1	51	17
N822710090	VE.7CE 10/15-90	10	90	15	51	17
N822710105	VE.7CE 10/25-105	10	105	25	51	17
N822710120	VE.7CE 10/45-120	10	120	45	51	17
N822712110	VE.7CE 12/15-110	12	110	15	66	19
N822712120	VE.7CE 12/25-120	12	120	25	66	19
N822712140	VE.7CE 12/45-140	12	140	45	66	19
N822712200	VE.7CE 12/105-200	12	200	105	66	19
N822716150	VE.7CE 16/30-150	16	150	30	80	24
N822716175	VE.7CE 16/55-175	16	175	55	80	24
N822716220	VE.7CE 16/100-220	16	220	100	80	24

LOBE KNOBS 6 LOBES IN DUROPLAST - MALE THREAD

ITEM: N8701

Lobe knobs in duroplast, black colour with glossy finish. Resistant to solvents, oils and greases, zinc plated steel stud.



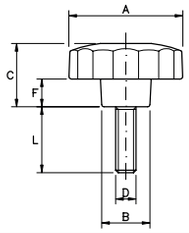


Tech. Code	A mm	D mm	L mm	B mm	C mm	F mm	G mm	Weight g
N8701200520	20	M5	20	13	15	7	8	8
N8701300610	30	M6	10	17	24	11	13	16
N8701300615	30	M6	15	17	24	11	13	18
N8701300620	30	M6	20	17	24	11	13	20
N8701300630	30	M6	30	17	24	11	13	22
N8701300640	30	M6	40	17	24	11	13	24
N8701300815	30	M8	15	17	24	11	13	23
N8701300820	30	M8	20	17	24	11	13	25
N8701300825	30	M8	25	17	24	11	13	26
N8701300830	30	M8	30	17	24	11	13	27
N8701400815	40	M8	15	21	28	13	15	36
N8701400825	40	M8	25	21	28	13	15	39
N8701400830	40	M8	30	21	28	13	15	40
N8701400840	40	M8	40	21	28	13	15	44
N8701400850	40	M8	50	21	28	13	15	46
N8701401030	40	M10	30	21	28	13	15	50
N8701401050	40	M10	50	21	28	13	15	60
N8701500830	50	M8	30	25	33	15	18	56
N8701500840	50	M8	40	25	33	15	18	60
N8701501030	50	M10	30	25	33	15	18	65
N8701501040	50	M10	40	25	33	15	18	70
N8701601220	60	M12	20	28	35	15	20	101
N8701601230	60	M12	30	28	35	15	20	107

LOBE KNOBS 8 LOBES IN TECHNOPOLYMER - MALE THREAD

ITEM: N8704

Lobe knobs in technopolymer black in colour with matt finish, zinc plated steel stud.



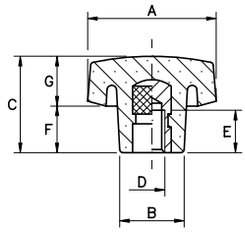


Tech. Code	A mm	D mm	L mm	B mm	C mm	F mm	G mm	Weight g
N8704250510	25	M5	10	13	17	8	9	7
N8704250515	25	M5	15	13	17	8	9	8
N8704250615	25	M6	15	13	17	8	9	10
N8704250620	25	M6	20	13	17	8	9	11
N8704350820	35	M8	20	18	20	8	12	26
N8704451030	45	M10	30	22	26	12	14	51

LOBE KNOBS 6 LOBES IN DUROPLAST - FEMALE THREAD

ITEM: N8711

Lobe knobs in duroplast black in colour with glossy finish. Resistant to solvents, oils and greases, brass bush with threaded blind hole.



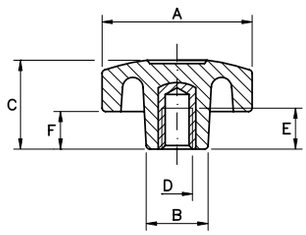


Tech. Code	A mm	D mm	B mm	C mm	E mm	F mm	G mm	Weight g
N87113005	30	M5	17	24	9	11	13	14
N87113006	30	M6	17	24	9	11	13	15
N87114006	40	M6	21	28	13	13	15	26
N87114008	40	M8	21	28	15	13	15	30
N87115008	50	M8	25	33	15	15	18	48
N87115010	50	M10	25	33	16	15	18	49
N87116008	60	M8	28	35	16	15	20	67
N87116010	60	M10	28	35	16	15	20	68
N87116012	60	M12	28	35	18	15	20	70

LOBE KNOBS 8 LOBES IN TECHNOPOLYMER - FEMALE THREAD

ITEM: N8714

Lobe knobs in technopolymer black colour with matt finish, brass bush with threaded blind hole.



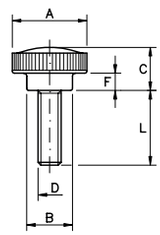


Tech. Code	A mm	D mm	B mm	C mm	E mm	F mm	G mm	Weight g
N87142505	25	M5	13	17	9	8	9	7
N87143506	35	M6	18	20	13	8	12	16
N87143508	35	M8	18	20	13	8	12	17
N87144510	45	M10	22	26	13	12	14	29

KNURLED LOBE KNOBS IN TECHNOPOLYMER - ZINC PLATED STUD

ITEM: N8718

Lobe knobs in technopolymer colour black with matt finish, zinc plated steel stud.



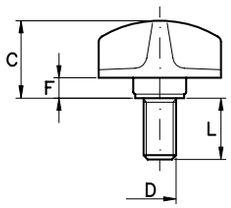


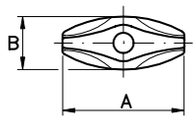
Tech. Code	A mm	D mm	L mm	B mm	C mm	F mm	Weight g
N8718220510	22	M5	10	15	14	6	7

WING NUTS IN TECHNOPOLYMER - ZINC PLATED STUD

ITEM: N8719

Wing nuts in technopolymer black colour with matt finish, zinc plated steel stud.





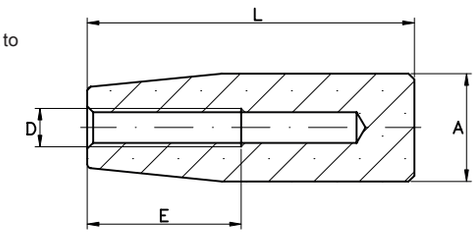


Tech. Code	A mm	D mm	L mm	B mm	C mm	F mm	Weight g
N87190420	30	M4	20	13	19	5	5,4
N87190640	30	M6	40	13	19	5	12,2

CYLINDRICAL HANDLES FIXED IN DUROPLAST - FEMALE THREAD

ITEM: N8722

Cylindrical handles in duroplast black colour with glossy finish, resistant to solvents, oils and greases, threaded blind hole.



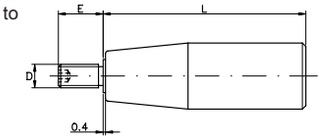


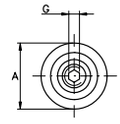
Tech. Code	A mm	L mm	D mm	E mm	Weight g
N872205008	21	50	M8	25	19
N872206510	25	65	M10	30	35
N872211508	29	115	M8	40	88
N872211510	29	115	M10	40	87
N872211512	29	115	M12	40	86

CYLINDRICAL REVOLVING HANDLES IN DUROPLAST - MALE THREAD

ITEM: N8731

Cylindrical handles duroplast black colour with glossy finish. Resistant to oils and greases, zinc plated steel stud with hexagon socket built to facilitate the locking process.





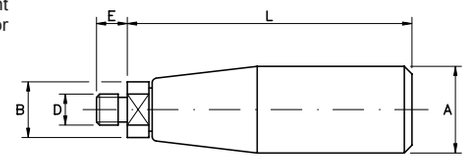


Tech. Code	A mm	L mm	D mm	E mm	G mm	Weight g
N87314006	17	40	M6	13	3	26
N87316508	25	65	M8	15	4	73
N87318510	28	85	M10	17	5	110

CYLINDRICAL REVOLVING HANDLES IN DUROPLAST - MALE THREAD

ITEM: N8732

Cylindrical handles in duroplast black colour with glossy finish. Resistant to solvents, oils and greases, zinc plated steel studs with provision for locking through the use of spanners.



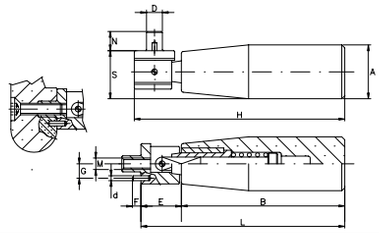


Tech. Code	A mm	L mm	D mm	E mm	B mm	Weight g
N87324008	17	45	M8	8	12	22
N87325508	23	61	M8	10	16	55
N87326510	25	71	M10	13	18	88
N87328510	28	92	M10	13	20	122

HANDLES IN TECHNOPOLYMER REVOLVING AND FLIPPABLE

ITEM: N8734

Cylindrical handles in duroplast black colour with glossy finish. Resistant to solvents, oils and greases, zinc plated steel stud with provision for locking through the spanners.



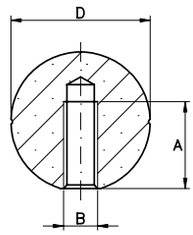


Tech. Code	A mm	B mm	S mm	D mm	N mm	M mm	d mm	G mm	F mm	E mm	H mm	L mm	Weight g
N87346506	25	65	21	8	8	M6	2,5	7,5	4	17	86	82	85
N87348506	28	85	24	8	10	M6	2,5	7,5	4	20	108	105	132

KNOB HANDLES IN DUROPLAST - FEMALE THREAD

ITEM: N8746

Knob handles with a central groove in duroplast black colour with glossy finish. Resistant to solvents, oils and greases, threaded blind hole.



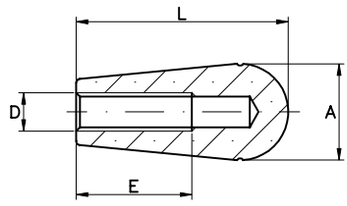


Tech. Code	D mm	B mm	A mm	Weight g
N87462506	25	M6	17	11
N87463206	32	M6	20	23
N87463208	32	M8	20	22
N87464108	41	M8	20	48
N87464110	41	M10	20	46
N87464710	47	M10	23	70
N87464716	47	M16	23	65
N87466010	60	M10	25	153

FIXED HANDLES IN DUROPLAST - FEMALE THREAD

ITEM: N8751

Conical handles with ends rounded in duroplast black colour with glossy finish. Resistant to solvents, oils and greases, threaded blind hole.



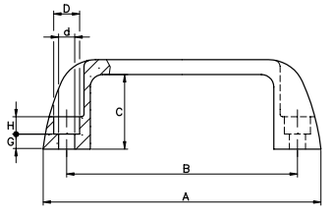


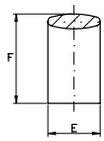
Tech. Code	A mm	L mm	D mm	E mm	Weight g
N87514006	22	40	M6	25	18
N87514008	22	40	M8	25	17

HANDLES IN TECHNOPOLYMER - THROUGH HOLE

ITEM: N8756

Handles technopolymer black colour re-enforced with glass fibres, matt finish, through hole for fixing with screws TCEI UNI5931 M8.





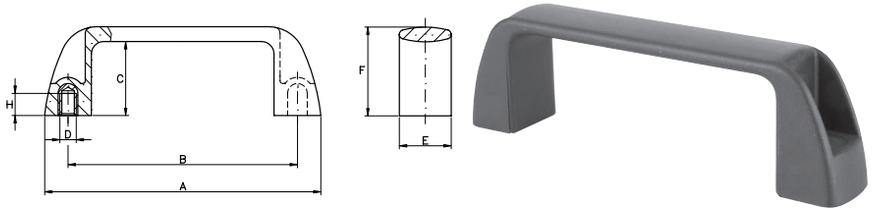


Tech. Code	B mm	A mm	E mm	F mm	C mm	G mm	H mm	D mm	d mm	Weight g
N875611785	117	139	26	41	34	6	9	13	8,5	40

HANDLES IN TECHNOPOLYMER - THREADED BLIND HOLE

ITEM: N8757

Handles in technopolymeer black colour re-enforced with glass fibers, matt finish, brass bush with threaded blind hole.

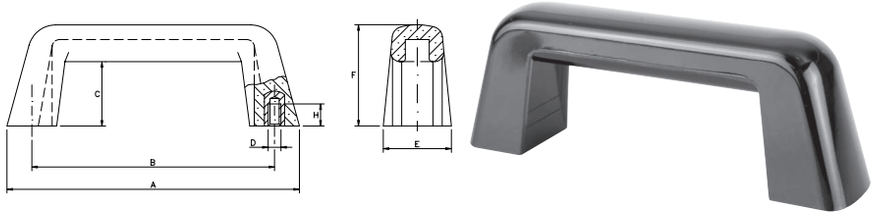


Tech. Code	B mm	A mm	E mm	F mm	C mm	H mm	D mm	Weight g
N875709306	93,5	112	21	36	30	9	M6	33
N875711808	117	139	26	41	34	9	M8	49
N875713208	132	156	27	45	37	9	M8	64
N875717908	179	204	28	50	42	9	M8	82

HANDLES IN DUROPLAST - THREADED BLIND HOLE

ITEM: N8758

Handles in duroplast black colour with glossy finish. Resistant to solvents, oils and greases, brass bush with threaded blind hole.

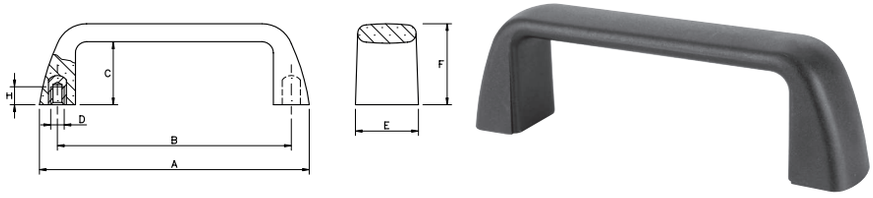


Tech. Code	B mm	A mm	C mm	E mm	F mm	H mm	D mm	Weight g
N875811708	117	140	30	30	48	15	M8	125

HANDLES IN TECHNOPOLYMER - THREADED BLIND HOLE

ITEM: N8759

Handles in technopolymer black colour, brass bush with threaded blind hole.

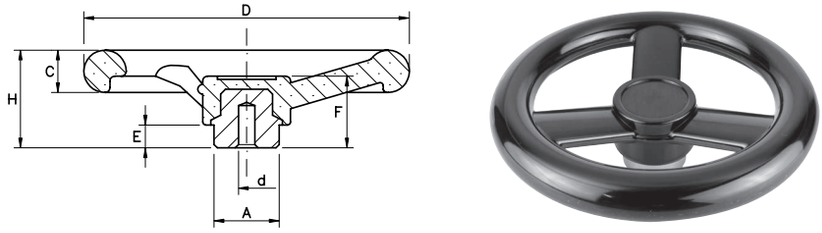


Tech. Code	B mm	A mm	E mm	F mm	C mm	H mm	D mm	Weight g
N875911708	117	133	26	40	32	9	M8	61

SPOKED HANDWHEELS IN RE-ENFORCED DUROPLAST

ITEM: N8761

Black re-enforced highly resistant duroplast body with glossy finish. Resistant to solvents, oils and greases, protruding hub zinc plated with blind hole which can be expanded to the measurement required.

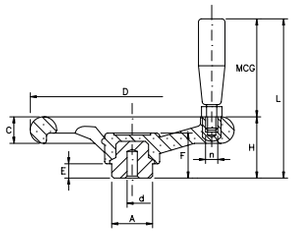


Tech. Code	D mm	H mm	A mm	d mm	F mm	E mm	C mm	Weight g
N8761100	100	40	24	4	34	11	15	162
N8761125	125	46	24	6	37	13	17	260
N8761150	150	49	32	6	38	13	20	385
N8761175	175	56	40	6	42	16	22	611
N8761200	200	61	40	6	45	16	24	761
N8761250	250	72	48	8	50	17	28	1210
N8761300	300	78	58	8	56	18	34	2015

SPOKED HANDWHEELS IN RE-ENFORCED DUROPLAST WITH HANDLE

ITEM: N8771

Black re-enforced highly resistant body with glossy finish. Resistant to solvents, oils and greases, protruding hub zinc plated with blind hole which can be expanded to the measurement required. Revolving handle made of steel stud.



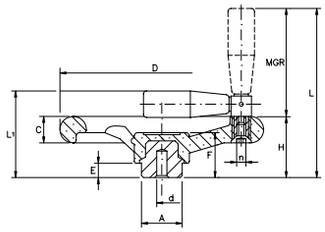


Tech. Code	D mm	H mm	L mm	C mm	A mm	d mm	E mm	F mm	n mm	Weight g	Handles spare part
N8771100	100	40	85	15	24	4	11	34	M8	191	N87324008
N8771125	125	46	107	17	24	6	13	37	M8	309	N87325508
N8771150	150	49	120	20	32	6	13	38	M10	484	N87326510
N8771175	175	56	127	22	40	6	16	42	M10	694	N87326510
N8771200	200	61	153	24	40	6	16	45	M10	897	N87328510
N8771250	250	72	164	28	48	8	17	50	M10	1367	N87328510
N8771300	300	78	170	34	58	8	18	56	M10	2130	N87328510

SPOKED HANDWHEELS IN RE-ENFORCED DUROPLAST WITH HANDLE

ITEM: N8772

Black re-enforced highly resistant body with glossy finish. Resistant to solvents, oils and greases, protruding hub zinc plated with blind hole which can be expanded to the measurement required. Handle rotatable and foldable for reduced dimensions and operators safety.



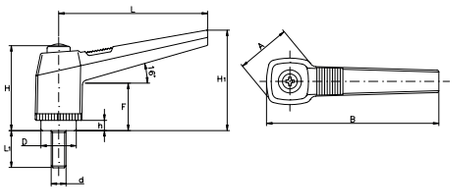


Tech. Code	D mm	H mm	L mm	L1 mm	C mm	A mm	d mm	E mm	F mm	n mm	Weight g	Handles spare part
N8772150	150	49	131	70	20	32	6	13	38	M6	490	N87346506
N8772175	175	56	138	77	22	40	6	16	42	M6	700	N87346506
N8772200	200	61	166	85	24	40	6	16	45	M6	912	N87348506
N8772250	250	72	177	96	28	48	8	17	50	M6	1380	N87348506
N8772300	300	78	183	102	34	58	8	18	56	M6	2142	N87348506

CLAMP LEVERS - MALE THREAD

ITEM: N8781

Clamp levers in technopolymer in fiber glass, black colour with matt finish, male thread zinc plated.



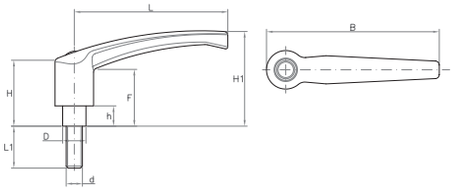


Tech. Code	L mm	d	L1 mm	H mm	A mm	B mm	H1 mm	F mm	D mm	h mm	Weight g
N8781420520	42	M5	20	29	19	50	32	17	12	3	13
N8781420615	42	M6	15	29	19	50	32	17	12	3	14
N8781420620	42	M6	20	29	19	50	32	17	12	3	15
N8781420630	42	M6	30	29	19	50	32	17	12	3	16
N8781630620	63	M6	20	39	25	73	43	21	15	4	28
N8781630630	63	M6	30	39	25	73	43	21	15	4	30
N8781630640	63	M6	40	39	25	73	43	21	15	4	31
N8781630820	63	M8	20	39	25	73	43	21	15	4	33
N8781630825	63	M8	25	39	25	73	43	21	15	4	34
N8781630830	63	M8	30	39	25	73	43	21	15	4	36
N8781630840	63	M8	40	39	25	73	43	21	15	4	38
N8781630850	63	M8	50	39	25	73	43	21	15	4	39
N8781801030	80	M10	30	48	30	92	54	27	19	6	61
N8781801040	80	M10	40	48	30	92	54	27	19	6	66
N8781801050	80	M10	50	48	30	92	54	27	19	6	71
N8781801060	80	M10	60	48	30	92	54	27	19	6	78
N8781801250	80	M12	50	48	30	92	54	27	19	6	95
N87811001250	100	M12	50	58	36	115	66	30	25	8	126
N87811001260	100	M12	60	58	36	115	66	30	25	8	138

METAL CLAMP LEVERS - MALE THREAD

ITEM: N8783

Clamp levers with zinc alloy lever painted orange with toothed threaded body in burnish steel, male thread in burnish steel.



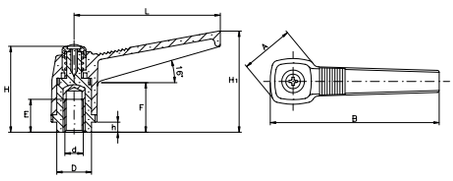


Tech. Code	L mm	d	L1 mm	D mm	H1 mm	H mm	h mm	F mm	B mm	Weight g
N8783440530	44	M5	30	9,5	36	23	5	21	52	40
N8783440620	44	M6	20	9,5	36	23	5	21	52	40
N8783440630	44	M6	30	9,5	36	23	5	21	52	41
N8783650630	65	M6	30	11,5	47	33	10	28	75	80
N8783650830	65	M8	30	11,5	47	33	10	28	75	84
N8783650840	65	M8	40	11,5	47	33	10	28	75	87
N8783801040	80	M10	40	19	62	41	12	37	94	198
N8783801050	80	M10	50	19	62	41	12	37	94	204
N8783941250	94	M12	50	23	67	48	12	44	109	298

LEVER CLAMPS - FEMALE THREAD

ITEM: N8785

Lever clamp in technopolymer re-enforced with fiber glass black colour with matt finish, brass bush with threaded blind hole.



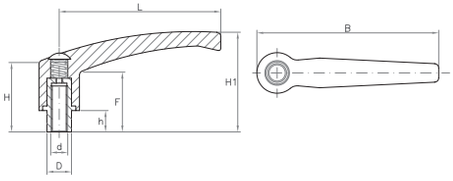


Tech. Code	L mm	d	H mm	A mm	B mm	H1 mm	F mm	D mm	h mm	E mm	Weight g
N87854206	42	M6	29	19	50	32	17	12	3	9	11
N87856306	63	M6	39	25	73	43	21	15	4	13	23
N87856308	63	M8	39	25	73	43	21	15	4	13	24
N87858010	80	M10	48	30	92	54	27	19	6	16	44
N878510012	100	M12	58	36	115	66	30	25	8	18	83

LEVER HANDLE IN METAL - FEMALE THREAD

ITEM: N8787

Lever handle with zinc alloy lever painted orange, toothed threaded body in burnished steel, female thread.



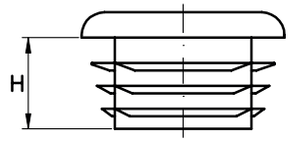


Tech. Code	L mm	d	E mm	D mm	H1 mm	H mm	h mm	F mm	B mm	Weight g
N87874406	44	M6	8	9,5	36	23	5	21	52	34
N87876508	65	M8	11	11,5	47	33	10	28	75	70
N87878010	80	M10	18	19	62	41	12	37	94	167
N87878012	80	M12	18	19	62	41	12	37	94	161

HOLE COVER PLUGS SQUARE SHAPE IN BLACK POLYETHYLENE

ITEM: N8850

Hole cover plugs in black polyethylene with a thin layer, model for square tubes. Other dimensions supplied on request minimum package 100 pieces.





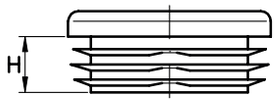
Tech. Code	External dimension of the tube mm	Thickness of the tube mm	H mm
N88500201	20 x 20	1 - 3	11
N88500301	30 x 30	1 - 2,5	11,5
N88500401	40 x 40	1 - 3	14

Price for 100 pieces

HOLE COVER PLUGS - ROUND SHAPE IN BLACK POLYETHYLENE

ITEM: N8855

Hole cover plugs in black polythylene with a thin layer, model for round tubes. Other dimensions supplied on request. Minimum package of 100 pieces.





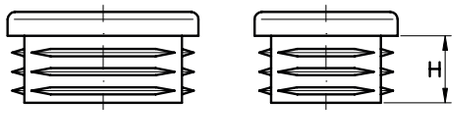
Tech. Code	External diameter of the tube mm	Thickness of the tube mm	H mm
N88550201	20	1 - 2	11,4
N88550221	22	1 - 2	11,5
N88550231	23	1 - 2,5	11,5
N88550251	25	1 - 3	11,5
N88550301	30	1 - 2	11,6

Price for 100 pieces

HOLE COVER PLUGS RECTANGULAR SHAPE IN BLACK POLYETHYLENE

ITEM: N8860

Hole cover plugs in black polyethylene with a thin layer, model for rectangular tubes. Other dimensions supplied on request. Minimum package of 100 pieces.





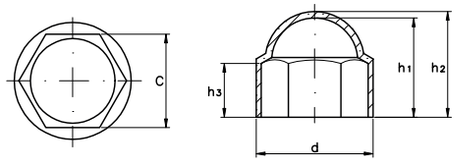
Tech. Code	External dimension of the tube mm	Thickness of the tube mm	H mm
N88600400201	40 x 20	1 - 2	12
N88600400251	40 x 25	1 - 3	11,5
N886005002515	50 x 25	1,5 - 2,5	14,5

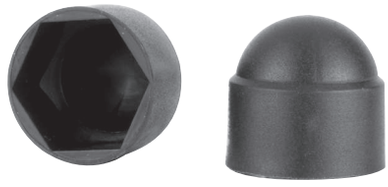
Price for 100 pieces

NUT COVERS IN BLACK POLYETHYLENE

ITEM: N8870

Nut covers with a hemispherical cap in black polyethylene. Other dimensions supplied on request. Package of 1000 pieces.





Tech. Code	Exagonal mm	For nut	C mm	d mm	h1 mm	h2 mm	h3 mm
N887013	13	M8	12,8	16,8	14	15	9
N887017	17	M10	16,7	21,3	18,5	19,5	9

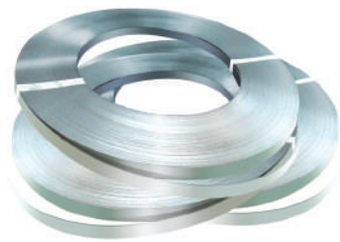
Price for 100 pieces

POLISHED IRON STRAPS

ITEM: N9100

Breaking load 70/75 Kg/mm², rounded edges, oiled surface, individually wrapped roll.

Tech. Code	Dimensions mm	Rolls in package	Package weight ab. kg
N91001332	13 x 0,5	2	32
N91001640	16 x 0,5	2	40
N91001924	19 x 0,6	1	24

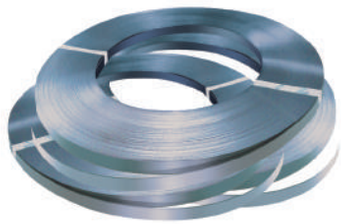


HIGH-RESISTANCE BLUE IRON STRAPS

ITEM: N9115

Breaking load 80/85 Kg/mm², rounded edges, waxed surface.

Tech. Code	Dimensions mm	Roll weight ba. kg
N91151624	16 x 0,5	24
N91151927	19 x 0,6	27



METAL SECURITY SEALS

ITEM: N9131

Security seals in metal. Used with strapping tools N9200.

Tech. Code	Dimension mm	Strap mm	Box pcs
N913113	13 x 27	13	2000
N913116	16 x 27	16	2000
N913120	20 x 27	19/20	2000



SHEARS FOR METALLIC STRAPS

WODEX

ITEM: WX3960

Shears **PREMIUM QUALITY** in hot forged steel for cutting metal straps.
Comfortable and resistant PVC coated handles.

Tech. Code	L mm	Blade mm	Max. capacity mm	Weight g
N9137250	250	32	25 x 0.6	410



ITEM: WX3965

Tech. Code	L mm	Blade mm	Max. capacity mm	Weight g
N9138270	270	30	25 x 0.6	425



SHEARS FOR CUTTING METAL STRAPS

ITEM: HIT JAPAN SS-450

Heavy Duty shears specially produced in special steel, allow cutting of any type of metal strap with minimum effort. Non-slip rubber handle.

Tech. Code	Length mm	Blade mm	Max capacity mm	Weight g
N953851	450	55	51 x 1,2	1400



PLASTIC STRAPS IN POLYROPYLENE PP BLACK KNURLED

ITEM: N9142

Plastic straps in polyropylene isostatic PP. Its econimical and practical features of usage makes it an ideal packaging solution for most varied sectors of the packaging industry, 100% re-cyclable. Used with manual strapping tools. Electrical, pneumatic and battery. Closure by metal seals or thermo-welding.

- Specific weight: 0,91 g/cm3
- Resistance: 28 - 32 kg/mm²
- Elongation: 15 - 35%
- Temperature process usage: da -40° a +100°C
- Tolerance on listed data: +/- 5%

Tech. Code		N914212080	N914215060	N914215080
Dimension	mm	12 x 0,80	15 x 0,60	15 x 0,80
Ø External	mm	560	560	560
Width	mm	160	160	160
Roll hole	mm	400	400	400
Breaking load	kg	230	218	299
Coil	m	2000	2000	1500

Price displayed per reel.



SEALS FOR PLASTIC STRAPS IN POLYROPYLENE

ITEM: N9159

In tooled galvanized finish.

Tech. Code	Dimension mm	Strap mm	Box pcs
N915913	13 x 26	12	2000
N915916	16 x 26	15	2000



HEAT SEALABLE PLASTIC STRAPS IN POLYROYLENE PET GREEN KNURLED

ITEM: N9180



Plastic straps with an high durability of strength and a percentage of elongation, recommended as a valid alternative to steel strapping unalterable in conditions of temperature changes and insensitive to ultraviolet rays. Used for manual tensioning devices, electric, battery, pneumatic and automatic strapping systems.
100% recyclable

- Specif weight: 1,38 g/cm3
- Breaking load point: 40 - 50 Kg/mm²
- Elongation: 10 - 15%
- Temperture process usage: da -20° a +120°C
- Tolerance on listed data +/- 5%

Tech. Code	Dimension mm	Ø External mm	Width mm	Roll hole mm	Breaking load kg	Coil m
N918015060	15 x 0,60	570	160	405	310	2000
N918015080	15 x 0,80	570	160	405	430	1500
N918016088	16 x 0,88	570	160	405	520	1220
N918019100	19 x 1,00	570	160	405	800	1000

Price displayed per reel.

COMPOSITE POLYESTER STRAPS

ITEM: N9285



Polyester straps, fiber twisted threads protected by a special resin coating, high tenacity. Thanks to the compact structure it easily slips under pallets and the inside of container hooks. It has a good resistance to being cut by sharp edges and does not need the use of protected corners. It retains it shape and tension even in extreme enviorment conditions, shock absorbent during transport, resistant to chemical agents, UV light, waterproof. It does not rust or rot with humidity. The temperture of use ranges from -40 to +100°C. It can perfectly adapt to the shape of the load without damaging or scratching the surfaces.

No danger to the operator when removing or fixing, you only need a pair of scissors. The straps are made of threaded polyester with steel wire hooks. Suitable for fixing loads in containers, on trucks and vans.

Accepted by all European State railways (BN 918 090).

Tech. Code		N928516	N928519	N928525	N928532
Dimension	mm	16	19	25	32
Ø External	mm	400	400	400	400
Width	mm	190	190	190	190
Roll hole	mm	200	200	200	200
Breaking load	kg	425	625	925	1500
CRNF	kg	690	1000	1480	2400
Coil	m	850	500	450	300

CRNF = Breaking load of strap + hook

STRAPPING TEXTILES COATED WITH HOT MELT IN POLYESTER

ITEM: N9284



Thanks to their elongation charateristics the polyester strapping has an high capacity of resistance and shock absorption, suitable for the fixing of heavy loads like (timber, glass, marble, machinery, full loads on rails, trucks etc.) The polyester threads are held together by a special hot melt adhesive that increases the resistance to the abrasion but does not compromise the flexibility of handling. In case of loads of sharp edges, the use of protective corners is recommended.

Tech. Code		N928413	N928416	N928419
Dimension	mm	13	16	19
Ø External	mm	290	290	290
Width	mm	140	140	140
Roll hole	mm	76	76	76
Breaking load	kg	400	475	570
CRNF	kg	570	650	800
Coil	m	500	850	600

CRNF = Breaking load of strap + hook

HOOKS MADE OF GALVANIZED STEEL FOR HOLDING STRAPPING TEXTILES AND COMPOSITES

ITEM: N9286



Hooks made of galvanized steel. Used for hot melt strapping textiles and polyester composite straps.

Tech. Code		N928613	N928616	N928619	N928625	N928632
Dimension	mm	13 x 3,3	16 x 3,5	19 x 4	25 x 6	32 x 7
Box	pcs	1000	1000	1000	400	250

BATTERY STRAPPING TOOL

ITEM: N9288



Battery strapping tool for plastic strapping and welding vibratory.
Used for strap embossed polyester or smooth polypropylene.

Closing resistance:
80% of the load of breakages (variations depending of the type of strapping)

Standard adaption:
1 battery
1 battery charger

Tech. Code	Battery	Straps PP-PET mm	Straps PET mm	Max tension N	Tension speed m/min	Dimension mm	Weight kg
N92881216	18V - 4 Ah	12-16 x 0,5-1,05	12-16 x 0,5-1,05	2200	12	290 x 140 x 165	3,6
N92881619	18V - 4 ah	16 x 0,5-1,05	19 x 0,5-1,05	3500	12	315 x 140 x 183	3,8

BATTERY SEALING TOOL FOR PLASTIC STRAPPING

ITEM: N9289



Battery sealing tool for plastic straps with brushless motor for smooth and embossed plastic strap welding (PP-PET). Tensioning, welding and cutting are completley automatic. With the battery fully charged up to 400 strapping cycles can be performed depending on the type of strap used and the welding time.

Supplied with standard equipment:
1 battery
1 battery charger

Tech. Code	Battery	Straps PP-PET mm	Max tension N	Welding time Sec.	Dimension mm	Weight kg
N928916	18V / 4Ah Lion	12 - 16 x 0,65 - 1,00	2500	0,3 - 2,7	330 x 150 x 130	3,4
N928919	18V / 4Ah Lion	16 - 19 x 0,70 - 1,27	4000	0,3 - 2,7	330 x 150 x 130	3,5

STRAP STRETCHERS FOR METALLIC STRAPS WITHOUT SEALS

ITEM: N9210



Strap streches for flat packages without seal. Interlocking closure system and strap cutting, easy adjustment of the desired size, the resistance of the closure without seal is higher than that with seal and significantly reduces execution time

Tech. Code	Strap mm	Strap thickness mm
N921013161920	13-16-19-20	max. 0.6

STRAP STRETCHERS FOR PLASTIC STRAPS WITH SEAL

ITEM: N9220



Long lever for reduced closing effort.

Tech. Code	Strap mm
N92201215	13

STRAP STRETCHER FOR PLASTIC STRAPS WITH SEAL

ITEM: N9230

Long lever of pressed steel and with anatomic handles, reduced closing effort and excellent grip comfort.

Tech. Code	Strap mm
N923015	16



MANUAL POLYESTER STRAP TENSIONER

ITEM: N9295

Manualtensioners allow operators to bring polyester strap to desired tension.

Tech. Code	Strap mm
N9295T25	13 - 16 - 19 - 25



MANUAL POLYESTER STRAP TENSIONER

ITEM: N9296

Manualtensioners allow operators to bring polyester strap to desired tension.

Tech. Code	Strap mm
N9296T50	19 - 25 - 32 - 35 - 40 - 50



TROLLEY STRAP HOLDERS FOR METAL STRAPS

ITEM: N9256

Steel painted profile structure with strap holder. Tray for straps and seals.

Tech. Code	Width of straps mm
N92561332	13 - 32



STRAPPING DISPENSERS FOR PET STRAPS

ITEM: N9270

Steel painted profile structure with strap holder and tray for straps and seals.

Tech. Code	Ø Coil size mm
N9270F400	392



STRAP HOLDERS FOR PLASTIC STRAPS

ITEM: N9280

Painted steel profile structure, suitable for coils with a 62 mm hole.

Tech. Code	Coil hole mm
N9280F62	62



ITEM: N9281

Steel painted profile structure.

Tech. Code	Ø Coil size mm
N9281F060	60/62



TROLLEY STRAP HOLDERS FOR PLASTIC STRAPS

ITEM: N9290

Trolleys with very strong frames, hardwearing-extra sturdy, large diameter wheels for easy pulling also on gravvelled or icy grounds. Brake, clutch for handy-use of the rewinding coil system.

Tech. Code	Ø coil size mm
N929000	200



POLYESTER STRAP SHEARS

ITEM: N9291

Dual-blade, ergonomically designed, safety strap shears, 2 blades (smooth and serrated), ultra precise, fray free cuts. Comfortable, secure fit for your hand also with gives.
Advanced fulcrum for greater cutting force.

Tech. Code	Blades
N929100	1 smooth + 1 serrated



TRANSPARENT STRETCH FILMS

ITEM: N9300

Four-reel pack each equipped with a plastic distributor and a rubber holding handle. High elastic properties and puncture resistance, suitable for assembling profiles, panels, cornices and limited surfaces in general, non-toxic and recyclable.

Tech. Code	Thickness Microns	Reel height mm	Length m
N9300100/4	23	100	200



TRANSPARENT STRETCH FILMS

ITEM: N9310

Thirty-reel pack with one plastic distributor and a rubber holding handle.



Tech. Code	Thickness Microns	Reel height mm	Length m
N9310100/30	23	100	200

ITEM: N9320

High elastic properties and puncture resistance, suitable for a broad range of packaging needs.



Tech. Code	Thickness Microns	Reel height mm	Reel hole mm	Reel weight kg	Package
N9320500/6	23	500	50	2.5	6 Reels

TRANSPARENT STRETCH FILMS

ITEM: N9370

Single reel.



Tech. Code	Thickness Microns	Reel height mm	Reel hole mm	Reel weight kg
N937023500	23	500	75	5
N937030500	30	500	75	5
N937035500	35	500	75	5

HANDLES FOR STRETCH FILMS

ITEM: N9340

For reels with a 50 mm hole.



Tech. Code	Coil hole mm
N9340MAN	50

COLOURED STRETCH FILMS

ITEM: N9350

High elastic properties and puncture resistance, suitable for a broad range of packaging needs.



Tech. Code	Colour	Thickness Microns	Reel height mm	Reel hole mm	Reel weight kg	Package
N9350BIANCO	White	30	500	75	4	4 Reels
N9350NERO	Black	30	500	75	4	4 Reels

DISTRIBUTORS FOR STRETCH FILM COILS

ITEM: N9360

Made of steel for professional use, equipped with an adjustable clutch that provides constant film tension, suitable for reels of 500 mm height and with 38 - 50 - 75 mm hole.

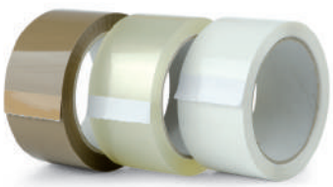


Tech. Code	Coil height mm	Coil hole mm
N9360DIST	500	38 - 50 - 75

BOX SEALING TAPES

ITEM: N9400

Silent polypropylene suitable for all packing and packaging needs.



Tech. Code	Colour	Height mm	Length m
N9400AV	Tobacco	50	66
N9400TRASP	Transparent	50	66
N9400BIANCO	White	50	66

Tech. Code	Colour	Height mm	Length m
N9400132AV	Tobacco	50	132
N9400132TRASP	Transparent	50	132
N9400132BIANCO	White	50	132

TAPE STRETCHERS

ITEM: N9450

Plastic body, adjustable clutch, suitable for tapes with a height of up to 50 mm.

Tech. Code	Belt height mm
N9450S50	50



ADHESIVE MASKING TAPES

ITEM: N9410

Paper, suitable for covering and marking out areas for painting operations.

Tech. Code	Height mm	Length m
N941019	19	50
N941025	25	50
N941030	30	50
N941038	38	50
N941050	50	50



DOUBLE-SIDED TAPES

ITEM: 22500 UNIVERSALE

Double-sided adhesive tapes with polypropylene backing. Synthetic rubber and resin based adhesive on bisilicon paper. Very strong, for use in the industrial sector and assembly in general.

Tech. Code	Height mm	Length m
N941519	19	25
N941525	25	25
N941550	50	25



INSULATING ADHESIVE TAPES

ITEM: TEMFLEX 165

Vinyl insulation tape for professional indoor and outdoor use. Can be used for repairs, wiring.
Good resistance to abrasion, acid, alkali. High dielectric strength and environmental temperature resistance.

Features:
- Stretching at breaking point: 200%
- Isolation resistance: >1x10 Ω
- Dielectric rigidity: 40 KV/mm
- Operating temperature: 0 / +90°C

Tech. Code	Colour	Width mm	Thickness mm	Length m
N942115N10	Black	15	0,15	10
N942119N	Black	19	0.15	25

Certified VDE, IEC 60454-3-1-5/F-PVCP/90



INSULATING ADHESIVE TAPES

ITEM: N9422

Insulating adhesive tapes in PVC self-extinguishing with a high degree of electrical isolation (600 V) and mechanical protection for any applications in civil and industrial plants.

Features:
- Stretching at breaking point: 200%
- Electric rigidity: 40 kV/mm
- Operating temperture: -18 / +90°C

Tech. Code	Colour	Width mm	Thickness mm	Length m
N942215N	Black	15	0,13	10
N942219B	White	19	0,13	25
N942219N	Black	19	0,13	25
N942219R	Red	19	0,13	25
N942225N	Black	25	0,13	25
N942225B	White	25	0,15	25

Conformity with the standard regulations CEI EN 60454-3-1 e BS 3924 VDE nr. 40039640



ADHESIVE FABRIC-REINFORCED TAPES

ITEM: N9430

Reinforced, high adherence, waterproof, suitable for packing, repairing, joining and protecting a wide range of materials.
Color Silver.



Tech. Code	Height mm	Length m
N943050/25	50	25

ADHESIVE FABRIC-REINFORCED TAPES

ITEM: 5080

Triple-layer highly tear resistant and waterproof up to four atmospheres, temperature resistant from -10°C to +70°C, suitable for high-sealing emergency repair. Silver.



Tech. Code	Height mm	Length m
N944050/50	50	50

PROTECTIVE TUBULAR NETS SHOCK-PROOF

ITEM: N9501

The polyethylene tubular net is specific for the protection of products in metal, wood, glass, particularly paint or rectified. It is very versatile and perfectly adaptable to any types of profile. Resistant to acids and solvents.



Tech. Code	Using range mm	Colour	Thickness	Roll m
N9501007	7 - 15	Orange	Standard	500
N9501010	10 - 30	Purple	Standard	500
N9501020	20 - 50	Neutral	Standard	500
N9501020SM	20 - 50	Blue	Over dimension	500
N9501040	40 - 60	Yellow	Standard	300
N9501050	50 - 80	Brown	Standard	250
N9501070	70 - 100	Red	Standard	250
N9501090	90 - 160	Blue	Standard	250
N9501090SM	90 - 160	Orange	Over dimension	100
N9501100	100 - 200	Green	Standard	250

POLYTHENE BUBBLE WRAP ROLLS

ITEM: N9520

Bubble wrap with a high shock absorbing quality, resistant to impacts and tearing, suitable for wrapping and protecting objects of any shape and size, odourless, chemically neutral and 100% recyclable.



Tech. Code	Roll height m	Roll length m	Weight per m² g	Roll kg
N95201000	1,0	200	115	23
N95201250	1,25	200	115	28,75
N95201500	1,5	200	115	34,5

CARDBOARD SHIPPING BOXES

ITEM: N9560

Double wave.



* compatible in size with the chipboard pallet

Tech. Code	Dimensions mm
N9560230	230 x 155 x 145
N9560280	280 x 180 x 200
N9560330	330 x 245 x 220
N9560425	425 x 230 x 185
N9560600	600 x 400 x 350*
N9560800	800 x 600 x 440*

WOODEN CHIPBOARD PALLETS

ITEM: N9575



Tech. Code	Dimensions mm
N9575600	600 x 400
N9575800	800 x 600

WODEX mro

Perfect ergonomics


WODEX
" HANDsome "
WODEX
WX8420
HIGH PROTECTION

WODEX

" HANDsome "



WORKSTATION AND STORAGE

P



Fami LISTA OMG

2 - 10
Workbenches



Fami LISTA

10 - 14
Toolholders cabinets



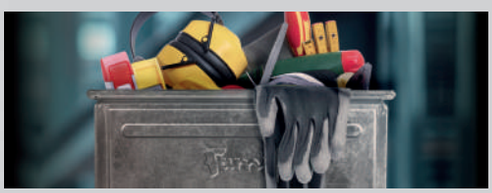
Fami LISTA

15 - 21
Drawers cabinets



Fami LISTA OMG

22 - 29
Cabinets,
garment lockers and
battery charger cabinets



WODEX Fami iMilani Jall OMG

30 - 38
Containers cabinets,
plastic cabinets,
scrap holders



WODEX Fami WRK OMG

38 - 40
Roller cabinets



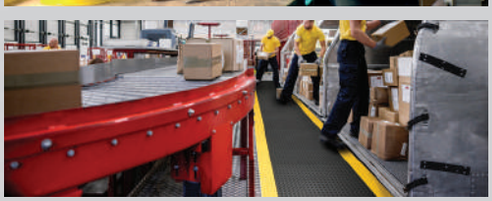
WODEX Jall LISTA

40 - 48
Bolt and hooks shelves, pallets racks,
cantilever, tank stands
for drums



Jall Justrite

48 - 59
Shelves and ladders



Justrite Terry

60 - 61
Waste containers
and recycling



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STEEL TOP WORKBENCHES

ITEM: P0015

Sheet steel top with three raised edges, designed to accommodate drawers and cabinets, bolted structure. Blue Ral 5012, **supplied disassembled**.
Sheet metal thickness 3 mm.



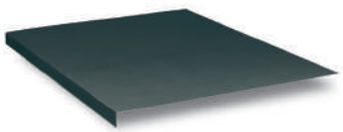
Tech. Code		P00151000	P00151500	P00152000
Dimensions	mm	1031 x 704 x 887h	1507 x 704 x 887h	2007 x 704 x 887h
Capacity	kg	1000	1000	1000
Weight	kg	40	60	110
Colour		RAL 5012	RAL 5012	RAL 5012

Tech. Code		P00151000GA	P00151500GA	P00152000GA
Dimensions	mm	1031 x 704 x 887h	1507 x 704 x 887h	2007 x 704 x 887h
Capacity	kg	1000	1000	1000
Weight	kg	40	60	110
Colour		RAL 7035 + RAL 7016	RAL 7035 + RAL 7016	RAL 7035 + RAL 7016

STEEL COVER COATED WITH OIL-RESISTANT RUBBER

ITEM: P0011

Steel covered with oil-resistant rubber, suitable for benches with steel tops.
The special composition of this material prevents the top from being damaged during various processes: cutting operations or use of acids and oils.
Cover height: 27 mm



Tech. Code		P0011A1000	P0011A1500	P0011A2000
For workbenches	mm	1024 x 702	1500 x 700	2000 x 702
Weight	kg	5,54	8,35	10,90

WOODEN TOP WORKBENCHES

ITEM: P0025

Multiplex wood top 30mm thick. Designed to accommodate drawers and cabinets). Bolted structure. Blue Ral 5012, **supplied disassembled**.



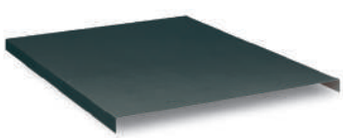
Tech. Code		P00251000	P00251500	P00252000
Dimensions	mm	1024 x 750 x 880h	1500 x 750 x 880h	2000 x 750 x 880h
Capacity	kg	1000	1000	1000
Weight	kg	45	65	115
Colour		RAL 5012	RAL 5012	RAL 5012

Tech. Code		P00251000G	P00251500G	P00252000G
Dimensions	mm	1024 x 750 x 880h	1500 x 750 x 880h	2000 x 750 x 880h
Capacity	kg	1000	1000	1000
Weight	kg	45	65	115
Colour		RAL 7035	RAL 7035	RAL 7035

STEEL COVER COATED WITH OIL-RESISTANT RUBBER FOR WOODEN WORKTOPS

ITEM: P0021

The rubberized steel cover preserves the integrity of the work surface when acids, oil or heavy-duty work is carried out.
Rust-resistant, it protects the multiplex top from abrasion and wear.
Cover height: 22 mm



Tech. Code		P0021A1000	P0021A1500	P0021A2000
For workbenches	mm	1028 x 754	1500 x 750	2000 x 750
Weight	kg	6,17	9,31	12,31

PAPER ROLL HOLDER KIT

ITEM: P1122

The industrial roll paper holders can hold rolls with maximum diameter of 240/300 mm.
The practical upper roll facilitates the tearing of the paper and avoids waste. It can be fixed on the wall or on perforated metal or wooden panels. Each industrial roll holder kit contains:
- 1 paper holder
- 6 dowles for perfated walls
- 4 screws for fixing on the wall or on wood.



Tech. Code		P112201
Dimension	mm	285 x 180 x 200 h
Load capacity	kg	5
Weight	kg	4,5

HEIGHT ADJUSTABLE WOODEN TOP WORKBENCHES

ITEM: P0027

The wooden top workbenches are designed with seat ergonomics in mind, with the option of adjusting the height from a minimum of 740 mm to a maximum of 1110 mm. Multiplex wood top 30 mm thick. **Supplied disassembled.**



Tech. Code		P002710000	P002715000	P002720000
Dimension	mm	1024 x 750 x 740/1100h	1500 x 750 x 740/1100h	2000 x 750 x 740/1100h
Load capacity	kg	600	600	600
Weight	kg	48	65	115
Colour		RAL 5012	RAL 5012	RAL 5012

Tech. Code		P00271000GA	P00271500GA	P00272000GA
Dimension	mm	1024 x 750 x 740/1100h	1500 x 750 x 740/1100h	2000 x 750 x 740/1100h
Load capacity	kg	600	600	600
Weight	kg	48	65	115
Colour		RAL 7035 + RAL 7016	RAL 7035 + RAL 7016	RAL 7035 + RAL 7016

PERFORATED PANEL/SHELVES

ITEM: P0129

The perforated panel can be used individually or in combination with other perforated panels to create an equipped wall that can be positioned on the workbench on a wooden panel or on the wall. The pitch between the holes are 38 mm.

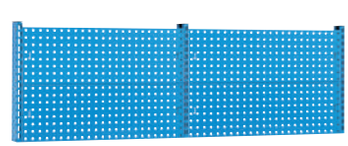


Tech. Code		P012901	P012902
Dimension	mm	953 x 31 x 304 h	953 x 31 x 304 h
Hole dimension	mm	10 x 10	10 x 10
Colour		RAL 5012	RAL 7035

PERFORATED PANEL IN KIT

ITEM: P0029

This set allows you to have everything you need to install you own equipped wall on the workbench. The two mounted ones are positioned on the sides of the counter, while the perforated panel can be used both as a support for fixing hooks and accessories and as a horizontal or inclined shelf. In the latter case, the edge must also be installed to prevent the material positioned above the shelf from falling.



Tech. Code		P0029WR01	P0029WR02	P0029WR03	P0029WR04
Dimension	mm	1015 x 80 x 634	1015 x 80 x 634	1015 x 80 x 938	1015 x 80 x 938
Colour		RAL 7035 + 7016	RAL 5012	RAL 7035 + 7016	RAL 5012
Capacity	kg	11,7	11,7	17,8	17,8

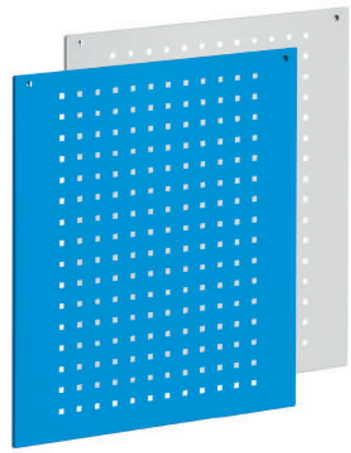
Tech. Code		P0029WR05	P0029WR06	P0029WR07	P0029WR08
Dimension	mm	1500 x 80 x 634	1500 X 80 X 634	1500 x 80 x 938	1500 x 80 x 938
Colour		RAL 7035 + 7016	RAL 5012	RAL 7035 + 7016	RAL 5012
Capacity	kg	15,5	15,5	24	24

Tech. Code		P0029WR09	P0029WR10	P0029WR11	P0029WR12
Dimension	mm	2000 x 80 x 634	2000 x 80 x 634	2000 x 80 x 938	2000 x 80 x 943
Colour		RAL 7035 + 7016	RAL 5012	RAL 7035 + 7016	RAL 5012
Capacity	kg	15,5	15,5	25	25

PERFORATED SIDE PANELS

ITEM: P0260

Spedifications for P0015,P0025,P0027, P0016, P0024 and P0029 benches.
Panels to be positioned laterally in the counter 10x10 mm square hole.



Tech. Code		P0260BL01	P0260GR01
Dimension	mm	610 x 18 x 669h	610 x 18 x 669h
Colour		RAL 5012	RAL 7035

KIT SUPPORTS WITH RAIL

ITEM: P0262

NEW

The aluminium rail supports enable the upper part of the workbench to be completed: the overhead structure is inserted into the uprights by means of special brackets and screws and can accommodate not only single or double lamps, but also air sets.
Suitable for uprights h 938 mm.



Tech. Code		P0262001000	P0262001500	P0262002000
Dimensions	mm	1015 x 686 x 307h	1500 x 686 x 307h	2000 x 686 x 307h
No. of supports		2	2	3
Colour		RAL 5012	RAL 5012	RAL 5012

Tech. Code		P0262GA1000	P0262GA1500	P0262GA2000
Dimensions	mm	1015 x 686 x 307h	1500 x 686 x 307h	2000 x 686 x 307h
No. of supports		2	2	3
Colour		RAL 7016	RAL 7016	RAL 7016

SINGLE LED LAMP

ITEM: P0263

NEW

The single LED lamp illuminates the workstation evenly, without shadows and can be attached to the overhead structure of the bench, the perforated panel, the wooden panel on the wall or under a shelf. It can be attached either by means of magnets or by means of brackets. In the latter case, it is also possible to change the inclination of the lamp in order to illuminate a specific point of the workbench.



Tech. Code		P026301	P026302
Dimension	mm	1000 x 146 x 49h	1500 x 146 x 49h
Watt		15	20
Hz		50/60	50/60
Lumen		1500	2000
Colour		RAL 7035	RAL 7035

DOUBLE LED LAMP

ITEM: P0264

NEW

The double lamp consists of two LED lights for more illumination on the workbench.
It can be fixed anywhere on the workbench: on the overhead structure, under a shelf, on the perforated wall, or it can be placed directly on the wooden panel or wall.
Fixing by means of brackets allows you to vary the inclination of the lamp according to the area to be illuminated.



Tech. Code		P026402	P026401
Dimension	mm	1000 x 166 x 69h	1500 x 166 x 69h
Watt		15	20
Hz		50/60	50/60
Lumen		3000	4000
Colour		RAL 7035	RAL 7035

ADDITIONAL NON-SLOTTED HALF-SHELF

ITEM: P0270

Specific for benches P0015, P0025, P0027, P0016, P0024 and P0029.
Non-slotted half-shelf with 100 Kg capacity.



Tech. Code		P0270BL01	P0270BL02	P0270BL03
Dimension	mm	760 x 300 x 35h	1260 x 300 x 35h	1760 x 300 x 35h
Colour		RAL 5012	RAL 5012	RAL 5012

Tech. Code		P0270GR01	P0270GR02	P0270GR03
Dimension	mm	760 x 300 x 35h	1260 x 300 x 35h	1760 x 300 x 35h
Colour		RAL 7035	RAL 7035	RAL 7035

WHEELS SET FOR BENCHES

ITEM: P0053

Wheels set for benches P0027 e P0029 composed of 2 swivel wheels with brake and 2 fixed wheels.



Tech. Code		P0053KRS	P0053KRU
Ø	mm	125	125
Material		Elastic rubber	Synthetic non-marking rubber
Load capacity	kg	750	300

DRAWERS FOR WORKBENCHES

ITEM: P0030

Specifically designed to fit workbenches P0015, P0025 and P0027.
Easy open drawers mounted on nylon bearings, key locking, complete with fittings for attaching to workbenches.
Overall width of the module: 500mm



Tech. Code		P00301C01	P00301C03
Dimension	mm	500 x 630 x 210 h	500 x 630 x 210 h
Weight	kg	8.90	8,90
Drawer capacity	kg	25	25
Colour		RAL 5012	RAL 7035 + RAL 7016

CABINETS FOR WORKBENCHES

ITEM: P0040

Specifically designed to fit workbenches P0015, P0025 and P0027.
Easy open drawers mounted on nylon bearings, key lock on each drawer and door, complete with fittings for attaching to workbenches.
Overall width of the module: 500mm



Tech. Code		P00403C01	P00403C03	P0040CP01	P0040CP03
Dimension	mm	500 x 630 x 570h	500 x 630 x 570h	500 x 630 x 570h	500 x 630 x 570h
Type		three drawers	three drawers	drawer and door	drawer and door
Weight	kg	24.30	24.30	15.20	15.20
Colour		RAL 5012	RAL 7035 + 7016	RAL 5012	RAL 7035 + 7016

Tech. Code		P0040P01	P0040P03	P00403C05	P00403C04
Dimension	mm	500 x 612 x 570h	500 x 612 x 570h	500 x 630 x 570h	500 x 630 x 570h
Type		door and shelf	door and shelf	four drawers	four drawers
Weight	kg	12.00	12.00	25.70	25.70
Colour		RAL 5012	RAL 7035 + RAL 7016	RAL 5012	RAL 7035 + RAL 7016

CABINETS FOR WORKBENCHES - 630MM

ITEM: P0240

Specifications for P0015, P0025 and P0027 benches.
Simple extraction with sliding on nylon bearings, lock with key on each single drawer and on the door, complete with fixing material to the workbenches. **Overall width of the module: 629 mm**



Tech. Code		P02403C01	P02403C03	P02403C02	P02403C04
Dimension	mm	629 x 630 x 570 h	629 x 630 x 570 h	629 x 630 x 570 h	629 x 630 x 570 h
Type		three drawers	three drawers	four drawers	four drawers
Weight	kg	25,10	25,10	29,40	29,40
Colour		RAL 5012	RAL 7035 + RAL 7016	RAL 5012	RAL 7035 + RAL 7016

Tech. Code		P02403P01	P02403CP03	P02403P02	P02403P04
Dimension	mm	629 x 612 x 570 h	629 x 612 x 570 h	629 x 630 x 570 h	629 x 612 x 570 h
Type		draw and door	drawer and door	door	door and base
Weight	kg	19,90	16,90	14,80	14,80
Colour		RAL 5012	RAL 7035 + RAL 7016	RAL 5012	RAL 7035 + RAL 7016

BOTTOM CLOSING FOR CABINETS

ITEM: P0250

Specific for cabinets P0040CP01,P0040P01, P02403P01, P02403P02, P0040CP03, P0040P03,P02403P04 e P02403P04. To be used in cabinets with doors when the half-shelf is not present.



Tech. Code		P0250BL01	P0250BL02	P0250GR01	P0250GR02
Length	mm	500	629	500	629
Colour	mm	RAL 5012	RAL5012	RAL 7035	RAL 7035

SWIVEL CHAIRS WITH HEIGHT ADJUSTMENT

ITEM: P0324

The chair has a height-adjustable seat and, thanks to the wheels, can be easily moved within the work area.It is ideal not only for those who work in factories, but also for those who work in laboratories and assembly stations.

Tech. Code	Regulation mm	Finish	Weight kg
P032401	540/730	Polyurethane	11,2



ITEM: P0320

The swivel chair in beech wood with swivel and height-adjustable seat is equipped with four self-locking wheels in non-marking rubber.

Tech. Code	Adjustment mm	Finish	Weight kg
P03201	510 ÷ 690	Beach tree	8,70



SWIVEL CHAIR WITH SCREW ADJUSTMENT

ITEM: MG884A

Chrome-plated steel structure, screw elevation with lock, beech seat and back, five-star base with vibration-damping feet, footrest.

Tech. Code	Adjustment mm
P03252	540 ÷ 740



SWIVEL STOOLS WITH GAS ELEVATION

ITEM: P0326

Stool with swivel seat, footrest circle, runners, gas lift. Height and depth adjustment of the backrest. Seat and back upholstered and covered in black polyurethane.

Tech. Code	Adjustment mm
P032601	420 ÷ 550
P032602	590 ÷ 850



INDUSTRIAL SWIVEL STOOL

ITEM: MG883

Swivel stool with rubber seat and backrest 440 mm.
Footrest ring.

Tech. Code	Adjustment mm
P03162	540 ÷ 800



LEGEND OF VARIABLE COLOURS



P.....01 | RAL 5012



P.....02 | RAL 7035



P.....05 | RAL 5019



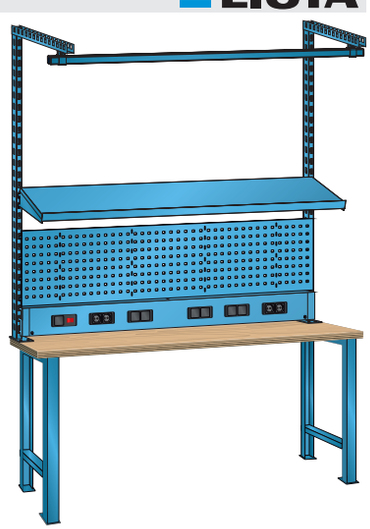
P.....06 | RAL 9000

UNIVERSAL SUPERSTRUCTURE

ITEM: P0039

Universal superstructure designed for ergonomic, clear and individual work. The contoured design allows almost invisible cable routing. Consists of 2 uprights for flat mounting including left and right support brackets, 2 overhangs for uprights, 1 sliding rail with mounting kit, 1 trolley, 1 perforated rear wall, 1 smooth movable shelf 350 mm deep, 1 rear wall for pre-configured power and 1 switch with 5 230 V sockets (including power cable).
The superstructure is supplied without worktop and legs.

Tech. Code		P0039A01
Width	mm	1500
Length	mm	1500
Edge height	mm	1460
Sockets		DE / Schuko
Colour		RAL 5012



P.....01 | P.....02
P.....05 | P.....06

BENCHES WITH WOODEN TOP

ITEM: P0126

Benches with plywood top. Beech top thickness of 40mm very resistant to water, rounded corners, surface smoothed and treated with oil and wax thus giving resistance to any spray of water and completely unaffected by oils and fats. Including fastening material and pre-assembly.

Tech. Code		P0126A01	P0126B01
Dimension	mm	1500 x 700 x 840	2000 x 700 x 840
Colour		RAL 5012	RAL 5012
Capacity	kg	600	360



P.....01 | P.....02

DRAWER CABINETS FOR BENCHES

ITEM: P0226

Drawers with limit stop, single ratchet and flush drawer front. 27x27E version. Compactible with Lista workbenches. Centralized key locking. Drawer internal dimension 459x459.

Tech. Code		P0226A01	P0226B01	P0226C01
Dimension	mm	564 x 572 x 383	564 x 572 x 850	564 x 572 x 850
Colour		RAL 5012	RAL 5012	RAL 5012
Drawers	n°	3	5	6
Drawer dimension	mm	1 x 50 / 1 x 100 / 1 x 150	1 x 100 / 3 x 150 / 1 x 200	2 x 75 / 2 x 100 / 2 x 200
Draw capacity	kg	75	75	75



P.....01 P.....02
P.....05 P.....06

WORKSTATIONS ON WHEELS

ITEM: P0041

Stable workstation for creating workplaces in the workshops and in production. Maximum stability with cabinet body with capacity up to 1t, version with rubber wheels for moving to different workplaces. Worktop in 40mm plywood. Equipped with handle, 2 fixed wheels and 2 swivel wheels with brake (Ø 125mm). KEY Lock key closure.

Tech. Code		P0041B01
Dimension	mm	1250 x 700 x 877
Colour	n°	RAL 5012
Drawers	n°	5
Shelve dimension	mm	2x75 / 1x100 / 1x150 / 1x200
Capacity	kg	400
Drawer capacity	kg	75
Compartment dimension	mm	1x600



P.....01 P.....02
P.....05 P.....06

MATERIAL FOR FIXING WORKTOPS

ITEM: P0050

Material for fixing work tops for work benches.

Tech. Code		P0050W1	P0050W2
Description		Leg fixing	Drawer fixing
Pieces	n°	6 viti M10	4 viti M10



WORKBENCH WITH DRAWERS

ITEM: P0080

Workbench equipped with a 35 mm thick multilayer wooden top and a 5-drawer drawer unit, each drawer holds 70 kg.
The drawers have 100% full extension slides and can be divided with 27x27U dividers.
Useful drawer width 459mm, useful depth 459mm and useful height 60mm, 85mm, 135mm, 185mm.

Tech. Code		P00801500	P00802000
Dimensions	mm	1500 x 700 x 865h	2000 x 700 x 865h
Drawers	n°	5	5
Drawer size	mm	1x75 / 1x100 / 1x150 / 2x200	1x75 / 1x100 / 1x150 / 2x200
Colour		RAL 5015	RAL 5015
Scope	Kg	1400	800



MODULAR BENCH

ITEM: P3150

Modular bench complete with:
No. 2 SAM03F uprights 1000 mm high
No. 2 SAP15 panels L.1500 mm
N°1 shelf SAR153 L.1500 mm
No. 1 SAN15P ceiling
No. 1 rear curtain wall MGP15
N°2 MGPALB side panels
N°1 drawer unit 3 drawers MG117B 505x620x600hmm
N°1 drawer unit with door MG119B 505x620x600hmm
N°1 extension kit MGPRB



Tech. Code		P3150100
Dimensions	mm	1500 x 700 x 890-1240+1064h
Colour		RAL 5015
Scope	kg	800

CABINETS NC HINGED DOOR

ITEM: P1044

Cabinets with NC hinged doors for tools including frames and bushings.

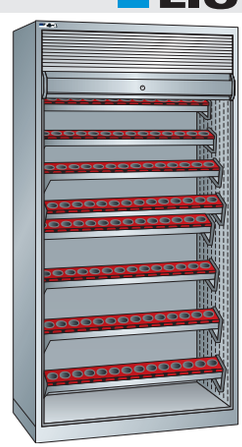


Tech. Code		P1044BL01	P1044GR01
Dimension	mm	1023 x 555 x 2000h	1023 x 555 x 2000h
Colour		RAL 5012	RAL 7035
Frames		4	4
Supports		84 ISO 40	84 ISO 40
Load capacity	kg	800	800

NC CABINETS WITH SHUTTERS 54 X 27 E

ITEM: P1045

NC cabinets with shutters equipped with eight interchangeable tool frames which are insertable into the cabinets, drawers and trolley for transportation eight pairs of frame holders. Key with central locking.



Tech. Code		P1045A01	P1045B01	P1045C01	P1045D01
Dimension	mm	1038 x 691 x 1950	1038 x 691 x 1950	1038 x 691 x 1950	1038 x 691 x 1950
Supports		112 ISO-SK 40	64 ISO-SK 50	80 HSK 63	-
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012
Load capacity	kg	1200	1200	1200	1200

P.....01 **P.....02**

NC TROLLEYS FOR TRANSPORT 36 X 27 E

ITEM: P1046

NC transport trolleys for safe, clean and visible storage in high-quality housings, made of break-resistant, shock-resistant and oil-resistant ABS material, which perfectly suitable for tools for removing chips. Individual and simple equipment, safe transport and maximum comfort of use and ergonomics. A shelf with side brackets, including PVC ribbed mat, a frame for housing in drawers with a frame holder, two interchangeable frames for tools with an inclined frame holder, diameter of the rubber wheels Ø 160 mm.



Tech. Code		P1046A01	P1046B01	P1046C01	P1046D01
Dimension	mm	1077 x 514 x 932	1077 x 514 x 932	1077 x 514 x 932	1077 x 514 x 932
Supports		40 ISO - SK 40	25 ISO - SK 50	30 HSK 63	-
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012
Load capacity	kg	540	540	540	540

P.....01 P.....02

NC TABLE SUPPORT NC 36 X 27 E

ITEM: P1049

NC table support with frame for housing in drawers for 3 tracks. Made of sheet steel.



Tech. Code		P1049A01	P1049B01	P1049C01	P1049D01
Dimension	mm	588 x 413 x 345	588 x 413 x 345	588 x 413 x 345	588 x 413 x 345
Supports		24 ISO-SK 40	15 ISO-SK 50	18 HSK 63	-
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012

P.....01 P.....02

TOOL HOLDER IN SET 36 X 36 E

ITEM: P1055

Tool holder set used in drawers. Including a housing frame, a pair of frame holder
Colour red.



Tech. Code		P105500	P105501	P105502
Dimension	mm	588 x 596 x 82 - 162 h	588 x 596 x 82 - 162 h	588 x 596 x 82 - 162 h
Supports		32 ISO - SK 40	20 ISO - SK 50	24 HSK 63 A+C+E/80 B+D+F

TOOL HOLDER SUPPORTS ISO-SK

ITEM: P1050

Tool holder supports ISO -SK. They are screwed or fixed by click-closure, red colour.



Tech. Code		P105000	P105001	P105002	P105003
Dimension	mm	65,6 x h 49 x Ø 31,8	65,6 x h 60,5 x Ø 44,5	105 x h 75 Ø57,2	105 x h 90 x Ø 69,9
Support type		ISO - SK30	ISO - SK40	ISO - SK45	ISO - SK50

TOOL HOLDER SUPPORTS HSK

ITEM: P1051

Tool holder supports HSK. They are screwed or fixed by click-closure, red colour.



Tech. Code		P105100	P105101	P105102
Dimension	mm	58 x h 31 x Ø 24	58 x h 31 x Ø 30	65,6 x h 31 x Ø 38
Support type		HSK32	HSK40	HSK50

Tech. Code		P105103	P105104	P105105
Dimension	mm	87,5 x h 34 x Ø 48	105 x h 42 x Ø 60	120 x h 52 x Ø 75
Support type		HSK63	HSK80	HSK100

TOOL HOLDER SUPPORTS VDI

ITEM: P1052

Tool holder supports VDI. They are screwed or fixed by click-closure, red colour.



Tech. Code		P105200	P105201	P105202
Dimension	mm	58 x h 20 x Ø 20,5	58 x h 20 x Ø 55,4	65,6 x h 69,5 x Ø 30,5
Support type		VDI20	VDI25	VDI30

Tech. Code		P105203	P105204	P105205
Dimension	mm	87,5 x h 77,5 x Ø 40,5	87,5 x h 93,5 x Ø 50	105 x h 108,5 x Ø 60,5
Support type		VDI40	VDI50	VDI60

TOOL HOLDER SUPPORTS CAPTO

ITEM: P1053

Tool holder supports Capto. They are screwed or fixed by click-closure, red colour.



Tech. Code		P105300	P105301	P105302
Dimension	mm	58 x h 31,5 x Ø 22	58 x h 31,5 x Ø 28	65,6 x h 31,5 x Ø 35
Support type		C3	C4	C5

Tech. Code		P105303	P105304	P105305
Dimension	mm	87,5 x h 34 x Ø 44	105 x h 42 x Ø 55	120 x h 52 x Ø 72
Support type		C6	C8	C10

TOOL HOLDER SUPPORTS TO BE DRILLED INDEPENDENTLY

ITEM: P1054

Tool holder supports to be drilled indepently for a number of tools as desired.



Tech. Code		P105400	P105401
Dimension	mm	58 x 138 x 20	535 x 138 x 20





DRAWER CABINETS TOTAL EXTRACTION 36 X 27 EH

ITEM: P2110

Cabinet with full extension drawers and central locking.

P21107C... composed of:
2 drawers, height 75 mm
1 drawer, height 100 mm
3 drawers, height 150 mm
1 drawer, height 200 mm

P21109C... composed of 9 drawers, height 100 mm.



Tech. Code		P21107C01	P21107C02	P21109C01	P21109C02
Dimensions	mm	717 x 600 x 1000 h	717 x 600 x 1000 h	717 x 600 x 1000 h	717 x 600 x 1000 h
Drawers	n°	7	7	9	9
Drawer capacity	kg	70	70	70	70
Colour		RAL 5012	RAL 7035	RAL 5012	RAL 7035

CABINETS WITH FULL EXTENSION DRAWERS 54 X 27 EH

ITEM: P2120

Cabinets with full extension drawers (100%), capacity 50 kg, anti-tilt opening system, central locking.

P21207C... composed of:
2 drawers, height 75 mm
1 drawer, height 100 mm
3 drawers, height 150 mm
1 drawer, height 200 mm

P21209C... composed of 9 drawers, height 100 mm.



Tech. Code		P21207C01	P21207C02	P21209C01	P21209C02
N° of drawers		7	7	9	9
Dimensions	mm	1023 x 600 x 1000h	1023 x 600 x 1000h	1023 x 600 x 1000h	1023 x 600 x 1000h
Weight	kg	105.00	105.00	105.00	105.00
Colour		RAL 5012	RAL 7035	RAL 5012	RAL 7035

OVERVIEW OF LISTA ACCESS SOLUTIONS



KEY LOCK
Proven standard locking system

KEY Lock, our standard locking system with replaceable cylinders.
- Manual opening/locking with key
- Simultaneously lockable for multiple, as well as different, products with only one key or separately lockable with several keys
- Key availability guaranteed for years



CODE LOCK
The solution with number combination

When locking with CODE Lock, the key is replaced by a number combination. A simple four to six-digit code is all that is needed to open the product.
- Manual opening/locking with number code
- Lock readout and programming with LISTA Access software (option)







RFID LOCK
Ready for the future:
the solution with RFID badge

In addition to the CODE Lock, the LISTA RFID Lock enables opening and locking via standard radio-frequency identification (RFID). It consists of a transponder in the lock and standard mobile RFID badges/cards/tags.
- **Manual opening/locking** via RFID badge or number code
- Most standard RFID badges/cards/tags can be used
- Lock readout and programming with LISTA Access software (option)



AUTO LOCK
The ultimate solution:
automatic opening and locking

The LISTA AUTO Lock features the same functionality as our RFID Lock, however opening and locking take place automatically. With LISTA Access software (option), time profiles can also be programmed in the lock or on the user for time-limited access for increased security.
- **Automatic opening/locking** via RFID badge or number code
- Most standard RFID badges/cards/tags can be used
- Locks automatically after a preset time or at the push of a button
- Lock readout and programming with LISTA Access software (option)
- Time-limited access programmable via LISTA Access software (option)





DRAWERS 27 X 27 E

ITEM: P2114

Drawers with body that resists up to 4 t, full use of the drawers. Unique in the Lista world thanks to the total extraction of the drawers, end stop to prevent the drawers from falling, excellent protection characteristics against dirt, liquids and mechanical stress. Corrosion protection, thanks to electrophoresis painting. Including List Script labeling. Drawer internal dimension 459x459mm.



Tech. Code		P2114A01
Dimension	mm	564 x 572 x 850
Drawers	n°	7
Drawers dimension	mm	2 x 75 / 3 x 100 / 2 x 150
Colour		RAL 5012
Draw capacity	kg	75

P.....01 | P.....02 | P.....05 | P.....06

CABINET DRAWERS 36 X 36 E

ITEM: P2122

Drawers with total drawers extraction and with anti-tip device. Includes script list labeling system with central key lock.



Tech. Code		P2122A01	P2122B01	P2122C01	P2122D01
Dimension	mm	717 x 725 x 850h	717 x 725 x 1000h	717 x 725 x 1000h	717 x 725 x 1000h
Drawers	n°	7	6	7	8
Dim. drawers	mm	2x75 / 3x100 / 2x150	1x100 / 4x150 / 1x200	1x50 / 2x75 / 2x100 / 1x200 / 1x300	1x50 / 2x75 / 2x100 / 2x150 / 1x200
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012
Drawers capacity	kg	75	75	75	75

P.....01 | P.....02 | P.....05 | P.....06

DRAWERS 36 X 27 E

ITEM: P2124

Drawers with body that resists up to 4 t, full use of the drawers. Unique in the world of Lista thanks to the total extraction of the drawers, limit stop to prevent the drawers from falling, excellent protection characteristics against dirt, liquids and mechanical stress. Corrosion protection, thanks to electrophoresis painting. Including List Script labeling. Drawer internal dimension 612 x 459mm.



Tech. Code		P2124A01
Dimension	mm	717 x 572 x 850
Drawers	n°	7
Drawer dim.	mm	2 x 75 / 2 x 100 / 2 x 125 / 1 x 150
Colour		RAL 5012
Drawer capacity		75

P.....01 | P.....02 | P.....05 | P.....06

CABINET DRAWERS 54 X 36 E

ITEM: P2125

Drawers with total drawers extraction and with anti-tip device. Includes script list labeling with central key lock.



Tech. Code		P2125A01	P2125B01	P2125C01
Dimension	mm	1023 x 725 x 1000h	1023 x 725 x 1000h	1023 x 725 x 1450h
Drawers	n°	6	7	9
Dim. drawers		1x100 / 4x150 / 1x200	1x50 / 2x75 / 2x100 / 1x200 / 1x300	3x100 / 5x150 / 1x300
Colour		RAL 5012	RAL 5012	RAL 5012
Drawers capacity	kg	200	200	200

P.....01 | P.....02 | P.....05 | P.....06

FLEXIBLE EXTENSION DRAWER UNITS 54 X 36 EH

ITEM: P2170

The Master DE drawer unit is the ideal solution for those looking for a versatile and robust drawer unit.
The capacity of the 7 full-extension drawers can be easily changed by the operator and can vary from a minimum of 50 to a maximum of 100 kg.
The internal space can be managed with the use of dividers and other separating materials.
The material contained within each drawer is safely guarded thanks to the cylinder lock with key.



Tech. Code		P2170702	P21707PD
Dimensions	mm	1020 x 726 x 1000h	1020 x 726 x 1000h
Drawers	n°	1 x 50 / 2 x 75 / 2 x 100 / 1 x 200 / 1 x 300	1 x 50 / 2 x 75 / 2 x 100 / 1 x 200 / 1 x 300
Drawer holders	kg	100 - 75 - 50	100 - 75 - 50
Colour		RAL 5012	RAL 7035 + RAL 7016

HINGED DOOR CUPBOARD 54 X 36 EH

ITEM: P2171

The Master DE low office cabinet is a good solution for organising office material, equipment and instruments.
It has two hinged doors for quick viewing of the contents and a height-adjustable top for dividing the interior into two compartments according to the contents to be stored.
The height of 1000 mm allows the Master DE cabinet to be used as a storage or work base.
In this case, it is recommended to protect the upper surface of the cabinet with a PVC-coated 3-edge top.
The low office cupboard is equipped with a cylinder lock with key.





Tech. Code		P21712PD	P2171204
Dimensions	mm	1020 x 726 x 1000h	1020 x 726 x 1000h
No. of doors		2	2
No. of shelves		1	1
Colour		RAL 7035 + RAL7016	RAL 5012

POLYCARBONATE HINGED DOOR CABINET 54 X 36 EH

ITEM: P2173

The low cupboard with two polycarbonate doors can be used as a solution for storing equipment and tools, as well as documents and office materials.
The polycarbonate doors provide a quick and complete view of the cabinet's contents, while the adjustable shelf on the inside creates two internal compartments that can be easily adjusted according to the contents to be stored.
The cabinet is locked using a cylinder lock with key, and the top can be protected using a PVC-coated 3-edge top.





Tech. Code		P21732PD	P2173204
Dimensions	mm	1020 x 726 x 1000h	1020 x 726 x 1000h
No. of doors		2	2
No. of shelves		1	1
Colour		RAL 7035 + RAL7016	RAL 5012

STAINLESS STEEL TOP

ITEM: P2174

The satin-finished stainless steel worktop is ideal for carrying out a wide variety of tasks without running the risk of damaging the worktop.
Satin-finished stainless steel has a high level of corrosion, heat and stain resistance.
Worktop suitable for cabinets with 54x36 EH Master drawers



Tech. Code		P217401
Dimension	mm	1020 x 726 x 23h

RUBBERIZED STEEL TOP

ITEM: P2175

The rubberized steel top is ideal for carrying out a wide variety of tasks without running the risk of damaging the worktop.
The rubberized steel resists damage from cutting operations or the use of acids and oils.
Worktop suitable for cabinets with 54x36 EH Master drawers



Tech. Code		P217501
Dimension	mm	1020 x 726 x 23h

3-EDGE PVC-COATED TOP

ITEM: P2176

The 3-edged top protects the top of the chest of drawers and turns it into a small workstation on which small jobs can be carried out.
The PVC-covered top prevents damage to the chest of drawers from scratches, knocks and stains, while the raised edges prevent material resting on the top from falling off.
The PVC-coated 3-edge top is suitable for cabinets with 54x36 EH drawers.



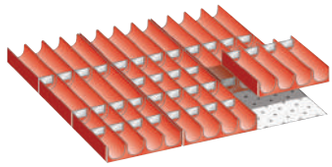
Tech. Code		P217601
Dimension	mm	1021 x 729 x 23h

SET OF SUBDIVISION TROUGHS 27 X 27 E

ITEM: P2190

Subdivision troughs for drawers systematically ensure order in every area and for every need. Maximum compatibility with the entire range thanks to a single size.
Useful surface area of the drawers W x D: 459 x 459 mm

- 9 in 4 parts, Ø 33 mm
- 40 4-part trough separators, Ø 33 mm



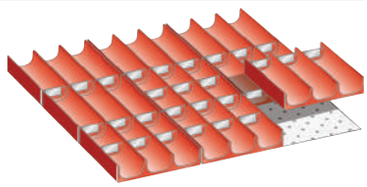
Tech. Code		P219000
Drawer height	mm	50

SET OF SUBDIVISION TROUGHS 27 X 27 E

ITEM: P2191

Subdivision material for drawers systematically ensure order in every area and for every need.
Maximum compatibility with the entire range thanks to a single size.
Useful surface area of the drawers W x D: 459 x 459 mm

- 9 trough in 3 parts, Ø 33 mm
- 30 3-part trough separators, Ø 33 mm



Tech. Code		P219100
Drawer height	mm	50

SET OF SUBDIVISION TROUGHS 27 X 27 E TRAYS

ITEM: P2192

Subdivision material for drawers systematically ensure order in every area and for every need. Maximum compatibility with the entire range thanks to a single size. Quick and simple assembly thanks to the perimeter slots of the drawers and their perforated bottom, for housing and fixing slotted walls, dividing plates, cutter holders and fixing pins.
Useful surface area of the drawers W x D: 459 x 459 mm

- 24 trays 75 x75 mm
- 6 trays 150 x 75 mm



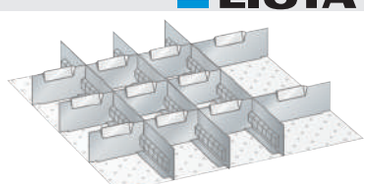
Tech. Code		P219250	P219275
Drawer height	mm	50	75

SLOTTED PARTITIONS AND METAL DIVIDERS IN KIT 27 X 27 E

ITEM: P2193

Subdivision material for drawers, they systematically ensure order in every sector and for any need. Maximum compatibility with the entire range thanks to a unique size.
Useful surface area of the drawers W x D: 459 x 459 mm

- 3 slotted partitations 27 E
- 9 metal dividers 6 E
- 2 metal dividers 9 E



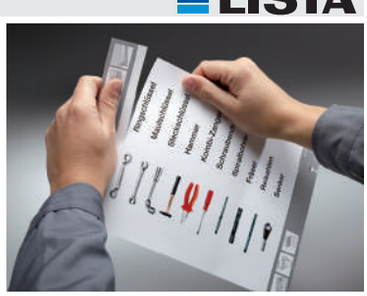
Tech. Code		P219350	P2193100	P2193150
Drawer height	mm	50	100	150

LABEL LIST - SCRIPT

ITEM: P2295

Label list-script "Universal packaging". The labeling software can be downloaded from the List website at www.lista.com/script

2 sheets of handle strips, 76 labels 47 x 12 mm, 52 labels 47 x 18 mm 133 labels, 27 x 12 mm



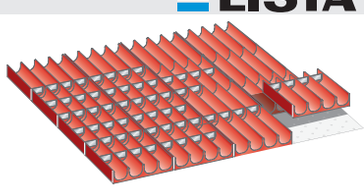
Tech. Code	P229500
Description	Label list

TROUGHS SUBDIVISION MATERIAL IN KIT 36 X 36 E

ITEM: P2270

Subdivision material for drawers systematically ensure order in every sector and for any requirements.
Maximum compatibility with the entire range thanks to a unique measurement.
Useful surface of drawers L x P: 612 x 612 mm.

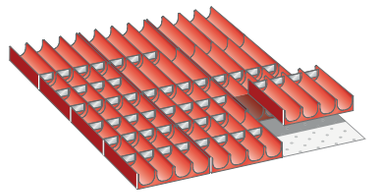
- 16 troughs in 4 parts, Ø 33 mm
- 70 troughs separators in 4 parts, Ø 33 mm



Tech. Code		P227000
Drawer height	mm	50

TROUGHS SUBDIVISION MATERIAL IN KIT 36 X 27 E

ITEM: P2273



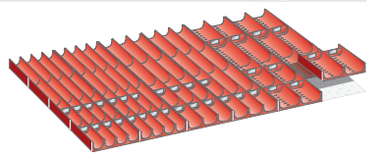
Subdivision material for drawers systematically ensure order in every sector and for any requirements.
Maximum compatibility with the entire range thanks to a unique measurement.
Useful surface of drawers L x P: 612 x 459 mm.

- 12 troughs elements in 4 parts of Ø 33 mm
- 50 separators in 4 parts of Ø 33 mm

Tech. Code		P227300
Drawer height	mm	50

TROUGHS SUBDIVISION MATERIAL IN KIT 54 X 36 E

ITEM: P2271



Subdivision material for drawers systematically ensure order in every sector and for any requirements.
Maximum compatibility with the entire range thanks to a unique measurement.
Useful surface of drawers L x P: 918 x 612 mm.

- 8 troughs elements: in 4 parts of Ø 33 mm
- 20 separators: in 4 parts of Ø 33 mm
- 8 troughs elements: in 3 parts of Ø 45 mm
- 10 separators: in 3 parts of Ø 45 mm
- 8 troughs elements: in 2 parts of Ø 70 mm
- 10 separators in 2 part of Ø 70 mm

Tech. Code		P227100
Drawer height	mm	50

TROUGHS 9 E

ITEM: P2277



Subdivision material in the form of troughs that can be assembled in any number by means of lateral cams.
Slotted in 14 mm increments, for splitting with separator. Red ABS plastic material.

Tech. Code		P227700	P227701	P227702
Dimension	mm	153 x Ø33 x 27h	153 x Ø45 x 27h	153 x Ø70 x 27h
Troughs	n°	4	3	2

SEPARATORS FOR TROUGHS

ITEM: P2288

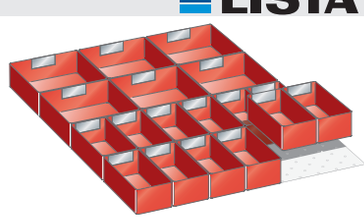


Separators for troughs in packs fo 10 pieces.
Colour red.

Tech. Code		P228800	P228801	P228802
Dimension	mm	Ø 33	Ø 45	Ø 70

SUBDIVISION MATERIAL IN PLASTIC BOXES IN KIT 27 X 36 E

ITEM: P2262



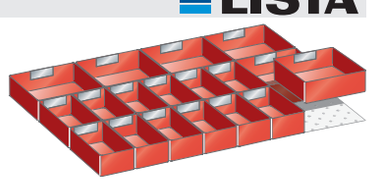
Subdivision material for drawers systematically ensure order in every sector and for any requirement. Maximum compatibility with the entire range thanks to a unique measurement. Quick and easy assembly thanks to the perimeter spacing of the drawers and to the perforated bottom of the same, for the housing and fixing of slotted walls,dividing sheets, mill holders and fixing pins. Useful surface of drawers W x D: 459 x 612 mm, 612 x 459 mm

- 12 boxes 150 x 75 mm
- 6 boxes 150 x 150 mm

Tech. Code		P226200
Drawer height	mm	50

SUBDIVISION MATERIAL IN PLASTIC BOXES IN KIT 36 X 27 E

ITEM: P2290



Subdivision material for drawers, systematically ensure order in every sector for any needs. Maximum compatibility with the entire range thanks to a unique size. Useful surface of drawers W x D: 612 x 459 mm.

- 12 boxes 150 x 75 mm
- 6 boxes 150 x 150 mm

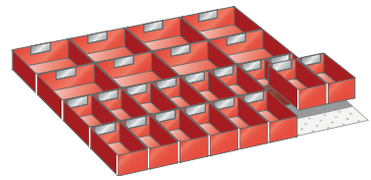
Tech. Code		P229001	P229002
Drawer height	mm	75	100 - 125

SUBDIVISION MATERIAL IN PLASTIC BOXES IN KIT 36 X 36 E

ITEM: P2291

Subdivision material for drawers, systematically ensure order in every sector for any needs. Maximum compatibility with the entire range thanks to a unique size. Useful surface of drawers W x D: 612 x 612 mm.

- 16 boxes 150 x 75 mm
- 8 boxes 150 x 150 mm



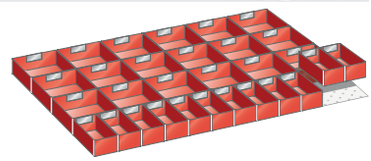
Tech. Code		P229100	P229101	P229102
Drawer height	mm	50	75	100 - 125

SUBDIVISION MATERIAL IN PLASTIC BOXES IN KIT 54 X 36 E

ITEM: P2292

Subdivision material for drawers, systematically ensure order in every sector for any needs. Maximum compatibility with the entire range thanks to a unique size. Useful surface of drawers W x D: 918 x 612 mm.

- 12 boxes 150 x 75 mm
- 18 boxes 150 x 150 mm

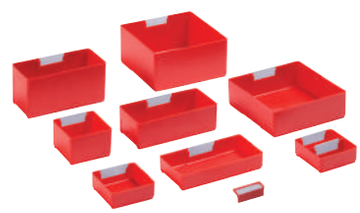


Tech. Code		P229200	P229201	P229202
Drawer height	mm	50	75	100 - 125

PLASTIC BOXES

ITEM: P2289

Subdivision material in boxes. Modular insertion in drawers of any size.
Colour red.



Tech. Code		P228900	P228901	P228902	P228903
Dimension	mm	75 x 75 x 26	150 x 75 x 26	150 x 150 x 26	75 x 75 x 46

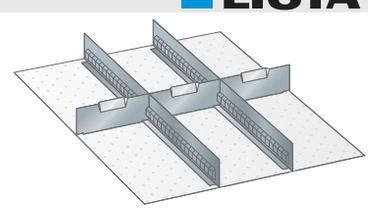
Tech. Code		P228904	P228905	P228906	P228907
Dimension	mm	150 x 75 x 46	150 x 150 x 46	150 x 75 x 71	150 x 150 x 71

SLOTTED PARTITIONS AND METAL DIVIDERS IN KIT 27 X 36 E

ITEM: P2265

Subdivision material for drawers, systematically ensure order in every sector and for any need. Maximum compatibility with the entire range thanks to a unique size.
Useful surface of drawers W x D: 459 x 612 mm.

- 2 slotted partitions 36 E
- 3 metal dividers 9 E



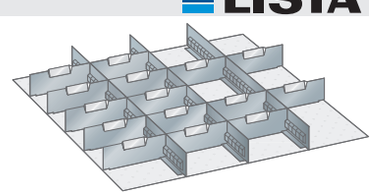
Tech. Code		P226500	P226501	P226502	P226503	P226504
Drawer height	mm	75	100 - 125	150	200	250

SLOTTED PARTITIONS AND METAL DIVICERS IN KIT 36 X 36 E

ITEM: P2274

Subdivision material for drawers, systematically ensure order in every sector and for any need. Maximum compatibility with the entire range thanks to a unique size.
Useful surface of drawers W X D: 612 x 612 mm.

- 3 slotted partitions 36 E
- 15 metal dividers 9 E



Tech. Code		P227400	P227401	P227402	P227403
Drawer height	mm	75	100 - 125	150	200

SLOTTED PARTITIONS AND METAL DIVIDERS IN KIT 36 X 27 E

ITEM: P2293

Subdivision material for drawers, systematically ensure order in every sector and for any need. Maximum compatibility with the entire range thanks to a unique size.
Useful surface of drawers W x D: 612 x 459 mm.

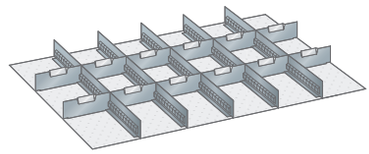
- 3 slotted partitions 27 E
- 8 metal dividers 9 E



Tech. Code		P229300	P229301	P229302	P229303	P229304
Drawer height	mm	50	75	100 - 125	150	200

SLOTTED PARTITIONS AND METAL DIVIDERS IN KIT 54 X 36 E

ITEM: P2278



Subdivision material for drawers, systematically ensure order in every sector and for any need. Maximum compatibility with the entire range thanks to a unique size.
Useful surface of drawers W x D: 918 x 612 mm.

- 5 slotted partitions 36 E
- 12 metal dividers 9 E

Tech. Code		P227800	P227801	P227802
Drawer height	mm	50	75	100 - 125

Tech. Code		P227803	P227804	P227805
Drawer height	mm	150	200	300

METAL DIVIDERS 6 E

ITEM: P2284



Metal dividers that allow, together with the slotted partitions, an even more precise division of the drawers.The labeling part is full-length and is used to accommodate the tabs to support the bar code holders.The lower bended part allows a screwing of the dividing partition to the perforated bottom of the drawers.The dimensions are stamped on each partition. Material: aluminum.

Tech. Code		P228400	P228401	P228402	P228403
Dimension	mm	98 x 27	98 x 50	98 x 75	98 x 125
Drawer height	mm	50	75	100 - 125	150

METAL DIVIDERS 9 E

ITEM: P2285



Metal dividers that allow, together with the slotted partitions, an even more precise division of the drawers.The labeling part is full-length and is used to accommodate the tabs to support the bar code holders.The lower bended part allows a screwing of the dividing partition to the perforated bottom of the drawers.The dimensions are stamped on each partition. Material: aluminum.

Tech. Code		P228500	P228501	P228502	P228503
Dimension	mm	149 x 27	149 x 50	149 x 75	149 x 125
Drawer height	mm	50	75	100 - 125	150

Tech. Code		P228504	P228505	P228506
Dimension	mm	149 x 175	149 x 225	149 x 275
Drawer height	mm	200	220	300

METAL DIVIDERS 12 E

ITEM: P2286



Metal dividers that allow, together with the slotted partitions, an even more precise division of the drawers.The labeling part is full-length and is used to accommodate the tabs to support the bar code holders.The lower bended part allows a screwing of the dividing partition to the perforated bottom of the drawers.The dimensions are stamped on each partition. Material: aluminum.

Tech. Code		P228600	P228601	P228602	P228603
Dimension	mm	201 x 27	201 x 50	201 x 75	201 x 125
Drawer height	mm	50	75	100 - 125	150

Tech. Code		P228604	P228605	P228606
Dimension	mm	201 x 175	201 x 225	201 x 275
Drawer height	mm	200	250	300

METAL DIVIDERS 18 E

ITEM: P2287



Metal dividers that allow, together with the slotted partitions, an even more precise division of the drawers.The labeling part is full-length and is used to accommodate the tabs to support the bar code holders.The lower bended part allows a screwing of the dividing partition to the perforated bottom of the drawers.The dimensions are stamped on each partition. Material: aluminum.

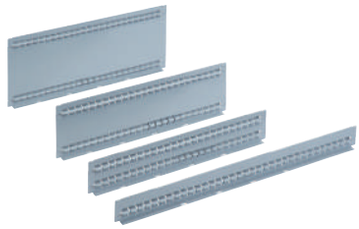
Tech. Code		P228700	P228701	P228702	P228703
Dimension	mm	303 x 27	303 x 50	303 x 75	303 x 125
Drawer height	mm	50	75	100 - 125	150

Tech. Code		P228704	P228705	P228706
Dimension	mm	303 x 175	303 x 225	303 x 275
Drawer height	mm	200	250	300

SLOTTED PARTITIONS 36 E

ITEM: P2283

Slotted partitions on both sides, for the longitudinal and transversal division of the drawers. Slots as for the drawer dividers in 17 mm units. The lower bend allows a screwing of the partition to the perforated bottom of the drawers. Made of sheet steel. Fixing material included.



Tech. Code		P228300	P228301	P228302	P228303
Dimension	mm	610 x 50	610 x 50	610 x 75	610 x 125
Drawer height	mm	50	75	100 - 125	150

Tech. Code		P228304	P228305	P228306
Dimension	mm	610 x 175	610 x 225	610 x 275
Drawer height	mm	200	250	300

ANTI-SLIP MATS FOR DRAWERS

ITEM: P2279

Anti-slip mats for drawers for the safe storage of delicate items. To be inserted on the bottom of the drawer.
PVC / nylon mesh mats.
Anthracite color.



Tech. Code		P227900	P227901	P227902
Dim. drawer	mm	450 x 600 x 3	600 x 600 x 3	900 x 600 x 3

FOAM INSERTS

ITEM: P2280

Modular inserts in expanded foam material very useful for the storage of very delicate items or of irregular shaped parts. Precision smug fit can be achieved with plunge cutters (range P2282). Material: polyethylene-plastic.

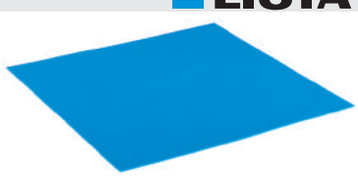


Tech. Code		P228000	P228001	P228002
Dimension	mm	447 x 600 x 22h	600 x 600 x 22h	906 x 447 x 22h
Colour		Black	Black	Black

UNDERLAY FOR FOAM INSERTS

ITEM: P2281

Underlay for foam inserts in expanded material (range P2280).
The blue colour is different from the black colour of the foam inserts, gives greater visibility to the empty foam inserts.
Material: polyethylene-plastic

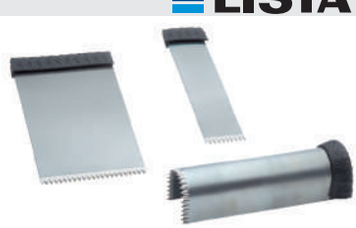


Tech. Code		P228100	P228101	P228102
Dimension	mm	447 x 600 x 3h	600 x 600 x 3h	906 x 447 x 3h
Colour		Blue	Blue	Blue

PLUNGE CUTTER FOR FOAM INSERTS

ITEM: P2282

Plung cutter for foam inserts in expanded material (range P2280). With plunge cutters it is possible to obtain a precise fit for a perfect storage of very delicate articles or of irregular shaped parts.



Tech. Code		P228200	P228201	P228202
Dimension	mm	20 x 80	50 x 80	20 x 20 forma "U"



CABINETS FOR COMPUTERS WITH WHEELS 36 X 36 E

LISTA

ITEM: P3066

Computer cabinets with nylon wheel Ø 100 mm. Equipped with a handle to facilitate any movement.The computer cabinets offer a safe and proven solution. Computer and related hardware and software in the production field must be protected from dust, dirt and unauthorized access. The cabinets are equipped with a monitor compartment with hinged doors with a cylinder lock, a smooth moveable shelf in the monitor compartment, completely removable draws from 75 mm and stoppable in open positions, a cabinet for hardware with doors and lock included, consisting of a 4 socket power connection (230 V) with a switch with a indicator light. Integrated fan. Power cable of 5 m long. Opening in the back part with removable cover.



Tech. Code		P306601	P306602
Dimension	mm	717 x 725 x 1837h	717 x 725 x 1837h
Colour		RAL 5012	RAL 7035

P.....01 **P.....02**

CABINETS FOR COMPUTERS 36X36E

LISTA

ITEM: P3067

Computer cabinets equipped with monitor compartment and hardware cabinet, model without wheels. Monitor compartment and smooth movable shelf, also including a fully extendable 75mm keyboard drawer which can be locked in the open position. Including wardrobe with hinged door, inside the hardware wardrobe there is an electrical power supply system consisting of 4 sockets, switch with indicator light, extractable frame and lock included. Monitor compartment dimensions W x D x H = 710 x 325 x 730mm.



Tech. Code		P306701
Dimension	mm	717 x 725 x 1625
Sockets		D/Schuko
Colour		RAL 5012

COMPUTER CABINETS

Fami

ITEM: P3301

Computer cabinets consisting of 1 pull-out shelf with simple extraction, 1 Schuko power strip with 4 compartments, 1 Wieland SchuKo / FR connection cable, 1 socket support, 1 230 V fan without grid with SchuKo plug, 1 nylon wheel kit Ø 100 mm and 1 tube handle.



Tech. Code		P3301PCR01
Dimension	mm	717 x 635 x 1690h
Colour		RAL 7035

CABINETS WITH HINGED DOORS

ITEM: P3110

Cabinets with hinged doors and 2 shelves depth 500 mm (shelf capacity 120 kg).

Tech. Code		P311050001	P311050002
Dimension	mm	512 x 555 x 1000 h	512 x 555 x 1000 h
Max. capacity	kg	800	800
Colour		RAL 5012	RAL 7035



ITEM: P3111

Cabinets with hinged door with 2 shelves 500 mm deep (120 kg load capacity).

Tech. Code		P3111100001	P3111100002
Dimension	mm	1023 x 555 x 1000 h	1023 x 555 x 1000 h
Capacity	kg	800	800
Colour		RAL 5012	RAL 7035



ITEM: P3140

Cabinet with hinged doors, 4 shelves depth 500 mm (shelf capacity: 120 Kg).

Tech. Code		P3140100001	P3140100002
Dimension	mm	1023 x 555 x 2000 h	1023 x 555 x 2000 h
Capacity	kg	1200	1200
Colour		RAL 5012	RAL 7035

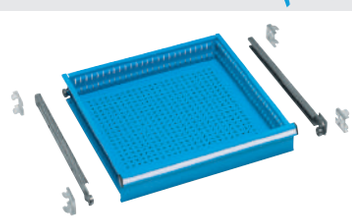


DRAWERS FOR CABINETS

ITEM: P3172

Drawer for cabinets P3110.

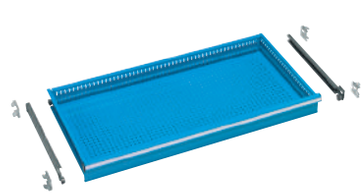
Tech. Code		P317250001	P317250002
Dimension	mm	396 x 447 x 85 h	396 x 447 x 85 h
Capacity	kg	50	50
Colour		RAL 5012	RAL 7035



ITEM: P3174

Drawers for cabinets, capacity 50 kg.
For cabinets P3111 and P3140.

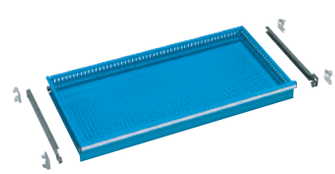
Tech. Code		P3174100001	P3174100002
Dimension	mm	906 x 447 x 85 h	906 x 447 x 85 h
Colour		RAL 5012	RAL 7035



ITEM: P3175

Drawers for cabinets, capacity 100 Kg.
For P3111 e P3140 cabinets.

Tech. Code		P3175100001	P3175100002
Dimension	mm	908 x 449 x 135h	908 x 449 x 135h
Colour		RAL 7035	RAL 5012



CABINETS WITH HINGED DOORS

ITEM: P3053

Cabinets with two doors in sheet metal. The doors close flush with the structure of the cabinet with an opening of about 115 degrees. Maximum stability and high capacity of shelves. Extraordinary characteristics of protection against dirt, liquids and mechanical stress, thanks to the closed cabinet structure, with impact-resistant and wear-resistant surfaces. Equipped with key lock.



Tech. Code		P3053A01	P3053B01
Dimension	mm	1000 x 400 x 1950h	1000 x 500 x 1950h
Shelves		4 x 60kg	4 x 60kg
Colour		RAL 5012	RAL 5012
Load capacity	kg	500	500

P.....01 P.....02 P.....05 P.....06

ADJUSTABLE SHELVES

ITEM: P3057

Adjustable metal shelves with four fixing hooks. Beveled on the length of 4 x 90 degrees 30 mm thick.



Tech. Code		P3057A	P3057B	P3057C	P3057D
Dimension	mm	1000 x 400	1000 x 500	1000 x 400	1000 x 500
Load capacity	kg	60	60	100	100

CABINETS WITH SLIDING DOORS

ITEM: P3056

Cabinets with two sliding doors in solid sheet metal and partition wall. Very silent sliding having ball bearings that slide on the sliding guides. Rotating/pressing cylinder with Key Lock closure, unhinging of the doors impossible. The Lista sliding doors remain in the body of the wardrobe and do not protrude into the passageway.
Supplied assembled.



Tech. Code		P3056A01	P3056B01
Dimension	mm	1500 x 500 x 1950	1500 x 500 x 1000
Shelves	n°	8	4
Colour		RAL 5012	RAL 5012
Shelf capacity	kg	60	60
Capacity	kg	500	500

P.....01 P.....02

PERFORATED LOCKERS

ITEM: P3062

Lockers without substructure with two floors. Key lock closure with key. Compartment width is 300mm. Including 1 integrated solid sheet hinged door and smooth surface, 1 hat shelf, 1 coat rack with 3 sliding hooks each and 1 towel rail.



Tech. Code		P3062A01	P3062B01	P3062C01
Dimension	mm	600 x 500 x 1700	900 x 500 x 1700	1200 x 500 x 1700
Compartment	n°	2 x 2	3 x 2	4 x 2
Colour		RAL 5012	RAL 5012	RAL 5012

P.....01 P.....02

PERFORATED LOCKERS

ITEM: 94.531 - 94.534 - 94.537

Lockers without substructure with perforated compartments that allow greater ventilation during the course of the day. Key lock closure with key. Compartment width is 300mm. Including 1 integrated solid sheet hinged door, 1 hat shelf, 1 coat rack with 3 sliding hooks each and 1 towel rail. Very stable wardrobes thanks to the applied pins and reinforced door for greater security against break-ins.



Tech. Code		P3063A01	P3063B01	P3063C01
Dimension	mm	600 x 500 x 1700	900 x 500 x 1700	1200 x 500 x 1700
Compartments	n°	2	3	4
Colour		RAL 5012	RAL 5012	RAL 5012

P.....01 **P.....02**

CABINETS FOR HEAVY GOODS

ITEM: P3068

Heavy goods cabinets with concealed doors, equipped with adjustable galvanized shelves, 33mm thickness, extractable shelves and drawers usually painted in gray, NCS 4502-B. Concealed doors with bevelled sides on one side, either in solid sheet or with transparent panels. Equipped with hinge bracket, 90 degree rotation angle. Opening doors protrude 85mm. Anti-tipping device thanks to the single ratchet.



Tech. Code		P3068A01	P3068B01
Dimension	mm	1146 x 690 x 1950	1146 x 690 x 1950
Movable shelves		4	2
Extractable shelves		-	2
Colour		RAL 5012	RAL 5012

P.....01 **P.....02**

BATTERY CHARGER CABINETS WITH SWING DOORS

ITEM: P3069

Battery Charger cabinet with hinged doors and galvanized adjustable shelves. Thickness 30mm, capacity 60kg. Painted drawers, anthracite gray RAL 7016, capacity 50 kg. Multi-socket strips with On/Off switch and 4.5 230 V sockets. Perfect cable management thanks to special opening for protected and orderly passage of cable, absolute safety thanks to CE conformity.



Tech. Code		P3069A01
Dimension	mm	1000 x 580 x 1950
Multi-socket adaptors	N	2 x 5 - sockets (230V)
Movable shelves		4
Colour		RAL 5012
Load capacity	kg	500

P.....01 **P.....02**

BATTERY CHARGER CABINETS WITH COMPARTMENTS

ITEM: P3070

Battery cabinets with compartments, connection to the mains to allow charging batteries while the devices are in the cabinet allowing immediate use. Aeration system for optimal air circulation thanks to the ventilation holes on the front and rear, absolute safety thanks to CE conformity. Compartment size 400x400 with modules for 230V and USB. Cabinet with cylinder lock and energy module with double socket type Schuko. Complete wiring CEE7/7.



Tech. Code		P3070A01	P3070B01
Dimension	mm	810 x 585 x 1789	1205 x 585 x 1789
Compartments		8	12
Module		2 x 230V	1 x 230V - 2 x USB
Colour		RAL 5012	RAL 5012

P.....01 **P.....02**

QUALITY STATION

ITEM: P3072

The Quality Station is a useful workstation for reorganizing work, documents and various hardware. Also perfect for carrying out and recording test procedures in the production process. Including plastic shutter, hardware cabinet, cylinder lock, 3m power cord, laminate top, electrification with two-pole and three-pole socket.



Tech. Code		P307201
Dimension	mm	1434 x 725 x 1900
Electric socket		D/Schuko
Colour		RAL 5012

P.....01 **P.....02**

CABINETS WITH SLIDING DOORS

ITEM: P3610

Cabinets with sliding doors and key clyinder lock can be used in many areas thanks to the possibility of storing a wide range of materials, tools, components and documents inside. The multipurpose cabinet features four adjustable shelves and smooth sliding doors.

Composition:
- 2 sets of slotted shelves
- 1 set of 4 adjustable feet
- 1 pair of uprights



Tech. Code		P3610AN01
Dimension	mm	1427 x 598 x 2000 h
Capacity	kg	1200
Weight	kg	110
Colour		RAL 7016
Shelf capacity	kg	100

SAFETY CABINET PPE AND FIRE FIGHTING EQUIPMENT

ITEM: P3182

Safety cabinets PPE consisting of 1 safe crash cabinet with slotted hinged doors, 1 partition wall, 1 pipe kit Ø 22 coat hanger for perforated shelf. 1 Kit 1 shelf perforated panel, 1 kit of 3 slotted shelves.



Tech. Code		P31821
Dimension	mm	1023 x 555 x 2000h
Colour		RAL 3020
Load capacity	kg	800

CLOTHES LOCKERS DIRTY/CLEAN

ITEM: P3311

Dirt/cleaning locker, top shelf at h. 247 mm.from the roof with hanger rod equipped with two galvanised steel "S" hooks. Partition between shelf and bottom. Umbrella/towel rod made of chrome-plated steel rod mounted on the door. Plastic drip tray. Yale-type cylinder lock with double key supplied. Colour RAL7035 grey.
Slits on the top and bottom of the door for proper air circulation and pre-printed card holder.
Declaration of conformity D.Lgs.81/2008, EN UNI ISO 9001, EN UNI ISO 14001, UNI tests on product and finishes.
Product available in 15 working days.



Tech. Code		P33111	P33112	P33113
Places		1	2	3
Dimension	mm	420 x 500 x 1800	810 x 500 x 1800	1200 x 500 x 1800

TRADITIONAL CLOTHES LOCKERS

ITEM: P3321

Changing room locker with upper shelf at h. 247 mm. from roof with hanger rod equipped with two galvanised steel "S" hooks.
Umbrella/towel rod made of chrome-plated steel rod mounted on the door. Plastic drip tray.
Yale-type cylinder lock with double key supplied. Slots on the top and bottom of the door for proper air circulation and pre-printed label holder RAL7035 grey colour.
Declaration of conformity D.Lgs.81/2008, EN UNI ISO 9001, EN UNI ISO 14001, UNI tests on product and finishes.
Product available in 15 working days.



Tech. Code		P33211	P33212	P33213
Places		1	2	3
Dimension	mm	360 x 330 x 1800	690 x 330 x 1800	1020 x 330 x 1800

SAFETY CABINETS FOR PAINTS AND SOLVENTS

ITEM: MG270 - MG271

Two-door safety cabinets with hinged closure, suitable for storing containers for flammable or oxidising liquid substances.Equipped with a collection tank with 38L capacity, a shelf to allow any spills to fall into the collection tank on the bottom.Ventilation system and preparation for fixing to the ground.
The cabinet is built in compliance with the regulations: Directives 89/391C7E, Legislative Decree N.81/2008, ISO 3864



Tech. Code		P31812	P31811
Shelves		3	1
Dimension	mm	1023 x 555 x 2000	1023 x 555 x 1000
Storage capacity	L	114	114
Colour		RAL 2004	RAL 2004

INDUSTRIAL 2-DOOR CABINETS

ITEM: MG208 - MGRP208

Sheet metal cabinet with hinged doors with rod lock and 4 galvanised shelves (load capacity 100 kg).
Powder-coated RAL 7035 grey.



Tech. Code		P31491000
Dimension	mm	1000 x 400 x 2000

2ND LEVEL ELECTRONIC CASHIER 36X36U

ITEM: P2113

Drawer cabinets with electronic opening equipped with customised integrated software for managing access and materials stored inside the drawers.
An efficient, safe and easy-to-use storage system.
Available in Master version (with integrated software) and in Slave version.
Each drawer can be customised with dividers or trays to separate and organise the stored components.
These internal partitioning options allow users to adapt the drawer space to their specific storage needs, maximising order and efficiency within the drawer unit.
USB and HDMI ports allow connection to external devices such as a mouse, keyboard and monitor.
Each drawer has useful internal dimensions of 612x612 mm and height (75, 100, 150, 200 mm).
The total height available to accommodate the drawers is 900 mm.



Tech. Code		P2113700	P2113900
Dimensions	mm	725 x 750 x 1520h	725 x 750 x 1080h
Drawers	n°	7	9
Drawer size	mm	2x75 / 1x100 / 3x150 / 1x200	9x100
Colour		RAL 7016+7035	RAL 7016+7035
Drawer capacity	kg	75	75
Type of unit		MASTER Units	SLAVE Units

MONITOR, KEYBOARD AND MOUSE KIT

ITEM: P2117

Central unit integrated above the drawer unit, both made of sturdy sheet metal.
Monitor adjustable in height and tilt.
USB and HDMI ports for connecting external devices



Tech. Code	P2117700KIT
Type of unit	MASTER Units

CABINET WITH RFID ELECTRONIC LOCK

ITEM: P2116

Electronically lockable locker consisting of 4 adjustable galvanised shelves carrying approximately 65kg.
This configuration replaces the key lock with an RFID reader, requiring rotation of the knob after presentation of the badge.
Requires counter-clockwise rotation for locking.
Powered by non-rechargeable AA battery and fitted with low battery LED indicator.
Badge and access management.

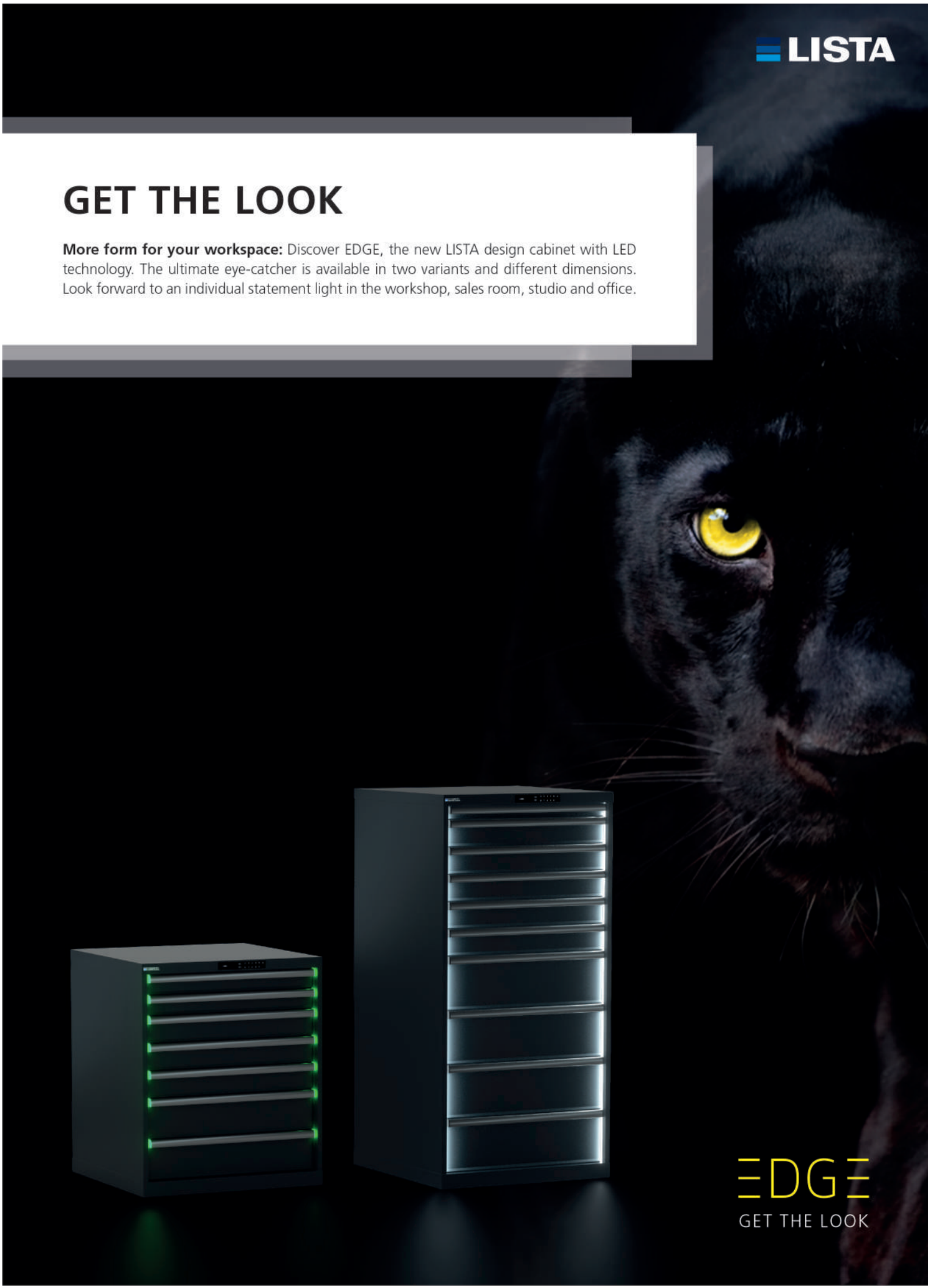


Tech. Code		P2116100
Dimensions	mm	1023 x 555 x 2000 h
Shelves		4 x 65kg
Colour		RAL 7035 + 7016

LISTA

GET THE LOOK

More form for your workspace: Discover EDGE, the new LISTA design cabinet with LED technology. The ultimate eye-catcher is available in two variants and different dimensions. Look forward to an individual statement light in the workshop, sales room, studio and office.



HANGING CABINETS FOR SMALL PARTS

ITEM: P4120

Grey RAL 7001

Tech. Code		P412024	P412030	P412075	P412095
Dimension	mm	600 x 120 x 600h	600 x 120 x 600h	600 x 120 x 1800h	600 x 120 x 1800h
Compartments		24	30	76	95
Comp. for row		4	5	4	5



DOUBLE-SIDED TROLLEYS WITH WOLF-MOUTH CONTAINERS

ITEM: P4113

Container trolleys equipped with 2 fixed non-marking synthetic rubber wheels Ø 125 mm and 2 swivel wheels with brakes, non-marking synthetic rubber wheels Ø 125 mm, set of 5 profiles with 90 containers size 1 and set of 4 profiles with 48 containers size 2.
Maximum trolley load 300 kg.

Tech. Code		P41131
Dimension	mm	1067 x 668 x 1357 h
With Containers		Yes
Colour		Painted sheet metal, anthracite grey (RAL 7016)



TROLLEY WITH TRANSPARENT DRAWERS

ITEM: P4241

The trolleys with transparent drawer units is an ideal solution for safe storage and handling of small components. The drawers on both side of the trolley are transparent for quick identification of the contents and have a tilting openeing which makes access to the material optimal.

SUPPLIED DISASSEMBLED

Tech. Code		P42410102
Dimension	mm	761 x 668 x 1357 h
Capacity	kg	300
Weight	kg	48
Colour		RAL 7016



PRACTIBOX STORAGE CABINETS

ITEM: P4119

Practibox storage cabinets that allow you to always have the content at hand and in clear view, making it easily withdrawable.
Cabinets consisting of 15 shelves and 9 stops.

Cabinet capacity 500 kg
Shelf load capacity 50 kg

Security: for safety purposes, the cabinets must be fixed to the floor or to the wall.

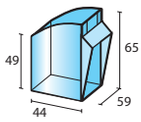
Tech. Code		P411972B	P411982B
Dimension	mm	700 x 270 x 2000	700 x 270 x 2000
Containers	n°	82	82
Type		-	whit door
Colour		RAL 5012	RAL 5012



ITEM: P4210

ABS structure, transparent polystyrene drawers with high mechanical resistance, convenient front opening, grey RAL 7000 structure.

Tech. Code	Drawers	Dimension mm
P42109	9	600 x 69 x 77h

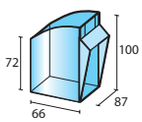




ITEM: P4215

ABS structure, transparent polystyrene drawers with high mechanical resistance, convenient front opening, grey RAL 7000 structure.

Tech. Code	Drawers	Dimension mm
P42156	6	600 x 98 x 112h

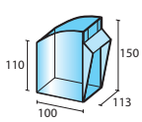




ITEM: P4220

ABS structure, transparent polystyrene drawers with high mechanical resistance, convenient front opening, grey RAL 7000 structure.

Tech. Code	Drawers	Dimension mm
P42205	5	600 x 141 x 164h

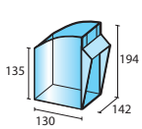




ITEM: P4225

ABS structure, transparent polystyrene drawers with high mechanical resistance, convenient front opening, grey RAL 7000 structure.

Tech. Code	Drawers	Dimension mm
P42254	4	600 x 174 x 206h

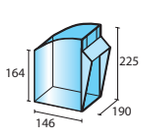




ITEM: P4230

ABS structure, transparent polystyrene drawers with high mechanical resistance, convenient front opening, grey RAL 7000 structure.

Tech. Code	Drawers	Dimension mm
P42303	3	600 x 209 x 240h

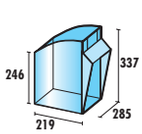




ITEM: P4235

ABS Practibox storage cabinet with convenient front opening, grey RAL 7000.

Tech. Code	Drawers	Dimension mm
P42352	2	600 x 311 x 353h

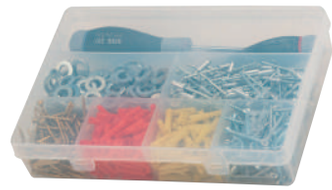




ITEM: P4350

Transparent organizer with 7 fixed compartments.

Tech. Code	Dimension mm
P4350SC7	268 x 180 x 53h



ITEM: P4355

Transparent organizer with 9 fixed compartments.

Tech. Code	Dimension mm
P4355SC9	245 x 143 x 38h



ITEM: P4360

Organizer with 16 fixed compartments, blue case and transparent cover.

Tech. Code	Dimension mm
P4360SC16/1	243 x 186 x 38h



ITEM: P4365

Organizer with 10 fixed compartments, blue case and transparent cover.

Tech. Code	Dimension mm
P4365SC10	243 x 186 x 38h



ITEM: P4368

Organizer with 12 fixed compartments, blue case and transparent cover.

Tech. Code	Dimension mm
P4368SC12	345 x 252 x 55h



ITEM: P4370

Organizer with 5 fixed compartments and 12 repositionable dividers, integrated strong and ergonomic handle, black case and transparent cover with double lock.

Tech. Code	Dimension mm
P4370SC16/2	395 x 305 x 60h



ITEM: P4375

Organizer with 5 fixed compartments and 12 repositionable dividers, integrated strong and ergonomic handle, black case and transparent cover with double lock.

Tech. Code	Dimension mm
P4375SC24	510 x 330 x 60h



MODULAR DRAWERS

ITEM: P4330

Stackable dovetail modular drawer with 16 drawers and 10 movable sections, handles for transport, grey casing, transparent drawers, drawers width 57mm.



Tech. Code	Dimension mm
P4330CAS16	279 x 150 x 195h

ITEM: P4340

Stackable dovetail modular drawer with 25 drawers and 20 repositionable sections, handle for transport, grey casing, transparent drawers, 20 drawers width 57 mm and 5 width 121 mm.



Tech. Code	Dimension mm
P4340CAS25	405 x 150 x 240h

VISION STORAGE CABINETS

ITEM: P4270

Plastic structure with joints for more cabinets, transparent drawers with front label holder, dark grey casing.



Tech. Code	Type	Drawers	Dimension mm
P42701	12	16	208 x 132 x 208h
P42702	13	8	208 x 132 x 208h
P42703	14	4	208 x 132 x 208h

ITEM: P4275

Plastic structure with joints for more cabinets, transparent drawers with front label holder, dark grey casing.



Tech. Code	Type	Drawers	Dimension mm
P42751	15	8	208 x 222 x 208h
P42752	16	4	208 x 222 x 208h
P42753	17	4	208 x 222 x 208h

ITEM: P4280

Plastic structure with joints to assemble more adjacent cabinets, transparent drawer units with front label holder, dark grey/transparent.



Tech. Code	Type	Drawers	Dimension mm
P42801	19	2	249 x 366 x 250h
P42802	19/2	4	249 x 366 x 250h

ITEM: P4285

Plastic structure with joints to assemble more adjacent cabinets, transparent drawer units with front label holder, dark grey/transparent.



Tech. Code	Type	Drawers	Dimension mm
P42851	21	8	249 x 310 x 375 h

UNIONBOX PLASTIC CONTAINERS

ITEM: P4320

High mechanical resistance, superimposable and hookable together by joints on three sides, label holder frame, green.



Tech. Code	Size	Dimension mm
P4320A	A	104 x 165 x 76h
P4320B	B	147 x 234 x 129h
P4320C	C	218 x 234 x 129h
P4320D	D	210 x 341 x 167h
P4320E	E	307 x 500 x 190h
P4320F	F	388 x 610 x 250h

COMPACT CONTAINERS

ITEM: P4310

Plastic containers, high impact resistance, sturdy edge allowing stacking, label holder frame.



Tech. Code		P43101G	P43102G	P43103A2G	P43103G	P43104G
Size		1	2	3A2	3	4
Dimension	mm	95 x 160 x 75 h	150 x 230 x 125 h	200 x 350 x 145 h	200 x 350 x 200 h	310 x 500 x 200 h
Colour		Grey	Grey	Grey	Grey	Grey

Tech. Code		P43101N	P43102N	P43103A2N	P43103N	P43104N
Size		1	2	3A2	3	4
Dimension	mm	95 x 160 x 75 h	150 x 230 x 125 h	200 x 350 x 145 h	200 x 350 x 200 h	310 x 500 x 200 h
Colour		Green	Green	Green	Green	Green

Tech. Code		P43101R	P43102R	P43103A2R	P43103R	P43104R
Size		1	2	3A2	3	4
Dimension	mm	95 x 160 x 75 h	150 x 230 x 125 h	200 x 350 x 145 h	200 x 350 x 200 h	310 x 500 x 200 h
Colour		Red	Red	Red	Red	Red

Tech. Code		P43101B	P43102B	P43103A2B	P43103B	P43104B
Size		1	2	3A2	3	4
Dimension	mm	95 x 160 x 75 h	150 x 230 x 125 h	200 x 350 x 145 h	200 x 350 x 200 h	310 x 500 x 200 h
Colour		Blue	Blue	Blue	Blue	Blue

ZEUS CONTAINERS WITH SMOOTH BOTTOM

ITEM: P4312

The P4312 containers are handy, light and easy to clean thanks to the perfectly smooth interior, they are equipped with a sturdy edge that allows overlapping in a stable and safe way.



Tech. Code		P4312272G	P43122723A2G	P43122724A2G	P43122724G
Size		272-2	272-3A2	272-4A2	272-4
Dimension	mm	211 x 148 x 126h	310 x 210 x 145h	465 x 315 x 120h	465 x 315 x 200h
Colour		Grey	Grey	Grey	Grey

Tech. Code		P4312272N	P43122723A2N	P43122724A2N	P43122724N
Size		272-2	272-3A2	272-4A2	272-4
Dimension	mm	211 x 148 x 126h	310 x 210 x 145h	465 x 315 x 120h	465 x 315 x 200h
Colour		Green	Green	Green	Green

CONTAINERS RK

ITEM: P4300

Containers made of first choice polypropylene, the RK series containers have walls reinforced by special ribs to resist shocks.



Tech. Code		P430012400	P430016400	P430024400
Dimension	mm	120 x 400 x 100	160 x 400 x 100	240 x 400 x 100
Weight	g	438	644	540

Tech. Code		P430012500	P430016500	P430024500
Dimension	mm	120 x 500 x 100	160 x 500 x 100	240 x 500 x 100
Weight	g	448	528	766

TRANSVERSAL PARTITION RK

ITEM: P4302

Dividers made of transparent polystyrene, the dividers allow the internal subdivision of the containers into several compartments.



Tech. Code		P4302120	P4302160	P4302240
By width	mm	120	160	240

PLASTIC BOXES - NEXIT

ITEM: NX6412A5101 - NX6417B5101 - NX6422B5101

Extremely robust stackable plastic boxes with smooth bottom. The smooth bottom makes them light and easy to handle. Size suitable for euro standard, ideal for logistics. The internal radius of curvature of the handles provides a high level of comfort and a safe grip during manual handling.



Tech. Code		P4314120	P4314170	P4314220
Dimension	mm	600 x 400 x 120	600 x 400 x 170	600 x 400 x 220
Weight	kg	1,44	1,67	1,9
Volume	l	23,9	34,2	44,5
Colour		Grey	Grey	Grey

WALL SHELVING FOR DRAWERS

iMilani

ITEM: P4316

Empty wall shelves for Practibox drawer units, made of painted sheet steel.



Tech. Code		P431601	P431602
Dimension	mm	600 x 41 x 1500 h	600 x 41 x 1950 h
Colour		RAL 7000	RAL 7000
Type		Shelving	Shelving

PLASTIC BOXES - NEXIT

iMilani

ITEM: NX4312A5101 - NX4317B5101 - NX4322B5101

Extremely robust stackable plastic boxes with smooth bottom. The smooth bottom makes them light and easy to handle. Size suitable for euro standard, ideal for logistics. The internal radius of curvature of the handles provides a high level of comfort and a safe grip during manual handling.



Tech. Code		P4315120	P4315170	P4315220
Dimensions	mm	400 x 300 x 120	400 x 300 x 170	400 x 300 x 220
Weight	kg	0,76	0,89	1,14
Volume	l	11,3	16,1	20,9
Colour		Grey	Grey	Grey

LONGITUDINAL PARTITIONS COMPAT. BOX

iMilani

ITEM: P4318

Partitions made of plastic that allow material to be divided longitudinally.
Can only be used with Compat model.



Tech. Code		P4318CDC4	P4318CDC3	P4318CDC3A2
Dimension	mm	460 x 160	305 x 106	300 x 105
Compatible Compat model		Measurement 4	Measurement 3	Measurement 3A2
Colour		Black	Black	Black

MOTION TROLLEY

iMilani

ITEM: P4440

Trolleys made of high impact polypropylene, with the possibility of being stacked when not in use. Thanks to a simple connection system, it is possible to create rows of trolleys with a single movement. Available as standard with Ø 100mm black nylon wheels. **Recommended only for codes P4415 and P4425.**



Tech. Code		P444010
Dimension	mm	594 x 396 x 173h
Load capacity	kg	250
Weight	kg	3,54

METAL CONTAINERS

ITEM: P4410

Painted metal sheet container, lifting stud, perpendicular block handle, label holder frame, grey RAL 7000.

Tech. Code		P4410140	P4410200	P4410300	P4410450
Dimension	mm	140 x 230 x 130h	200 x 350 x 200h	300 x 500 x 200h	450 x 700 x 300h
Weight	kg	1,90	2,10	3,40	9,42



ITEM: P4420

Painted metal sheet container, double perpendicular block handle, label holder frame, grey RAL 7000, size 272-3 and size 272-4.

Tech. Code		P4420200	P4420300	P4420500
Dimension	mm	300 x 200 x 200 h	450 x 300 x 200 h	680 x 450 x 300 h
Weight	kg	2,3	4,05	8,1

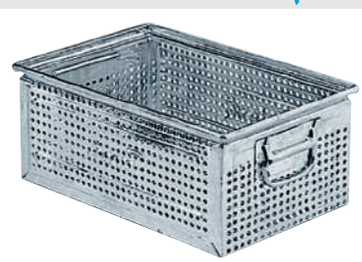


PERFORATED GALVANIZED STEEL CONTAINERS

ITEM: P4430

Perforated galvanized steel drawer, size 272-4.

Tech. Code		P443007	P443010
Dimension	mm	450 x 300 x 200 h	450 x 300 x 200 h
Hole Ø	mm	7	10



CRATES RL-KLT

ITEM: P4439

Stackable crates RL-KLT with standard euro dimensions for automotive logistics.
Good resistance to oils, various possibilities for automated handling, sturdy ergonomic handles, excellent level of safety and resistance, smooth bottom for silent sliding on the belts, bottom with holes for water drainage.

Tech. Code		P4439147	P4439280
Dimension	mm	600 x 400 x 147	600 x 400 x 280
Colour		Blue	Blue

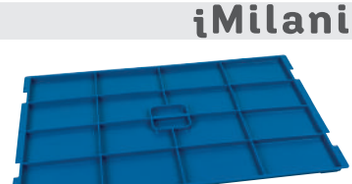


CRATE COVERS RL-KLT

ITEM: P4441

Crate covers in PP lid for RL-KLT

Tech. Code		P4441600
Dimension	mm	600 x 400
Colour		Blue



TILTABLE BUCKETS FOR SCRAP

ITEM: WX9900

Fork mounted structure with fork lift; simple and safe automatic emptying of the container through the tilting lever without getting off the forklift truck; watertight collection tank with sheet metal filter for the separation of liquids and solids and ball drain cock. Compliant with European standards, blue RAL 5004.
The scrap buckets are supplied without a release lanyard.



Tech. Code		P4511280	P4511300	P4511500
Model		lt - 280	lt - 300	lt - 500
Capacity	kg	600	600	1000
Weight	kg	80	102	130
A x B x C	mm	970 x 750 x 890	1350 x 820 x 650	1350 x 920 x 910
D	mm	700	490	700
E	mm	790	520	740
Inclination	°	25.1	63.5	57.6
Faucet		lateral	frontal	front

Tech. Code		P4511750	P45111000
Model		lt - 750	lt - 1000
Capacity	kg	1350	1700
Weight	kg	152	181
A x B x C	mm	1350 x 1070 x 1040	1550 x 1070 x 1210
D	mm	825	970
E	mm	800	920
Inclination	°	49.6	54
Faucet		frontal	frontal

ASSISTED TIPPING CONTAINERS

ITEM: WX9890

Automatically tipping containers, manually operated.
The automated system allows complete tipping of the container and subsequent return to the initial position.
Equipped with a rear release handle that allows the container to tip over when pressed against another surface.
Unlocking handle that can be manually operated by the operator, allows the tank to be tipped up to 65°.
The forage box is also equipped with a storage compartment for the safety chain.
Fork box size: 230 X 100 H
Design designed to allow stacking of the container to optimise transport.



Tech. Code		P4512550	P4512750	P45121000
Model		lt - 550	lt - 750	lt - 1000
Scope	kg	750	1000	1500
Weight	kg	125	135	165
A x B x C	mm	1416 x 1000 x 1102	1417 x 1295 x 1102	1600 x 1295 x 1252

CONTAINERS WITH OPENABLE BOTTOM

ITEM: P4520

The best solution to facilitate the collection and unloading of waste and scrap. Simple and safe automatic emptying, Lifted by forklift truck; easy unload by the operator using a lever to empty the entire content without getting off the forklift truck. Standard unloading opening dimensions with open bottom mm 420.



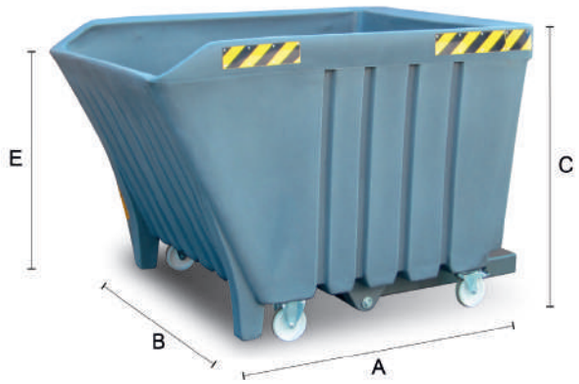
Tech. Code		P45201B	P45202B	P45203B
A	mm	1000	1000	1000
B	mm	800	800	800
C	mm	650	1000	1300
D	mm	110	110	110
E	mm	110	110	110
Load capacity	kg	2000	2000	2000
Colour		RAL 5010	RAL 5010	RAL 5010

POLYETHILENE SCRAP HOLDERS

ITEM: P4515

High density polyethylene scrap holder suitable to transport particular types of waste and scrap, Watertight. Equipped with a release and tilting mechanism with ropes that ensures the unloading process without leaving the forklift truck.
Fitted with two gas-charged shock absorber and a steel "end-stop" mechanism to ensure a controlled and gradual tilting to prevent damages during the emptying phases. Sturdy construction and easy to handle, Forklift jackets and bucket support base made of sheet steel metal for high resistance, Equipped with 2 fixed & 2 swivel castors with brakes.

Tech. Code		P45151000
A	mm	1650
B	mm	1190
C	mm	1075
E	mm	955
Capacity	L	1000
Load capacity	kg	1000



MINI SERIES TROLLEYS WITH 2 TRAYS

ITEM: P5135

Mini series trolleys with welded tubular structure, 4 swivel wheels without brake.

Tech. Code		P51350101	P51350102
Dimension	mm	555 x 445 x 845 h	555 x 445 x 845 h
Wheel Ø	mm	100	100
Capacity	kg	150	150
Weight	kg	11	11
Colour		RAL 5012	RAL 7035



TROLLEYS WITH 3 TRAYS

ITEM: P5315

Trolleys with three trays, completely dismountable with tubular metal handles. 2 fixed and 2 swivel rubber wheels (one with a brake) supplied assembled. Grey RAL 7035.

Tech. Code		P5315202
Dimension	mm	1028 x 615 x 846 h
Wheel Ø	mm	125
Tray capacity	kg	100
Weight	kg	29.32
Colour		RAL 7035



WORK TROLLEYS WITH 2 TRAYS

ITEM: P5332

Monobloc work trolleys with 2 shelves Ø 125mm wheels, 2 of which are swivel and 2 are fixed. Max capacity trolley 300 Kg.
Blue colour Ral 5015

Tech. Code		P533201
Dimension	mm	920 x 600 x 840
Tray capacity	kg	100



PLATFORM TROLLEYS

ITEM: FCEB1050304 - FCEB1050308

Platform trolley with two fixed and 2 swivel rubber wheels Ø 125mm.

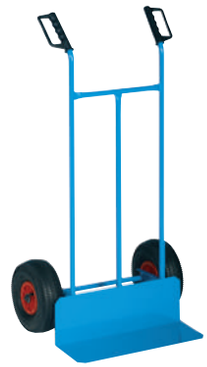
Tech. Code		P5410101	P5410102
Dimension	mm	1135 x 700 x 915 h	1135 x 700 x 915 h
Capacity	kg	250	250
Weight	kg	22.96	22.96
Colour		RAL 5012	RAL 7035



VERTICAL TRANSPORT TROLLEYS

ITEM: P5421

Multipurpose trolley ideal for handling various types of products.
With a sturdy structure and absolute practicality. Plastic handle with anti-crushing protection.
Colour RAL 5015



Tech. Code		P542101	P542102
Dimension	mm	500 x 380 x 1100	500 x 470 x 1100
Wheels Ø	mm	200	260
Wheel type		Rubberized nylon	Pneumatic
Load capacity	kg	200	200
Shovel size	mm	450x155	500x165

SMALL CYLINDER TROLLEYS

ITEM: P5431

Small cylinder trolleys, Wheels Ø 200 mm. Colour RAL 5015.



Tech. Code		P543101
Dimension	mm	420 x 340 x 940
Load capacity	kg	200

TROLLEYS WITH 3 SHELVES

ITEM: WX9402

Premium Quality 3-shelf trolleys made of sheet steel with RAL 5004 blue epoxy paint finish and tubular steel handle Ø 25 mm.
The shelves are provided with an edge to prevent material from falling during handling.
Standard equipment:
- a rubber mat to be placed on the top shelf
- non-marking rubber wheels Ø 125 mm, 2 fixed and 2 swivel with brake.

The trolleys are supplied disassembled

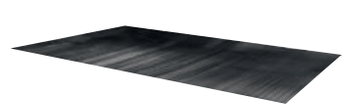


Tech. Code		P543501
Dimension	mm	1028 x 615 x 846
Capacity	kg	300
Weight	kg	35

RUBBER MAT

ITEM: WX9401

Rubber mat accessory for WX9400 trolley.
Good mechanical properties.
Black colour



Tech. Code		P543401
Dimension	mm	925 x 605

CYLINDER TROLLEYS

ITEM: P5441

Cylinder trolleys, equipped with tool box. Wheels Ø 250 mm. Suitable for Ø 250 lt.40.
Colour RAL 5015.



Tech. Code		P544101
Dimension	mm	500 x 450 x 1400
Load capacity	kg	250

LARGE TROLLEYS

ITEM: P5610

Trolleys supplied **disassembled** consiting of: 1 wooden top, 1 perforated rear panel, 1 pair of uprights for panel fixing, 2 perforated side panels, 1 kit of non-marking synthetic rubber wheels Ø 125 mm, 1 roll holder kit with paper. Ø 240/300 mm, 2 kits 10 magnets Ø 20 mm, 1 container hooking bar with 3 containers mis 2, 1 large reversible shelf, 1 6-piece spray can holder and 2 inclined 2-piece silicone holders.

Tech. Code		P561001	P561002
Dimension	mm	1024 x 615 x 1540h	1024 x 615 x 1540h
Colour		RAL 7035	RAL 5012
Load capacity	kg	300	300
Weight	kg	50	50



TROLLEY IN SHEET METAL WITH NET SIDES

ITEM: P5613

Sturdy trolley that can be dissasembled closed on 3 sides by an electro-welded mesh with a 50 x 50 x 4 mesh which defines its very important protective and anti-falling function.
Wheels ø mm. 200 with bearings (2 fixed and 2 swivel).
It has 4 practical extractable shelves measuring 1096 x 647 mm, in sheet metal th. 8/10 with 2 reinforcements.
Platform dimensions: 1100 x 650 mm

Tech. Code		P5613100
Dimension	mm	1320 x 670 x 1770 h
Capacity	kg	450
Colour		RAL 7038



UNIVERSAL SHELVING L1006

ITEM: P6308

Galvanized universal shelving. Quick and easy to assembly with an interlocking system for all elements and shelves, without the need for screws.
Can always be adapted to new items to be stored thanks to the flexibility of installation and rearrangement of shelves, drawers and individual elements with a 25 mm pitch.
Height of shelf edges only 25 mm to make the most of the shelves.

Tech. Code		P630800	P6308A00
Dimension	mm	1000 x 400 x 2000	1000 x 400 x 2000
Shelves	n°	5 x 160 Kg	5 x 160 Kg
Description		Universal shelving	Additional bay
Capacity	kg	2800	2800



UNIVERSAL SHELVING L1006 WITH FULL SIDED WALL PANELS

ITEM: P6309

Universal shelves galvanized version with solid sheet sided panels. Quick and easy to assembly with an interlocking system for all the elements and shelves, without the use of screws. Always adapatable to new items to be stored thanks to the flexibility of installation and modification of the shelves, drawers and individual elements with a 25 mm pitch. Height of shelves edges of only 25 mm to make the most of the shelves. .

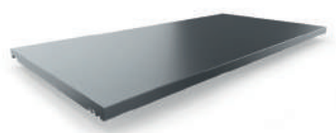


Tech. Code		P630900	P6309A00
Dimension	mm	1000 x 400 x 2000	1000 x 400 x 2000
Shelves	n°	5 x 160 Kg	5 x 160 Kg
Description		Universal shelves	Additional span
Range span	kg	1000	1000

PLAIN ADJUSTABLE SHELVES

ITEM: P6311

Plain galvanized shelves. With fixing hooks included. 25 mm shelf thickness in sheet steel.

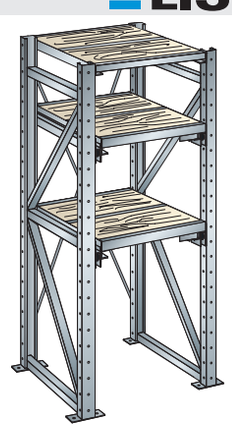


Tech. Code		P6311A	P6311B
Dimension	mm	1000 x 400	1000 x 400
Load capacity	kg	160	220

SHELVING WITH EXTRACTABLE SHELVES FOR HEAVY GOODS

ITEM: P6400

Shelves with pull-out shelves for heavy goods, with 2 pull-out frames (up to 65%) and a fixed frame as top shelf, each including pressed chipboard inserts, 40 mm thick. Possible tools with sided panels, additional removable and fixed frames, covers, sliding doors, shutters and bumpers for uprights. Base span including a diagonal pair for longitudinal stabilization, 2 support frames, ground anchorage and leveling plate set. Additional span including a support frame, ground anchor and leveling plate set. Drill holes in the uprights every 100 mm. Made of sheet steel.



P.....01 | P.....02

Tech. Code		P6400A01	P6400AC01	P6400B01	P6400BC01
Dimension	mm	890 x 860 x 2000	890 x 860 x 2000	1290 x 860 x 2000	1290 x 860 x 2000
Fixed frame		1	1	1	1
Removable frame		2	2	2	2
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012
Description		Complete rack	Additional span	Complete rack	Additional span
Frame capacity	kg	1000	1000	1000	1000
Load capacity	kg	9000	9000	9000	9000

Tech. Code		P6400C01	P6400CC01	P6400D01	P6400DC01
Dimension	mm	1260 x 890 x 2000	1260 x 890 x 2000	1290 x 1260 x 2000	1290 x 1260 x 2000
Fixed frame		1	1	1	1
Removable frame		2	2	2	2
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012
Description		Complete rack	Additional span	Complete rack	Additional span
Frame capacity	kg	800	800	800	800
Load capacity	kg	9000	9000	9000	9000

SHELVING WITH DRAWS 54X36E

ITEM: P6307

Ideal solution for large items weighing up to 200 kg per drawer, pull-out shelves for housing flush with the surface. Can also be used for storing NC tools. The shelving comes with 3 universal shelves, 2 pull-out shelves, 7 drawers (1x50 / 1x75 / 1x100 / 1x125 / 1x150 e 2x200 mm),1 rear wall, 2 side walls. Closure with KEY lock.
Possibility to modulate it by adding items from the List Catalog at will.

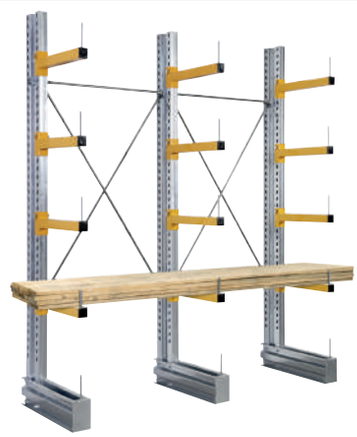


Tech. Code		P630700
Dimension	mm	1117 x 706 x 2200
Colour		RAL 7035 + RAL 5012
Shelves capacity	kg	250
Capacity of pull-out shelves	kg	200

LIGHT SINGLE-SIDED CANTILEVER

ITEM: P6720

Single-sided cantilever kit, made up of 3 single-sided columns 2500mm and 4 shelves, columns distance between 1000mm, equipped with load holding pegs on the shelf tips and bases including fasteners and load chart. The cantilever is made up of:
- Single-sided colunm H2500 galvanized disassembled
- Base with holes for continuous surface complete with profiles+plates+ screws+dowels
- RAL 1033 yellow shelf with locking pin+cap
- Galvanized cross 1400x1000 disassemble column axis with screws
- Galvanized load retaing pegs 160xØ10 with M10x19 bushing
-PVC chart 180x594 and relative metal support PVC 180x510



Tech. Code		P6720KCS5	P6720KCS7
Dimension	mm	2100 x 680 x 2500	2100 x 880 x 2500
Load capacity	kg	690	480
Shelf capacity	kg	230	160
Single-sided column cap.	kg	1350	1095
Colour cantilever		Zinc	Galvanized zinc
Colour shelves		Yellow RAL 1033	Yellow RAL 1033

PALLET RACKS LIGHT SERIES

ITEM: P6721

The P6721 pallet rack series responds with versatility to every need and also guarantees good load capacity and safety in use.
Supplied in crate, all disassembled.
Composed of:
- M60I galvanized abutment mm h2500
- M60I mm. yellow RAL1033
- Galvanized shelf M60I-M110
- Dowel M10 x 95
- A4 pvc chart



Tech. Code		P6721PPL6	P6721PPL8	P6721MOD1	P6721MOD2
Dimension	mm	2220 x 600 x 2500	2220 x 800 x 2500	2160 x 600 x 2500	2160 x 800 x 2500
Load capacity	kg	850	850	850	850
Colour		Galvanized zinc	Galvanized zinc	Galvanized zinc	Galvanized zinc
Description		Shelves	Shelves	Add-on-module	Add-on-module

PALLET RACKS HEAVEY SERIES

ITEM: P6722

This system was created to meet the need to organise, store and stack at height (with different capacities), using front, side, reach, satellite forklift trucks or stacker cranes. The structural components of the storage system built with steel supplied with type 3.1 inspection certificates according to standard EN 10204; indications for use and maintenance in compliance with the UNI EN 15635 standard.
Composed of:
- Shoulder M110/80 3000 mm galvanized zinc
- Max capacity 8000 kg
- M110 shaped beam with connector
- Chart PVC A4
- Galvanized zinc M12x140 dowel



Tech. Code		P6722PP1	P6722PMOD1	P6722PP2	P6722PMOD2
Dimension	mm	1990 x 1000 x 3000	1900 x 1000 x 3000	2890 x 1000 x 3000	2800 x 1000 x 3000
Load capacity	kg	2990	2990	2300	2300
Colour		Galvanized zinc	Galvanized zinc	Galvanized zinc	Galvanized zinc
Description		Shelves	Add-on-module	Shelves	Add-on-module

BOLTLESS SHELF RACKS

ITEM: P6723

The boltless shelf racks are a static storage system that guarantees extreme modularity, versatility and accessories.
Composed of:
- Mounts grey RAL 7038 mm.h2495
- RAL 7038 grey crossbar
- Foot/top cap in PVC
- Grey RAL 7038 top mm.1200 - Capacity kg.150
- Galvanized hook
- Adhesive label mm.80x25

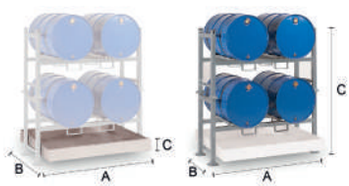


Tech. Code		P6723SG1	P6723MA1	P6723SG2	P6723MA2
Dimension	mm	1200 x 500 x 2500	1200 x 500 x 2500	1200 x 600 x 2500	1200 x 600 x 2500
Shelf capacity	kg	150	150	150	150
Colour		RAL 7038	RAL 7038	RAL 7038	RAL 7038
Description		Shelves	Add-on module	Shelves	Add-on module

STORAGE SUPPORTS AND TRANSFER STATIONS

ITEM: WX9901

Drum holder for 2 drums, stackable. Galvanised steel drum tray.
Indicative photo.

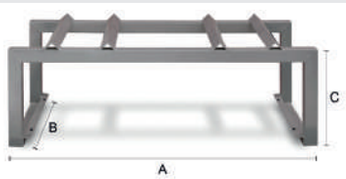


Tech. Code		P6800VASCA	P6800F2
Description		Spill pallet	Uprights
A	mm	1390	1500
B	mm	1160	550
C	mm	170	850
Storage capacity		-	2 drums of 200 L
Load capacity	l	270	-

DRUM STORAGE SUPPORTS

ITEM: WX9902

Horizontal supports for storing drums in RAL 7001 grey colour.



Tech. Code		P6801F1	P6801F2
A	mm	600	1180
B	mm	600	600
C	mm	380	380
Storage capacity		1 drum of 200 L	2 drums of 200 L

DRUM HOLDER TROLLEYS

ITEM: WX9903

Conceived specifically for handling within the company, the drum holder trolley allows the vertical and horizontal storage, with the use of special options, of 1 or 2 drums. Grey colour RAL 7001.
It is equipped with a push handle, two fixed wheels and two pivoting wheels with brakes.
Compliant with the International Standard UNI EN ISO3834-2:2021



Tech. Code		P6802F1	P6802F2
A	mm	860	1340
B	mm	860	850
C	mm	1170	1170
Storage capacity		1 Vertical drum	2 Vertical drums or 1 horizontal drum

SPILL PALLETS IN STEEL WITH INCLINED SUPPORT FOR CISTERNS

ITEM: WX9906

Spill pallets complete with inclined support in steel for the storage of 1000 L cisterns. Pressed galvanized grating, mesh 44x33, height 30 mm. Colour grey RAL 7001.
Compliant with the International standard UNI EN ISO 3834-2:2021



Tech. Code		P6805C1S
A	mm	1340
B	mm	1650
C	mm	1110
Storage capacity		1 cistern of 1000 L
Collection volume	l	1000
Capacity	kg	1200

SPILL PALLETS WITH POLYETHYLENE INTERIOR FOR 1000 L CISTERNS

ITEM: WX9907

Watertight carbon steel spill pallets according to UNI 10025 with internal polyethylene lining for storage according to standard of a 1000 L cisterns. Used to protect the aquifers in case of accidental spills of dangerous and polluting substances, this secondary containment system is able to prevent and reduce potentially polluting situations. Grey in colour RAL 7001.
Technical data plate and safety labeling according to Legislative **Decree n.81 of 9 April 2008**
Execution according to **Welding Procedure Specification according to UNI EN 15609-1**



Tech. Code		P6806C1
A	mm	1085
B	mm	1655
C	mm	730
Storage capacity	kg	1 cistern of 1000 L
Collection volume	l	1000
Capacity	kg	1000

POLYETHYLENE SPILL PALLETS FOR DRUMS

ITEM: WX9908

Tanks that can be handled with a forklift or transpallet truck thanks to the special slots for the forks created by shaping the bottom, made of polyethylene for total protection against corrosion.
These collection tanks, made of environmentally friendly polyethylene, are ideal for storing acids, alkaline solutions, oils, non-flammable chemicals and many other substances compatible with polyethylene. Exceptional resistance to oils, acids, bases and corrosives. Polyethylene pallet 1200x1200x140 mm, colour orange.



Tech. Code		P6807F2	P6807F4
A	mm	1418	1418
B	mm	1018	1418
C	mm	515	515
Storage capacity		2 drums of 200 L	4 drums of 200 L
Collection volume	l	370	590
Capacity	kg	665	1000

SPILL PALLETS IN POLYETHYLENE FOR CISTERNS

ITEM: WX9909

Spill pallets that can be moved with a forklift or transpallet thanks to the special housings for the forks obtained from the shaping of the bottom, made of polyethylene for total protection against corrosion. Large support surface, ideal for placing one or two 1000 L cisterns. These collection cisterns, made of ecological polyethylene, are ideal for the storage of acids, alkaline solutions, oils, non-flammable chemicals and many other substances compatible with polyethylene. Polyethylene pallets 1200x1200x140xmm, colour black.



Tech. Code		P6808C1	P6808C2
A	mm	1418	2380
B	mm	1418	1418
C	mm	985	748
Storage capacity		1 drum of 1000 L	2 drums of 1000 L
Collection volume	l	1150	1400
Capacity	kg	1500	2500

COLLECTION TANK WITH CANOPY FOR 1000 L TANKS

ITEM: WX9910

Collection tank with canopy for 2 1000 L cisterns. Made of carbon steel profiles with high flexibility and resitance, assembled together according to static requirements **UNI EN ISO 9606-1: 2013 standard.** The tank has no doors and no walls, has a hot-dip galvanized lid structure that protrudes both in front and henind with a rear inclination for draining rainwater. Storage surface consisting of pressed, edged and hot-dip galvanized mesh size 44X33, removable as needed with a capacity of 1000 kg / m2. Height from the ground 100 mm with special supported feet.Colour grey RAL 7001.
Complies with the following community directives: **2009/104/CE** Work equipment.



Tech. Code		P6809C1	P6809C2
A	mm	2040	3500
B	mm	2000	1900
C	mm	2262	2110
Storage capacity		1 tank 1000 L	2 Tanks of 1000
Collection volume	l	1000	1000
Capacity	kg	1000	1000

SPILL PALLETS IN STEEL FOR DRUMS

ITEM: WX9904

Spill pallets in steel for the storage of 200-litre drums, positioned directly on galvanized grating. Grating height of 30 mm.
RAL 7001 gray colour.
Compliant with International Standard EN ISO 3834-2:2021



Tech. Code		P6803F1	P6803F2	P6803F4	P6803F4SQ	P6803F8
A	mm	860	1340	2660	1340	2720
B	mm	860	850	850	1250	1250
C	mm	430	330	330	300	300
Storage capacity		1 drum of 200 L	2 drums of 200 L	4 drums of 200 L	4 drums of 200 L	8 drums of 200 L

SPILL PALLETS IN STEEL FOR CISTERNS

ITEM: WX9905

Spill pallets in steel for the storage of 1000 L cisterns, positioned directly on galvanized grating. Colour grey RAL 7001.
Complies with the International standard EN ISO 3834-2:2021



Tech. Code		P6804C1	P6804C2
A	mm	1340	2720
B	mm	1650	1315
C	mm	620	420
Storage capacity		1 cistern of 1000 L	2 cisterns of 1000 L
Collection volume	l	1000	1000

DEPOSITS FOR OUTDOOR STORAGE FOR 1000 L CISTERNS

ITEM: WX9911

Deposits suitable for outdoor storage of 1000 L cisterns, consisting of side walls with lamellar-shaped air intakes to ensure air exchange and a lid supported by gas shock absorbers with the possibility of closing with a padlock to protect the content by unauthorized people. Storage surface made up of galvanized pressed grating, mesh 44x33, height 30 mm.
Colour Grey RAL 7001.
UNI EN ISO3834-3:2006 and annex V of the D.L. N.81/08.



Tech. Code		P6814C1
A	mm	1350
B	mm	1660
C	mm	1900
Storage capacity		1 tank of 1000 L
Collection volume	l	1000

DEPOSITS FOR OUTDOOR STORAGE

ITEM: WX9912

Storage with a drum tray. For easy loading and unloading, the container lid is supported by gas shock absorbers. The robustness of the lid and doors (can be locked with a padlock) protects the contents from unauthorised persons. Equipped with ventilation grids. Galvanised pressed grating, height 30 mm. Colour grey RAL 7001.Conforms to International Standard UNI EN ISO3834-2:2021



Tech. Code		P6816F2	P6816F4
A	mm	1350	1350
B	mm	860	1260
C	mm	1570	1540
Storage capacity		2 drums of 200 L	4 drums of 200 L

STACKABLE STEEL TANKS FOR DRUMS

ITEM: WX9913

Stackable steel tanks for the storage of 200 liter drums, positioned directly on galvanized grating. Pressed galvanized grating, mesh 44X33, height 30 mm. Colour grey RAL 7001. **Compliant with the International standard UNI EN ISO3834-2: 2021**

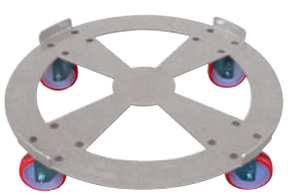


Tech. Code		P6817F4
A	mm	1350
B	mm	1260
C	mm	1430
Storage capacity		4 drums of 200 L

ROUND BASE FOR DRUM HANDLING

ITEM: P6812

Round base for 200 l drum handling with four Ø 100 mm castors.



Tech. Code	P681200
Load capacity	1 x 200 L drum

SPILL PALLETS IN STEEL FOR DRUMS

ITEM: WX9914

Steel tubs for the storage of 200 litre drums, positioned directly on a shelf made of EN10025 structural carbon steel profiles. Shelf height 30 mm.
Colour grey RAL 7001.
Complies with International Standard EN ISO 3834-2:2021



Tech. Code		P6915F1	P6915F2	P6915F4	P6915F4SQ	P6915F8
A	mm	830	1350	2670	1350	2670
B	mm	830	780	775	1325	1325
C	mm	470	370	290	310	310
Storage capacity		1 drum of 200 L	2 drums of 200 L	4 drums of 200 L	4 drums of 200 L	8 drums of 200 L
Collection volume	l	200	230	330	330	650

SPILL PALLETS IN STEEL FOR CISTERNS

ITEM: WX9915

Spill pallets in steel for the storage of 1000 L tanks, positioned directly on a support shelf made with EN10025 structural carbon steel profiles.
Colour grey RAL 7001.
Complies with the International Standard EN ISO 3834-2:2021

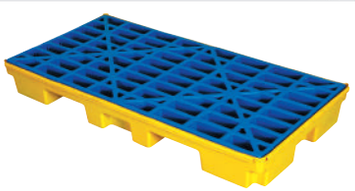


Tech. Code		P6917C1	P6917C2	P6917C3
A	mm	1342	2673	4000
B	mm	1325	1325	1325
C	mm	820	460	345
Storage capacity		1 cistern of 1000 L	2 cisterns of 1000 L	3 cisterns of 1000 L
Collection volume	l	1050	1050	1150

INTERLOCKING CONTAINMENT STAND

ITEM: P6920

Interlocking containment stand in reinforced plastic. Grid with a high bearing capacity. Drip proof interlocking system on the long and short sides for high speed modularity. 80 l capacity.



Tech. Code		P6920F2
Dimension	mm	1320 x 660 x 150
Capacity	L	80
Load capacity	kg	1136

POLYETHYLENE STORAGE DEPOSITS

ITEM: P6950

Made of ecological medium density polyethylene LLDPE through rotational molding
procedure. Resistant to corrosion against acids, alkalis, oils. 200 lt drums or 1000 lt ibc's storage.
Equipped with aeration grids printed on doors, to avoid gas saturation into the box.
Monolithic structure - no welding, solid construction, low shape for an easy access during loading and picking operations, doors opening at 180°, possibility to fix the box on the ground by specifics cables and hooks (optional). The deposit must be moved only empty, doors equipped with handles for opening and closing with lever padlock. Can be moved using a forklift truck due to the particular shaping of the bottom, direct pallet positioning into the deposit, pallet not include.



Tech. Code		P6950F2	P6950F4
Dimension	mm	1550 x 1000 x 1940	1540 x 1600 x 2000
Capacity		2 drums da 200 L	4 drums da 200 L
Collection volume	L	240	470

POLYETHYLENE STORAGE DEPOSITS

ITEM: P6955

Made of ecological medium density LLDPE polyethylene through rotational. Resistant to corrosion by numerous acids alkalis oils. Storage of 1000 liter tanks. Equipped with ventilation grids printed on doors to avoid gas accumulation inside the box. Monolithic structure without welding, door opening at 180°, possibility of anchoring to the ground by means of cables fixed to optional bolted eyelets in suitable holes. The boxes are equipped with handles for opening and closing with a padlockable lever. Opening and closing Movable (when empty) by forklift. Direct support of the pallet in the containers, pallet not supplied.



Tech. Code		P6955C1
Dimension	mm	1540 x 1600 x 2350
Capacity		1 x 1000 L tank
Collection volume	L	1080

CONTAINERS FOR POLLUTING AND FLAMMABLE SUBSTANCES

ITEM: P6960



Containers are the right solution for storage of polluting and flammable substances. Suitable for the storage of dangerous substances even in small containers if expanded with optional, shelving collection volume 300/1000 lt.

Optional accessories:
GR - Ventilation grid for storage of flammable products.
SC - Internal shelving composed of 3 shelves W=2000mm x D=500mm for storing small containers.
RA - Access ramps with manual trolleys.
On request other models and accessories.

Tech. Code		P696001Z	P696002Z	P6960GR	P6960SC	P6960RA
A est/int	mm	2350/2140	3150/2940	-	-	-
B est/int	mm	1150/940	2350/2140	-	-	-
C est/int	mm	2365/2000	2365/2000	-	-	-
Collection volume	L	300	1000	-	-	-
Storage area		2 m²	6 m²	-	-	-
Optional		-	-	Ventilation grill	Internal shelving	Access ramp

STORAGE DEPOSIT FOR TWO 1000 L TANKS

ITEM: P6962



The outside of the deposit is covered with galvanized metal sheets and is used to store two 1000 litre tanks outdoors. It consists of a steel collection tank that has been hand-painted with a two-component epoxy paint and finished with high solid acrylic paint, colour RAL 9006. Floor made from hot galvanized metal, walls and roof made from galvanized steel profiles and high relief galvanized corrugated sheet cladding, key lock. Can be handled using a forklift truck with fork extensions and adequate lifting capacity.
Complies with the following European directives: 2009/104/EC and Italian legislative decree 81/2008 annex V.

Optional accessories:
- Optional insulating roof
- Optional ventilation grilles for storing inflammable materials
- Optional acid-resistant lining for collection tank
- Supplied assembled.

Tech. Code		P6962C2
Int. dimension	mm	3380 x 1340 x 2200
Ext. dimension	mm	3500 x 1520 x 2600
Capacity		2 collection tanks 1000 l
Collection volume	L	1000
Useful depth	mm	1655
Features		Hinged door

OUTDOOR STORAGE DEPOSITS FOR 1000 L TANKS

ITEM: P6961



Outdoor storage deposits without thermal insulation, suitable for storing two 1000 litre tanks. Designed for use with a special raised and inclined shelf that allows the contents to be transferred or stored. The cabinet is fitted with safety hooks to keep the doors in the open position and a 1000 lire collection tank. Galvanized grating support surface that can be removed for cleaning the collection tank, door with key lock, safety hooks to keep the doors in the open position, optional ventilation grilles for the storage of flammable materials with an opening 1/30th of the surface area **(Ministry of the Interior Circular no. 8 of 17/04/1985**). Optional stainless steel or acid resistant coated collection tank for corrosive substances. Complies with the following national directives: **Legislative decree 81/2008 annex** V Occupational Health and Safety act

Optional accessories:
- Ventilation openings for flammable materials
- Inclined support

Tech. Code		P6961C2
Ext. dimension	mm	2875 x 2020 x 2345
Capacity		2 collection tanks 1000 l
Collection volume	L	1670
Capacity	kg	1000

MODULCONTAINER

ITEM: P6963



Outdoor Container Module consisting of a collection cistern in painted steel with a bi-component polyurethane cycle. The following article has a hot-galvanized grid base and side and roof composed of sandwich panels in class 0 mineral wool sp. 50 m / m interposed between galvanized sheets, fire reaction class A2 s1-d0. Model with two-leaf door and key lock closure and roof made with built-in-drain channels to drain rainwater sideways.
The container can be moved with a forklift equipped with an extended fork and of adequate capacity, it is also supplied assembled.
Internal-external painting with epoxy primer and bi-component polyurethane varnish in WHITE RAL 9016 colour. Complies with the consolidated text on work safety following national directives: Legislative Decree 81/2008 Annex V.

Tech. Code		P6963C	P6963NOC
Dim. Internal	mm	2080 x 2080 x 2000	4880 x 2080 x 2000
Dim. external	mm	3150 x 2350 x 2350	5150 x 2350 x 2350
Collection volume	L	1000	1700
Features		Insulated	-

CISTERNS 1000L

ITEM: P6965

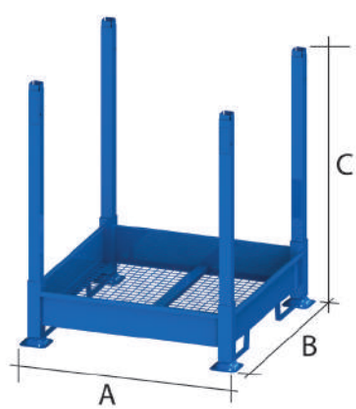


Plastic cisterns, screwed lid, colour neutral.

Tech. Code		P6965PL	P6965MT	P6965LG
Capacity	L	1050	1050	1050
Valve		2"	2"	2"
Pallet		Plastic	Metal	Wood
Cistern		Rigenerated	New	Rigenerated

BIG BAG HOLDER

ITEM: P7010



Big Bag is a metallic structure designed to maximise bag filling processes. Big Bag holders while keeping the bulk bags well open and stretched over its entire length, they're structured to facilitate waste discharge and storage operations Essential in order to define a waste handling area within the warehouse premises. They can be easily and safely handled with a fork lift thanks to their convenient fastening clamps.
Struts can be taken off and stored inside the unit so to reduce dimensions and facilitate handling.

Tech. Code		P70101070	P70101070Z
A	mm	1070	1070
B	mm	1070	1070
C	mm	1350	1350
Capacity		1 Big Bag da 1000 l	1 Big Bag - 1000 l
Finishing		Blu RAL 5010	hot-galvanised

BIG BAG HOLDER CONTAINERS WITH SPILL PALLET

ITEM: P7011



Containers equipped with watertight safety spill pallets for liquids, with removable galvanized grid. Construction made of 3 and 4 mm carbon steel, supplied with four removable uprights. External antii-corrosion treatment and safety treatment labeling.

Tech. Code		P70111B
Dimension	mm	1000 x 1000 x 1860 h
Volume	l	208
Capacity	kg	1000
Colour		RAL 5010

BIG BAG

ITEM: P7014

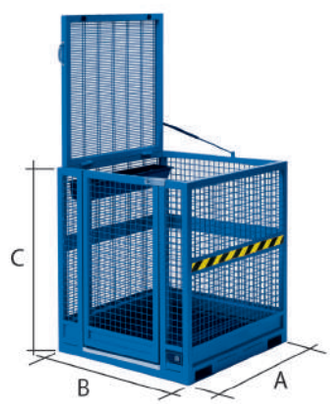
Big Bag standard UN 13H3Y approved with four lifting straps. In polypropylene.



Tech. Code		P701401	P701402	P7014U2
Dimension	cm	90 x 90 x 120	90 x 90 x 120	90 x 90 x 120
Volume	m³	0,97	0,97	0,97
Load capacity	kg	1000	1500	1000
Form		Closed bottom	With drain valve	Cloded bottom
Type approved		-	-	13H3Y

SHUTTLES FOR OVERHEAD MAINTENANCE

ITEM: P7007



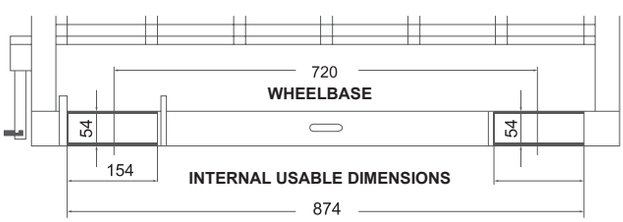
Complete with:
- Tech mesh side rails to protect the operator equipped with a gas cylinder that facilitates opening and closing, also simplifying product stowage operations when not in use

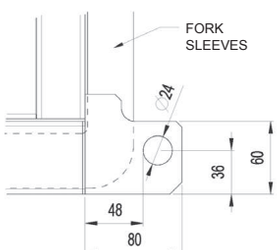
NB: only for aerial operations of an exceptional nature.
- Automatically folding access door with anti-vibration stop, which can only be opened inwards and equipped with with safety lock
- Non-slip and anti-static safety rubber floor
- Shockproof polystyrene tool tray
- Safety device to prevent accidental dislocation of the forks
- Attachments for the use of safety belts

Equipped with:
- Use and maintenance manual and start-up instructions in compliance with by Legislative Decree no. 81 of 9 April 2008, point 3.1.4 Annex VI
- Monitor panels to prevent major risks
- Metal nameplate showing the technical data of the equipment

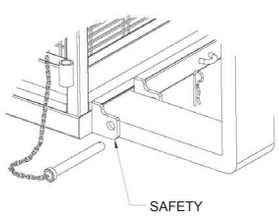
Rules of use:
Equipment that is not assembled with the lifting machine, such as the P7007 shuttle, used with machines designed for lifting materials for the purpose of lifting persons are explicitly excluded from the range of application of Directive No. 2006/42/EC (D.L.g.s n17/2010) as they are neither interchangeable equipment nor lifting accessories.
As a result of the above, this type of lifting equipment cannot bear the CE marking.
The mesh container has been designed and manufactured to be inserted (and locked) into the forks of a forklift truck, in order to carry out work at height in exceptional cases (as defined by current legislation).
Please refer to Legislative Decree no. 81 of 9 April 2008 (single text on health and safety in the workplace) in relation to point 3.1.4 of Annex VI as well as the Ministry of Labour and Social Policy circular no. 3326 of 10.02.2011 which clarifies the concept of exceptionality.

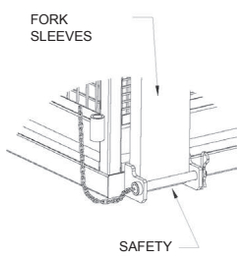
Tech. Code		P700701	P700701R
A	mm	1000	1000
B	mm	1001	1001
C	mm	1100 / 2110	1100 / 2110
Capacity	kg	400	400
Version		Standard	With wheels (2 fixed and 2 castor with brake)





Verify than the thickness of the fork sleeves allows the insertion of safety pin





CARGOPALLET 700 PLUS WITH 4 FEET

ITEM: P7015

Cargopallet equipped with excellent structural rigidity, resists deformation and is particularly suitable for handling big and bulky materials. The overlap is ensured by 4 cylindrical pins obtained directly from the mold on the upper part of the container, which fit into appropriate seats obtained on the bottom of the feet/beams of the container itself.
It can be stored outdoors and can be stacked and forked with or without wheels.



Tech. Code		P7015700	P7015700P
Dimension	mm	1200 x 1000 x 830	1200 x 1000 x 830
Door supplied		NO	YES
Colour		Grey	Grey
Capacity	kg	600	600
Weight	kg	31,8	31,8
Material		HDPE	HDPE

CARGOPALLET 600 PLUS WITH 4 FEET

ITEM: P7016

The cargo pallet is very robust thanks to the high stiffening of the walls, therefore it resists deformations and is particularly suitable for handling big and bulky materials.
The internal walls are smooth and for emptying liquids, there are two side outlets with screw caps or ball valves.It can be stored outdoors and can be stacked and forked with or without wheels.



Tech. Code		P7016600
Dimension	mm	1200 x 800 x 850
Colour		Grey
Capacity	kg	500
Weight	kg	25,2
Material		PP

CARGOPALLET 300 PLUS WITH 4 FEET

ITEM: P7017

Equipped with excellent structural rigidity, it resists deformation.
Particularly suitable for the textile, pharmaceutical, metalworking, food, rubber and plastics processing industries.
The internal walls are smooth and, for emptying liquids, there are two side outlets with screw caps or ball valves.It can be stored outdoors, it can be stacked and forked with or without wheels.

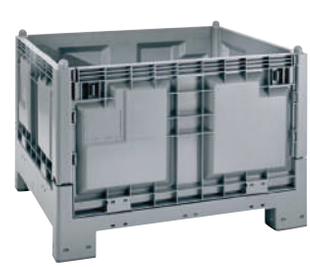


Tech. Code		P7017300
Dimension	mm	1000 x 700 x 650
Colour		Grey
Capacity	kg	300
Weight	kg	14,4
Material		PP

CARGO FOLD 700 WITH 4 FEET

ITEM: P7018

This is the first cargo pallet with collapsible walls, it is even more flexible and ready to meet transport and storage needs.Completely foldable and also allows you to gain 63% in volume in the case of empty containers to be transported or stored: a stack of 8 closed containers is as high as a stack of 3 open containers.Black feet, hinges and latches are immediately identifiable on the walls and the structure, which is entirely removable, allows for the rapid replacement of any damaged parts.

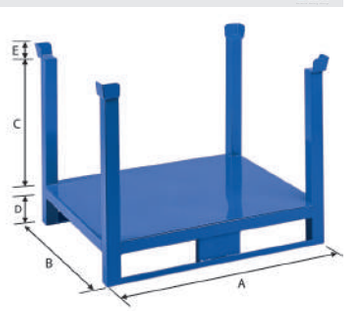


Tech. Code		P7018700	P7018700P
Dimension	mm	1200 x 1000 x 847	1200 x 1000 x 847
Door supplied		NO	YES
Colour		Grey	Grey
Capacity	kg	600	600
Weight	kg	36	36
Material		PP	PP

METAL PALLETS STACKING RACK

ITEM: P7040

The pallets are guaranteed free from burrs, with chamfered and rounded corners to avoid injury during use.
Surface treatment: Painting with polyester powder for outdoors baked at 190°C.
Standard colours: blue RAL 5010 - green RAL 6011 - grey RAL 7001 - orange RAL 2004 - light blue RAL 5012.



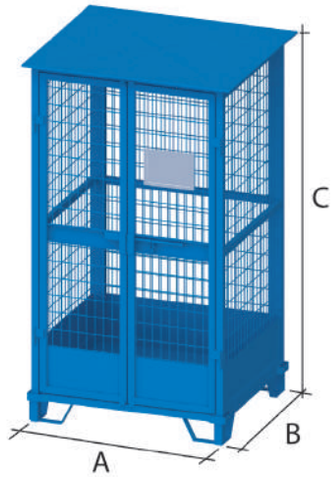
Tech. Code		P70401B
A	mm	1000
B	mm	800
C	mm	600
D	mm	120
E	mm	60
Load capacity	kg	1500
Colour		RAL 5010

NET-SIDED GAS CYLINDER PALLET CONTAINERS

ITEM: P7019

Gas cylinder tanks container designed to store 9/12 items, padlockable

Tech. Code		P70191170	P7019RA
A	mm	1130	-
B	mm	960	-
C	mm	2100	-
Capacity		9 - 12 Cylinders	Ramp



METAL PALLET CONTAINERS

ITEM: P7030

The containers are guaranteed free from burrs, with chamfered and rounded corners to avoid injury during use.
Surface treatment: Painting with polyester powder for outdoors baked at 190°C.
Standard colours: blue RAL 5010 - green RAL 6011 - grey RAL 7001 - orange RAL 2004 - light blue RAL 5012.

Tech. Code		P70301B	P70302B
A	mm	1000	1200
B	mm	800	800
C	mm	500	650
D	mm	130	130
E	mm	65	65
Load capacity	kg	1000	1000
Colour		RAL 5010	RAL 5010

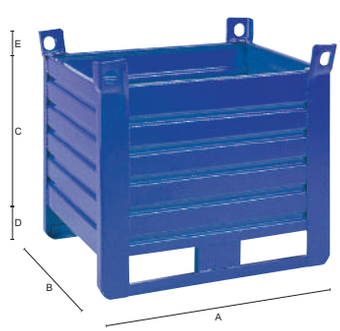


STEEL PALLET CONTAINERS

ITEM: P7031

The containers are guaranteed free from burrs,with chamfered and rounded corners to avoid injuries during use. Surface treatment: Painted with polyester powder for outdoor use baked at 190°.

Tech. Code		P70311B	P70312B
A	mm	1200	1200
B	mm	800	800
C	mm	650	650
D	mm	150	150
E	mm	110	110
Capacity	kg	1500	2000
Colour		RAL 5010	RAL 5010

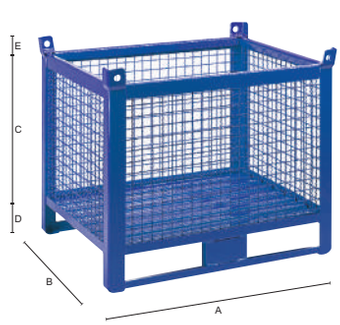


METAL MESH PALLET CONTAINERS

ITEM: P7033

The metal mesh containers are suitable for handling and storing various types of goods, they are particularly useful in the event that the products contained must be clearly visible. They are guaranteed free from burrs, with chamfered and rounded corners to avoid injuries during use. Surface treatment: Painted with polyesterr powder for ourdoor use baked at 190°.

Tech. Code		P70331B	P70332B
A	mm	1000	1220
B	mm	800	800
C	mm	650	650
D	mm	130	130
E	mm	65	65
Capacity	kg	1000	1000
Colour		RAL 5010	RAL 5010



SINGLE LADDERS IN ALUMINUM

ITEM: P7112

Single ladders in aluminum professional model for intensive use with a width of 430 mm and a rung 30 x 30 mm, a comfortable ladder in both the industrial and agricultural sector. Non-slip aluminum peg fixed with automatic riveting with rounded corners, non-slip PVC heel, welded upright max strength and lightness and jointed leg with rubber base and steel structure.
Complies to the UNI EN 131 Legislative Decree 81/2008 Art. 113 and to the Legislative Decre 206/2005 Art. 2 consumers.



Tech. Code		P711207	P711210	P711212	P711214
Steps	N°	7	10	12	14
H Closed	m	2,16	2,99	3,6	4,1
H max platform	m	2,00	2,82	3,35	3,87
Width	mm	430	430	430	430
Load capacity	kg	150	150	150	150
Weight	kg	3,4	5,0	5,9	6,6

ALUMINIUM LADDERS

ITEM: P7110

Professional model for intensive use, electrowelded structure, non-slip flat steps, automatic locking platform with safety hook, parapet with tool holder tank and bucket hook, anti-slip chocks and oversize anti-opening safety belt.
Capacity 150 kg.



Complies with UNI EN 14183 Legislative Decree 81/2008 Art. 113 and Legislative Decree 206/2005 Art 2-consumers.

Tech. Code		P71103	P71104	P71105	P71106	P71107
No. of steps		3	4	5	6	7
H Closed	m	1,45	1,75	2,00	2,30	2,60
H platform	m	0,70	0,95	1,20	1,45	1,70
Opening	m	0,80	1,00	1,20	1,40	1,60
Width	mm	450	480	510	540	570
Weight	kg	4,30	5,30	6,30	7,30	8,30

FIXED STOOL

ITEM: P7113

Fixed aluminium stool for professional use, 250x400mm non-slip top and step.
The upward inclination is very comfortable and is also equipped with anti-tip axles.
Feet with non-slip rubber caps



Certified according to EN 14183

Tech. Code		P71132	P71133	P71134
Steps No.		2	3	4
H from the ground	cm	46	69	92
Front width	cm	55	57	59
Depth	cm	58	82	106
Weight	kg	6	8	10

FIXED PALLET LADDER

ITEM: P7114

NEW



Fixed bunk ladder, large 600x600mm work surface and robust non-slip steps.
The ladder has reinforced side shoulders and large anti-tip axles.
The fully welded structure makes it extremely rigid, stable and guaranteed over time.
Equipped with two rubber wheels with brakes.

Complies with UNI EN 131-7

Tech. Code		P711475	P7114100	P7114150	P7114200	P7114250
Steps No.		2	3	5	7	9
H Closed	cm	175	200	250	300	350
H Platforms	cm	75	100	150	200	250
Opening	cm	275	300	350	400	450
Width	cm	115	130	147	178	208
Weight	kg	19	21	26	30	50

ALUMINIUM MULTI-POSITION LADDERS

ITEM: P7115



Telescopic aluminium ladders. It can be use as an extended, variable level position, and double ladder. Anti-slip knurled rung, wide base with oversize PVC feet for maximum grip. Quick-positioning hinges. Capacity 150 kg.

Complies with UNI EN 14183 Legislative Decree 81/2008 Art. 113 and Legislative Decree 206/2005 Art 2-consumers

Tech. Code		P711508	P711509	P711510	P711512
No. of steps		4+4	4+5	5+5	6+6
H Closed	m	1,30	1,55	1,55	1,83
Max. H double use	m	2,00	2,30	2,55	3,10
Max. H extension	m	4,15	4,70	5,25	6,40
Width	mm	564	564	637	710
Weight	kg	12,50	13,50	14,70	17,00

ALUMINIUM STEP STOOLS ANODIZED

ITEM: P7120



Sturdy and versatile step stool for professional use, anodized aluminium structure, flat steps with anti-slip reinforced double profile(360 x 230 mm), anti-slip feet. Maximum hindrance when closed only 7 cm.
Complies with UNI EN 14183 Legislative Decree 81/2008 Art. 113 and Legislative Decree 206/2005 Art 2-consumers.

Tech. Code		P71203	P71204
No. of steps		3	4
H Closed	m	1,12	1,43
H platform	m	0,69	0,92
Opening	m	0,75	1.00
Width	mm	497	515
Weight	kg	6,50	8

ELECTRO WELDED ALUMINIUM STEP STOOL

ITEM: P7121

Step stool made of electro-welded aluminium, 165 mm wide step with PVC inserts. Easily foldable with large 560×280 mm platform. Compliant with UNI EN 14183, Legislative Decree 81/2008 Art. 113 and Legislative Decree 206/2005 Art. 2 Consumer code



Tech. Code		P712103	P712104
Steps No.		3	4
H closed	m	0.9	1.18
H platform	m	0.73	0.97
Opening	m	0.72	0.9
Width	mm	800	800
Weight	kg	8.5	9.8

CLOSABLE LADDERS

ITEM: P7125

Aluminium folding ladders, space-saving in the closed position and stable and safe during use. Each foldable ladder has a large work surface, convenient handles and wheels for easy movement as well as rigid anti-closing bars.
Large 480x450mm work surface with foot stop. Comfortable 80mm flat steps and oversized handrails.
Equipped with rigid anti-closing rods and handles for easy movement.
Double anti-tilt axle.

Compliant with European standards EN 131 1-2



Tech. Code		P712506	P712508	P712510	P712512
No. of steps		6	8	10	12
H Closed	m	2,81	3,37	3,92	4,48
H platform	m	1,50	2,00	2,50	3,00
Opening	m	1,55	1,92	2,30	2,67
Width	m	0,78	0,86	0,94	1,01
Weight	kg	19	22	25	29

Contact our sales offices to check availability, price and transport methods

BINS FOR OILY WASTE

Justrite

ITEM: P7700

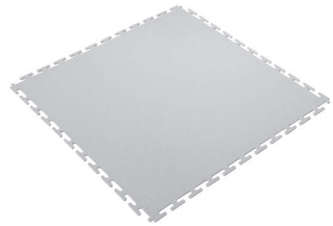
Pedal bins for oily waste with lid that stays closed when the bin is not in use. Designed to isolate the contents from sources of fire and limit the oxygen available. Durable powder-coated steel construction provides high chemical resistance. Swinging carrying handle for easy transport. FM approved, meets OSHA requirements. Meets TÜV. certification requirements. Colour Red.



Tech. Code		P7700100	P7700300	P7700500
Dimension	cm	30 x 40	35 x 46	41 x 51
Capacity	l	23	38	53
Ø External	mm	302	354	408
Weight	kg	3,8	4,8	6,4

MODULAR PADS

ITEM: P7220



The most resistant self-laying virgin PVC tile.
Thanks to its interlocking system, installation requires no adhesive and is simple and immediate, even for non-professionals. This model is formulated for industrial application, it is driveable and wheelable, so it withstands vehicle and forklift traffic over time. It prevents tools and various objects from falling, reducing the risk of breaking, and has a high resistance to chemicals. The quick installation without glue allows the new floor to be applied without any interruption of activity and without moving machinery and equipment. To ensure maximum resistance to wear and tear, the tiles are protected with a special treatment, unique in Europe, with exclusive protective paints that increase resistance to abrasion and dirt, facilitating cleaning and preserving the beauty of your floor over time.
Supplied standard in grey, available in other colours.

Resistant - Durable - Non-slip - Abrasion resistant - Fire resistant - Sound absorbent - Washable - Walkable - Suitable for forklift traffic - Resistant to common oils and acids
NB: Not antistatic

Tech. Code		P7220G68
Dimension	mm	510 x 510
Thickness	mm	7
Weight	kg/m²	9,2
Colour		Grey RAL 7000

RAMPS - DESCENTS

ITEM: P7225



Descendant terminal finish for P7220 platforms.

Tech. Code		P7225G68G	P7225G68N
Dimension	mm	510 x 170	510 x 170
Thickness		7	7
Weight	kg	Yellow	0,7
Colour		Yellow	Black

ANGULAR ELEMENTS

ITEM: P7230



Descendant angle finish for P7220 platforms.

Tech. Code		P7230G68G	P7230G68N
Dimension	mm	170 x 170	170 x 170
Thickness	mm	7	7
Weight	kg	0,2	0,2
Colour		Yellow	Black

MODULAR PADS

ITEM: P7320



Resistant and functional PVC tile, ideal for high pedestrian traffic areas and indoor locations.
Interlocking assembly without the use of glues or fittings.
Supplied as standard in grey, available in other colours

APPLICATIONS: Commercial places, offices, showrooms, multi-purpose halls, exhibition halls, sport clubs, laboratories, public places. Suitable also for industrial places.
Granular finish available in a wide range of colours with the possibility of customisable graphics - Fire-proof - Non-slip - scratch-proof - sound-absorbent - Washable - Resistant to common oils and acids.
NB: It is not antistatic

Tech. Code		P7320G50
Dimension	mm	500 x 500
Thickness	mm	5.0
Weight	kg/m²	6,4
Colour		Grigio

RAMPS - DESCENTS

ITEM: P7325



Descendant terminal finish for P7320 platforms.

Tech. Code		P7325G50G	P7325G50N
Dimension	mm	510 x 170	510 x 170
Weight	kg	0,7	0,7
Colour		Yellow	Black

ANGULAR ELEMENTS

ITEM: P7330

Descendant angle finish for P7320 platforms.



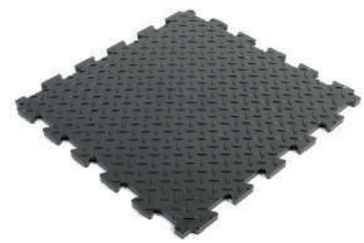
Tech. Code		P7330G50G	P7330G50N
Dimension	mm	170 x 170	170 x 170
Weight	kg	0,2	0,2
Colour		Yellow	Black

MODULAR PADS WITH RICE GRAIN FINISH

ITEM: P7421

Modular pads that guarantee excellent resistance and durability, with a high anti-slip factor (R12) which makes it perfect for workplaces, even with liquid or oil spills, absorbs shocks and noise and has anti-fatigue properties. It is applied by interlocking without the need for glues or fittings and withstands even extreme temperatures. With rice grain finish, available in black.

Resistant - Fire resistant - Non-slip (R12) - Anti-scratch - Washable - Anti-fatigue - Sound absorbing



Tech. Code		P7421ULT
Dimension	mm	520 x 520
Thickness	mm	14
Weight	kg/m²	2,38
Colour		Black

RAMPS-DESCENT

ITEM: P7422

Downfeeds terminal finish for P7421 pads.



Tech. Code		P7422ULTG	P7422ULTN
Dimension	mm	520 x 60	520 x 60
Weight	kg	0,24	0,24
Colour		Yellow	Black

ACCESS ANGLES WITH RICE GRAIN FINISH

ITEM: P7426

Universal corner finishes for P7421 platform. **Grey color available on request.**

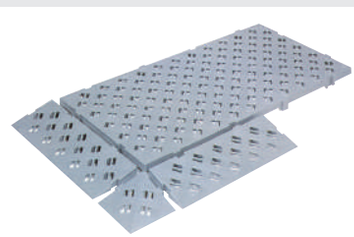


Tech. Code		P7426AG	P7426AN
Dimension	mm	60 x 60	60 x 60
Weight	kg	0,025	0,025
Colour		Yellow	Black

MODULAR PADS

ITEM: P7500

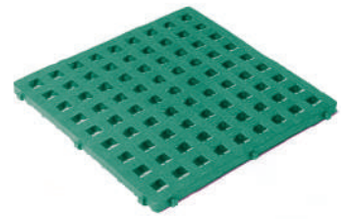
- Low density polyethylene
- Insulating and resistant to solvents, acids and grease
- Slip and shock absorption
- Docking in both directions
- Colour: grey
- Suitable to cover any surfaces and work areas both internal and external



Tech. Code		P750060X60	P7500ANG	P7500LAT
Module		Platform	Angle slide	Side slide
Dimension	mm	600 x 600 x 50	200 x 200 x 50	600 x 200 x 50
Capacity	kg/dm²	500	500	500

MODULAR PADS IN POLYETHYLENE

ITEM: P7510



The modular pads are made of insulating polyethylene, easy to put in place thanks to the hooking system between the various elements. They allow to create non-slip floors of any size. Tested for a working voltage up to 3 kV, have a discharge voltage of 20 kV, a yield strength of 840 kN per square meter. The workload is 210-280 kN per square meter. They can be supplied with lateral and angular ramps for even more functional floors.

- Standard colour: Green
- Colours on request: black, neutral, red, blue and light brown (minimum pack of 10 pieces)
- Ramps and angles: Black polyethylene

Tech. Code		P751050X50GR
Surface type		Grilled
Material - colour		Green Polyethylene
Dimension	mm	500 x 500 x 25h
Capacity	m²	210-280 KN

ACCESSORIES FOR PADS IN POLYETHYLENE

ITEM: P7511

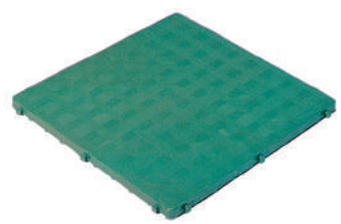


Accessories for pads in polyethylene P7510.

Tech. Code		P751113AN	P751150FE	P751150MS
Accessory		Angle	Ramp	Ramp
Type of Incastro		Male/Female	Female	Tap
Material - colour		Black polyethylene	Black polyethylene	Black polyethylene
Surface type		Full	Full	Full
Dimension	mm	130 x 130 x 0/25h	500 x 130 x 0/25h	500 x 130 x 0/25h
Capacity	m²	210-280 KN	210-280 KN	210-280 KN

MODULAR RAMP IN POLYPROPYLENE

ITEM: P7515



A full modular floor system that guarantees perfect adherence to the surface. Also available in self-extinguishing and conductive versions. It features a working voltage of 3 KV max. It has a yield load of approximately 710 kN per sq.m and a work load of 180-240 kN per sq.m. It comes complete with a side and corner joint for even more functional floor paving.

- Standard colour: Green
- Colour on request: light brown (minimum packaging 10 pieces)
- Angle ramp: Polypropylene colour black

Tech. Code		P751550X50P
Surface type		Full
Material - colour		Green polypropylene
Dimension	mm	500 x 500 x 25h
Capacity	m²	180-240 KN

MODULAR PLATFORMS IN POLYPROPYLENE - ACCESSORIES

ITEM: P7516



Accessories for modular platforms in polypropylene P7515

Tech. Code		P751613AN	P751650FE	P751650MS
Accessory		Angle	Ramp	Ramp
Type of Incastro		Male/Female	Female	Tap
Material - colour		Black polypropylene	Black polypropylene	Black polypropylene
Surface type		Full	Full	Full
Dimension	mm	130 x 130 x 0/25h	500 x 130 x 0/25h	500 x 130 x 0/25h
Capacity	m²	210-240 KN	210-240 KN	210-240 KN


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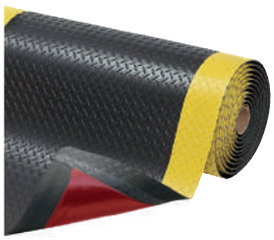
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ANTI-FATIGUE MATS PVC

ITEM: P7630

The anti-fatigue mat has a hard-wearing 14 mm thick base consisting of a wear-resistant surface bonded to an elastic microcellular vinyl backing to ensure maximum durability, comfort, cushioning and the absence of vibration. The rhombus structure provides traction and allows it to bend more easily. The design and the composition of the materials make it the most versatile solution for fatigue relief in both static and dynamic working positions. R10 slip rating according to standards DIN 51130 and BGR181. With RedStop™ slip-resistant backing to prevent sliding. Available with yellow borders along the sides to comply with OHSA 1910-144 directive and bevelled edges on all four edges to minimize risk of tripping. Free from DOP, DMF, ozone depleting substances, silicone or heavy metals.





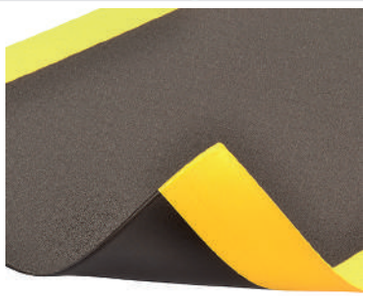
Tech. Code		P7630G10	P7630G20	P7630G30	P7630G40
Dimension	cm	60 x 91	91 x 150	91 x 300	60 x 2280
Thickness	mm	14	14	14	14
Weight	kg/m²	5.5	5.5	5.5	5.5
Classification		Bfl-S1	Bfl-S1	Bfl-S1	Bfl-S1
Material		PVC	PVC	PVC	PVC
Colour		Grey	Grey	Grey	Grey

Tech. Code		P7630NG10	P7630NG20	P7630NG30	P7630NG40
Dimension	cm	60 x 91	91 x 150	91 x 300	60 x 2280
Thickness	mm	14	14	14	14
Weight	kg/m²	5.5	5.5	5.5	5.5
Classification		Bfl-S1	Bfl-S1	Bfl-S1	Bfl-S1
Material		PVC	PVC	PVC	PVC
Colour		Black-yellow	Black-yellow	Black-yellow	Black-yellow

ANTI-FATIGUE MATS ESD

ITEM: P7730

Anti-fatigue mats ESD, the ergonomic benefit derives from a 9.4 mm thick walkable surface, made of anti-static dissipative vinyl sponge that reduces fatigue and the accumulation of electrostatic charges. The gravel texture provides non-directional grip and is easy to clean. An optional 10mm plug connected to the mat can be connected to an optional ground wire.



Tech. Code		P7730G10	P7730G20
Width	m	0,91 x 1,5	0,91 x 18,3
Total thickness	mm	9,4	9,4
Weight	kg/m²	3	3
Material		Dissipative antistatic vinyl sponge	Dissipative antistatic vinyl sponge
Colour		Black-yellow	Black-yellow

ANTI-FATIGUE MATS ORANGE NITRILE RUBBER

ITEM: P7731

Anti-fatigue mats with surface structure that ensures a secure grip allowing the drainage of oil spills. The closed design ensures easy cleaning and prevents small items from getting under the mats. Entirely made of nitrile rubber compound, designed to resist industrial oils and aggresive chemicals. The mats are free-standing and do not require any special installation. Complete with high visibility orange nitrile rubber rim on three sides for added safety. Anti-slip. Slip resistance R10, according to DIN 51130 and BGR181. They do not contain DOP, DMF, ozone-depleting substances, silicon or heavy metals.



Tech. Code		P7731NA10	P7731NA20
Dimension	cm	66 x 102 x 2	97 x 163 x 2
Thickness	mm	20	20
Weight	kg/m²	15	15
Material		Nitrile rubber	Nitrile rubber
Colour		Black - Orange	Black - Orange

ANTI-FATIGUE MATS

ITEM: P7432

Anti-fatigue mats for use in areas where oil spills have occurred. Drainage holes and raised pins provide aeration and allow liquids and residues to pass through, leaving the surface dry and clean. Complete with high visibility orange nitrile rubber edging on three sides, for greater safety.



Tech. Code		P7432102	P7432163	P7432315
Dimension	cm	66 x 102	97 x 163	97 x 315
Thickness	mm	22	22	22
Weight	kg/m²	8,8	21	37,2
Material		nitrile rubber	nitrile rubber	nitrile rubber
Colour		black - orange	black - orange	black - orange

RE-CYCLING CABINETS

Terry

ITEM: P8100

Cabinets in plastic, 2 doors for the differentiated items. Supplied un-assembled.
Packaging dimension: 800 x 400 x 275 mm.

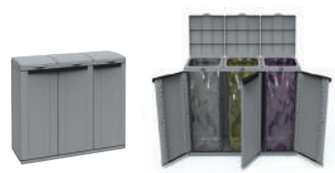
Tech. Code		P81002
Dimension	mm	680 x 390 x 887
Capacity	L	2 x 110



ITEM: P8104

Cabinets in plastic, 3 doors for the differentiated items. Supplied un-assembled.
Packaging dimension: 1140 x 435 x 242 mm.

Tech. Code		P81040
Dimension	mm	1020 x 390 x 887
Capacity	L	3 x 110



DUST-BIN BAGS FOR RE-CYCLING

ITEM: P8200

Coloured, perfumed bags with a capacity of 110 liters indicated for re-cycling.

Tech. Code		P8200B	P8200V	P8200G	P8200A
Dimension	mm	700 x 1100	700 x 1100	700 x 1100	700 x 1100
Weight	g	45/50	45/50	45/50	45/50
Quantity rolls	pcs	20	20	20	20
Colour		White	Purple	Yellow	Blue



DUST-BIN HOLDERS

ITEM: P8102

Dust bin holders 110 liter with ring, in HDPE complete with lid.

Tech. Code		P81020
Dimension	mm	510 x 850



RUBBISH BIN BAGS

ITEM: P8201

Industrial sacks in black rolls.

Tech. Code		P820110	P820111
Dimension	mm	720 x 1100	800 x 1100
Weight	g	60/65	70/75
Quantity rolls	pcs	20	10



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A0004	A.19
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B1D58	B.38
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B1K61	B.40
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B1T55	B.40
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B1T57	B.41
B1T58	B.41
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B1U11	B.11
B1U12	B.11
B1U13	B.10
B1U14	B.11
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B1U31	B.16
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B1U35	B.16
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B1U39	B.19
B1U41	B.18
B1U44	B.18
B1U45	B.15
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B1U53	B.17
B1U55	B.14
B1U58	B.14
B1U60	B.15
B1V11	B.42
B1V12	B.42
B1V20	B.42
B1V21	B.42
B1V55	B.42
B1V59	B.42
B1V60	B.42
B1V61	B.42
B1V62	B.42
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B2G25	B.53
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B2IE1	B.50
B2II1	B.50
B2R01	B.54
B2RB2	B.54
B2S16	B.51
B2S16K	B.51
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B2T30	B.45
B2T35	B.46
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B2T45	B.48
B2U25	B.44
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B2U32	B.47
B2U35	B.46
B2U40	B.56
B2U45	B.48
B2U50	B.51
B2U51	B.51
B2U70	B.56
B2U75	B.56
B2U80	B.56
B2U90	B.54
B2U91	B.55
B2U92	B.55
B2U95	B.55
B2U96	B.55
B3B22	B.60
B3F06	B.60
B3F08	B.61
B3P10	B.61
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B4E12	B.69
B4F11	B.66
B4F11	B.67
B4F20	B.63
B4F25	B.68
B4F29	B.69
B4F30	B.62
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B4F34	B.62
B4F35	B.63
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B4T07	B.70
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B5A35	B.79
B5A40	B.80
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B5F07	B.78
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B5F09	B.79
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B5T10	B.81
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B8A25	B.104
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B8F01	B.107
B8F02	B.109
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D2120	D.34
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GAMMA	PAG.
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GAMMA	PAG.
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D9656	D.89
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E0194	E.4
E0195	E.4
E0196	E.5
E0197	E.5
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E0205	E.6
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E1481	E.97
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GAMMA	PAG.
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E2669	E.24
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E3331	E.26
E3350	E.27
E3352	E.27
E3359	E.27
E3360	E.27
E3363	E.27
E3364	E.28
E3365	E.28
E3366	E.28
E3367	E.31
E3368	E.28
E3369	E.98
E3371	E.31
E3372	E.31
E3373	E.28
E3375	E.31
E3400	E.29
E3414	E.29
E3415	E.29
E3421	E.99
E3427	E.31
E3430	E.32
E3450	E.30
E3452	E.30
E3454	E.30
E3460	E.29
E3461	E.29
E3550	E.30
E3551	E.30
E3570	E.32
E3580	E.32
E3582	E.32
E3590	E.32
E4171	E.33
E4173	E.33
E4176	E.33
E4178	E.34
E4179	E.34
E4180	E.35
E4190	E.34
E4193	E.34
E4196	E.35
E4240	E.37
E4261	E.36
E4263	E.36
E4267	E.37
E4415	E.36
E4450	E.39
E4500	E.33
E4506	E.34
E4508	E.36
E4509	E.33
E4510	E.35
E4515	E.35
E4517	E.38
E4520	E.39
E4521	E.37
E4522	E.38
E4525	E.38

GAMMA	PAG.
E4527	E.35
E4542	E.37
E4600	E.39
E4608	E.38
E4615	E.38
E4703	E.40
E4710	E.39
E4711	E.39
E4713	E.40
E4715	E.40
E4748	E.40
E4753	E.40
E4767	E.40
E4770	E.41
E4793	E.41
E4794	E.41
E4815	E.41
E4844	E.41
E4868	E.41
E4880	E.99
E4882	E.99
E4883	E.99
E4885	E.95
E4887	E.42
E4888	E.100
E4890	E.42
E4891	E.100
E4892	E.43
E4893	E.100
E4894	E.43
E4895	E.101
E4896	E.44
E4897	E.101
E4907	E.44
E4908	E.102
E4909	E.44
E4910	E.102
E4914	E.45
E4915	E.102
E4920	E.45
E4921	E.103
E4923	E.45
E4925	E.103
E4990	E.45
E5405	E.46
E5410	E.46
E5435	E.46
E5440	E.46
E5445	E.46
E5460	E.47
E5465	E.47
E5470	E.47
E5558	E.48
E5560	E.48
E5565	E.48
E5630	E.47
E5633	E.47
E5635	E.48
E5645	E.48
E5650	E.49
E5690	E.49
E5693	E.49
E5695	E.50
E5760	E.50
E5770	E.50
E5810	E.50
E5812	E.49
E5820	E.50
E5845	E.51

GAMMA	PAG.
E5846	E.51
E5847	E.51
E5848	E.99
E5889	E.51
E5890	E.51
E5897	E.49
E6080	E.103
E6081	E.104
E6082	E.103
E6084	E.104
E6086	E.104
E6088	E.52
E6090	E.52
E6094	E.54
E6095	E.53
E6099	E.54
E6100	E.52
E6168	E.53
E6170	E.104
E6175	E.105
E6183	E.53
E6185	E.53
E6340	E.54
E6362	E.54
E6364	E.55
E6366	E.55
E6400	E.55
E6405	E.56
E6410	E.56
E6415	E.56
E6420	E.57
E6422	E.57
E6425	E.57
E6428	E.57
E6434	E.57
E6439	E.57
E6440	E.57
E6444	E.58
E6445	E.58
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E6635	E.60
E6660	E.60
E6670	E.61
E6672	E.61
E6674	E.61
E6676	E.61
E6680	E.62
E6690	E.60
E6691	E.61
E6693	E.61
E6695	E.62
E6696	E.62
E6697	E.63
E6698	E.64
E6700	E.63
E6701	E.63
E6704	E.64
E6706	E.66
E6707	E.66
E6708	E.66
E6710	E.67
E6712	E.68
E6715	E.67
E6716	E.72
E6717	E.72
E6720	E.72
E6721	E.73
E6722	E.73

GAMMA	PAG.
E6723	E.73
E6724	E.73
E6726	E.74
E6729	E.66
E6730	E.67
E6732	E.68
E6734	E.69
E6736	E.69
E6738	E.69
E6742	E.65
E6743	E.65
E6744	E.66
E6746	E.70
E6747	E.70
E6780	E.74
E6782	E.74
E6790	E.74
E7000	E.75
E7004	E.75
E7010	E.75
E7014	E.75
E7015	E.75
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E7032	E.76
E7034	E.76
E7035	E.76
E7036	E.76
E7040	E.76
E7044	E.77
E7045	E.77
E7046	E.77
E7047	E.77
E7050	E.77
E7051	E.77
E7054	E.78
E7060	E.78
E7062	E.78
E7064	E.78
E7070	E.78
E7074	E.78
E7075	E.79
E7084	E.79
E7090	E.79
E7092	E.79
E7094	E.79
E7100	E.80
E7104	E.80
E7110	E.80
E7123	E.80
E7140	E.80
E7142	E.81
E7144	E.81
E7145	E.81
E7150	E.81
E7160	E.81
E7164	E.82
E7173	E.82
E7185	E.82
E7188	E.82
E7195	E.82
E7197	E.83
E7200	E.83
E7210	E.83
E7231	E.83
E7234	E.83
E7401	E.84
E7405	E.84
E7406	E.84
E7419	E.84

GAMMA	PAG.
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E7425	E.84
E7429	E.85
E7431	E.85
E7433	E.85
E7490	E.85
E7495	E.85
E7496	E.85
E7497	E.86
E7498	E.86
E7500	E.86
E7504	E.86
E7505	E.86
E7515	E.86
E7520	E.87
E7525	E.87
E7526	E.87
E7527	E.87
E7528	E.87
E7529	E.87
E7536	E.88
E7538	E.88
E7539	E.88
E7540	E.88
E7569	E.88
E7570	E.89
E7579	E.89
E7580	E.89
E7581	E.89
E7583	E.90
E7702	E.90
E7704	E.90
E7706	E.90
E7709	E.90
E8215	E.91
E8221	E.92
E8226	E.92
E8231	E.92
E8235	E.92
E8237	E.93
E8239	E.93
E8241	E.93
E8243	E.93
E8245	E.93
E8246	E.94
E8247	E.94
E8248	E.94
E8249	E.94
E8250	E.94
E8251	E.94
E8254	E.109
E8260	E.95
E8263	E.95
F0080	F.2
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F0087	F.2
F0088	F.2
F0090	F.2
F0101	F.3
F0102	F.3
F0105	F.3
F0110	F.3
F0142	F.3
F0201	F.4
F0218	F.6
F0219	F.6
F0230	F.4
F0235	F.4
F0236	F.4

GAMMA	PAG.
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F0238	F.5
F0245	F.5
F0247	F.5
F0248	F.5
F0255	F.5
F0275	F.5
F0276	F.5
F0278	F.6
F0300	E.105
F0310	E.105
F0345	F.6
F0347	F.7
F0355	F.4
F0356	F.6
F0357	F.7
F0364	F.4
F0367	F.7
F0380	F.7
F0381	F.7
F0389	F.8
F0390	F.8
F0395	F.7
F0398	F.6
F0411	F.6
F0415	F.8
F0416	E.105
F0417	F.8
F0418	F.8
F0428	F.8
F0430	F.9
F0431	E.106
F0432	F.9
F0433	F.9
F0448	F.9
F0455	F.9
F0456	E.106
F0457	F.9
F0458	F.10
F0459	F.11
F0461	F.11
F0468	F.10
F0470	F.10
F0475	F.10
F0476	E.106
F0477	F.10
F0478	F.10
F0488	F.11
F0490	F.12
F0491	F.12
F0493	F.12
F0510	F.12
F0515	F.12
F0517	F.12
F0547	F.13
F0548	F.13
F0564	F.13
F0565	F.14
F0570	F.14
F0575	F.14
F0578	F.13
F0580	F.14
F0598	F.14
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F0603	F.13
F0625	F.14
F0630	F.14
F0671	F.15
F0677	F.15

GAMMA	PAG.
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F0703	F.15
F0708	F.15
F0711	F.15
F1008	F.16
F1010	F.16
F1012	F.16
F1015	F.16
F1016	F.16
F1017	F.16
F1018	F.16
F1019	F.17
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F1030	F.17
F1031	F.17
F1035	F.17
F1036	F.17
F1080	F.19
F1190	F.18
F1197	F.18
F1198	F.18
F1201	F.18
F1207	F.18
F1215	F.18
F1225	F.19
F1268	F.19
F1295	F.19
F1302	F.19
F1304	F.19
F1312	F.20
F1315	F.20
F1320	F.20
F1411	F.20
F1412	F.20
F1415	F.20
F1425	F.20
F1435	F.20
F1437	F.21
F1450	F.21
F1470	F.21
F1472	F.21
F1474	F.21
F1603	F.24
F1604	F.24
F1608	F.25
F1611	F.24
F1612	F.24
F1614	F.25
F1615	F.25
F1616	F.26
F1618	F.25
F1619	F.26
F1621	F.24
F1624	F.26
F1625	F.26
F1626	F.27
F1627	F.24
F1630	F.27
F1632	F.27
F1639	F.26
F1650	F.26
F1651	F.26
F1653	F.25
F1655	F.25
F1659	F.25
F1690	F.21
F1705	F.22
F1708	F.22
F1735	F.22

GAMMA	PAG.
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F1746	F.23
F1749	F.23
F1750	F.21
F1752	F.22
F1753	F.22
F1755	F.27
F1757	F.27
F1758	F.27
F1760	F.27
F1771	F.23
F1795	F.23
F1798	F.23
F1841	F.28
F1842	F.28
F1843	F.28
F1846	F.28
F1860	F.28
F2200	F.29
F2201	F.28
F2210	F.28
F2300	F.29
F2305	F.29
F2307	F.29
F2320	F.29
F2405	F.29
F2406	F.30
F2407	F.30
F2410	F.30
F2411	F.30
F2415	F.30
F2416	F.30
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F2499	F.31
F2500	F.31
F2501	F.31
F2503	F.31
F2504	F.31
F2506	F.32
F2518	F.32
F2520	F.32
F2522	F.32
F2523	F.32
F2525	F.32
F2530	F.33
F2640	F.33
F2656	F.33
F2657	F.33
F2658	F.33
F2675	E.106
F3280	F.35
F3283	F.35
F3319	F.34
F3320	F.33
F3322	F.34
F3324	F.34
F3328	F.34
F3329	F.34
F3330	F.34
F3340	F.34
F3418	F.35
F3420	F.35
F3511	F.35
F3512	F.35
F3521	F.35
F3535	F.36
F3536	F.36

GAMMA	PAG.
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F3539	F.36
F3540	F.36
F3541	F.36
F3558	F.36
F3595	F.37
F3598	F.37
F3599	F.37
F3602	F.37
F3603	F.37
F3661	F.38
F3679	F.38
F3680	F.38
F3681	F.38
F3682	F.38
F3690	F.39
F3699	F.38
F3701	F.38
F3704	F.39
F3710	F.39
F3720	F.39
F3730	F.39
F3740	F.39
F3745	F.40
F3747	F.40
F3748	F.40
F3750	F.40
F3900	F.42
F3910	F.42
F3920	F.42
F3925	F.42
F3931	F.42
F3932	F.42
F3940	F.42
F3960	F.42
F3965	F.42
F3970	F.43
F3975	F.43
F3980	F.43
F3990	F.43
F3997	F.43
F4000	F.43
F4005	F.43
F4011	F.44
F4012	F.44
F4014	F.44
F4015	F.44
F4018	F.44
F4030	F.44
F4035	F.42
F4035	F.44
F4045	F.43
F4050	F.40
F4055	F.40
F4080	F.45
F4082	E.107
F4085	F.45
F4135	F.45
F4145	F.45
F4150	F.45
F4152	E.107
F4159	F.45
F4200	F.47
F4201	F.47
F4205	F.47
F4210	F.46
F4220	F.46
F4230	F.46
F4240	F.46

GAMMA	PAG.
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F4270	F.46
F4280	F.46
F4290	F.46
F4291	F.46
F4292	F.46
F4295	F.47
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F4415	F.50
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F4504	F.52
F4505	F.52
F4506	F.52
F4507	F.52
F4508	F.52
F4509	F.52
F4510	F.53
F4512	E.106
F4520	F.53
F4521	F.53
F4522	F.53
F4524	F.53
F4525	F.54
F4526	F.54
F4527	F.54
F4528	F.54
F4530	F.54
F4532	F.54
F4535	F.55
F4536	F.55
F4570	F.55
F4575	F.55
F4580	F.55
F4590	F.55
F5100	F.56
F5110	F.56
F5115	F.56
F5290	E.107
F5291	E.107
F5292	E.107
F5293	F.56
F5295	F.56
F5300	F.57
F5301	F.57
F5310	F.57
F5311	F.57
F5331	F.57
F5332	F.57
F5355	F.59
F5378	F.58
F5380	F.58
F5391	F.58
F5393	F.58
F5394	F.58

GAMMA	PAG.
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F5413	F.59
F5415	F.59
F5420	F.59
F5429	F.59
F5435	F.60
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F5599	F.61
F5625	F.61
F5627	F.61
F5628	F.61
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F6402	F.62
F6404	F.62
F6406	F.62
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F6420	F.62
F6425	F.63
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F6605	F.64
F6611	F.64
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F6625	F.65
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F6693	F.67
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F7023	F.68
F7024	F.68
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F7052	F.69
F7100	F.68
F7102	F.69
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F7159	F.70
F7183	F.71
F7184	F.71
F7185	F.71
F7186	F.71
F7187	F.71
F7188	F.71
F7189	F.72
F7190	F.72
F7195	F.72
F7230	F.73
F7232	F.73
F7292	F.72
F7300	F.72
F7310	F.73
F7320	F.73
F8000	F.74
F8005	F.74
F8010	F.74
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F8505	F.79
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F8807	F.81
F8808	F.82
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F8827	F.82
F8830	F.83
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F9017	F.83
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F9038	F.85
F9039	F.85
F9040	F.85
F9045	F.85
F9046	F.86
F9048	E.108
F9051	F.86
F9055	F.86
F9057	F.86
F9060	F.86
F9065	F.86
F9110	F.87
F9112	F.87
F9114	F.87
F9123	F.87
F9124	E.108
F9127	F.87
F9130	F.87
F9156	F.88
F9157	F.88
F9210	F.88
F9211	F.88
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F9230	F.89
F9235	F.89
F9240	F.89
F9255	F.89
F9315	F.55
F9330	F.90
F9331	F.90
F9335	F.90
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F9341	F.90
F9360	F.91
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F9400	F.91
F9405	F.92
F9408	F.91
F9409	F.91
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F9420	F.92
F9460	F.92
F9462	F.92
F9464	F.92
F9466	F.92
F9470	F.92
F9505	F.93
F9506	F.93
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F9747	F.95
F9750	F.94
F9751	F.94
F9753	F.94
F9754	F.94
F9756	F.94
F9760	F.95
F9761	F.95
F9762	F.95
F9763	F.95
F9765	F.94
F9770	F.93
F9771	F.93
F9800	F.96
F9813	F.96
F9820	F.96
F9850	F.96
F9870	F.96
G0207	G.2
G0215	G.2
G0221	G.2
G0223	G.3
G0312	G.3
G0314	G.3
G0317	G.4
G0325	G.4
G0331	G.4
G0336	G.4
G0350	G.3
G0405	G.3
G1205	G.7
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TERMS OF SALE AND DELIVERY

1 SCOPE

Our terms of sale and delivery apply exclusively. We do not recognize customer conditions opposing or deviating from our terms of sale and delivery unless expressly validated in writing. Our terms of sale and delivery always apply, even if the delivery goes ahead with knowledge of opposing or deviating terms of sale and delivery made by the customer. Our terms of sale and delivery also apply to all present and future business transactions with the customer.
All agreements made between us and the customer for the implementation of the present contract are made in writing.

2 OFFER AND CONTRACT CONCLUSION

Our offers are non-binding and noncommittal in every aspect if not agreed otherwise.
Order is considered accepted only if it has been confirmed by us in writing. The same applies to additions, changes or special agreements.
Drawings, illustrations, weight and measurement data or other performance data are only binding if these have been expressly agreed upon in writing.

3 PRICES

Our prices are quoted in EUROs, if not otherwise reported in our order confirmation, and are „from factory" including loading in the plant.
They do not include packaging, freight, insurance, duty or other expenses. Any additional cost is invoiced separately.
Tax as required by law (value added tax) is not included in our prices. The lawful amount as of the day of invoicing will be listed
separately on the invoice.
If certain prices are not agreed upon, then the prices valid at the time of the delivery apply.

4 PAYMENT TERMS

Payment terms have to be confirmed by us in writing a payment is not made according to the date agreed on the order confirmation, we are entitled without further reminder to charge an interest rate of 8 % p. a. over and above the respective base interest rate.

5 DELIVERY TERMS

The indicated delivery time begins with the dispatch of the order confirmation, but not before all technical questions have been clarified and the customer has provided all documents, permits, releases, and the agreed deposit has been paid.
The delivery time is agreed between the Contracting Parties. It assumes that all commercial and technical questions between the Contracting Parties have been clarified and the customer has fulfilled all his obligations such as providing the necessary official certificates or permits or a deposit. If this is not the case, then the delivery time will be extended accordingly.
This does not apply if the delay is caused by the supplier.
Foreseeable delays will be communicated by the supplier as soon as possible.
The delivery time is deemed as kept if the product has left the plant or if it is ready for dispatch by the deadline.
As far as an acceptance has to take place, with the exception of a justified refusal of acceptance, the date of acceptance or, if necessary, the notice of acceptance applies.
If the dispatch and/or the acceptance of the delivery are delayed through circumstances arising from the customer, then any costs incurred will be charged, beginning one month after the dispatch or acceptance notice. If the dispatch is delayed on the customer's request, then the supplier is entitled, after setting a reasonable deadline, to use the items as he sees fit .
If the delivery time is not kept due to a "Force Majeure" or other circumstances beyond the control of the supplier, then the delivery time will be delayed accordingly. The supplier will communicate to the customer the beginning and the end of such an event as soon as possible.
The customer can withdraw from the contract without notice, if the supplier is unable to complete the full service.
The customer can withdraw from the contract if a part of the order cannot be delivered and he has a justified cause for refusing a partial delivery. If this is not the case, then the customer has to pay the contract price due for the partial delivery. The same applies in the case of the supplier's insolvency. If the impossibility or insolvency occurs during the course of acceptance or if the customer is solely or predominantly responsible for these events, payment remains obligatory.

6 TRANSFER OF RISK

The risk is transferred to the customer once the object of the delivery has left the factory, including any partial deliveries or where the supplier has offered additional services such as delivery costs or delivery and installation. Where an acceptance is going to take place, it is authoritative for the transfer of risk. Transfer of risk must be completed on the acceptance date, or immediately after the supplier's acceptance notice.
The customer cannot reject the acceptance in case of an insignificant defect.
Partial shipments are allowed.

7 CLAIMS FOR DEFECTS

In case of material or legal defects in the delivery, the supplier offers guarantee, disqualifying all other claims, as follows:
Material Defects
All parts found to be flawed as a result of circumstances prior to the transfer of risk, are to be fixed or replaced without charge by parts free of defects as chosen by the supplier. The ascertainment of such defects has to be communicated immediately to the supplier. Replaced parts become property of the supplier in writing.
To carry out all the improvements and replacement deliveries necessary for the supplier, the customer has to provide the necessary time and opportunity as per agreement with the supplier; otherwise the supplier is free from the resulting responsibilities for the consequences.

There is no guarantee in the following cases: Inappropriate or inadequate use, incorrect assembly or activation by the customer or by a third party, natural wear, incorrect or negligent handling, improper maintenance, inappropriate operative materials, incorrect construction works, inadequate construction foundation, chemical, electrochemical or electric interferences - as long as the supplier is not responsible for these.
The supplier is only responsible for defects in the material delivered by the customer if he or she should have recognised the defects as expected from a professional. For preparations according to the drawing of the customer, the supplier is responsible only for the execution according to the drawings.
If the customer or a third party makes alterations, the supplier is not responsible for their consequences.
The same applies to alterations of the delivered object made without the consent of the supplier.

8 COPYRIGHT

The customer takes on all responsibilities for the documentation to be presented by him or her, such as drawings, instructions, samples etc. The customer has to ensure that the instruction drawings presented by him or her do not infringe the copyright laws of third parties. The supplier is not obliged to prove to the customer whether the protection rights of third parties are infringed by the submission of offers due to a presentation made by him or her. If a liability of the supplier arises from facts based on claims, the customer must indemnify the supplier.

9 EXPIRATION

All claims by the customer - whatever the legal reasons may be - expire after 12 months.

10 RETURNS AND REFUNDS

For returns and refunds, an administration fee of up to 20% of the value of the item applies, unless the reason for return or refund is a circumstance for which we are accountable.

11 PRACTICABLE RIGHT, COMPETENT COURT, PARTIAL NULLITY

For every legal relationship between the supplier and the customer, only the italian laws are considered valid.
The Competent Court is the court corresponding to the domicile of the supplier. The supplier is, however, entitled to file complaints in the main domicile of the customer.
If an article of these conditions is to become void or ineffective, wholly or partly, the remaining sections remain unaffected.
The ineffective article is replaced by the corresponding legal regulation.

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