GERARDI

MADE IN ITALY



1

Integral angle heads series!

CLASSIC LINE

Teste Angolari / *Angle Heads*

1

INDICE - INDEX

ATC - AUTOMATIC TOOL CHANGE

	pages
LIGHT	
GL90-7	from 1.10 to 1.13
GL90-10	
GL90-16	
GTU-10	
MINI NEW 2025	
GM90-3 300 S	from 1.14 to 1.17
GM90-3 300	
GM90-3 200	
GM90-3 100	
SLIM NEW 2025	
GS90-2	1.18
GS90-3XS NEW	
STD 90° NEW 2025	
G90-5	
GM90-5 NEW	
G90-7 / 7L	
G90-10 / 10L	from 1.19 to 1.33
G90-16 / 16L	
G90-20 / 20L / 20L.272	
G90-30 / 30L	
G90-S40 / S40L	
G90-S40L.280	
EXTENDED NEW 2025	
G90-10L.240	from 1.34 to 1.37
G90-16L.270	
G90-20L.332	
G90-30L. 287	

	pages
GMU	
GMU-13 / 13L	from 1.38 to 1.41
GMU-16	
GMU-20	
DOUBLE	
G90-16 2U / 16L 2U	from 1.42 to 1.47
G90-20 2U / 20L 2U	
G90-30 2U / 30L 2U	
OFFSET	
GR90-5	from 1.48 to 1.52
GR90-10	
GR90-16	
GR90-20	
GR90-S40	
ACCESSORIES NEW 2025	
OPZIONE REFRIGERANTE INTERNO MODULAR QUICK CHANGE ADAPTORS	
OPZIONE USCITA ATC ATC OUTPUT OPTION NEW	
GHIERE RECOOL RECOOL NUTS NEW	
ESEMPIO SCHEDA DI COLLAUDO INSPECTION SHEET EXAMPLE	from 1.84 to 1.93
SISTEMA ANTIROTANTE MULTIPOINT MULTIPOINT ANTIROTATION SYSTEM	
ESEMPIO DI MONTAGGIO MOUNTING EXAMPLE	
STOP-BLOCK STOP-BLOCK	
GRUPPO ANTIROTANTE ANTI-ROTATION GROUP	
GRUPPO PERNO SPECIALE SPECIAL PIN GROUP	

INDICE - INDEX
MTC - MANUAL TOOL CHANGE

	pages
STD 90°	
G90-5	from 1.55 to 1.66
G90-7 / 7L	
G90-10 / 10L	
G90-16 / 16L	
G90-20 / 20L	
G90-30 / 30L	
G90-S40	
XL	
G90-S40 XL	from 1.67 to 1.70
G90-S40 XLxx	
G90-S50	
G90-S50 XLxx	
GMU	
GMU-16	from 1.71 to 1.75
GMU-20	
GMU-S40-125	
GMU-S40	
GMU-S50	

	pages
DOUBLE	
G90-16 2U / 16L 2U	from 1.76 to 1.81
G90-20 2U / 20L 2U	
G90-30 2U / 30L 2U	
ACCESSORIES NEW 2025	
OPZIONE REFRIGERANTE INTERNO MODULAR QUICK CHANGE ADAPTORS	from 1.94 to 1.100
OPZIONE USCITA MTC MTC OUTPUT OPTION NEW	
CONI / FLANGE / PROLUNGHE SHANKS / FLANGES / EXTENSIONS	
ESEMPIO SCHEDA DI COLLAUDO INSPECTION SHEET EXAMPLE	
ESEMPIO DI MONTAGGIO MOUNTING EXAMPLE	
PINZE / GHIERE / CHIAVI COLLETS / NUTS / WRENCHES	
CAMBI RAPIDI MODULARI 2.0 MODULAR QUICK CHANGE 2.0	

Teste Angolari / *Angle Heads*
CLASSIC LINE

Velocità / High-speed
10.000 Rpm

Internal coolant
fino a / Up to
70Bar

Cono e Albero Integrali - Integral Shank & Shaft !



from 1.10 to 1.54

SERIE ATC / ATC SERIES

E' la linea di teste adatte ai centri di lavoro, trasportabile automaticamente dal magazzino utensili al mandrino e viceversa. Corpo testa orientabile di 360° su ASSE MANDRINO. Quando la testa non è in posizione di lavoro, un sistema di aggancio impedisce la rotazione del cono rispetto al corpo testa. Una caratteristica primaria delle teste Classic - ATC è l'albero centrale realizzato in un solo pezzo con il cono di attacco, per offrire la massima rigidità. Recentissima novità è il perno di fermo intercambiabile.

This range of heads is designed to be used on machining centres and can be automatically tranferred from the tool magazine to the machine spindle and back. Angle head body adjustable at 360° on SPINDLE AXIS. This allows easy adjustment of the drive taper and head relative to arrester block mounted on the front of the machining centres' spindle housing. When the head is unloaded from the machine spindle, a safety latch prevents the drive taper from rotating. A major feature of the Classic ATC heads is the main input shaft which is integral with the drive taper to ensure maximum rigidity. The last news is the interchangeable positioning pin.



from 1.57 to 1.83

SERIE MTC / MTC SERIES

E' la linea di teste adatte a macchine utensili tradizionali e da fissare al mandrino tramite flangiatura. La cava a "T" ricavata sulla flangia universale permette un facile posizionamento del corpo testa sui 360° intorno al suo asse verticale. Un sistema modulare componibile, rende possibile variare la lunghezza del corpo testa aggiungendo l'elemento di prolunga. Modulo di prolunga, coni e flangia universale sono modulari e quindi intercambiabili su tutti i corpi testa appartenenti allo stesso ordine di grandezza.

This is a range of heads for traditional machine tools with flange attachment. The T-slot on the universal flange facilitates positioning the head 360° around its vertical axis. The modular system makes it possible to extend the lenght of the body by additing a spacer.The extension spacer, drive tapers and universal flange are modular and therefore interchangeable among all the heads of similar size.





Albero & Cono Integrale
Integral Shank & Shaft

Albero con cono di attacco integrale (cementato, temprato e rettificato) per garantire la massima rigidità

Main shaft is one solid piece with the drive input taper, case hardened and ground, to ensure maximum rigidity



Cuscinetti ABEC 9
ABEC 9 Ball Bearings

Ciascun albero di trasmissione è supportato da una coppia di cuscinetti a contatto obliquo, precaricati in classe di precisione ABEC 9 e lubrificati con grasso a vita

Shafts supported by sets of super precision pre-loaded angular contact bearings with Long Life grease lubrification and ABEC 9 accuracy rating



Corpo Principale
Main Body

Corpo testa orientabile a 360° con pressurizzazione interna. In acciaio trattato, massima rigidità e resistenza alla corrosione. Minima dilatazione termica

Treated steel head body with 360° position and internal air pressure, maximum rigidity and corrosion resistant. Minimum thermal expansion



Ingranaggi Gleason
Gleason Gears

Ingranaggi conici spiroidali in materiale ad alta resistenza, rettificati per garantire minore riscaldamento e rumorosità ed elevato numero di giri. Calcolo computerizzato della coppia conica degli ingranaggi (gleason): più denti in presa, più coppia in uscita, maggior numero di ore di lavorazione, rumorosità quasi assente.

Ground spiral bevel gears in the highest performance materials able to guaranteed less warming and noise and the highest Rpm. Computerized computation of the data of the set gears more than one tooth working during mesch, more power transmitted, longer gear life, almost no noise

In continuo sviluppo, la gamma di teste Classic Line, è oggi composta da 252 modelli completamente compatibili con la Linea Evolution e con qualunque macchina sul mercato grazie all'ampia gamma di coni disponibili. L'obiettivo è sempre lo stesso: Ottimizzare i cicli, semplificare e migliorare sempre di più la qualità di qualsiasi tipo di lavorazione su centri orizzontali & verticali. Le Teste Angolari Gerardi della linea Classic nascono da solide basi tecniche e dall'esperienza maturata da oltre 50 anni trascorsi al fianco dei nostri clienti durante i quali abbiamo risolto i problemi più variegati cercando la soluzione migliore e garantendo sempre l'elevata qualità ed affidabilità dei nostri prodotti.

The Classic Line Angle Heads range is constantly evolving and it currently consists of 252 items, all compatible with both Evolution Line Angle Heads and all machining centres on the market thanks to the wide range of shanks available. Our goal is always the same: optimizing the production chain by simplifying and improving more and more every type of operation on horizontal and vertical machining centres. The new Classic line of Gerardi angle heads has been designed from a technical base derived from more than 50-years-experience in solving thousands of production problems, finding optimum solutions and always guaranteeing the highest product quality.

SCAN IT TO SEE
THE WEB PAGE

1 YEAR WARRANTY

Linea di teste angolari integrali!

Integral angle heads series!

Uscite regolabili GMU
GMU Adjustable output

Operazioni orizzontali, verticali e angolari con una sola testa. Uscita completamente regolabile con angolazione ±90°

Vertical, horizontal and angular machining operations with one angle head only. Fully adjustable output ±90°



Refrigerante10BAR attraverso il perno
Standard 10BAR coolant through the pin

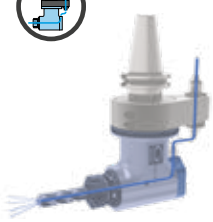
Manipoli ad Angolo
90° Angle Spindle

PASSAGGIO REFRIGERANTE - COOLANT TYPES:



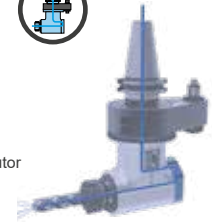
10bar

» **Perno**
» **Utensile**
» Positioning pin
» Tool



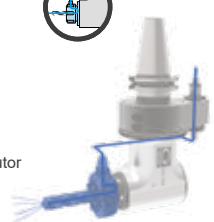
10bar

» **Perno**
» **Distributore**
» **Utensile**
» Positioning Pin
» Rotating Distributor
» Tool



up to 70bar

» **Cono**
» **Distributore**
» **Utensile**
» Shank
» Rotating Distributor
» Tool



up to 150bar

» **Perno**
» **Ghiera ReCool**
» **Utensile**
» Positioning Pin
» ReCool Nut
» Tool

Novità / *News*

Classic Line

Nuovi Modelli di Teste Angolari Integrali

New Types of Integral Angle Heads



MINI 90° SERIES

La nuova serie di teste angolari con manipolo ad angolo intercambiabile per lavorazioni con utensile da Ø1,6 a Ø3

New series of angle heads with interchangeable angle spindle for machinings with Ø1,6 to Ø 3



EXTENDED SERIES

La serie di teste angolari EXTRA LUNGHE con torretta riportata.

New EXTENDED series angle heads with reported turret.



SLIM SERIES

Nuovo modello di testa standard a 90° per MICRO lavorazioni in ingombri minimi

New standard 90° head type for MICRO machining in minimum overall spaces

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OFFSET SERIES

Nuova gamma di teste disassate con refrigerante interno fino a 70bar.

New offset heads range with internal coolant up to 70 bar.

Esempi applicativi / *Applications examples*

Linea Classic

Teste angolari integrali serie ATC (Cambio utensile automatico)

Integral angle heads ATC series (Automatic tool change)



MINI 90° SERIES

La nuova serie di teste angolari con manipolo ad angolo intercambiabile per lavorazioni in ingombri minimi
New series of angle heads with interchangeable angle spindle for machining in minimum overall spaces



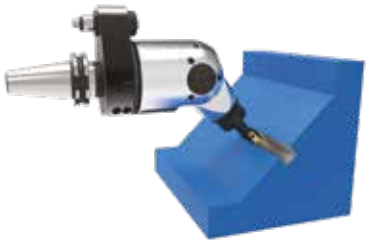
EXTENDED SERIES

La serie di teste con torretta riportata ideale per fresature, forature e maschiature in profondondità.
The angle head series with reported turret for deep milling, drilling and tapping.



COOLANT SERIES

La serie di teste angolari con passaggio refrigerante diretto dal mandrino, uscita utensile fino a 70bar
Angle heads series with coolant input directly from machine spindle and output through the tool up to 70bar



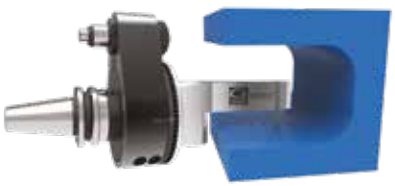
GMU SERIES

La serie di teste angolari con angolazione regolabile da 0 a 90°. Spina di posizionamento rapido (Step 15°)
Angle heads series with adjustable angle from 0 to 90°.
Quick positioning pin (Step 15°)



DOUBLE SERIES

La serie di teste angolari ideali per fresature, forature e maschiature attraverso 2 mandrini contrapposti di 180°
Angle Heads series for milling drilling and tapping through 2 opposite outputs



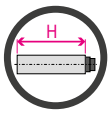
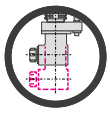
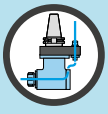
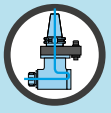
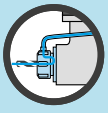
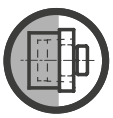
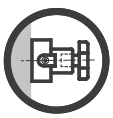
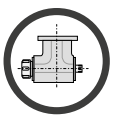
OFFSET SERIES

Testa angolari disassate per lavorazioni in spazi ristretti con opzione passaggio refrigerante dal cono, uscita utensile 70 BAR
Offset series for machining in narrow spaces with coolant input directly from machine spindle and output through the tool at 70 BAR

SIMBOLOGIA DATI TECNICI
TECHNICAL DATA LOGOS

							
Rapporto trasmissione Ratio	**Numero di giri** Revolutions per minute Rpm	**Carico assiale** Axial load N	**Coppia** Torque Nm	**Peso** Weight Kg	**Uscita** Output Ø	**Maschio** Tapping M	**Pinza** Collet Ø

INDICE OPZIONI
OPTIONS INDEX

OPZONI OPTIONS		 **Manipolo ad angolo** Angular chuck	 **Alta velocità** High speed	 **Spina per posizionamento rapido** Quick positioning pin	 **Prolunga per manipolo ad angolo** Extension for angular chuck	 **Lunghezze speciali** Special lenght	 **Flangia Multipoint** Multipoint flange
PASSAGGIO REFRIGERANTE COOLANT			 **Attaverso il perno** Through the Pin **10bar** (standard) ROTAZ. a SECCO DRY RUNNING √	 **Perno » Distrib » Utensile** Pin » Distributor » Tool **10bar** ROTAZ. a SECCO DRY RUNNING √	 **Cono » Distrib » Utensile** Shank » Distributor » Tool **30 / 40 / 70bar** ROTAZ. a SECCO DRY RUNNING NO	 **Distributore » Utensile** Distributor » Tool **10bar** ROTAZ. a SECCO DRY RUNNING √	 **Perno » Ghiera » Utensile** Pin » Distrib » Tool **ReCool NUT**
USCITA OUTPUT	 **Uscita ER** ER output	 **Uscita HSK** HSK output	 **Uscita ISO** ISO output	 **Uscita portafresa** Shell mill holder output	 **Uscita WELDON** WELDON output	 **Uscita C.** C. output	 **Doppia uscita** Double ouput

ATC SERIES
AUTOMATIC TOOL CHANGE

1 YEAR WARRANTY



INGRANAGGI - GEARS
Ingranaggi Gleason con evolvente rettificato massime performances e minori vibrazioni

Gleason ground spiral bevel gears maximum performances and minimum vibration



STOP BLOCK
Con bussola cementata e guarnizione

With case hardened bushing and gasket



CUSCINETTI - BEARINGS
Cuscinetti a sfera a contatto obliquo in classe di precisione ABEC 9

Angular contact preloaded ball bearings of precision class ABEC 9

DESIGN
Il Design compatto, insieme alle specifiche descritte, consente: alte perfomances, elevate velocità, lunga durata degli utensili.

The Compact design, along with mentioned specifications, allows: highest performances, high speeds, long tools life

Albero integrale con cono cementato, temprato, rettificato

Integral case hardened and ground shank and shaft



Perno di riferimento con sbloccaggio automatico del porta utensile

Positioning pin with automatic tool release

Gruppo antirotante modulare

Modular antirotation group

Anello graduato

Graduated ring

Passaggio refrigerante 10BAR attraverso il perno

Standard 10BAR coolant through the pin

Corpo testa orientabile a 360° con pressurizzazione interna.
In acciaio trattato, massima rigidità e resistenza alla corrosione.
Minima dilatazione termica.

Treated steel head body with 360° position and internal air pressure, maximum rigidity and corrosion resistant.
Minimum thermal expansion.

USCITE - OUTPUTS:
- Portapinza ER (standard)
- Weldon
- Portafresa
- Speciale

- ER collet (standard)
- Weldon
- Shell mill holder
- Special

Ciascun albero di trasmissione supportato da cuscinetti a contatto obliquo, che garantiscono rotazioni dell'albero-cono e dell'uscita portautensile entro 0,01 mm
Each transmission shaft is supported by slanting bearings that ensure the shaft with shank and the toolholder output rotations within 0,01mm.

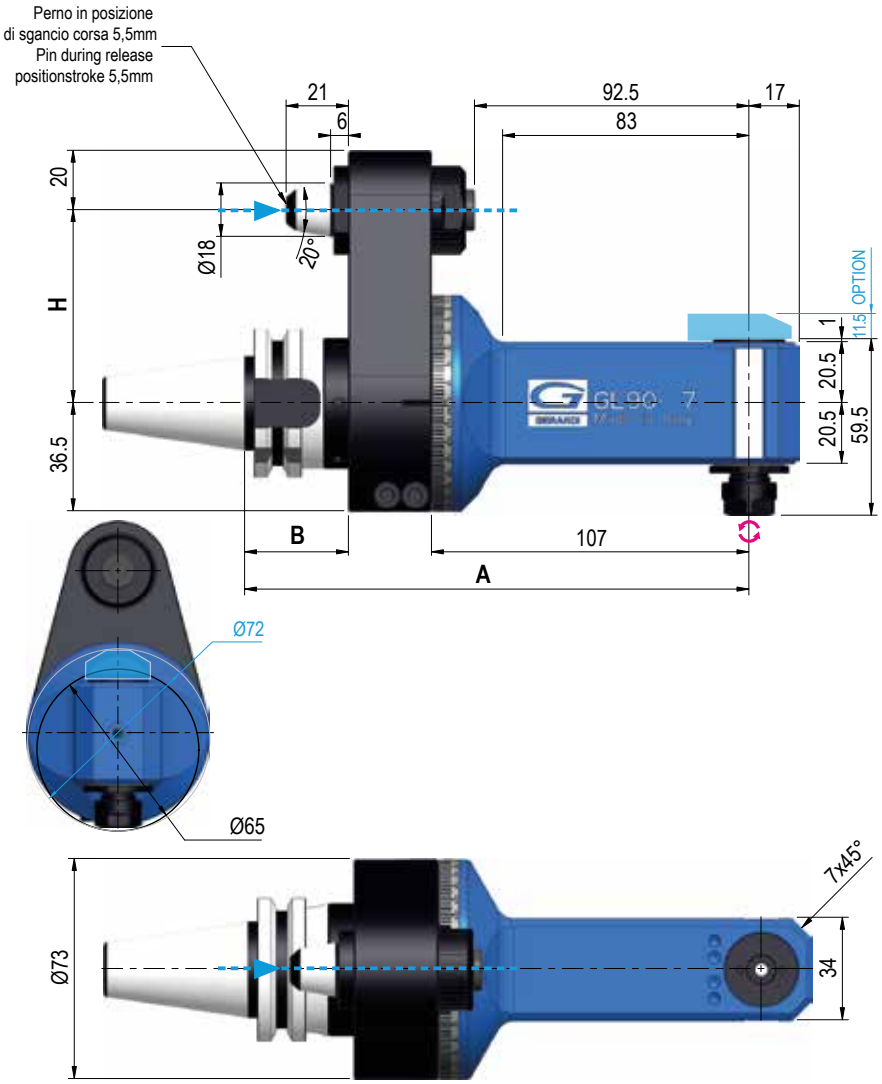
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GL90-7

TYPE 0

Price: **€ 3.147**





Dati tecnici - Technical data

Ratio 1:1	**ISO / BT 30** Kg 2,2 **ISO / BT 40** Kg 2,7
Rpm 10.000	Ø 7
N 120	M 6
Nm 5	ER11 Ø1/7

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks		**SK** DIN 69871		**CAT** ANSI B5.50	**BT** MAS 403		**HSK** DIN 69893
Grandezza - Size		30	40	40	30	40	63
Extra €		-	-	-	-	-	**200**
Dual contact (Optional)		**X**	**196**	**196**	**196**	**196**	**std**
H	Standard	65 / 80	65 / 80	65 / 80	65 / 80	65 / 80	50 / 65 / 80
	Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**
A		170	170	170	165	170	177
B		35	35	35	30	35	42

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 5,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

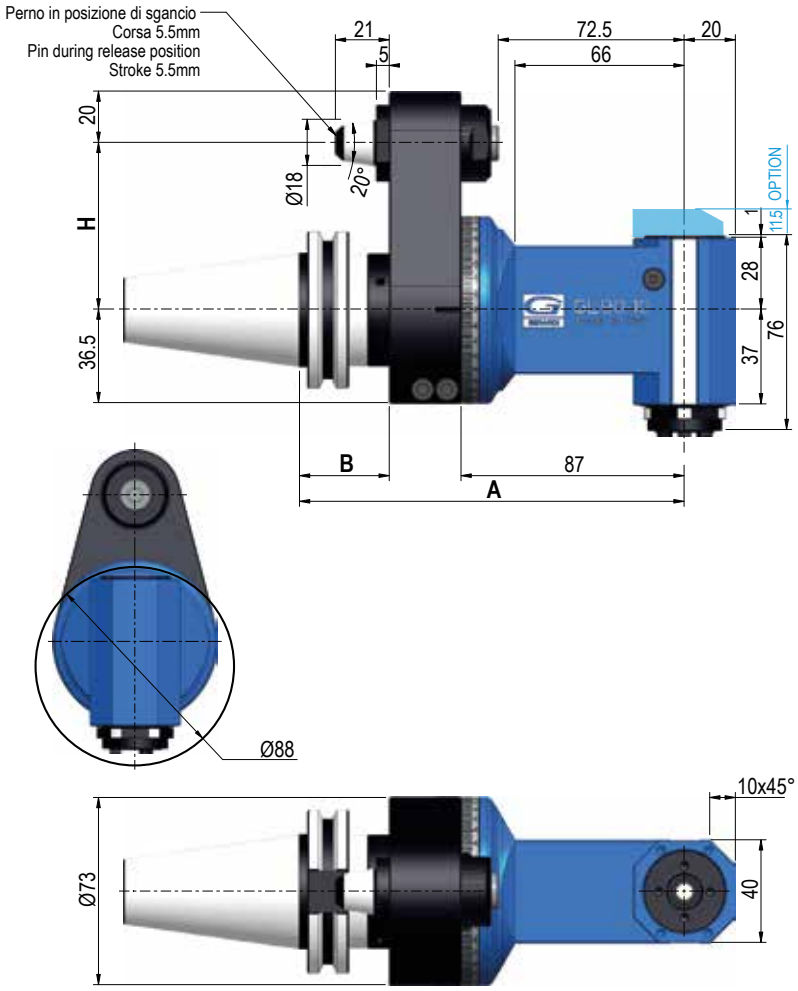
OPZIONI - OPTIONS	€

REFR. - COOLANT - dal Perno - Pin through Max 10bar - 6000Rpm - **Dry running YES**	**432**
OUTPUT - Weldon Max Ø6	**280**
DOUBLE OUTPUT - ER11 - ER 8M	**227**

GL90-10

TYPE 0

Price: **€ 2.732**





Dati tecnici - Technical data

Ratio 1:1	**ISO / BT 40** Kg 2,4 **ISO / BT 50** Kg 2,9
Rpm 10.000	Ø 10
N 250	M 8
Nm 10	ER16 Ø1/10

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks		**SK** DIN 69871		**CAT** ANSI B5.50	**BT** MAS 403		**HSK** DIN 69893
Grandezza - Size		30	40	40	30	40	63
Extra €		-	-	-	-	-	**200**
Dual contact (Optional)		**X**	**196**	**196**	**196**	**196**	**std**
H	Standard	65 / 80	65 / 80	65 / 80	65 / 80	65 / 80	50 / 65 / 80
	Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**
A		150	150	150	145	150	157
B		35	35	35	30	35	42

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 6Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 6000Rpm - **Dry running YES**	432
OUTPUT - Weldon Max Ø12	130
OUTPUT - Shell mill holder Ø13	88
OUTPUT - ER20	103
DOUBLE OUTPUT - ER11 - ER 8M	227

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GL90-16

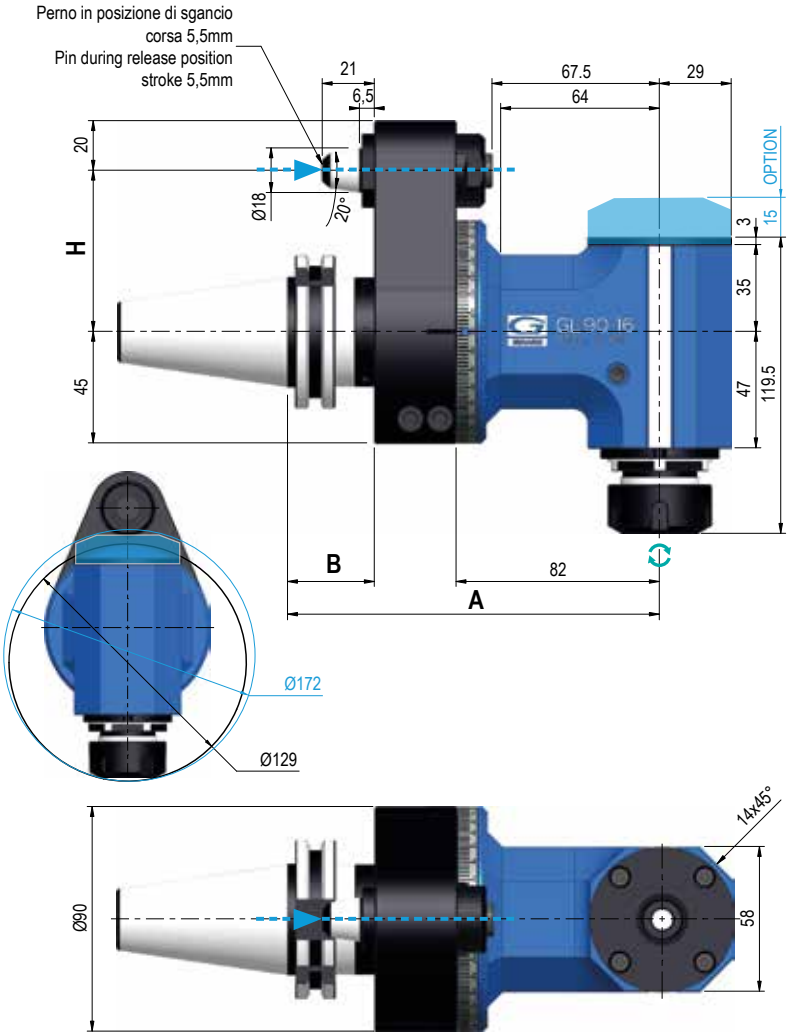
TYPE 1

Price: **€ 2.837**



Dati tecnici - Technical data

Ratio 1:1	ISO / BT 40 Kg 4,3 ISO / BT 50 Kg 7,2
Rpm 8.000	Ø 16
N 510	M 12
Nm 24	ER25 Ø1/16



Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	200	222	243	412	412	412
Dual contact (Optional)	196	237	196	237	196	237	std	std	std	std	std	std
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53
A	150	150	150	150	150	156	157	157	160	153	153	155
B	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 10,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

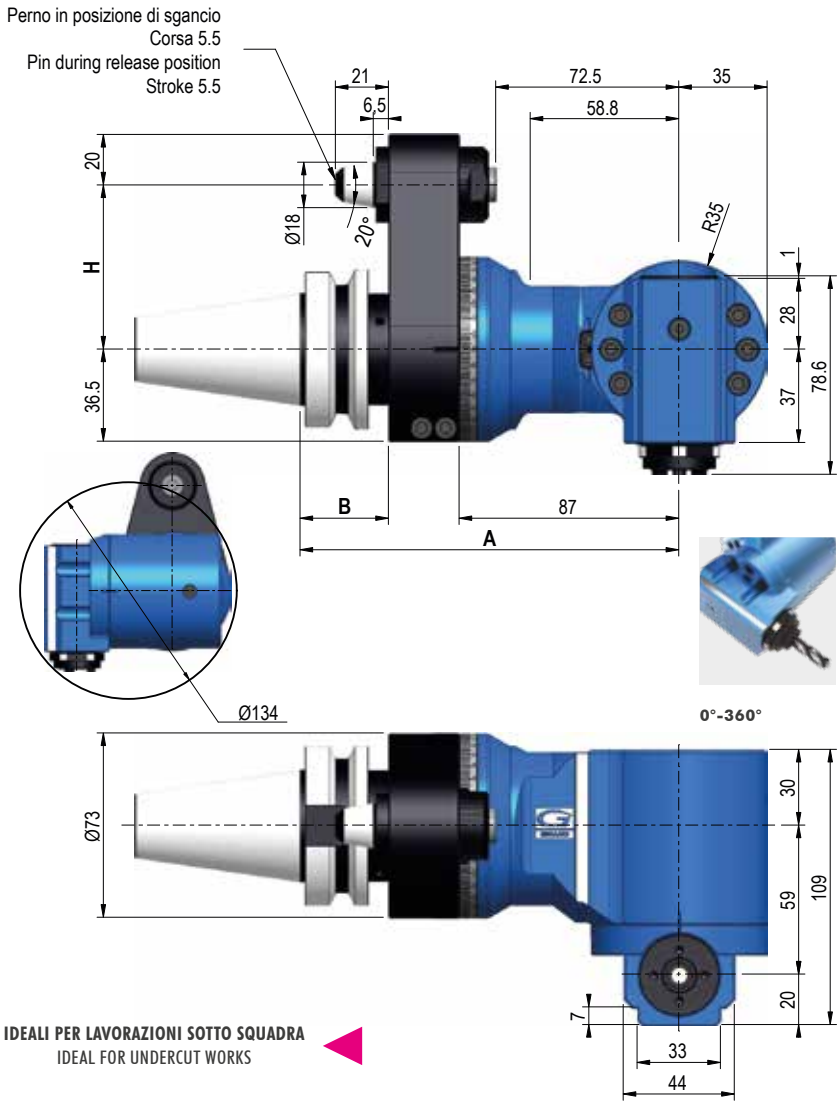
OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - **Dry running YES**	468
REFR. - COOLANT - dal Cono - Shank through Max 40bar - 4000Rpm - **Dry running NO**	924
OUTPUT - Shell mill holder Ø16	88
OUTPUT - ER32	217
DOUBLE OUTPUT - ER25 - ER 16M	309
OUTPUT - Weldon Max Ø16	180

GTU-10

TYPE 0

Price: **€ 5.043**





IDEALI PER LAVORAZIONI SOTTO SQUADRA
IDEAL FOR UNDERCUT WORKS

Dati tecnici - Technical data

Ratio 1:1	ISO / BT40 Kg 3,8
Rpm 6.000	Ø 10
N 250	M 8
Nm 10	ER16 Ø1/10

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €	**95**	**-**	**243**	**-**	**-**	**95**	**-**	**237**	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)	**X**	**196**	**237**	**196**	**237**	**196**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A	150	150	150	150	150	145	150	156	157	157	160	173	173	175
B	35	35	35	35	35	30	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 8000 Rpm	**119**
QUICK POSITIONING - Customized Angles	**299**
OUTPUT - Weldon Max Ø12	**130**
OUTPUT - ER20	**227**

1

GM90-3 300S TYPE 1

Price: **€3.585**

NEW 2025



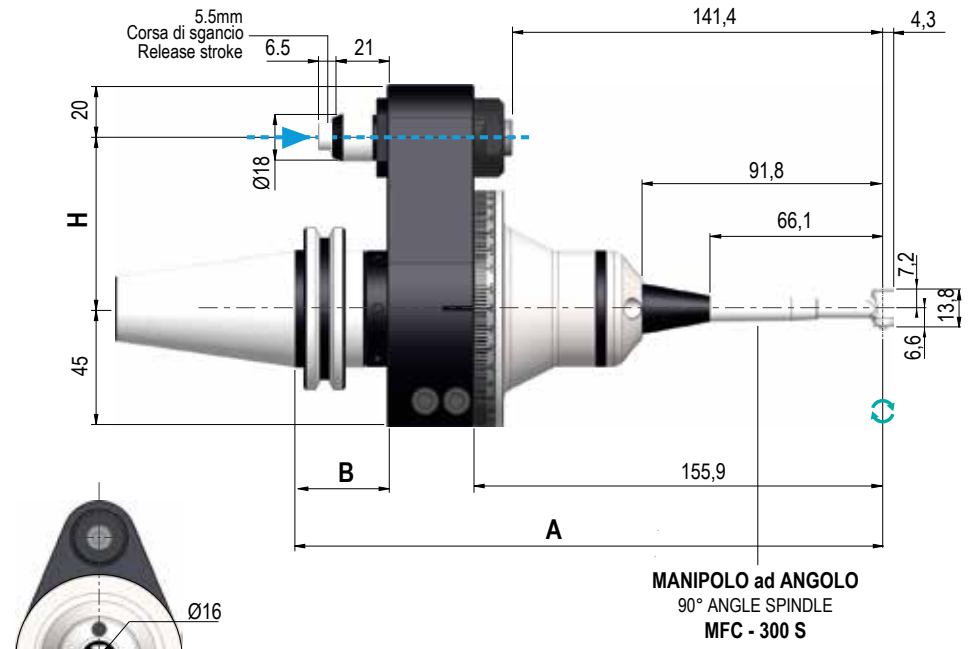
Corpo - Body
€ 3.142



MFC - 300S
€ 443

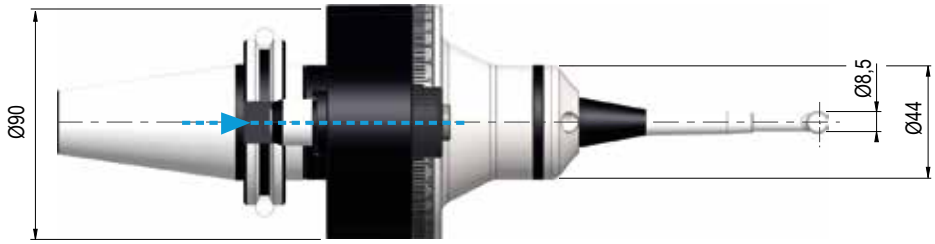
Dati tecnici - Technical data

Reducion Ratio 1:-1		Kg 3,6	
Rpm 15.000		Ø 1,6 Max	
-		-	
Nm 1		K252 Ø1,6	



MANIPOLO ad ANGOLO
90° ANGLE SPINDLE
MFC - 300 S

IDEALI PER SVASATURE E SBAVATURE
IDEAL FOR COUNTERSINKING AND SNAGGING



Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €	95	-	237	-	237	95	-	237	200	222	243	412	412	412
Dual contact (Optional)	X	196	237	196	237	196	196	237	std	std	std	std	std	std
H Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53	53	53
A	223,8	223,8	223,8	223,8	223,8	223,8	223,8	229,8	230,8	230,8	233,8	226,8	226,8	228,8
B	35	35	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7Kg

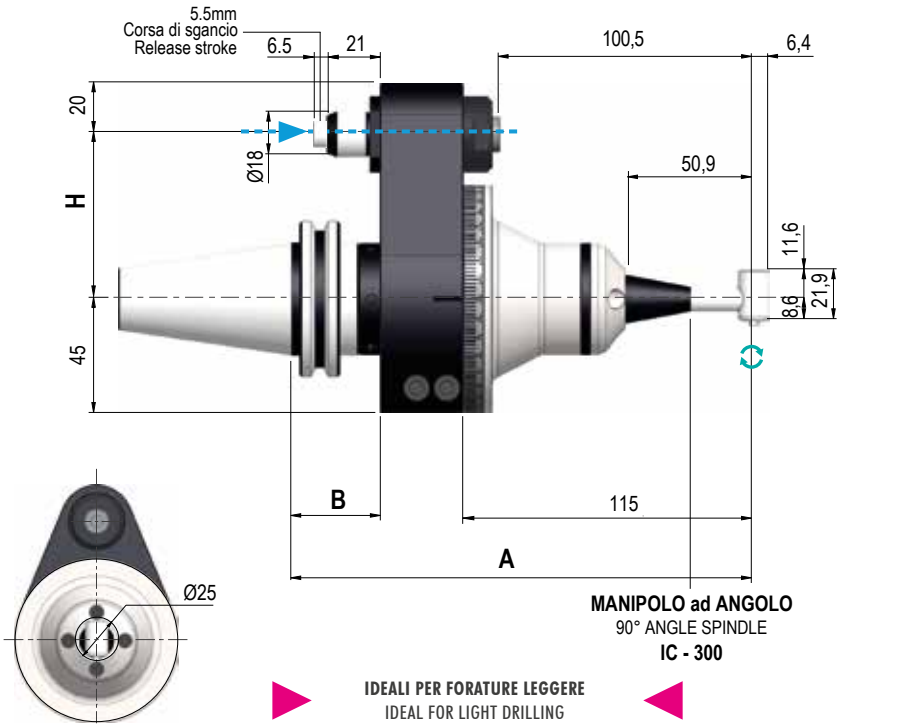
DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni / Pinza K252 Ø1,6mm
Special bag / Stop block / ER nut / Wrenches / Grease tube
Instruction book / K252 Ø1,6mm collet

OPZIONI - OPTIONS	€
MANIPOLO - 90° ANGLE SPINDLE - RA-100	896
MANIPOLO - 90° ANGLE SPINDLE - IC-300	597
MANIPOLO - 90° ANGLE SPINDLE - RA-200	906
PROLUNGA - EXTENSION - CN-01 H=50,1 mm	340

GM90-3 300

TYPE 1

Price: **€3.739**



NEW 2025



Corpo - Body
€ 3.142



IC - 300
€ 597

Dati tecnici - Technical data

Reducion Ratio 3/4	Kg 3,58
Rpm 15.000 / 11.250	Ø 3,175 Max
-	-
Nm 1	CHC Ø 1,6-3,175

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €	**95**	**-**	**237**	**-**	**237**	**95**	**-**	**237**	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)	**X**	**196**	**237**	**196**	**237**	**196**	**237**	**237**	**200**	**222**	**243**	**412**	**412**	**412**
H Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A	183	183	183	183	183	183	183	189	190	190	193	186	186	188
B	35	35	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni / Pinza CHCØ3/2,35mm
Special bag / Stop block / ER nut / Wrenches / Grease tube
Instruction book / CHCØ3/2,35mm collet

OPZIONI - OPTIONS	€

MANIPOLO - 90° ANGLE SPINDLE - RA-100	**896**
MANIPOLO - 90° ANGLE SPINDLE - MFC-300 S	**443**
MANIPOLO - 90° ANGLE SPINDLE - RA-200	**906**
PROLUNGA - EXTENSION - CN-01 H=50,1 mm	**340**

1

GM90-3 200

TYPE 1

Price: **€4.048**

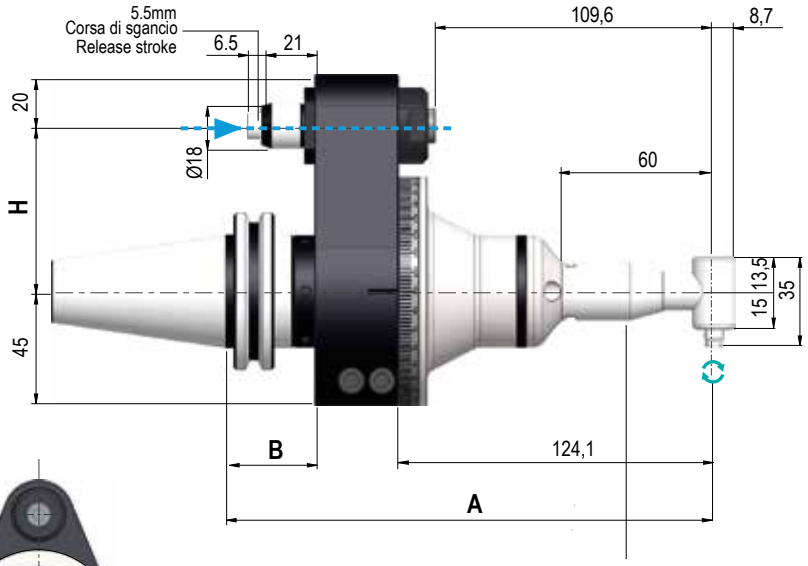
NEW 2025

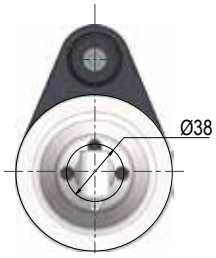


Corpo - Body
€ 3.142



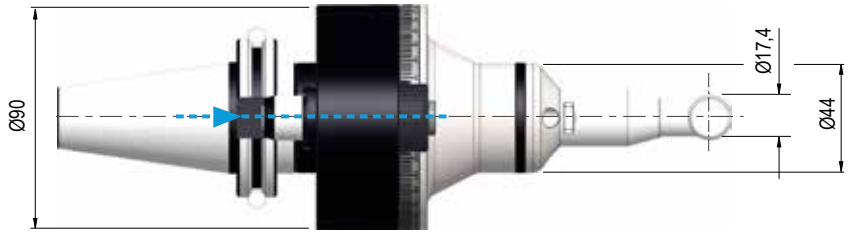
RA - 200
€ 906





MANIPOLO ad ANGOLO
90° ANGLE SPINDLE
RA - 200

IDEALI PER FORATURE E FRESATURE LEGGERE
IDEAL FOR LIGHT DRILLING AND MILLING



Dati tecnici - Technical data

Reducion Ratio 1:1,5	Kg 3,7
Rpm 15.000 / 10.000	Ø 3,175 Max
-	-
Nm 4	CHS: Ø 0,8-3,175

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks		**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size		30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €		**95**	**-**	**237**	**-**	**237**	**95**	**-**	**237**	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)		**X**	**196**	**237**	**196**	**237**	**196**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H	Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
	Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A		192	192	192	192	192	192	192	198	199	199	202	195	195	197
B		35	35	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni / Pinza K252 Ø1,6mm
Special bag / Stop block / ER nut / Wrenches / Grease tube
Instruction book / K252 Ø1,6mm collet

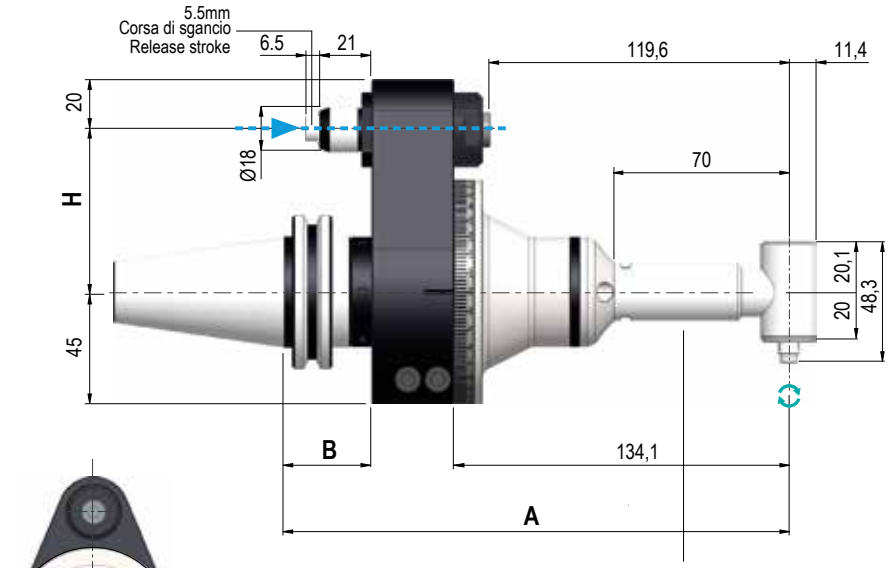
OPZIONI - OPTIONS	€

MANIPOLO - 90° ANGLE SPINDLE - RA-100	**896**
MANIPOLO - 90° ANGLE SPINDLE - MFC-300 S	**443**
MANIPOLO - 90° ANGLE SPINDLE - IC-300	**597**
PROLUNGA - EXTENSION - CN-01 H=50,1 mm	**340**

GM90-3 100

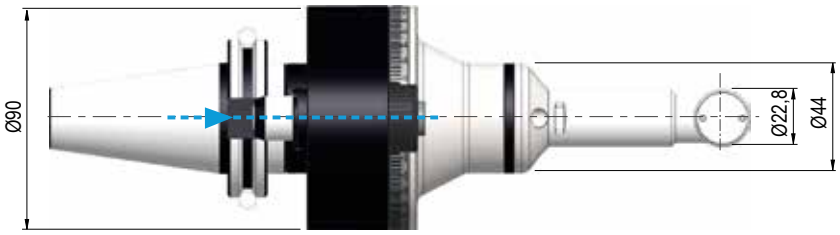
TYPE 1

Price: **€4.038**



MANIPOLO ad ANGOLO
90° ANGLE SPINDLE
RA - 100

IDEALI PER FORATURE E FRESATURE LEGGERE
IDEAL FOR LIGHT DRILLING AND MILLING



NEW 2025



Corpo - Body
€ 3.142



RA - 100
€ 896

Dati tecnici - Technical data

Reduction Ratio 1 / 2,67	Kg 3,8
Rpm 15.000 / 5.620	Max Ø3,175
-	-
Nm 4	CH8: Ø 0,8-3,175

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks		**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size		30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €		**95**	**-**	**237**	**-**	**237**	**95**	**-**	**237**	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)		**X**	**196**	**237**	**196**	**237**	**196**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H	Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
	Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A		202	202	202	202	202	202	202	208	209	209	212	205	205	207
B		35	35	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni / Pinza CH8Ø3mm
Special bag / Stop block / ER nut / Wrenches / Grease tube
Instruction book / CH8Ø3mm collet

OPZIONI - OPTIONS	€

MANIPOLO - 90° ANGLE SPINDLE - RA-200	**906**
MANIPOLO - 90° ANGLE SPINDLE - MFC-300 S	**443**
MANIPOLO - 90° ANGLE SPINDLE - IC-300	**597**
PROLUNGA - EXTENSION - CN-01 H=50,1 mm	**340**

1

GS90-2

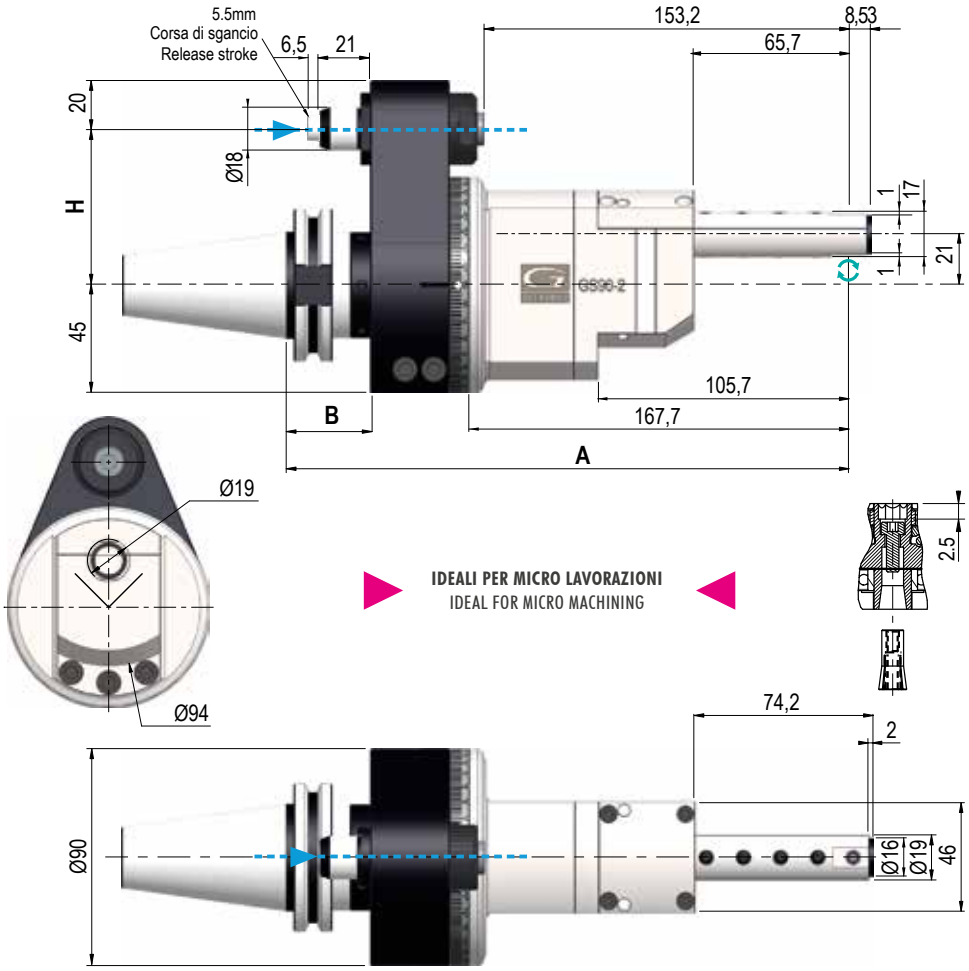
TYPE 1

Price: **€ 6.252**



Dati tecnici - Technical data

Ratio 1:2,475	ISO / BT40 Kg 4,96
Rpm 12.000	Ø 2,5
-	-
Nm 1.6	GS90-2 Ø1/2,5



IDEALI PER MICRO LAVORAZIONI
IDEAL FOR MICRO MACHINING

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €	95	-	-	-	-	95	-	-	200	222	243	412	412	412
Dual contact (Optional)	X	196	237	196	237	196	196	237	std	std	std	std	std	std
H Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53	53	53
A	235,7	235,7	235,7	235,7	235,7	235,7	235,7	241,7	242,7	242,7	245,7	238,7	238,7	240,7
B	35	35	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 8Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

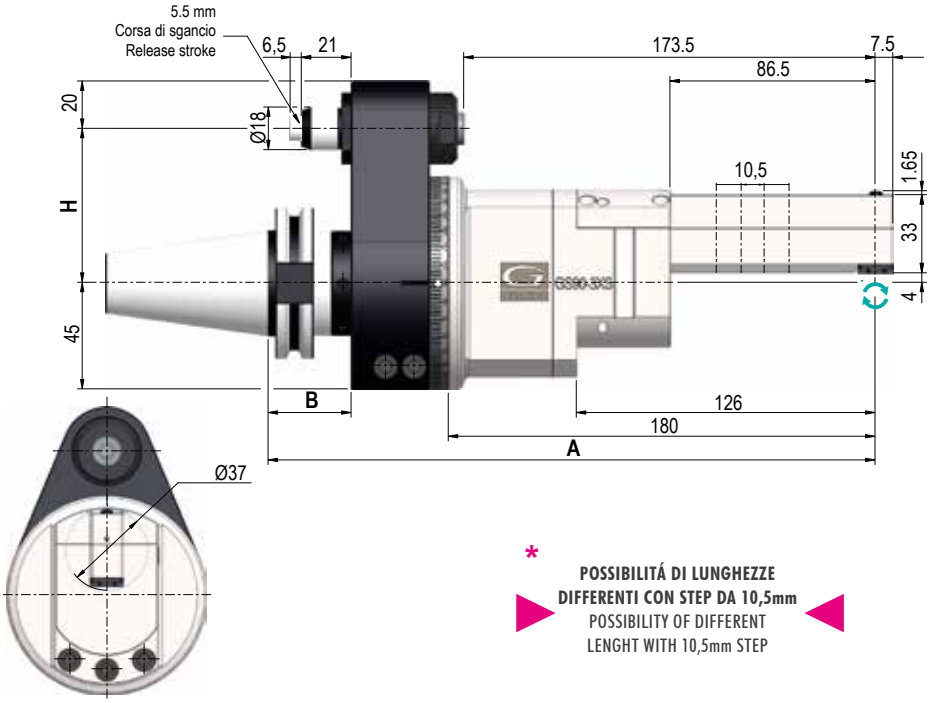
OPZIONI - OPTIONS €

PINZA - COLLETS GS90-2 Ø1 - 1,5 - 2 - 2,5 **232**

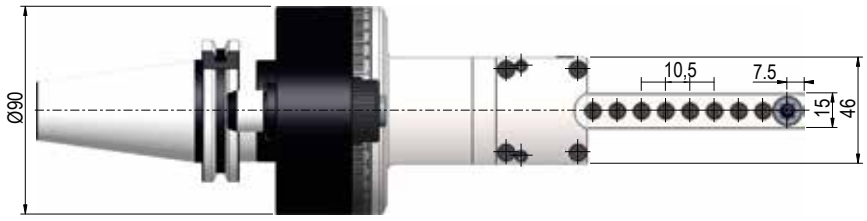
GS90-3XS

TYPE 1

Price: **€ 6.990**



* POSSIBILITÁ DI LUNGHEZZE DIFFERENTI CON STEP DA 10,5mm
POSSIBILITY OF DIFFERENT LENGHT WITH 10,5mm STEP





Dati tecnici - Technical data

Ratio 1:3,19	Kg 5,34
Rpm 10.000	Ø 3,5
-	-
Nm 2.3	GS90-3XS Ø2/3,5

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks		**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size		30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €		**95**	**-**	**237**	**-**	**-**	**95**	**-**	**237**	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)		**X**	**196**	**237**	**196**	**237**	**X**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H	Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
	Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A		256	256	256	256	256	251	256	262	263	263	266	259	259	261
B		35	35	35	35	35	30	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 8,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

PINZA - COLLETS GS90-3XS Ø2 - 2,5 - 3 - 3,5	232

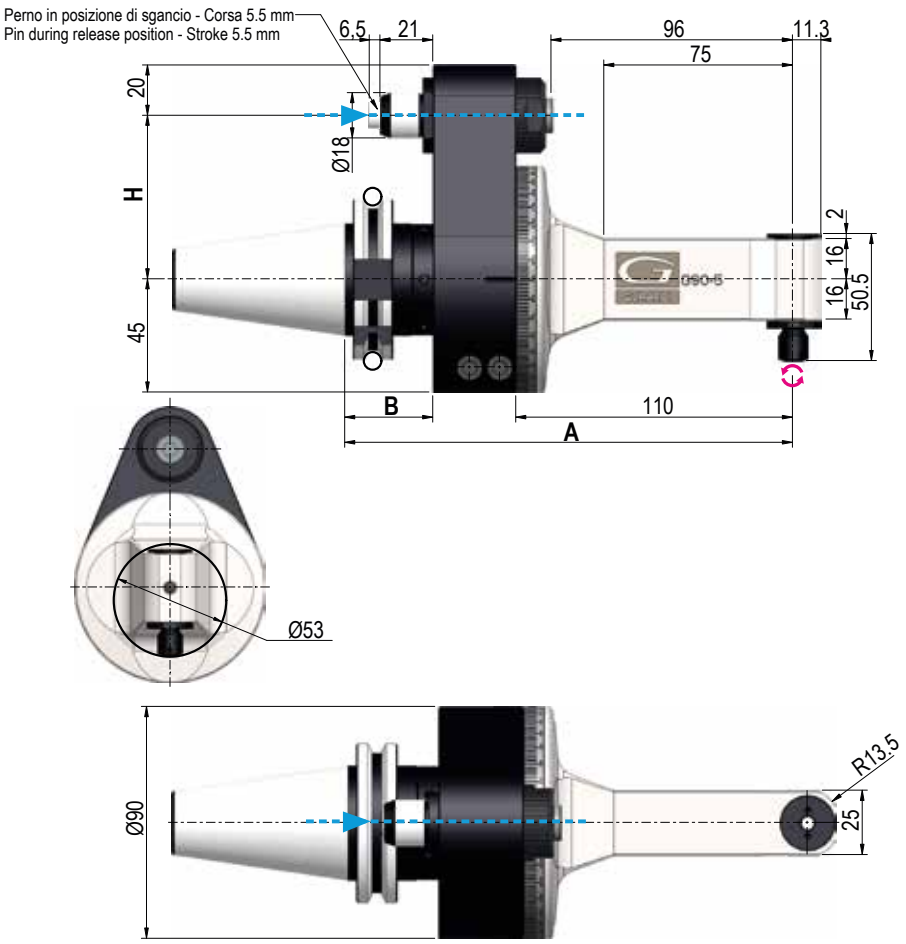
1

G90-5

TYPE 1

Price: **€ 3.121**





Dati tecnici - Technical data

- Ratio 1:1
- **ISO / BT 30** Kg 3,1 — **ISO / BT 40** Kg 3,7
- Rpm 10.000
- Ø 5
- N 60
- M 4
- Nm 4
- ER8 Ø0,5/5

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks		**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size		30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €		**95**	-	-	-	-	**95**	-	-	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)		**X**	**196**	**237**	**196**	**237**	**196**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H	Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
	Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A		178	178	178	178	178	178	178	184	185	185	188	181	181	183
B		35	35	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS — **€**

OUTPUT - WELDON MAX Ø6 — **180**

GM90-5

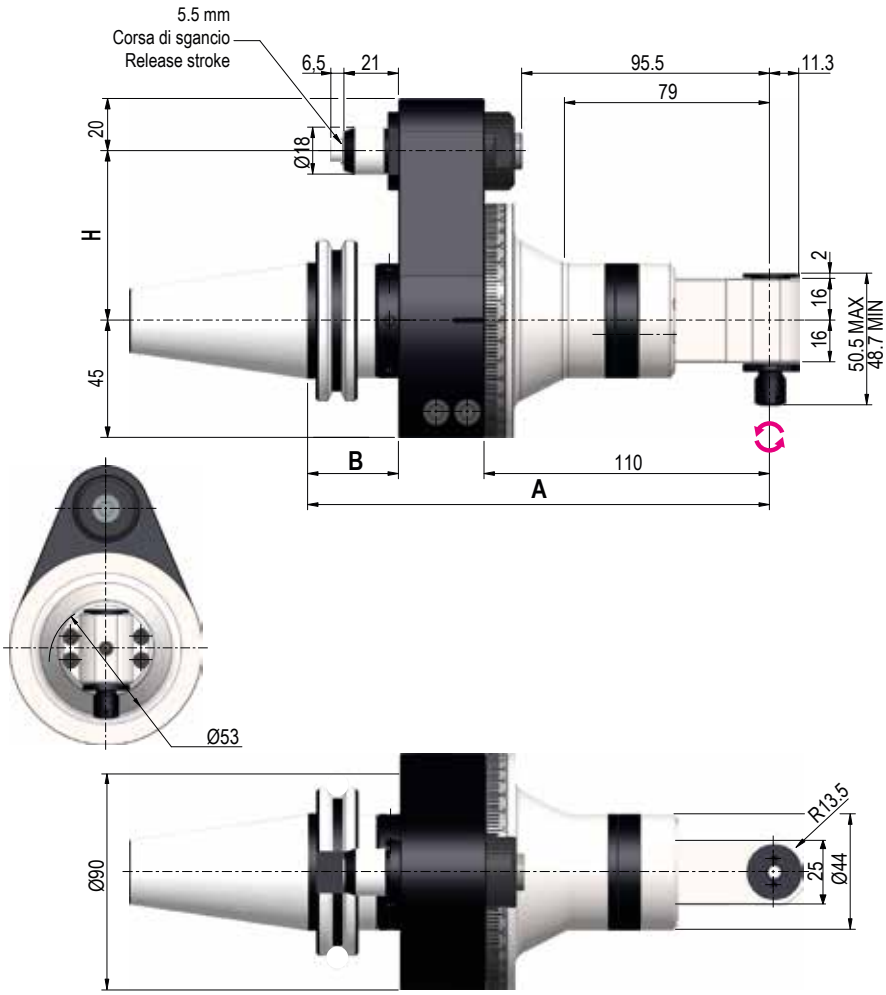
TYPE 1

Price: **€ 4.200**



Corpo - Body
€ 3.142

Torretta - Turret
RA - 100
€ 1.058



Dati tecnici - Technical data

Ratio 1:1	Kg 3,84
Rpm 10.000	Ø 5
N 60	-
Nm 4	ER8 Ø0,5/5

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks		**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size		40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €		-	237	-	237	-	237	200	222	243	412	412	412
Dual contact (Optional)		196	237	196	237	196	237	std	std	std	std	std	std
H	Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
	Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53
A		178	178	178	178	178	184	185	185	188	181	181	183
B		35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS **€**

OUTPUT - WELDON MAX Ø6 **180**

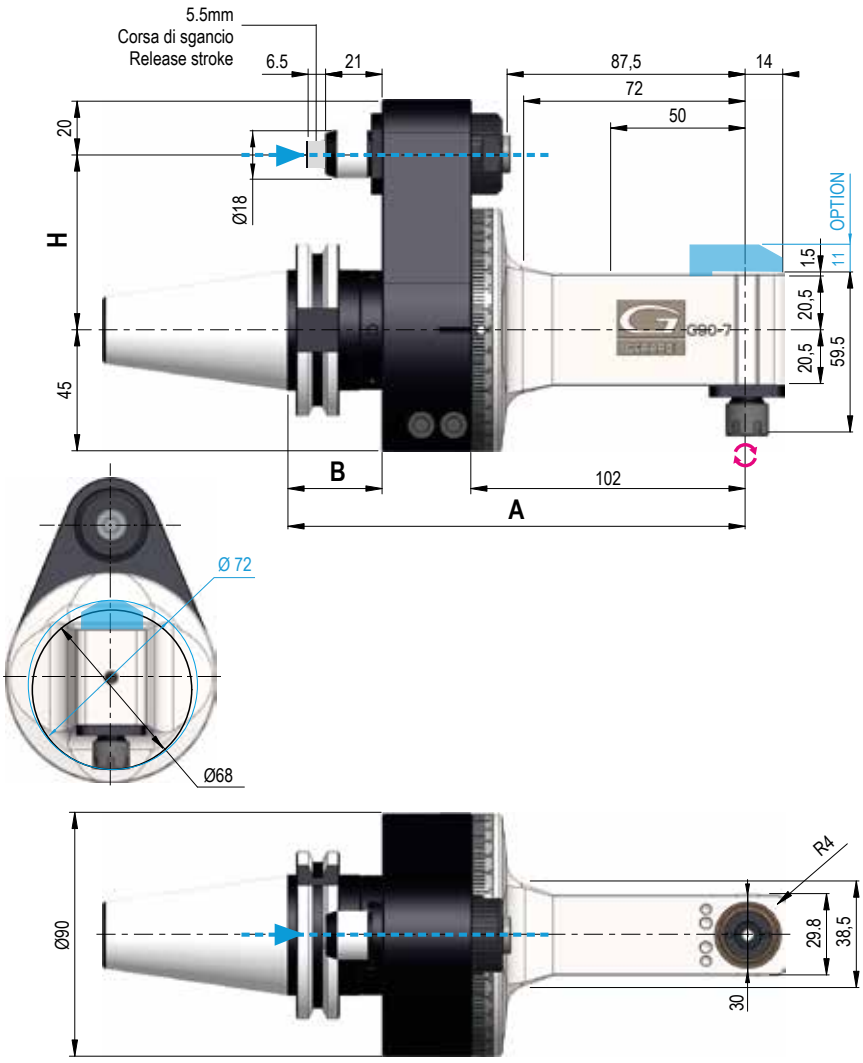
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G90-7

TYPE 1

Price: **€ 3.647**





Dati tecnici - Technical data

Ratio 1:1	Kg 4
Rpm 10.000	Ø 7
N 120	M 6
Nm 5	ER11 Ø1/7

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €	**95**	**-**	**237**	**-**	**237**	**95**	**-**	**237**	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)	**X**	**196**	**237**	**196**	**237**	**196**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A	170	170	170	170	170	170	170	176	177	177	180	173	173	175
B	35	35	35	35	35	35	35	41	42	42	45	38	38	40

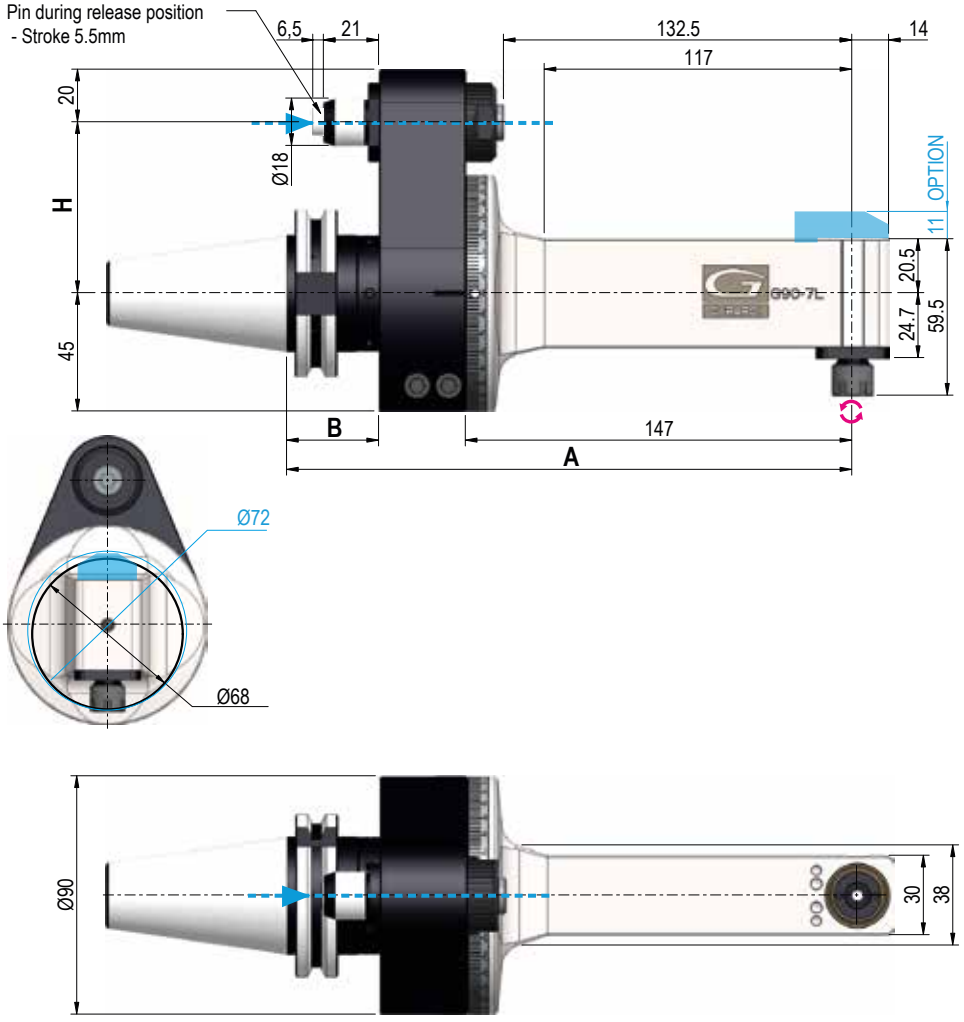
IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

REFR. - COOLANT - dal Perno - Pin through Max 10bar - 6000Rpm - **Dry running YES**	**432**
OUTPUT - Weldon Max Ø8	**280**
DOUBLE OUTPUT - ER11 - ER 8M	**227**

Perno in posizione di sgancio
- Corsa 5.5mm
Pin during release position
- Stroke 5.5mm



G90-7L

TYPE 1

Price: **€ 3.815**



Dati tecnici - Technical data

Ratio 1:1	Kg 4,3
Rpm 10.000	Ø 7
N 120	M 6
Nm 5	ER11 Ø1/7

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €	**95**	**-**	**237**	**-**	**237**	**95**	**-**	**237**	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)	**X**	**196**	**237**	**196**	**237**	**196**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A	215	215	215	215	215	210	215	221	222	222	225	218	218	220
B	35	35	35	35	35	30	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

REFR. - COOLANT - dal Perno - Pin through Max 10bar - 6000Rpm - **Dry running YES**	**432**
OUTPUT - Weldon Max Ø8	**280**
DOUBLE OUTPUT - ER11 - ER 8M	**227**

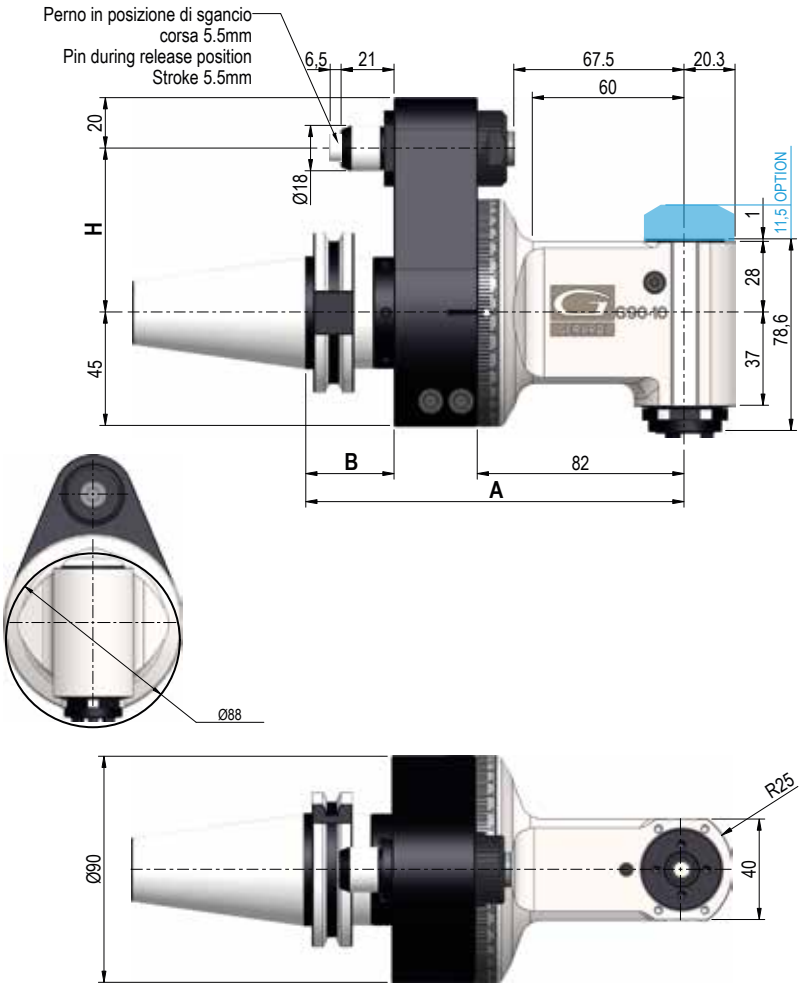
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G90-10

TYPE 1

Price: **€ 2.951**





Dati tecnici - Technical data

Ratio 1:1	Kg 4,3
Rpm 10.000	Ø 10
N 250	M 8
Nm 10	ER16 Ø1/10

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €	95	-	237	-	237	95	-	237	200	222	243	412	412	412
Dual contact (Optional)	X	196	237	196	237	196	196	237	std	std	std	std	std	std
H Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53	53	53
A	150	150	150	150	150	145	150	156	157	157	160	153	153	155
B	35	35	35	35	35	30	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

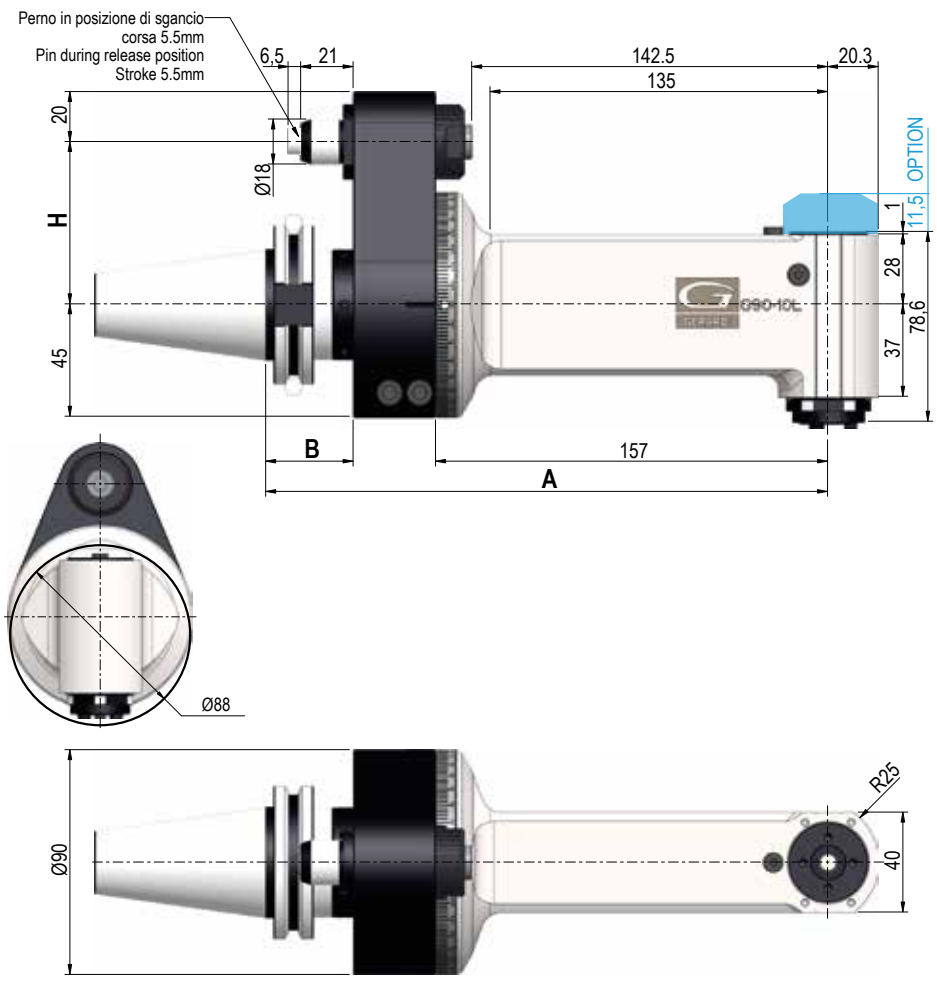
OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 6000Rpm - **Dry running YES**	432
REFR. - COOLANT - dal Cono - Through shank Max 40bar - 6000Rpm - **Dry running NO**	872
OUTPUT - Shell mill holder Ø16	88

OUTPUT - ER20	103
DOUBLE OUTPUT - ER16 - ER 11M	227
OUTPUT - Weldon Max Ø12	130

G90-10L

TYPE 1

Price: **€ 3.689**





Dati tecnici - Technical data

Ratio 1:1		Kg 5,2	
Rpm 10.000		Ø 10	
N 250		M 8	
Nm 10		ER16 Ø1/10	

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €	**95**	**-**	**237**	**-**	**237**	**95**	**-**	**237**	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)	**X**	**196**	**237**	**196**	**237**	**196**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A	225	225	225	225	225	225	225	231	232	232	235	228	228	230
B	35	35	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 8,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 6000Rpm - **Dry running YES**	**432**
REFR. - COOLANT - dal Cono - Through shank Max 40bar - 6000Rpm - **Dry running NO**	**872**
OUTPUT - Shell mill holder Ø16	**88**

OUTPUT - ER20	**103**
DOUBLE OUTPUT - ER16 - ER 11M	**227**
OUTPUT - Weldon Max Ø12	**130**

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G90-16

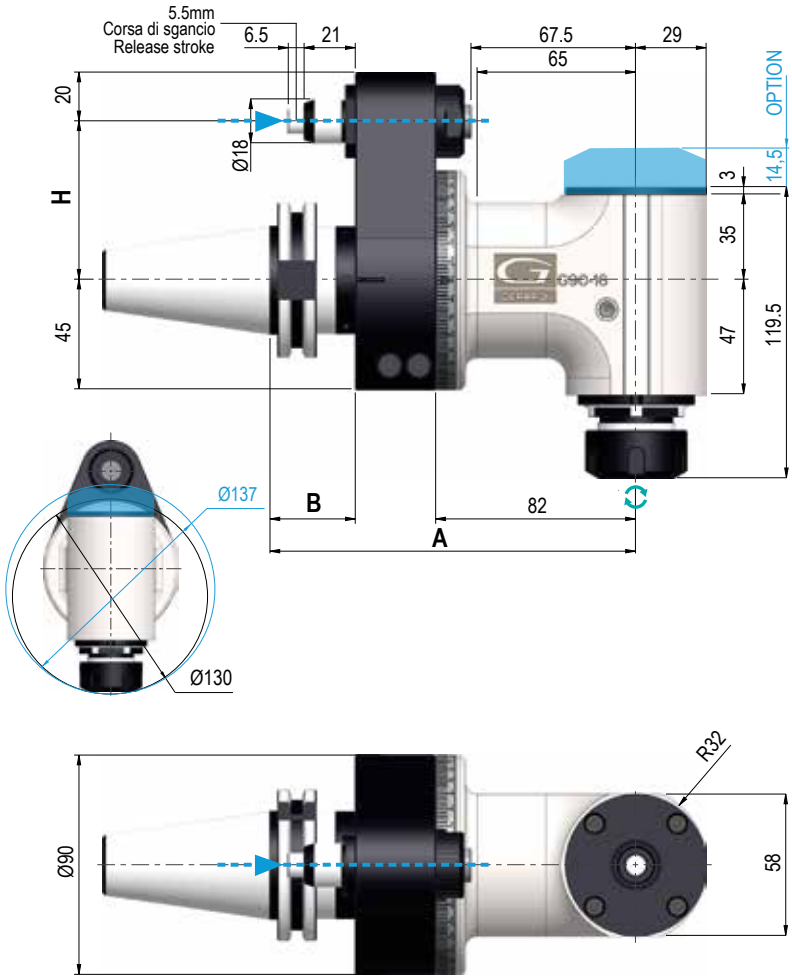
TYPE 1

Price: **€ 3.598**



Dati tecnici - Technical data

Ratio 1:1	Kg 5,4
Rpm 8.000	Ø 16
N 510	M 12
Nm 24	ER25 Ø1/16



Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	200	222	243	412	412	412
Dual contact (Optional)	196	237	196	237	196	237	std	std	std	std	std	std
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53
A	150	150	150	150	150	156	157	157	160	153	153	155
B	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 8,5Kg

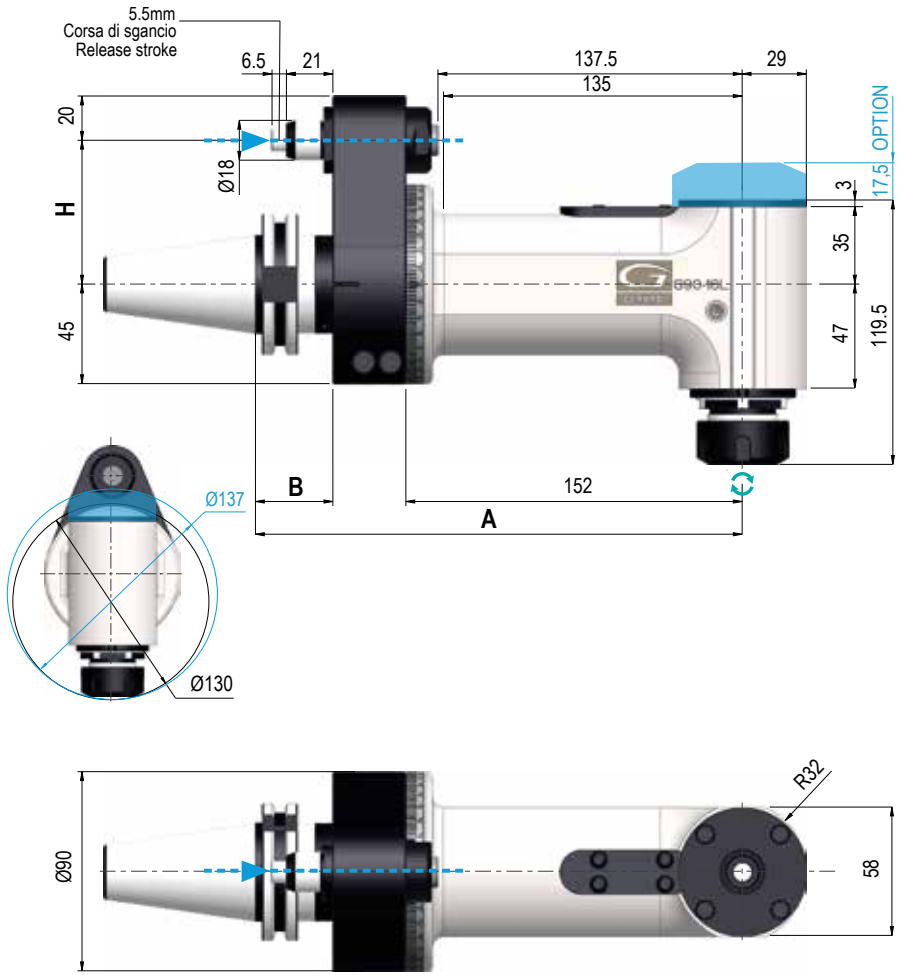
DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - **Dry running YES**	468
REFR. - COOLANT - dal Cono - Through shank Max 40bar - 4000Rpm - **Dry running NO**	888
OUTPUT - Shell mill holder Ø16	88
OUTPUT - ER32	217
DOUBLE OUTPUT - ER25 - ER 16M	309
OUTPUT - Weldon Max Ø16	180
OUTPUT - HSK 32	407

G90-16L

TYPE 1

Price: **€ 4.435**





Dati tecnici - Technical data

Ratio 1:1	Kg 6,7
Rpm 8.000	Ø 16
N 510	M 12
Nm 24	ER25 Ø1/16

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)	**196**	**237**	**196**	**237**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A	220	220	220	220	220	226	227	227	230	223	223	225
B	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 10Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - **Dry running YES**	**468**
REFR. - COOLANT - dal Cono - Through shank Max 40bar - 4000Rpm - **Dry running NO**	**888**
OUTPUT - Shell mill holder Ø16	**88**

OUTPUT - ER32	**217**
DOUBLE OUTPUT - ER25 - ER 16M	**309**
OUTPUT - Weldon Max Ø16	**180**
OUTPUT - HSK 32	**407**

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G90-20

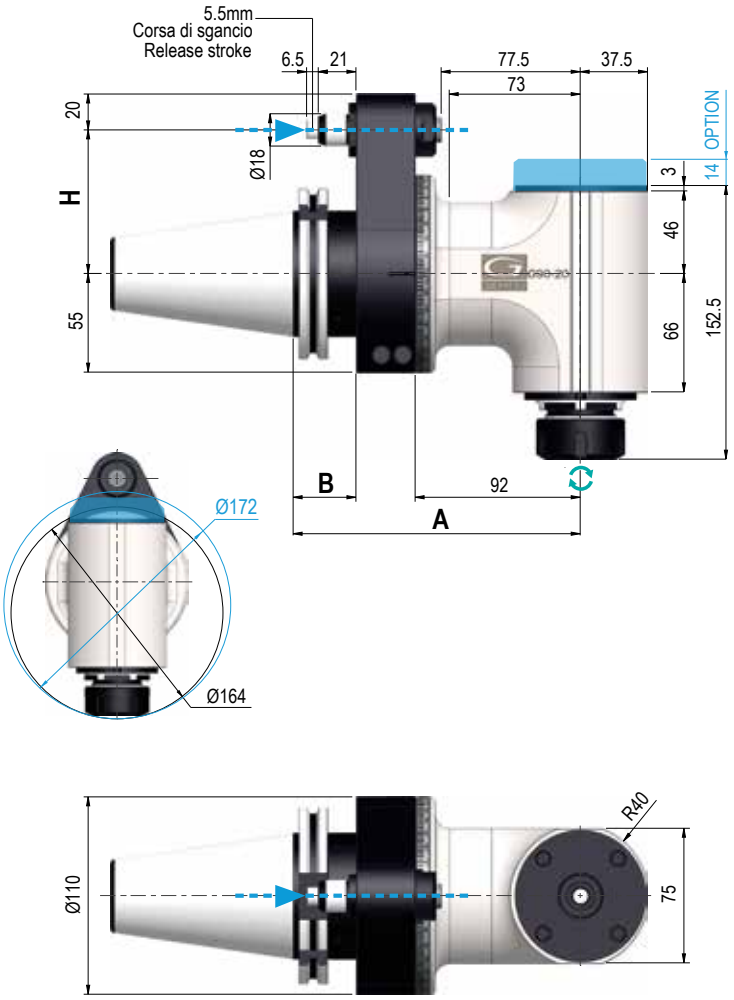
TYPE 2

Price: **€ 3.804**



Dati tecnici - Technical data

Ratio 1:1	Kg 11
Rpm 4.000	Ø 20
N 1.250	M 16
Nm 40	ER32 Ø2/20



Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893			C. ISO 26623	
Grandezza - Size	50	50	50	63	80	100	C6	C8
Extra €	-	-	-	200	222	243	412	412
Dual contact (Optional)	237	237	237	std	std	std	std	std
H Standard	80	80	80	80	80	80	80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53
A	160	160	166	167	167	170	163	165
B	35	35	41	42	42	45	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 14Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm - **Internal coolant NO**	119
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - **Dry running YES**	484
REFR. - COOLANT - dal Cono - Through shank Max **40bar** - 4000Rpm - **Dry running NO**	924
REFR. - COOLANT - dal Cono - Through shank Max **70bar** - 4000Rpm - **Dry running NO**	2.680
OUTPUT - Weldon Max Ø20	-

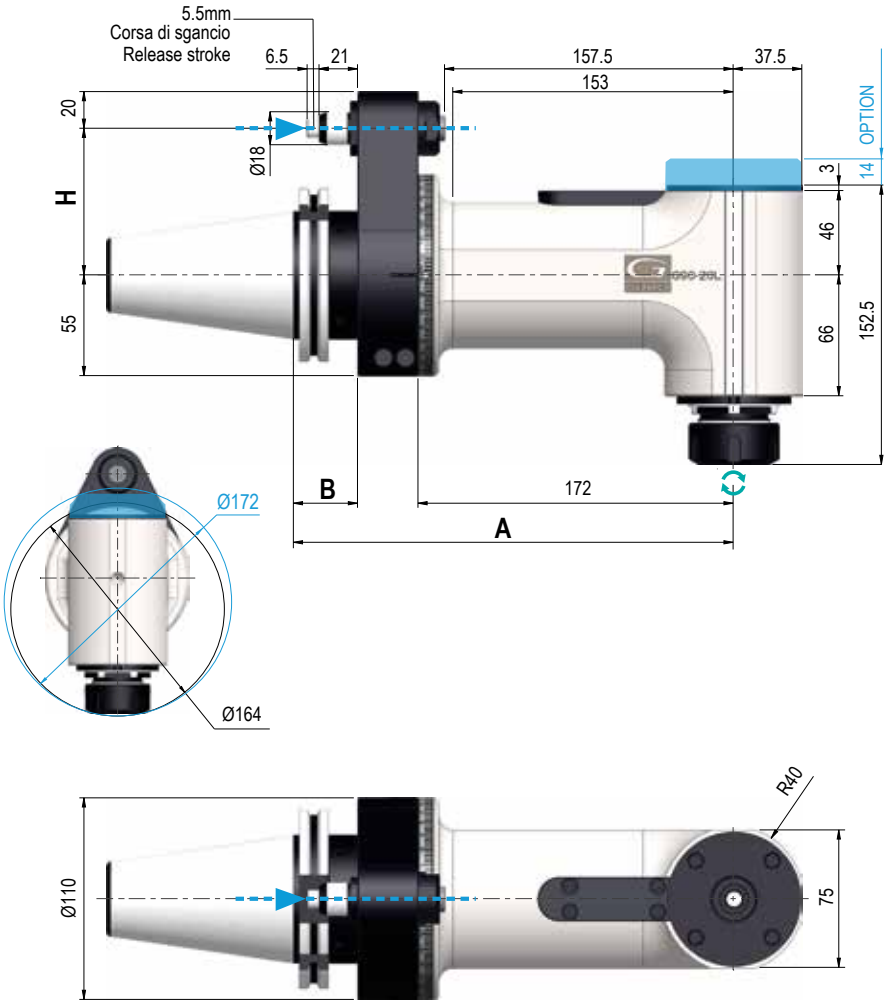
OUTPUT - HSK 40	459
OUTPUT - Shell mill holder Ø22	93
OUTPUT - ISO / CAT / BT 30	181
OUTPUT - C4	495
OUTPUT - ER40	217
DOUBLE OUTPUT - ER32 - ER20M	335

G90-20L

TYPE 2

Price: **€ 4.755**





Dati tecnici - Technical data

Ratio 1:1	Kg 13,8
Rpm 4.000	Ø 20
N 1.250	M 16
Nm 40	ER32 Ø2/20

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871	**CAT** ANSI B5.50	**BT** MAS 403	**HSK** DIN 69893			**C.** ISO 26623	
Grandezza - Size	50	50	50	63	80	100	C6	C8
Extra €	-	-	-	**200**	**222**	**243**	**412**	**412**
Dual contact (Optional)	**237**	**237**	**237**	**std**	**std**	**std**	**std**	**std**
H Standard	80	80	80	80	80	80	80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A	240	240	246	247	247	250	243	245
B	35	35	41	42	42	45	38	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 28Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm - **Internal coolant NO**	**119**
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - **Dry running YES**	**484**
REFR. - COOLANT - dal Cono - Through shank Max **40bar** - 4000Rpm - **Dry running NO**	**924**
REFR. - COOLANT - dal Cono - Through shank Max **70bar** - 4000Rpm - **Dry running NO**	**2.680**
OUTPUT - Weldon Max Ø20	-

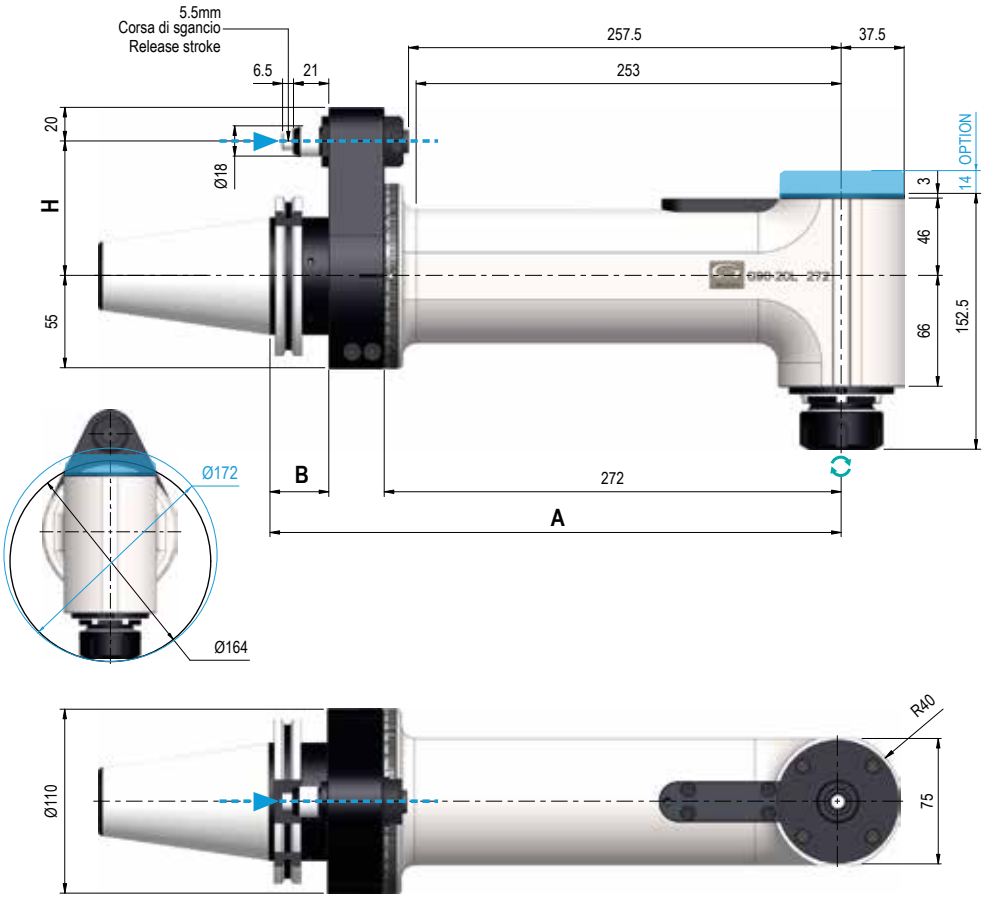
OUTPUT - HSK 40	**459**
OUTPUT - Shell mill holder Ø22	**93**
OUTPUT - ISO / CAT / BT 30	**181**
OUTPUT - C4	**495**
OUTPUT - ER40	**217**
DOUBLE OUTPUT - ER32 - ER20M	**335**

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G90-20L.272 TYPE 2

Price: **€ 6.409**





Dati tecnici - Technical data

Ratio 1:1		Kg 17	
Rpm 4.000		Ø 20	
N 1.250		M 16	
Nm 40		ER32 Ø2/20	

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623	
Grandezza - Size	50	50	50	80	100	C6	C8
Extra €	-	-	-	222	243	412	412
Dual contact (Optional)	237	237	237	std	std	std	std
H Standard	80	80	80	80	80	80	80
H Optional 110 Extra €	53	53	53	53	53	53	53
A	340	340	346	347	350	343	345
B	35	35	41	42	45	38	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 31Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

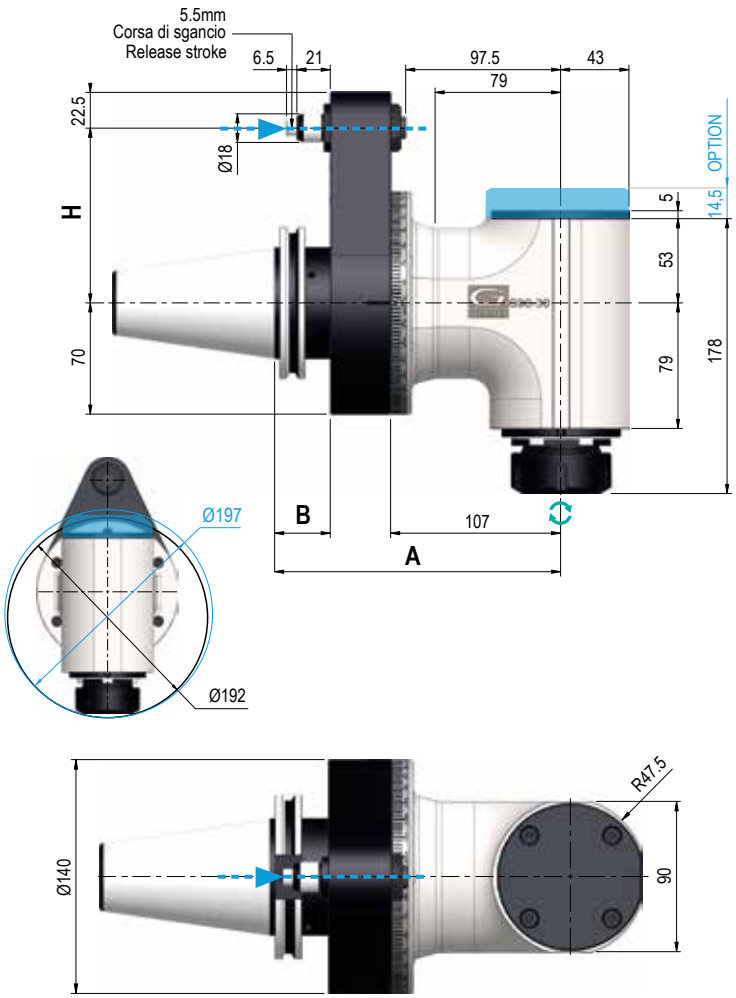
OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - **Dry running YES**	468
REFR. - COOLANT - dal Cono - Through shank Max **40bar** - 4000Rpm - **Dry running NO**	925
OUTPUT - Weldon Max Ø20	-
OUTPUT - HSK 40	459
OUTPUT - Shell mill holder Ø22	93
OUTPUT - ISO / CAT / BT 30	181
OUTPUT - C4	498
DOUBLE OUTPUT - ER32 - ER20M	335

G90-30

TYPE 3

Price: **€ 4.483**





Dati tecnici - Technical data

Ratio 1:1	Kg 17
Rpm 4.000	Ø 30
N 1.750	M 20
Nm 100	ER40 Ø3/30

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871	**CAT** ANSI B5.50	**BT** MAS 403	**HSK** DIN 69893		**C.** ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Extra €	-	-	-	222	243	412
Dual contact (Optional)	237	237	237	std	std	std
H Standard	110	110	110	110	110	110
A	180	180	186	187	190	185
B	35	35	41	42	45	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 31Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 5000 Rpm - Internal coolant NO	119
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - Dry running YES	495
REFR. - COOLANT - dal Cono - Through shank Max **30bar** - 4000Rpm - Dry running NO	936
REFR. - COOLANT - dal Cono - Through shank Max **70bar** - 4000Rpm - Dry running NO	2.890
OUTPUT - Weldon Max Ø25	385

OUTPUT - HSK 40	459
OUTPUT - Shell mill holder Ø27	93
OUTPUT - ISO / CAT / BT 30	181
OUTPUT - C4	495
DOUBLE OUTPUT - ER32 - ER20M	351

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G90-30L

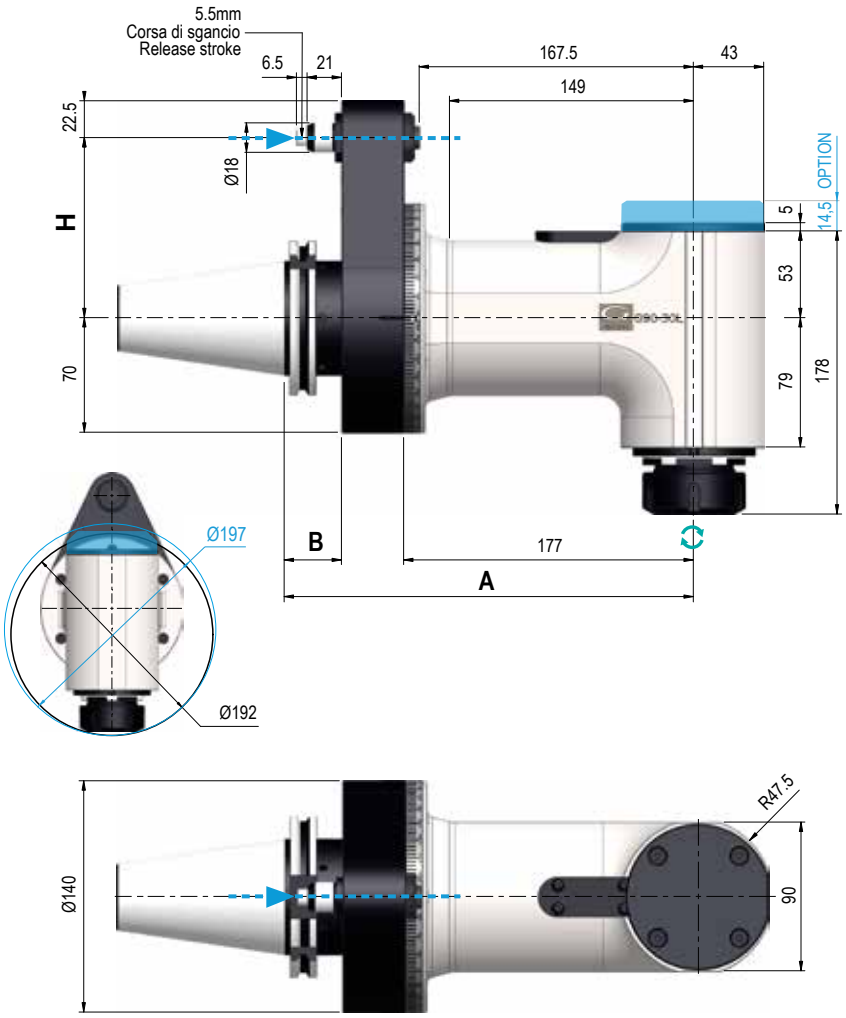
TYPE 3

Price: **€ 5.593**



Dati tecnici - Technical data

Ratio 1:1	Kg 20
Rpm 4.000	Ø 30
N 1.750	M 20
Nm 100	ER40 Ø3/30



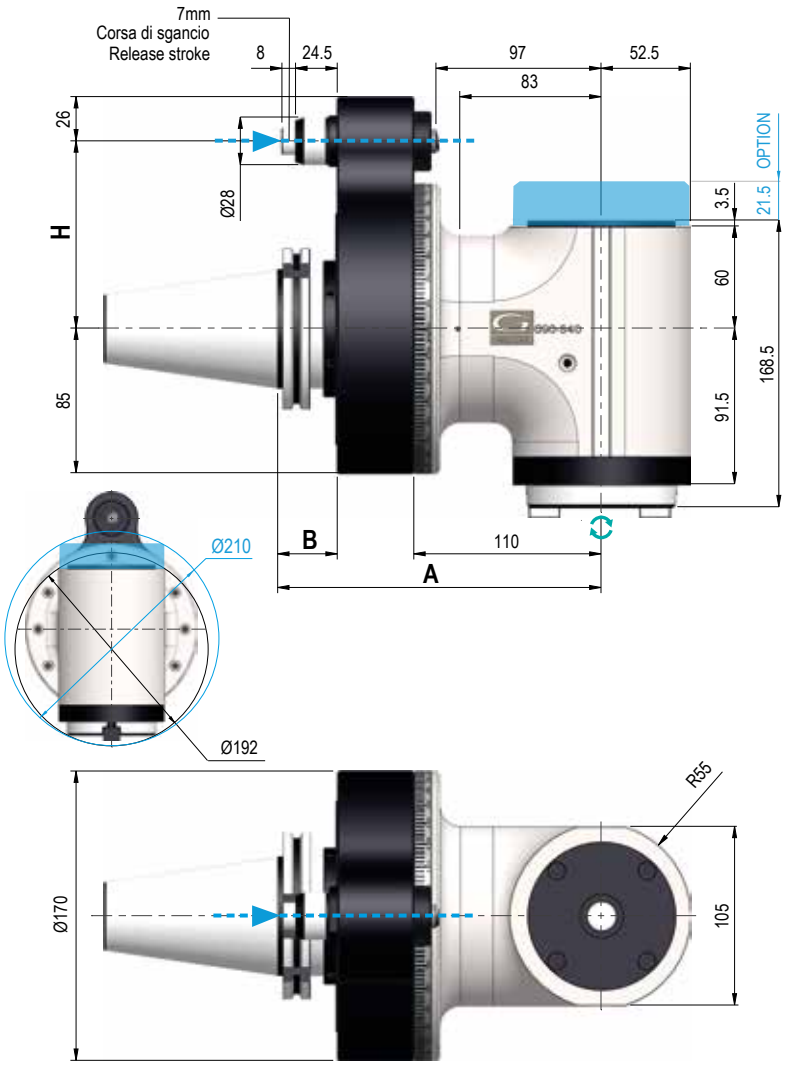
Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Extra €	-	-	-	222	243	412
Dual contact (Optional)	237	237	237	std	std	std
H Standard Ø18	110	110	110	110	110	110
A	250	250	256	257	260	255
B	35	35	41	42	45	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 34Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm - Internal coolant NO	119
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - Dry running YES	495
REFR. - COOLANT - dal Cono - Through shank Max **40bar** - 4000Rpm - Dry running NO	936
REFR. - COOLANT - dal Cono - Through shank Max **70bar** - 4000Rpm - Dry running NO	2.890
OUTPUT - Weldon Max Ø25	385
OUTPUT - HSK 40	459
OUTPUT - Shell mill holder Ø27	93
OUTPUT - ISO 30	181
OUTPUT - C4	495
DOUBLE OUTPUT - ER40 - ER25M	335



G90-S40

TYPE 4

Price: **€ 5.481**



Dati tecnici - Technical data

Ratio 1:1	Kg 22
Rpm 4.000	Ø 26
N 1.800	M 20
Nm 140	ISO 40 / CAT / BT40

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871	**CAT** ANSI B5.50	**BT** MAS 403	**HSK** DIN 69893		**C.** ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Extra €	-	-	-	**222**	**243**	**412**
Dual contact (Optional)	**237**	**237**	**237**	**std**	**std**	**std**
H Standard Ø28	110	110	110	110	110	110
A	190	190	196	197	200	195
B	35	35	41	42	45	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 36Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 5000 Rpm - **Internal coolant NO**	**121**
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - **Dry running YES**	**521**
REFR. - COOLANT - dal Cono - Through shank Max **30bar** - 4000Rpm - **Dry running NO**	**961**
REFR. - COOLANT - dal Cono - Through shank Max **70bar** - 4000Rpm - **Dry running NO**	**3.152**

OUTPUT - Weldon Max Ø26	-
OUTPUT - HSK 63	**711**
OUTPUT - Shell mill holder Ø27	**93**
OUTPUT - C4	**495**
OUTPUT - C5	**608**

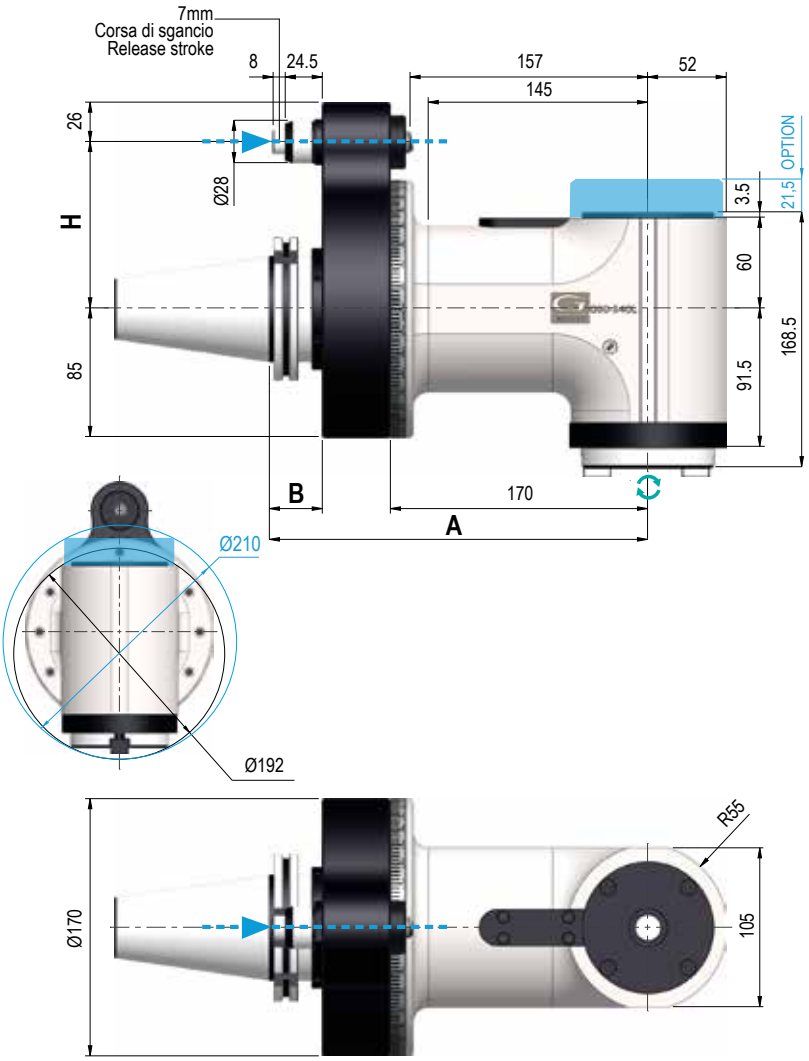
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G90-S40L

TYPE 4

Price: **€ 6.714**





Dati tecnici - Technical data

Ratio 1:1	Kg 26,2
Rpm 4.000	Ø 26
N 1.800	M 20
Nm 140	ISO 40 / CAT / BT40

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871	**CAT** ANSI B5.50	**BT** MAS 403	**HSK** DIN 69893		**C.** ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Extra €	-	-	-	**222**	**243**	**412**
Dual contact (Optional)	**237**	**237**	**237**	**std**	**std**	**std**
H Standard Ø28	110	110	110	110	110	110
A	250	250	256	257	260	255
B	35	35	41	42	45	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 40,5Kg

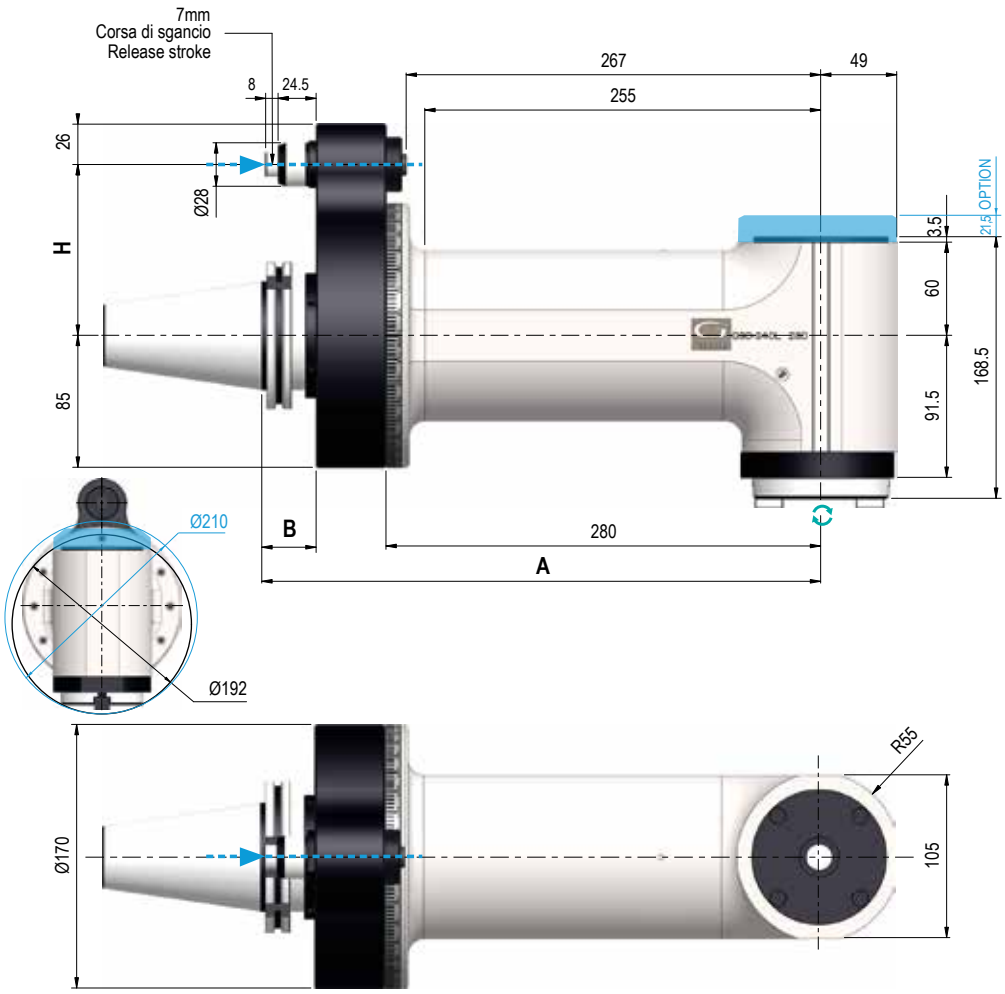
DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 5000 Rpm - **Internal coolant NO**	**121**
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - **Dry running YES**	**521**
REFR. - COOLANT - dal Cono - Through shank Max **30bar** - 4000Rpm - **Dry running NO**	**961**
REFR. - COOLANT - dal Cono - Through shank Max **70bar** - 4000Rpm - **Dry running NO**	**3.152**

OUTPUT - Weldon Max Ø26	-
OUTPUT - HSK 63	**711**
OUTPUT - Shell mill holder Ø32	**93**
OUTPUT - C4	**495**
OUTPUT - C5	**608**

G90-S40L.280 TYPE 4

Price: **€ 7.344**





Dati tecnici - Technical data

Ratio 1:1	Kg 32,4
Rpm 4.000	Ø 26
N 1.800	M 20
Nm 140	ISO/BT/ CAT 40

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871	**CAT** ANSI B5.50	**BT** MAS 403	**HSK** DIN 69893	**C.** ISO 26623
Grandezza - Size	50	50	50	100	C8
Extra €	-	-	-	243	412
Dual contact (Optional)	237	237	237	std	std
H Standard Ø28	110	110	110	110	110
A	360	360	366	370	365
B	35	35	41	45	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 79Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - **Dry running YES**	521
REFR. - COOLANT - dal Cono - Through shank Max **30bar** - 4000Rpm - **Dry running NO**	961
REFR. - COOLANT - dal Cono - Through shank Max **70bar** - 4000Rpm - **Dry running NO**	3.152
OUTPUT - Weldon Max Ø26	-

OUTPUT - HSK 63	711
OUTPUT - Shell mill holder Ø32	93
OUTPUT - C4	495
OUTPUT - C5	608

1

G90-10L.240 TYPE 1

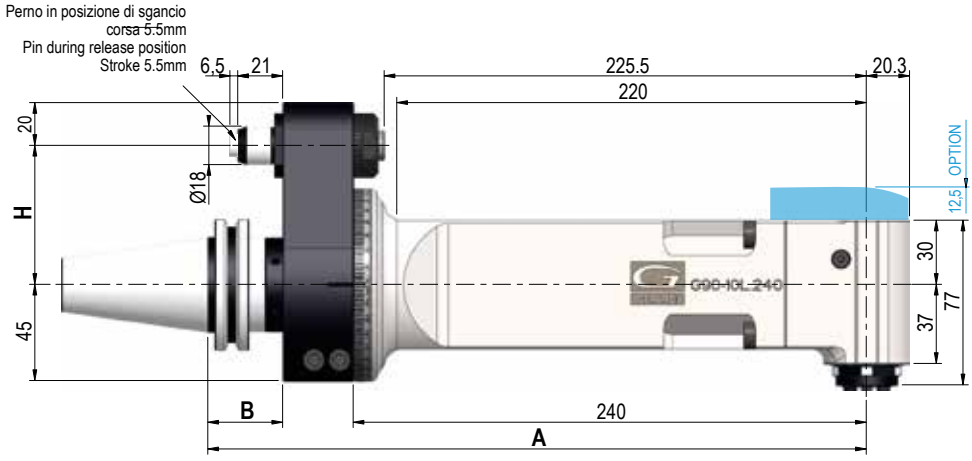
Price: **€ 6.263**

NEW 2025



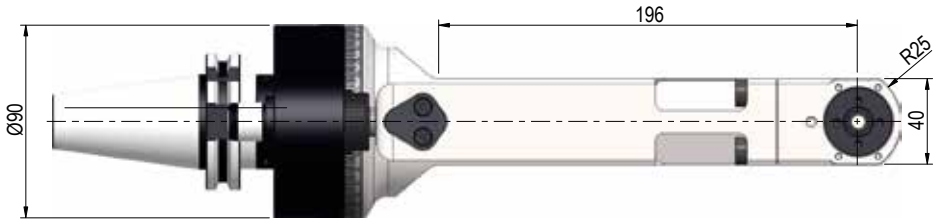
Dati tecnici - Technical data

Ratio 1:1	Kg 6,3
Rpm 6.000	Ø 10
N 250	M 8
Nm 10	ER16 Ø1/10





POSSIBILITÁ DI LUNGHEZZE DIFFERENTI
POSSIBILITY OF DIFFERENT LENGHTS



Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	200	222	243	824	824	824
Dual contact (Optional)	196	237	196	237	196	237	std	std	std	std	std	std
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53
A	308	308	308	308	308	314	315	315	318	311	311	313
B	35	35	35	35	35	41	42	42	45	38	38	40

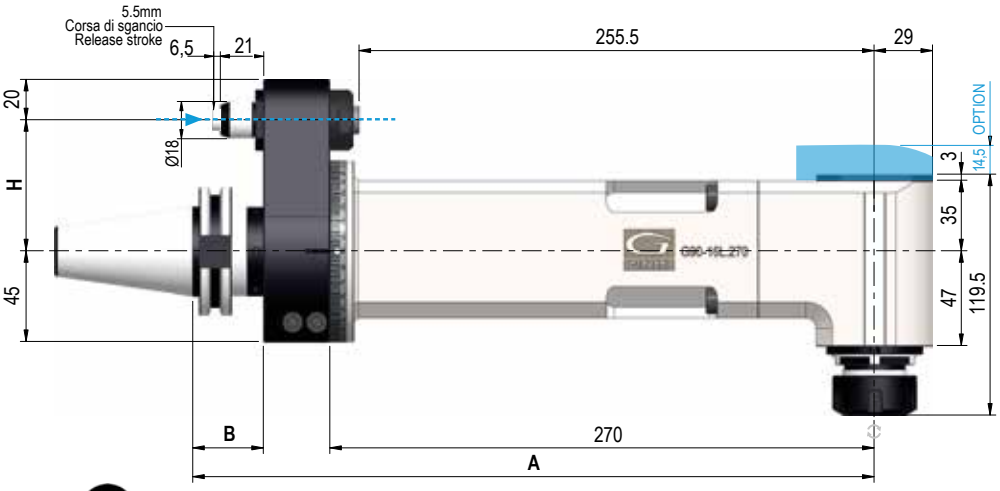
IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 9,5Kg

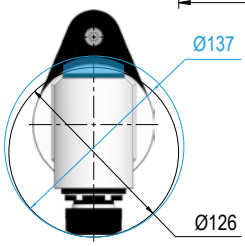
DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 6000Rpm - **Dry running YES**	432
REFR. - COOLANT - dal Cono - Through shank Max **40bar** - 6000Rpm - **Dry running NO**	872
OUTPUT - Shell mill holder Ø16	88
OUTPUT - ER20	103
DOUBLE OUTPUT - ER16 - ER 11M	227
OUTPUT - Weldon Max Ø12	130

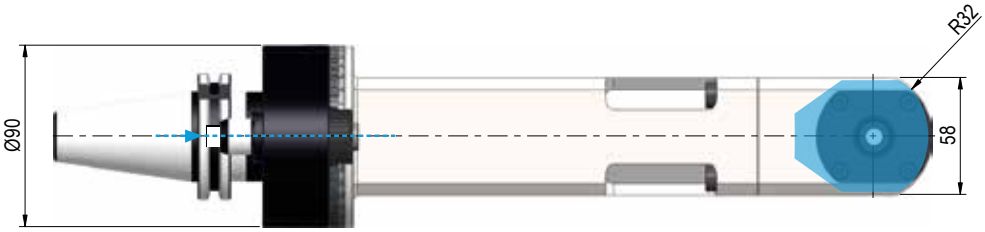
G90-16L.270 TYPE 1

Price: **€ 7.087**





POSSIBILITÁ DI LUNGHEZZE DIFFERENTI
POSSIBILITY OF DIFFERENT LENGHTS





Dati tecnici - Technical data

- Ratio 1:1
- Kg 8,9
- Rpm 4.000
- Ø 16
- N 510
- M 12
- Nm 24
- ER25 Ø1/16

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	200	222	243	824	824	824
Dual contact (Optional)	196	237	196	237	196	237	std	std	std	std	std	std
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53
A	338	338	338	338	338	344	345	345	348	341	341	343
B	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 12Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - 4000Rpm - **Dry running YES**	468
REFR. - COOLANT - dal Cono - Through shank Max **40bar** - 4000Rpm - **Dry running NO**	888
OUTPUT - Shell mill holder Ø16	88
OUTPUT - ER32	217
DOUBLE OUTPUT - ER25 - ER 16M	309
OUTPUT - Weldon Max Ø16	180
OUTPUT - HSK 32	407

1

G90-20L.332

TYPE 2

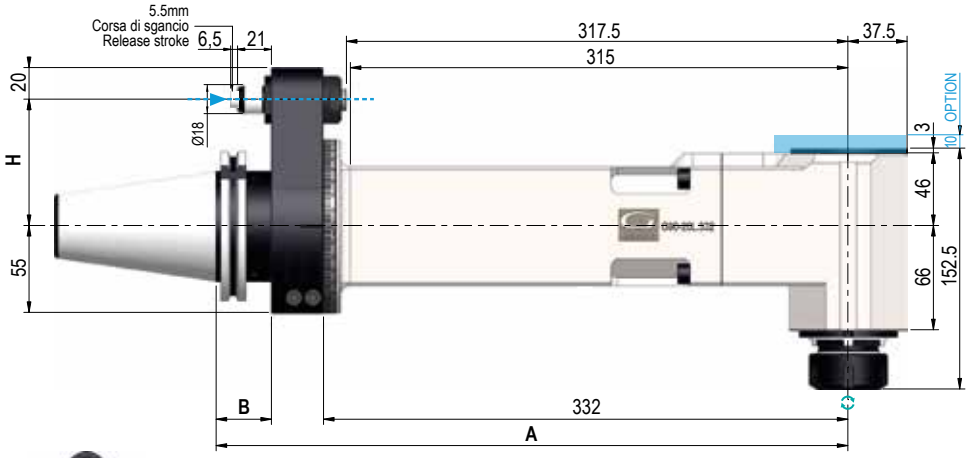
Price: **€ 7.319**

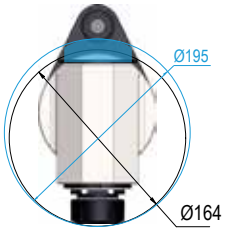
NEW 2025



Dati tecnici - Technical data

Ratio 1:1	Kg 20,5
Rpm 4.000	Ø 20
N 1250	M 16
Nm 40	ER32 Ø2/20





POSSIBILITÁ DI LUNGHEZZE DIFFERENTI
POSSIBILITY OF DIFFERENT LENGHTS



Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Extra €	-	-	-	**222**	**243**	**824**
Dual contact (Optional)	**237**	**237**	**237**	**std**	**std**	**std**
H Standard Ø28	80	80	80	80	80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**
A	400	400	406	407	410	405
B	35	35	41	42	45	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 35Kg

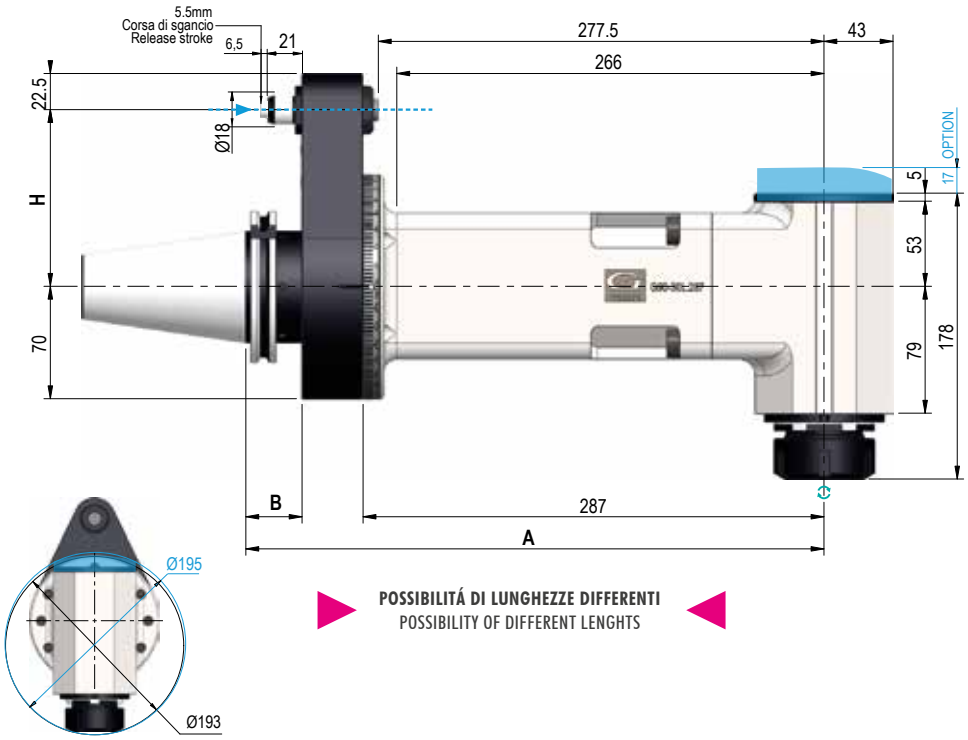
DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - **Dry running YES**	468
REFR. - COOLANT - dal Cono - Through Shank 40bar - **Dry running NO**	924
DOUBLE OUTPUT - ER32 - ER 20M	335
OUTPUT - Weldon Max Ø20	-
OUTPUT - HSK 40	459
OUTPUT - Shell mill holder Ø22	93
OUTPUT - C4	495
OUTPUT - ISO / CAT / BT 30	181

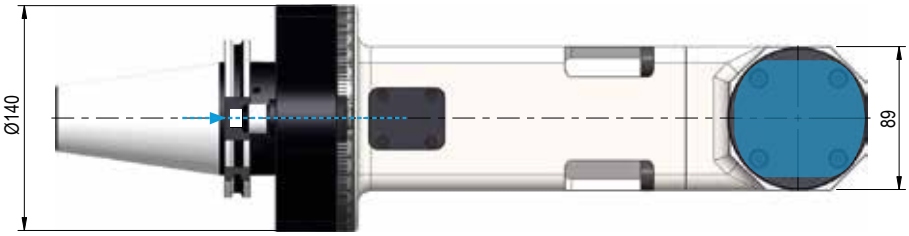
G90-30L.287 TYPE 3

Price: **€ 8.080**





POSSIBILITÁ DI LUNGHEZZE DIFFERENTI
POSSIBILITY OF DIFFERENT LENGHTS



Dati tecnici - Technical data

Ratio 1:1	Kg 22,5
Rpm 4.000	Ø 30
N 1750	M 20
Nm 100	ER40 Ø3/30

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871	**CAT** ANSI B5.50	**BT** MAS 403	**HSK** DIN 69893		**C.** ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Extra €	-	-	-	222	243	824
Dual contact (Optional)	237	237	237	std	std	std
H Standard Ø28	110	110	110	110	110	110
A	360	360	366	367	370	365
B	35	35	41	42	45	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 36,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Perno - Pin through Max 10bar - **Dry running YES**	494
REFR. - COOLANT - dal Cono - Through Shank 40bar - **Dry running NO**	936
DOUBLE OUTPUT - ER40 - ER 25M	351
OUTPUT - Weldon Max Ø25	385
OUTPUT - HSK 40	459
OUTPUT - Shell mill holder Ø27	93
OUTPUT - C4	495
OUTPUT - ISO / CAT / BT 30	181

1

GMU-13

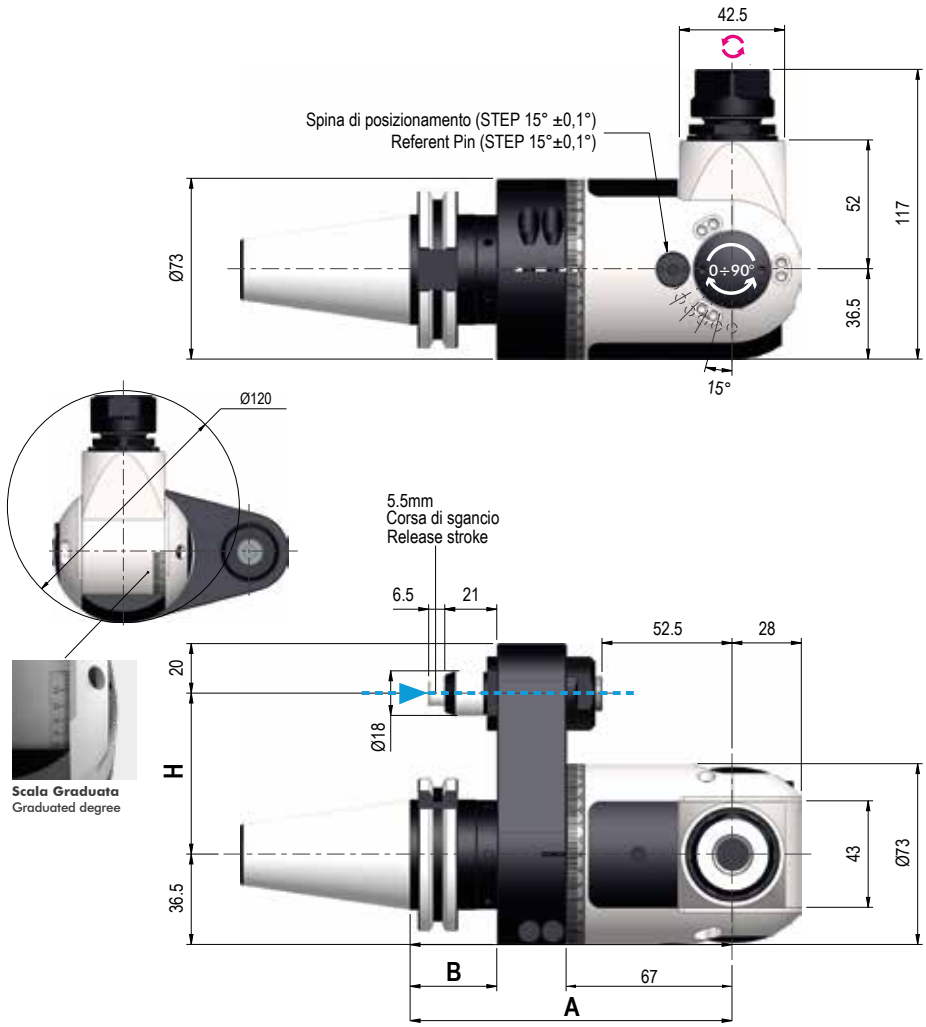
TYPE 0

Price: **€ 4.007**



Dati tecnici - Technical data

Ratio 1:1	Kg 4,4
Rpm 4.000	Ø 13
N 450	M 10
Nm 6	ER20 Ø1/13



Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)	**196**	**196**	**237**	**196**	**237**	**196**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A	130	130	130	130	130	125	130	136	137	137	140	133	133	135
B	35	35	35	35	35	30	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 7,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

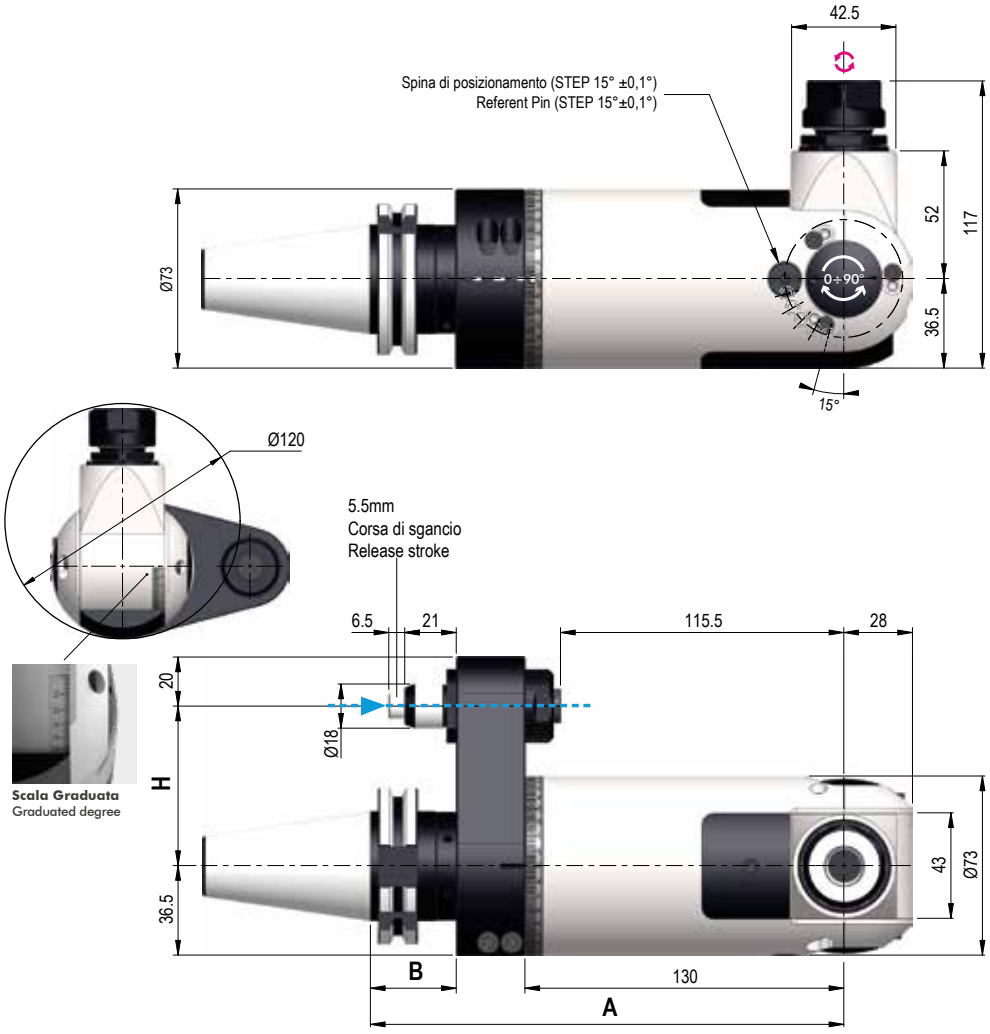
HIGH SPEED - 6000 Rpm	**119**
QUICK POSITIONING - Customized Angles	**299**
OUTPUT - ER 25	**217**

GMU-13L

TYPE 0

Price: **€ 5.249**





Dati tecnici - Technical data

Ratio 1:1	Kg 6,3
Rpm 4.000	Ø 13
N 450	M 10
Nm 6	ER20 Ø1/13

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks		**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size		40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €		-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)		**196**	**237**	**196**	**237**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H	Standard	65	80	65	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
	Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A		193	193	193	193	193	199	200	200	203	196	196	198
B		35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 11Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

HIGH SPEED - 6000 Rpm	**119**
QUICK POSITIONING - Customized Angles	**299**
OUTPUT - ER 25	**217**

1

GMU-16

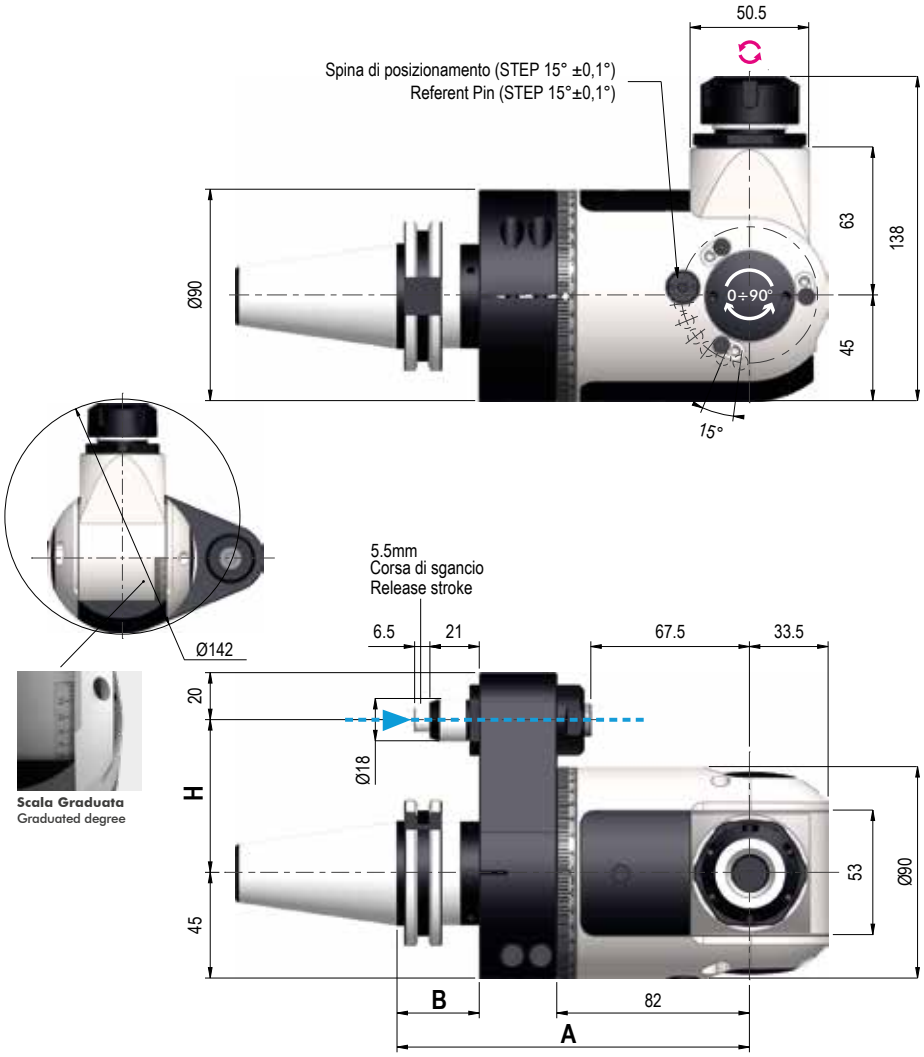
TYPE 1

Price: **€ 4.216**



Dati tecnici - Technical data

Ratio 1:1	Kg 6,8
Rpm 4.000	Ø 16
N 480	M 12
Nm 18	ER25 Ø1/16



Scala Graduata
Graduated degree

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	200	222	243	412	412	412
Dual contact (Optional)	196	237	196	237	196	237	std	std	std	std	std	std
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53
A	150	150	150	150	150	156	157	157	160	153	153	155
B	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 10Kg

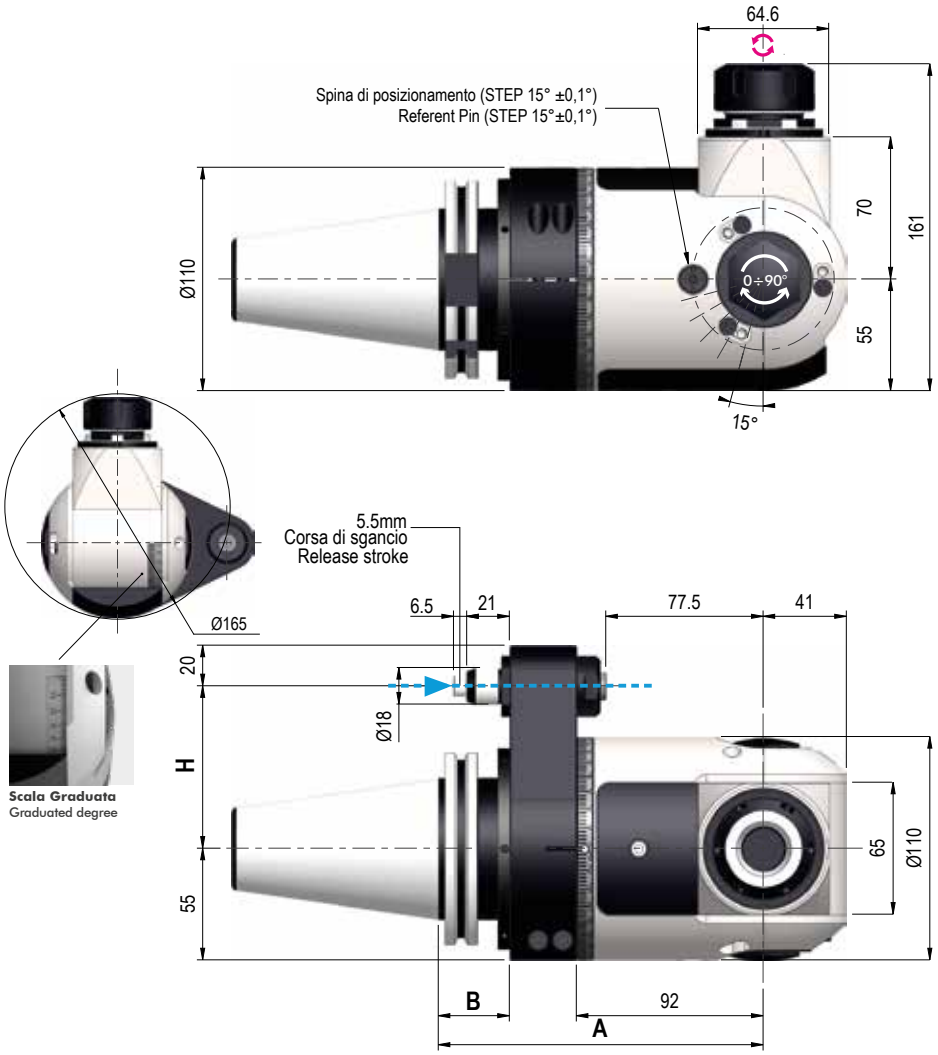
DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm	119
QUICK POSITIONING - Customized Angles	299

GMU-20

TYPE 2

Price: € 4.516





Dati tecnici - Technical data

Ratio 1:1	Kg 13
Rpm 4.000	Ø 20
N 715	M 16
Nm 32	ER32 Ø2/20

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623	
Grandezza - Size	50	50	50	80	100	C6	C8
Extra €	-	-	-	222	243	412	412
Dual contact (Optional)	237	237	237	std	std	std	std
H Standard	80	80	80	80	80	80	80
H Optional 110 Extra €	53	53	53	53	53	53	53
A	160	160	166	167	170	163	165
B	35	35	41	42	45	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 16Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm	119
QUICK POSITIONING - Customized Angles	299

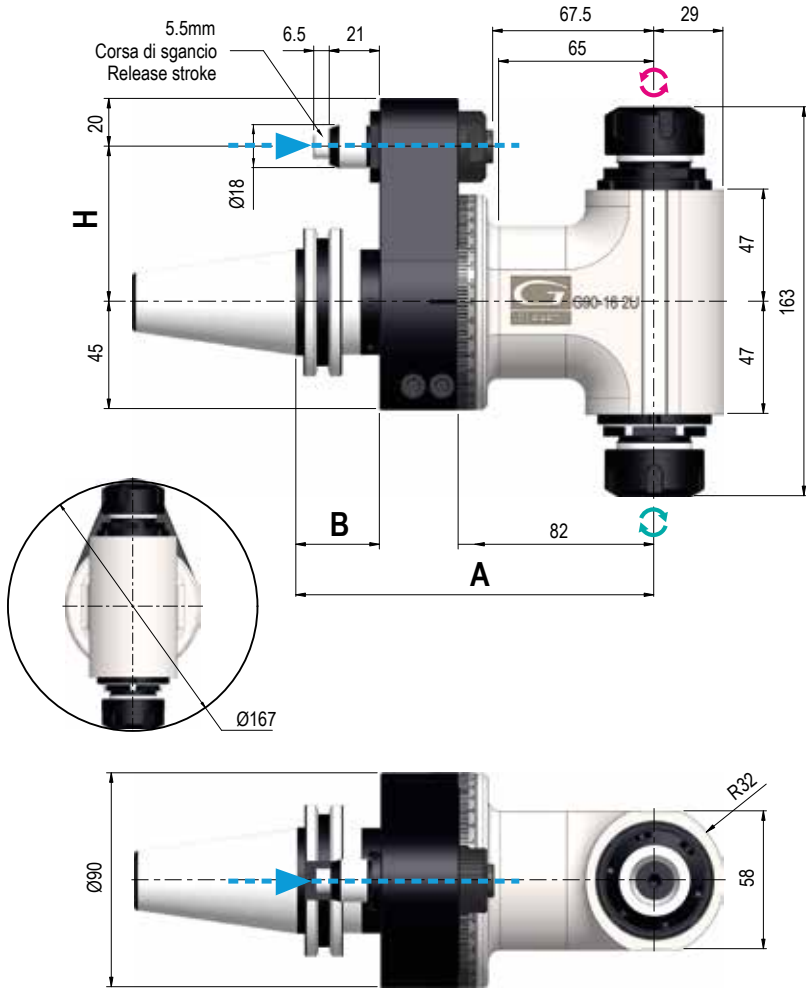
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G90-16 2U

TYPE 1

Price: **€ 4.413**





Dati tecnici - Technical data

Ratio 1:1	Kg 6,4
Rpm 4.000	Ø 16
N 510	M 12
Nm 24	ER25 Ø1/16

Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	200	222	243	412	412	412
Dual contact (Optional)	196	237	196	237	196	237	std	std	std	std	std	std
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53
A	150	150	150	150	150	156	157	157	160	153	153	155
B	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 9,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

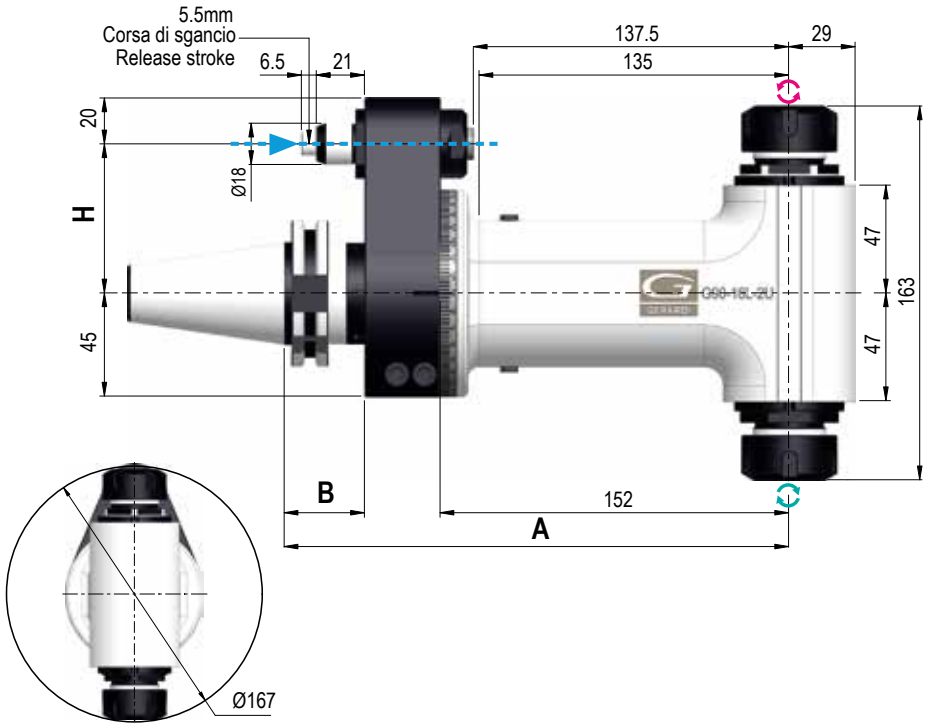
OPZIONI - OPTIONS	€

HIGH SPEED - 8000 Rpm	119
OUTPUT - Weldon Max Ø16 (X2)	360
OUTPUT - Shell mill holder Ø16 (X2)	186

G90-16L 2U

TYPE 1

Price: **€ 5.249**





Dati tecnici - Technical data

Ratio 1:1	Kg 13
Rpm 4.000	Ø 16
N 510	M 12
Nm 24	ER25 Ø1/16

Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)	**196**	**237**	**196**	**237**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A	220	220	220	220	220	226	227	227	230	223	223	225
B	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 27Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 8000 Rpm	**119**
OUTPUT - Weldon Max Ø16 (X2)	**360**
OUTPUT - Shell mill holder Ø16 (X2)	**186**

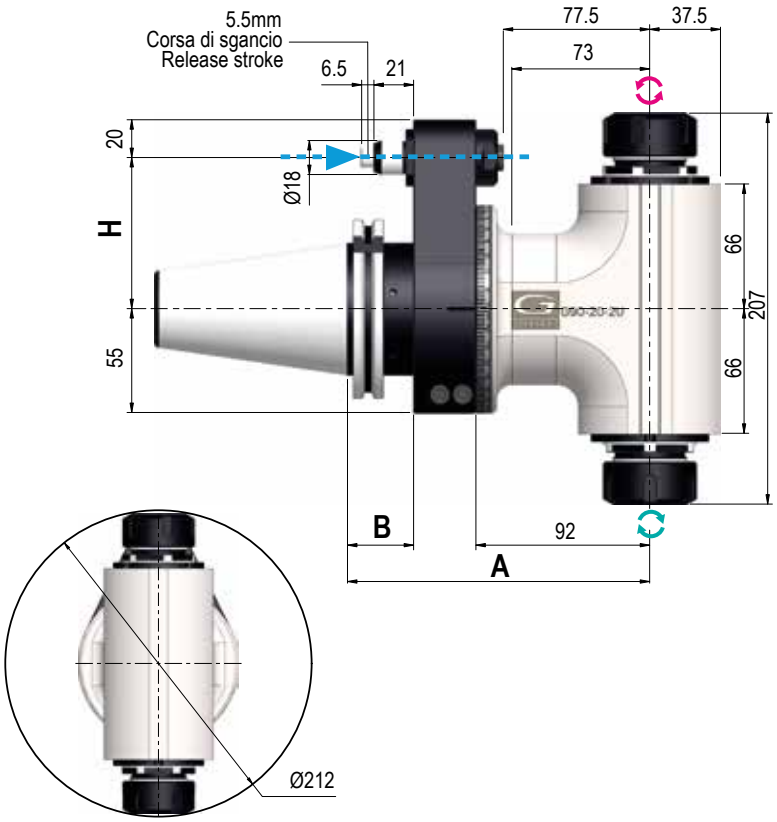
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G90-20-2U

TYPE 2

Price: **€ 4.683**





Dati tecnici - Technical data

Ratio 1:1	Kg 11,7
Rpm 4.000	Ø 20
N 1250	M 16
Nm 40	ER32 Ø2/20

Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

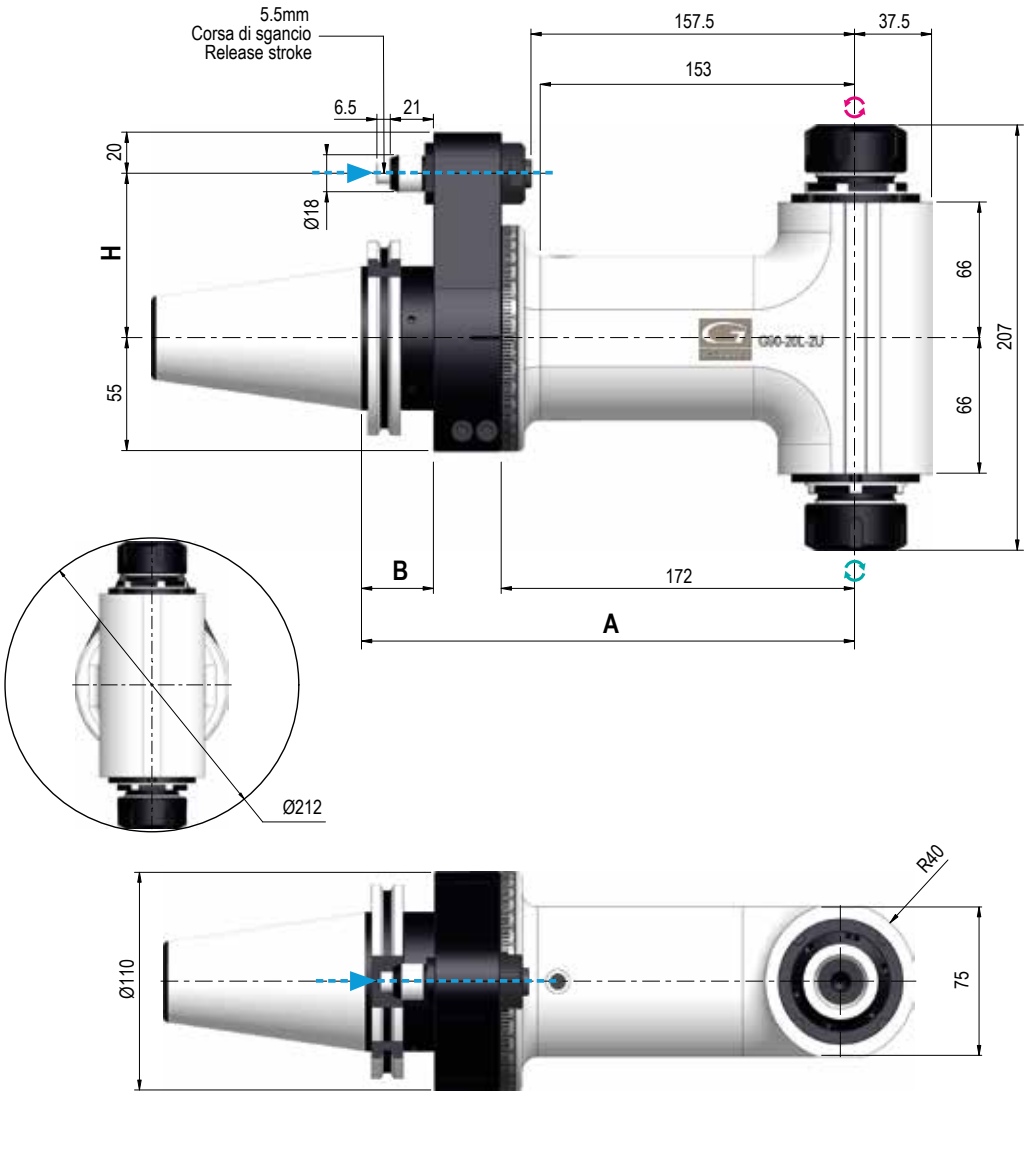
Coni - Shanks	**SK** DIN 69871	**CAT** ANSI B5.50	**BT** MAS 403	**HSK** DIN 69893			**C.** ISO 26623	
Grandezza - Size	50	50	50	63	80	100	C6	C8
Extra €	-	-	-	**200**	**222**	**243**	**412**	**412**
Dual contact (Optional)	**237**	**237**	**237**	**std**	**std**	**std**	**std**	**std**
H Standard	80	80	80	80	80	80	80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A	160	160	166	167	167	170	163	165
B	35	35	41	42	42	45	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 15Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

HIGH SPEED - 6000 Rpm	**119**
OUTPUT - Weldon Max Ø20 (X2)	**-**
OUTPUT - Shell mill holder Ø27 (X2)	**186**



G90-20L-2U

TYPE 2

Price: **€ 5.634**



Dati tecnici - Technical data

Ratio 1:1	Kg 15,5
Rpm 4.000	Ø 20
N 1.250	M 16
Nm 40	ER-32 Ø2/20

Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks		**SK** DIN 69871	**CAT** ANSI B5.50	**BT** MAS 403	**HSK** DIN 69893			**C.** ISO 26623
Grandezza - Size		50	50	50	80	100	C6	C8
Extra €		-	-	-	**222**	**243**	**412**	**412**
Dual contact (Optional)		**237**	**237**	**237**	**std**	**std**	**std**	**std**
H	Standard	80	80	80	80	80	80	80
	Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A		240	240	246	247	250	243	245
B		35	35	41	42	45	38	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 29,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm	**119**
OUTPUT - Weldon Max Ø20 (X2)	**-**
OUTPUT - Shell mill holder Ø27 (X2)	**186**

1

G90-30-2U

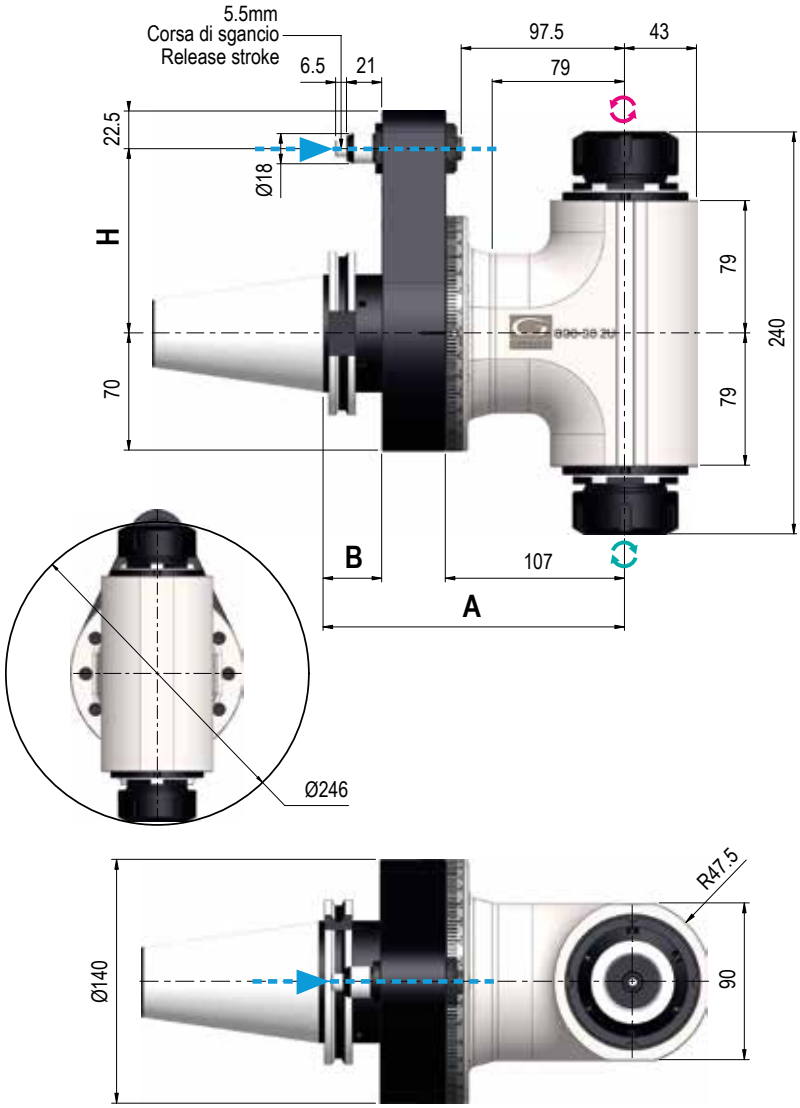
TYPE 3

Price: **€ 5.429**



Dati tecnici - Technical data

Ratio 1:1	Kg 20
Rpm 4.000	Ø 30
N 1750	M 20
Nm 100	ER40 Ø3/30



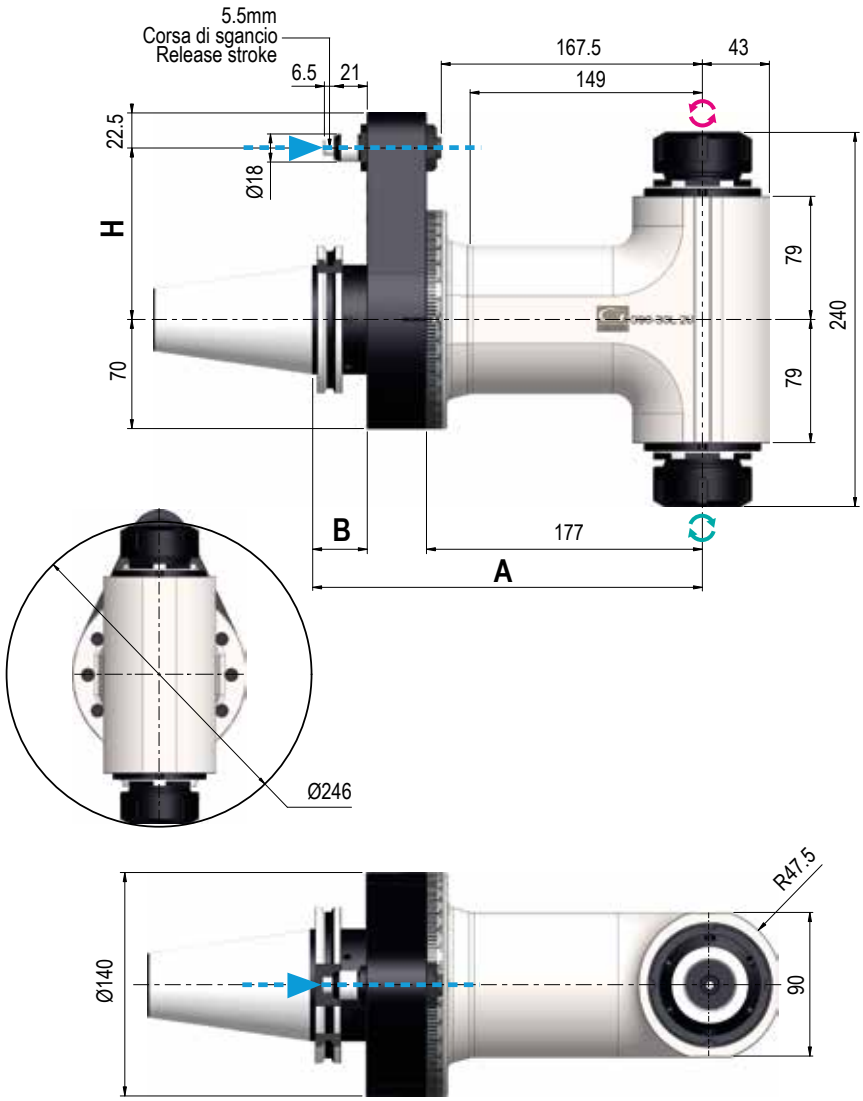
Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893		C. ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Extra €	-	-	-	**222**	**240**	**412**
Dual contact (Optional)	**237**	**237**	**237**	**std**	**std**	**std**
H Standard Ø18	110	110	110	110	110	110
A	180	180	186	187	190	185
B	35	35	41	42	45	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 23Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm	**119**
OUTPUT - Weldon Max Ø25 (X2)	**770**
OUTPUT - Shell mill holder Ø27 (X2)	**186**
OUTPUT - HSK 40 (X2)	**1.020**



G90-30L-2U

TYPE 3

Price: **€ 6.539**



Dati tecnici - Technical data

Ratio 1:1	Kg 23
Rpm 4.000	Ø 30
N 1.750	M 20
Nm 100	ER-40 Ø3/30

Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871	**CAT** ANSI B5.50	**BT** MAS 403	**HSK** DIN 69893		**C.** ISO 26623
Grandezza - Size	50	50	50	80	100	C8
Extra €	-	-	-	**222**	**243**	**412**
Dual contact (Optional)	**237**	**237**	**237**	**std**	**std**	**std**
H Standard Ø18	110	110	110	110	110	110
A	250	250	256	257	260	255
B	35	35	41	42	45	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 37Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm	**119**
OUTPUT - Weldon Max Ø25 (X2)	**770**
OUTPUT - Shell mill holder Ø27 (X2)	**186**
OUTPUT - HSK 40 (X2)	**1.020**

1

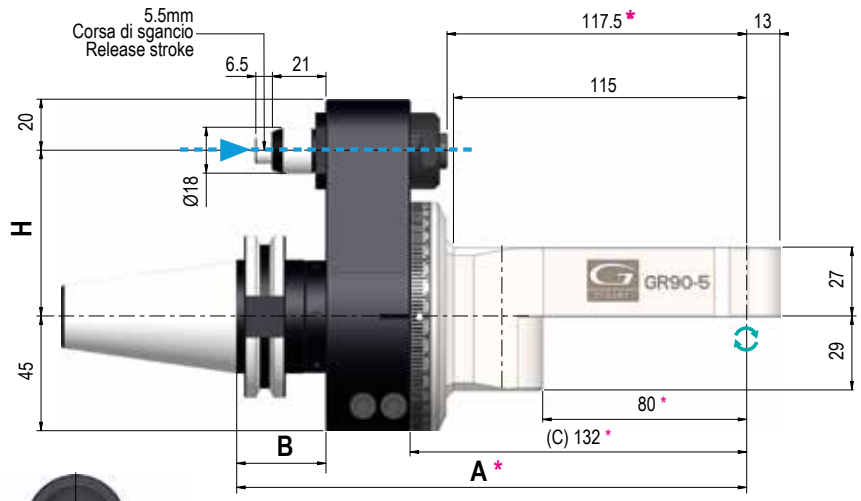
GR90-5

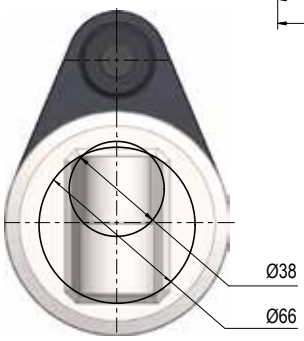
TYPE 1

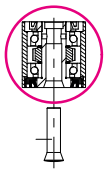
Price: **€ 5.989**

* mm	C	€
+ 16	148	6.389
+ 32	164	6.789

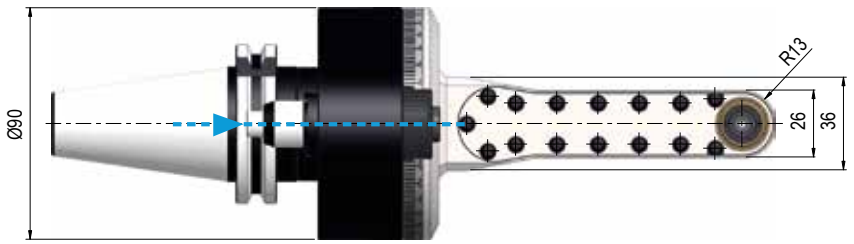








* POSSIBILITÁ DI LUNGHEZZE DIFFERENTI CON STEP DA 16mm
POSSIBILITY OF DIFFERENT LENGHT WITH 16mm STEP



Dati tecnici - Technical data

Ratio 1:1	Kg 4,7
Rpm 8.000	Ø 4,5
N 140	M 4
Nm 9	SCHAUBLIN P6 Ø0,3 / 5

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623		
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8
Extra €	93	-	-	-	-	93	-	-	200	222	243	412	412	412
Dual contact (Optional)	X	196	237	196	237	196	196	237	std	std	std	std	std	std
H Standard	65 / 80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53	53	53
A *	200	200	200	200	200	195	200	206	207	207	210	203	203	205
B	35	35	35	35	35	30	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 8Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
COLLETS - Pinza Schaublin P6 Ø 0,3 - 0,9	258
COLLETS - Pinza Schaublin P6 Ø 1 - 1,9	170
COLLETS - Pinza Schaublin P6 Ø 2 - 3,5	119
COLLETS - Pinza Schaublin P6 Ø 4 - 5	130

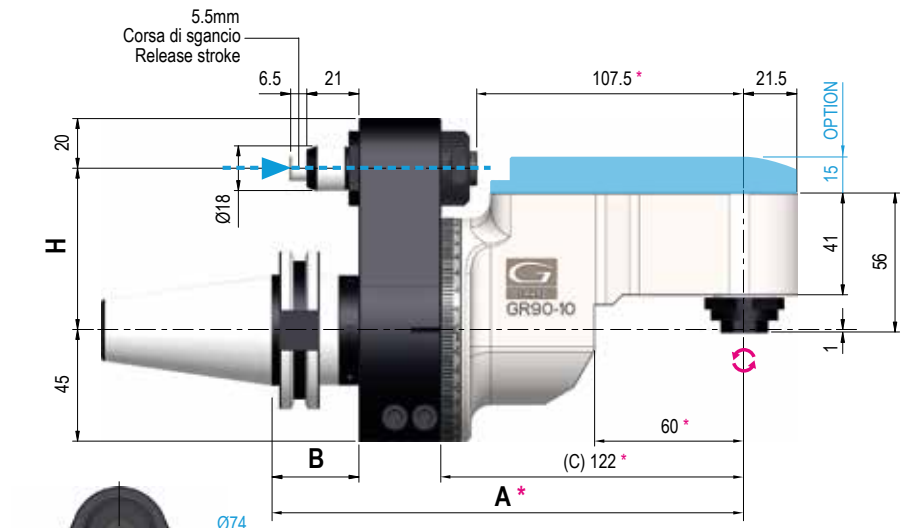
GR90-10

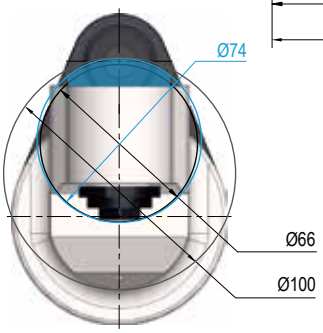
TYPE 1

Price: **€ 4.300**

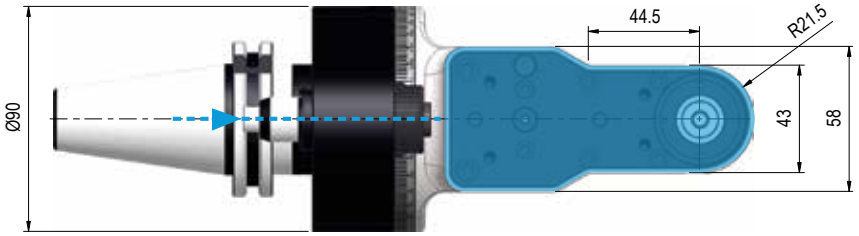


*	mm	C	€
	+ 30	152	5.000
	+ 60	182	5.800
	+ 90	212	6.500





* POSSIBILITÁ DI LUNGHEZZE DIFFERENTI CON STEP DA 30mm
POSSIBILITY OF DIFFERENT LENGHT WITH 30mm STEP



Dati tecnici - Technical data

Ratio 1:1,6	Kg 6,2
Rpm 4.000	Ø 10
N 620	M 8
Nm 20	ER-16 Ø1/10

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**
Dual contact (Optional)	**196**	**237**	**196**	**237**	**196**	**237**	**std**	**std**	**std**	**std**	**std**	**std**
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**	**53**
A *	190	190	190	190	190	196	197	197	200	193	193	195
B	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 9,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 8000 Rpm - **Internal coolant NO**	**119**
REFR. - COOLANT - dal Cono - Through Shank 70bar - **Dry running NO**	**1.892**
OUTPUT - Weldon Max Ø10	**130**
OUTPUT - Shell mill holder Ø13	**186**

1

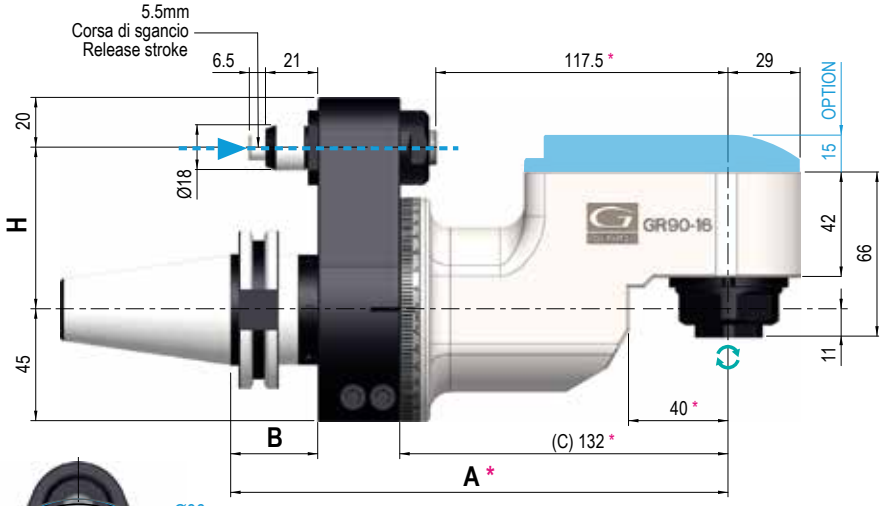
GR90-16

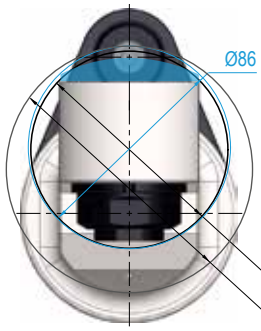
TYPE 1

Price: **€ 4.845**

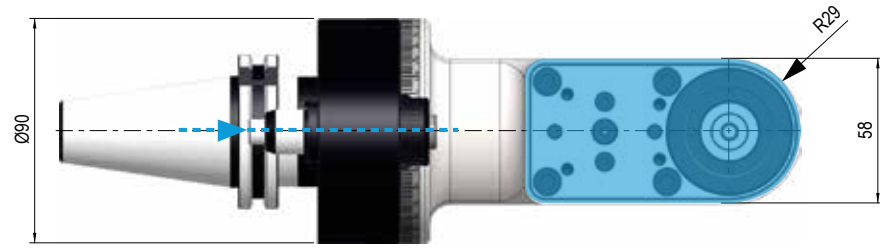
* mm	C	€
+ 50	182	5.445
+ 100	232	5.745







* POSSIBILITÁ DI LUNGHEZZE DIFFERENTI CON STEP DA 50mm
POSSIBILITY OF DIFFERENT LENGHT WITH 50mm STEP



Dati tecnici - Technical data

Ratio 1:1	Kg 6
Rpm 4.000	Ø 16
N 620	M 12
Nm 20	ER-25 Ø1/16

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623		
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8
Extra €	-	-	-	-	-	-	200	222	243	412	412	412
Dual contact (Optional)	196	237	196	237	196	237	std	std	std	std	std	std
H Standard	65 / 80	80	65 / 80	80	65 / 80	80	65 / 80	65 / 80	80	65 / 80	65 / 80	80
H Optional 110 Extra €	53	53	53	53	53	53	53	53	53	53	53	53
A *	200	200	200	200	200	206	207	207	210	203	203	205
B	35	35	35	35	35	41	42	42	45	38	38	40

IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 10Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 8000 Rpm - **Internal coolant NO**	119
REFR. - COOLANT - dal Cono - Through Shank 70bar - **Dry running NO**	1.892
OUTPUT - Weldon Max Ø16	180
OUTPUT - Shell mill holder Ø16	93

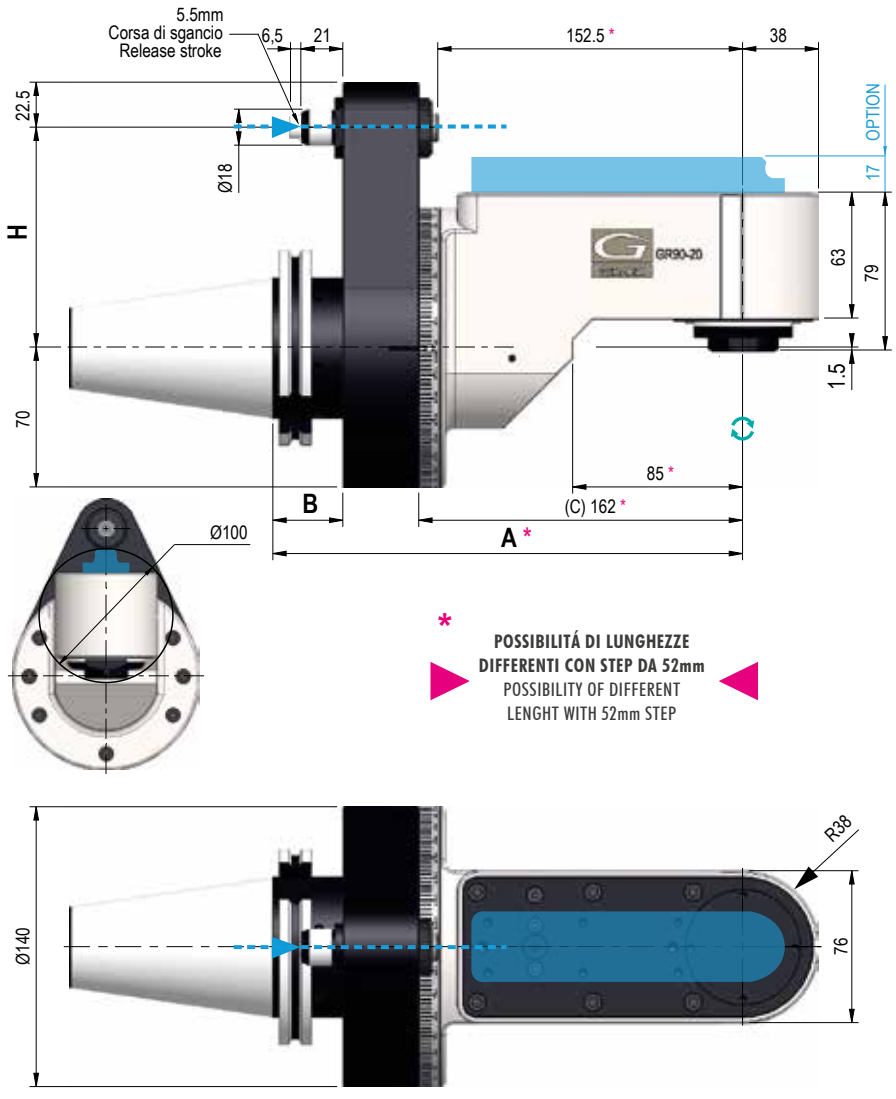
GR90-20

TYPE 3

Price: **€ 5.979**



* mm	C	€
+ 52	214	6.679
+ 104	266	6.979



* POSSIBILITÁ DI LUNGHEZZE DIFFERENTI CON STEP DA 52mm
POSSIBILITY OF DIFFERENT LENGHT WITH 52mm STEP

Dati tecnici - Technical data

- Ratio 1:1
- Kg 15,6
- Rpm 4.000
- Ø 20
- N 1.750
- M 16
- Nm 75
- ER-32 Ø2/20

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871	**CAT** ANSI B5.50	**BT** MAS 403	**HSK** DIN 69893	**C.** ISO 26623
Grandezza - Size	50	50	50	100	C8
Extra €	-	-	-	243	412
Dual contact (Optional)	237	237	237	std	std
H Standard Ø18	110	110	110	110	110
A *	235	235	241	245	240
B	35	35	41	45	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 30Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm - Internal coolant NO	119
REFR. - COOLANT - dal Cono - Through Shank 70bar - Dry running NO	1.892
OUTPUT - Weldon Max Ø20	-
OUTPUT - Shell mill holder Ø16	93

1

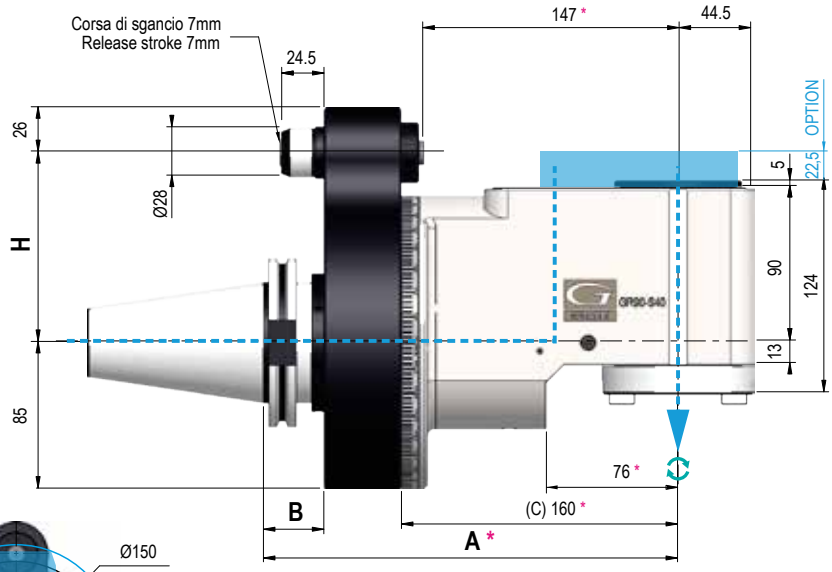
GR90-S40

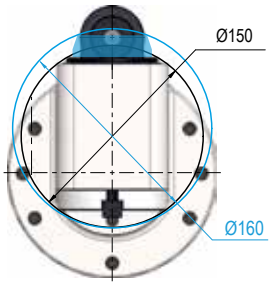
TYPE 4

Price: **€ 6.514**

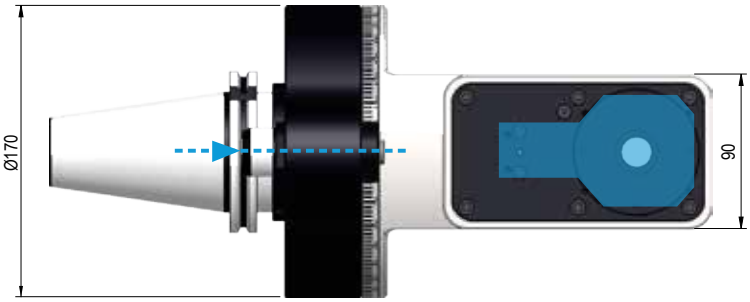
* mm	C	€
+ 68	228	7.314
+ 136	296	7.614







* POSSIBILITÁ DI LUNGHEZZE DIFFERENTI CON STEP DA 68mm
POSSIBILITY OF DIFFERENT LENGHT WITH 68mm STEP



Dati tecnici - Technical data

Ratio 1:1	Kg 22,6
Rpm 4.000	Ø 26
N 1800	M 20
Nm 140	ISO / CAT / BT40

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871	CAT ANSI B5.50	BT MAS 403	HSK DIN 69893	C. ISO 26623
Grandezza - Size	50	50	50	100	C8
Extra €	-	-	-	243	412
Dual contact (Optional)	237	237	237	std	std
H Standard Ø18	110	110	110	110	110
A *	240	240	246	250	245
B	35	35	41	45	40

IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 37Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Cassa in Legno / Stop block / Ghiera ER / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Wooden Box / Stop block / ER nut / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 5000 Rpm - **Internal coolant NO**	119
REFR. - COOLANT - dal Cono - Through Shank Max **70bar** - 4000Rpm - **Dry running NO**	2.522
OUTPUT - Weldon Max Ø26	-
OUTPUT - HSK 63	711
OUTPUT - Shell mill holder Ø27	93
OUTPUT - C4	495
OUTPUT - C5	608

MTC SERIES
MANUAL TOOL CHANGE

1 YEAR WARRANTY



INGRANAGGI - GEARS
Ingranaggi Gleason con evolvente rettificato massime performances e minori vibrazioni

Gleason ground spiral bevel gears maximum performances and minimum vibration



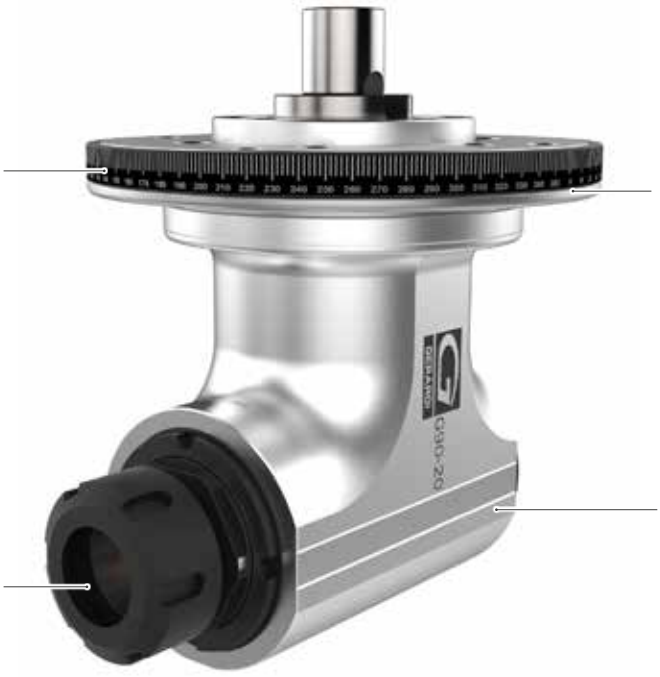
CUSCINETTI - BEARINGS
Cuscinetti a sfera a contatto obliquo in classe di precisione ABEC 9

Angular contact preloaded ball bearings of precision class ABEC 9

DESIGN
Il Design compatto, insieme alle specifiche descritte, consente: alte perfomances, elevate velocità, lunga durata degli utensili.

The Compact design, along with mentioned specifications, allows: highest performances, high speeds, long tools life

Anello graduato
Graduated ring



Flangia universale
Universal flange

USCITE
OUTPUTS:
- Portapinza ER (standard)
- Weldon
- Portafresa
- Speciale

- ER collet (standard)
- Weldon
- Shell mill holder
- Special

Corpo testa orientabile a 360° con pressurizzazione interna. In acciaio trattato, massima rigidità e resistenza alla corrosione. Minima dilatazione termica.

Treated steel head body with 360° position and internal air pressure, maximum rigidity and corrosion resistant. Minimum thermal expansion

PROLUNGHE - EXTENSIONS
Sulla serie di teste MTC è possibile variare la lunghezza del corpo aggiungendo il modulo di prolunga (pag.1.95)

On MTC series is possible to extend the lenght of the body by adding an extension (pag.1.95)



Massimo 2 elementi di prolunga ammessi - Max. 2 extensions admitted.

Esempi applicativi / *Applications examples*

Classic Line

Teste angolari integrali MTC (Cambio utensile manuale)

Integral angle heads MTC series (Manual tool change)



STD 90° SERIES

La serie ideale per fresature, forature e maschiature a ±90°
The ideal series for milling, drilling and tappint at ±90°.



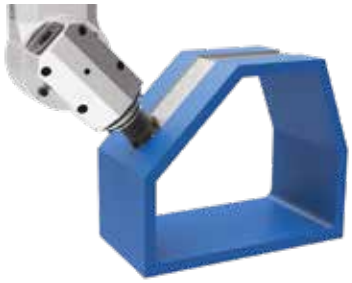
STD 90° SERIES

La serie ideale per fresature, forature e maschiature a ±90°
The ideal series for milling, drilling and tappint at ±90°.



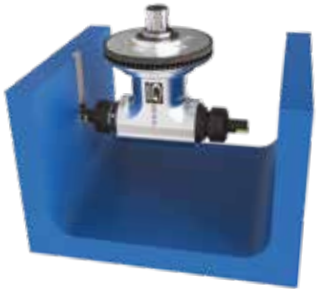
GMU SERIES

La serie di teste angolari con angolazione regolabile da 0 a 90°.
Angle heads series with adjustable angle from 0 to 90°.



GMU SERIES

La serie di teste angolari con angolazione regolabile da 0 a 360°.
Angle heads series with adjustable angle from 0 to 360°.



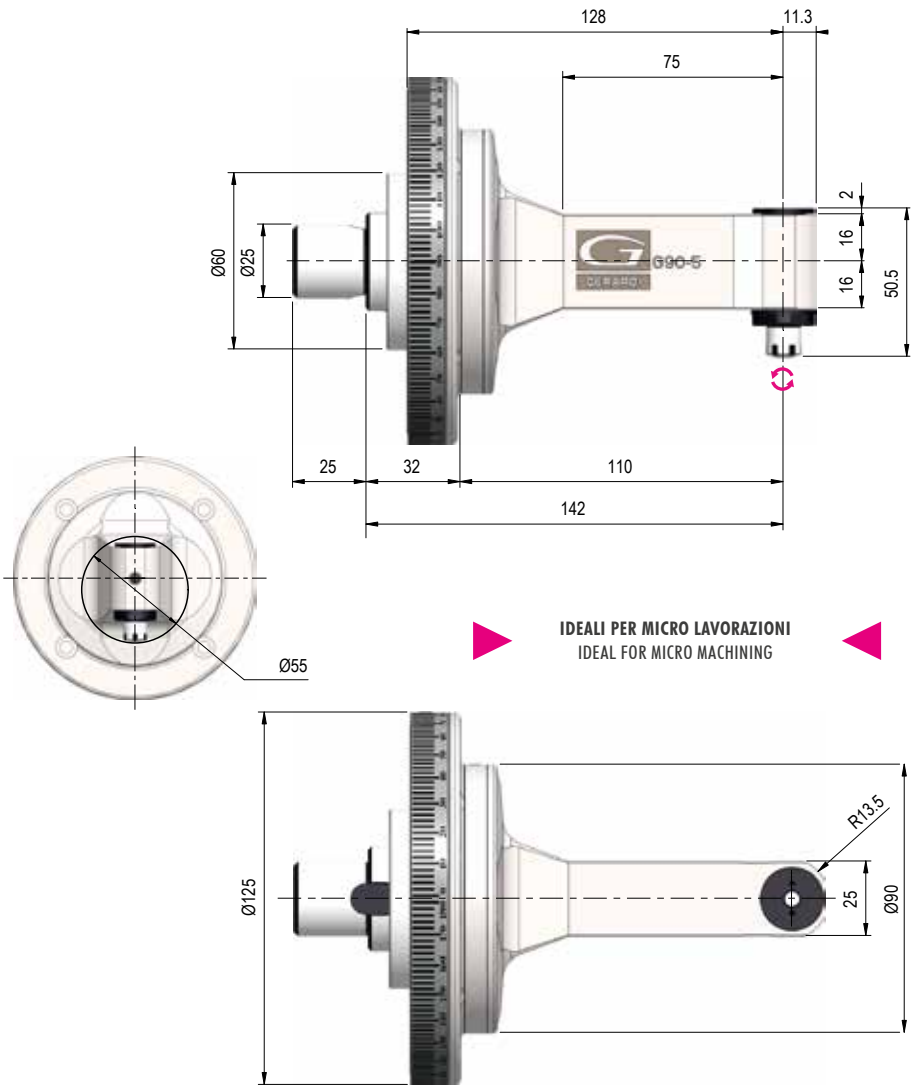
DOUBLE SERIES

La serie di teste angolari ideali per fresature, forature e maschiature attraverso 2 mandrini contrapposti di 180°
Angle Heads series for milling drilling and tapping through 2 opposite outputs

G90-5

TYPE 1

Price: € 2.882



IDEALI PER MICRO LAVORAZIONI
IDEAL FOR MICRO MACHINING



Dati tecnici - Technical data

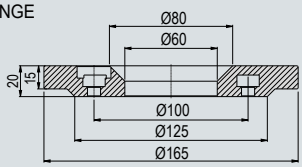
Ratio 1:1	Kg 4
Rpm 10.000	Ø 5
N 60	M 4
Nm 4	ER-8 Ø0,5/5

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Extra €	**105**	-	-	-	-	**105**	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

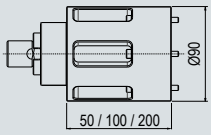
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **1** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **1**





IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 8Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
OUTPUT - Weldon Max Ø6	180

1

G90-7

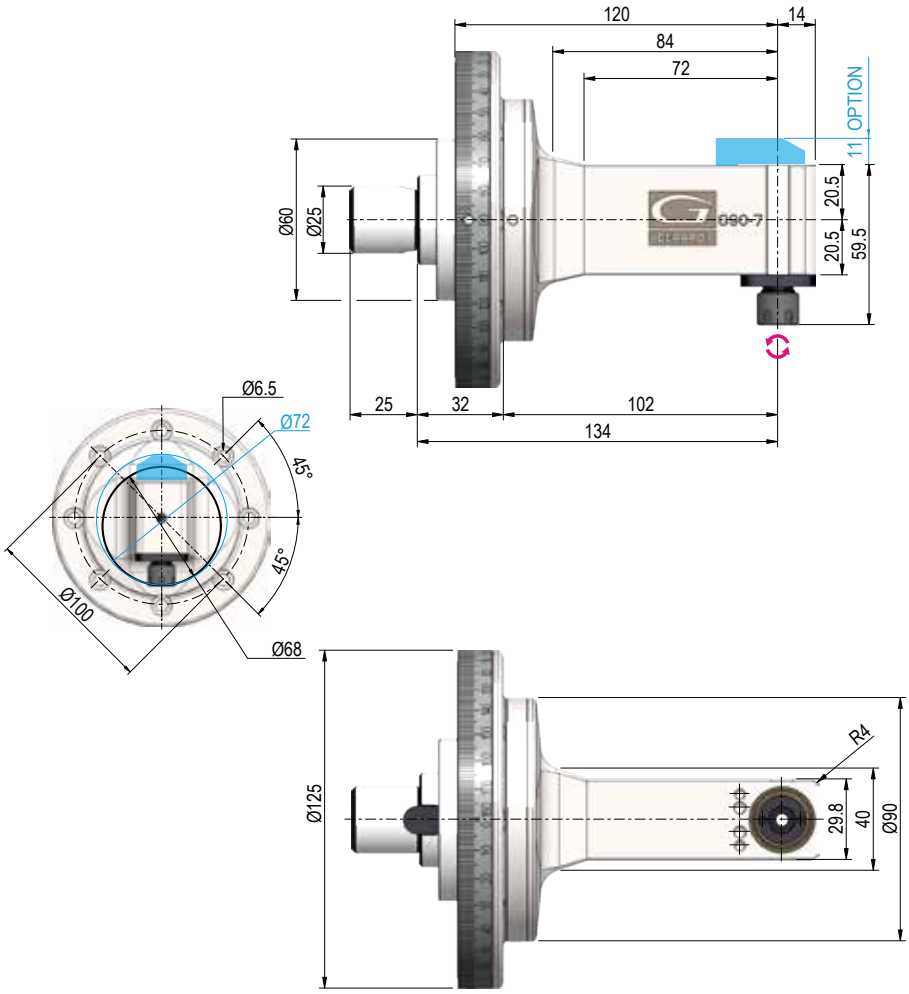
TYPE 1

Price: **€ 2.974**



Dati tecnici - Technical data

Ratio 1:1	Kg 3,7
Rpm 10.000	Ø 7
N 120	M 6
Nm 5	ER-11 Ø1/7

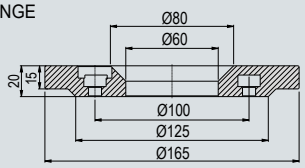


Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Extra €	**105**	-	-	-	-	**105**	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

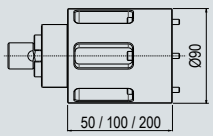
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **1** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **1**





IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 8Kg



DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

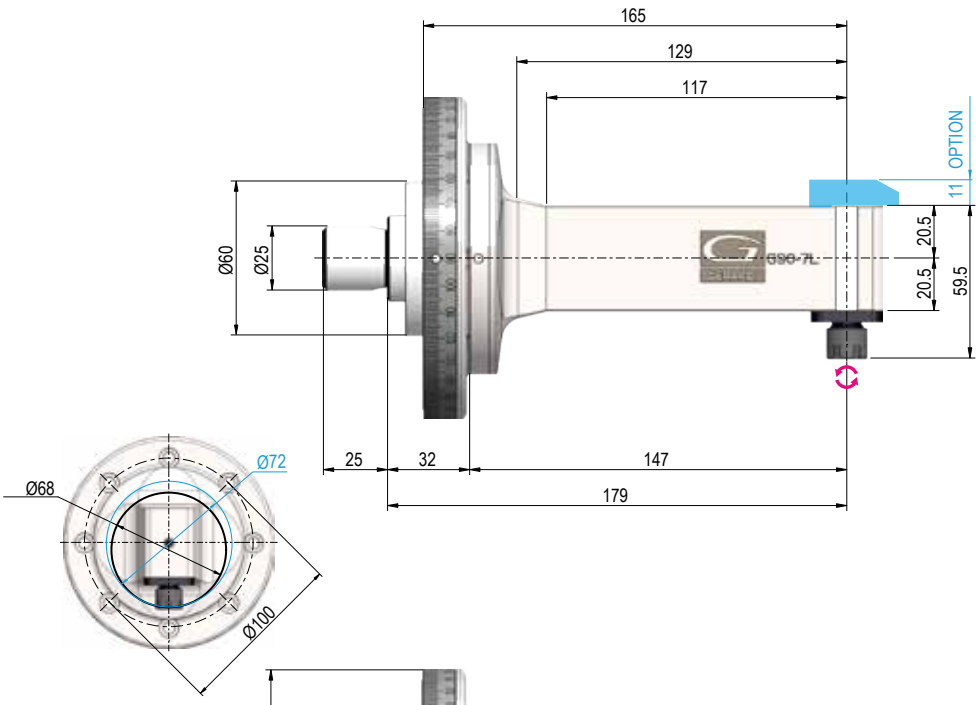
OPZIONI - OPTIONS	€

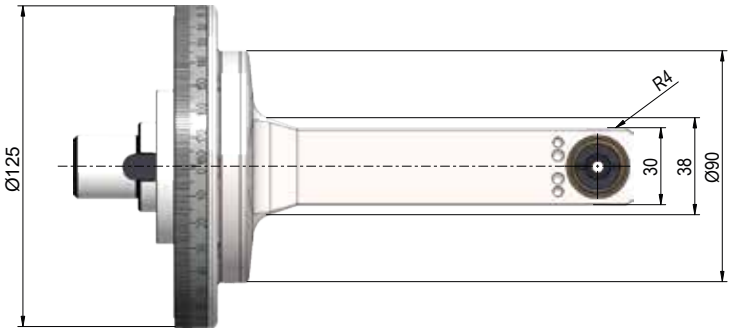
REFR. - COOLANT - dal Distr. - Through Distr. Max 10bar RPM 6000 - **Dry running YES**	**432**
OUTPUT - Weldon Max Ø8	**280**
DOUBLE OUTPUT - ER11 - ER 8M	**268**

G90-7L

TYPE 1

Price: **€ 3.121**







Dati tecnici - Technical data

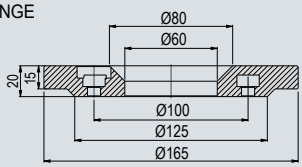
Ratio 1:1	Kg 4
Rpm 10.000	Ø 7
N 120	M 6
Nm 5	ER-11 Ø1/7

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Extra €	**105**	-	-	-	-	**105**	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

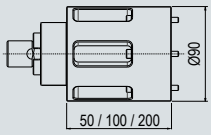
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **1** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **1**





IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 8,5Kg



DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

REFR. - COOLANT - dal Perno - Through Distr. Max 10bar - 6000Rpm - **Dry running YES**	**432**
OUTPUT - Weldon Max Ø8	**280**
DOUBLE OUTPUT - ER11 - ER 8M	**268**

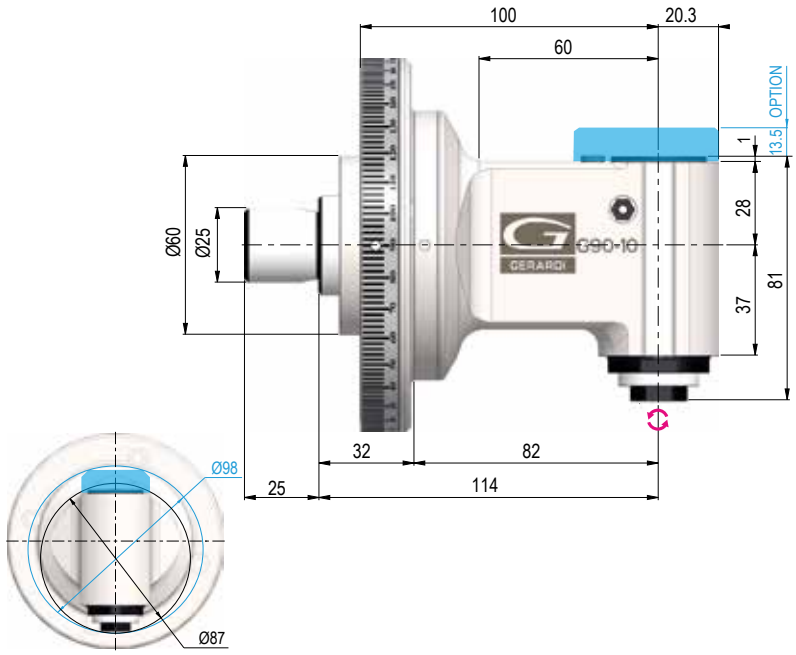
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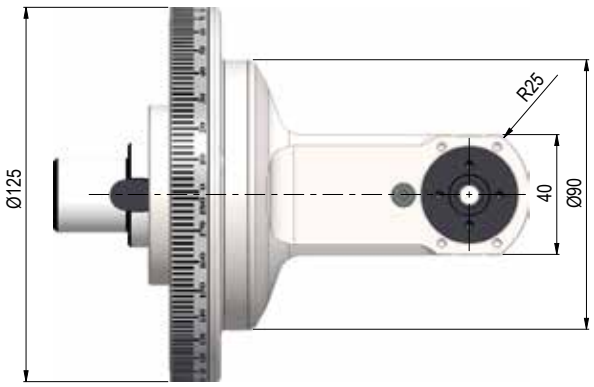
G90-10

TYPE 1

Price: **€ 2.562**







Dati tecnici - Technical data

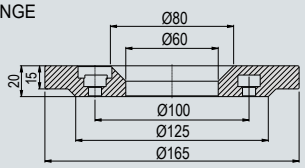
Ratio 1:1	Kg 4,3
Rpm 10.000	Ø 10
N 250	M 8
Nm 10	ER-16 Ø1/10

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Extra €	**105**	-	-	-	-	**105**	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

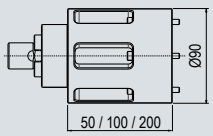
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **1** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **1**





IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 9Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

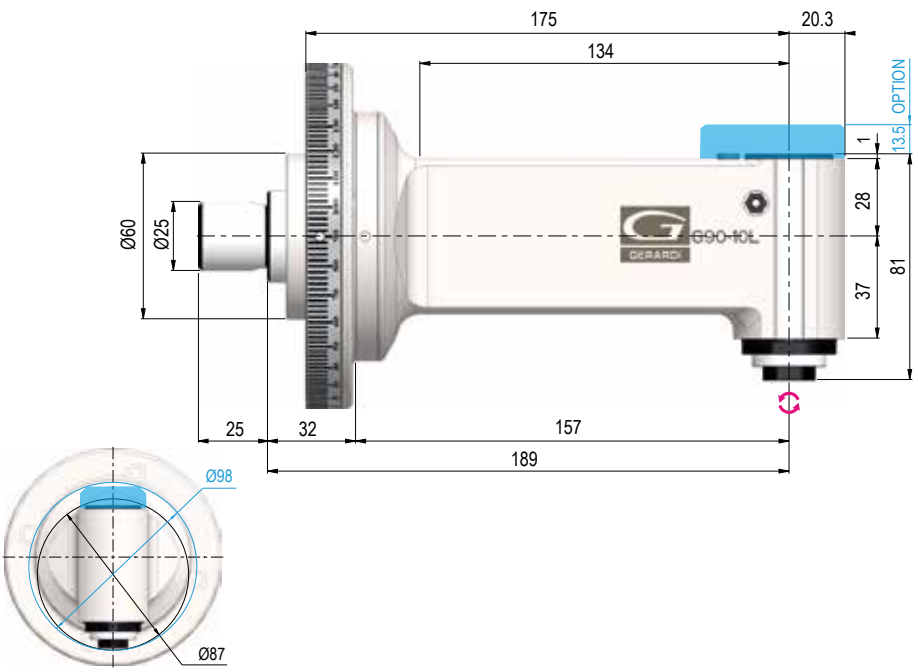
OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Distr. - Through Distr. Max 10bar RPM 4000 - **Dry running YES**	432
REFR. - COOLANT - dal Distr. - Through Distr. Max 40bar RPM 4000 - **Dry running NO**	432
DOUBLE OUTPUT - ER16 - ER 11M	227

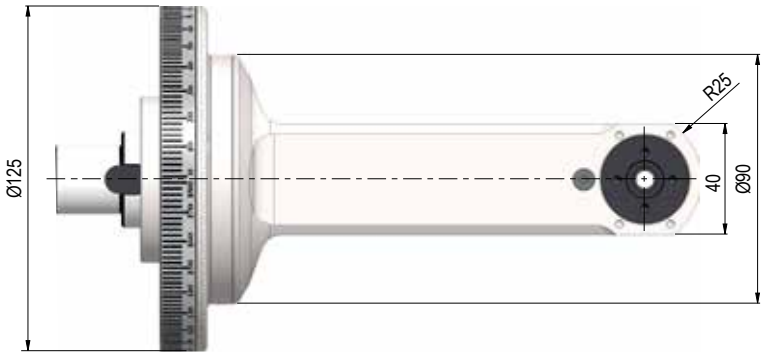
OUTPUT - Weldon Max Ø12	130
OUTPUT - Shell mill holder Ø13	88
OUTPUT - ER 20	103

G90-10L

TYPE 1

Price: **€ 3.200**







Dati tecnici - Technical data

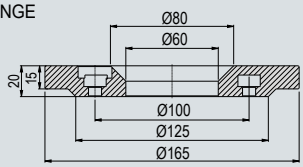
Ratio 1:1	Kg 6
Rpm 10.000	Ø 16
N 250	M 8
Nm 10	ER-16 Ø1/10

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Extra €	**105**	-	-	-	-	**105**	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

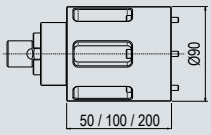
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **1** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **1**





IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 10,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Distr. - Through Distr. Max 10bar RPM 4000 - **Dry running YES**	432
REFR. - COOLANT - dal Distr. - Through Distr. Max 40bar RPM 4000 - **Dry running NO**	432
DOUBLE OUTPUT - ER16 - ER 11M	227

OUTPUT - Weldon Max Ø12	130
OUTPUT - Shell mill holder Ø13	88
OUTPUT - ER 20	103

1

G90-16

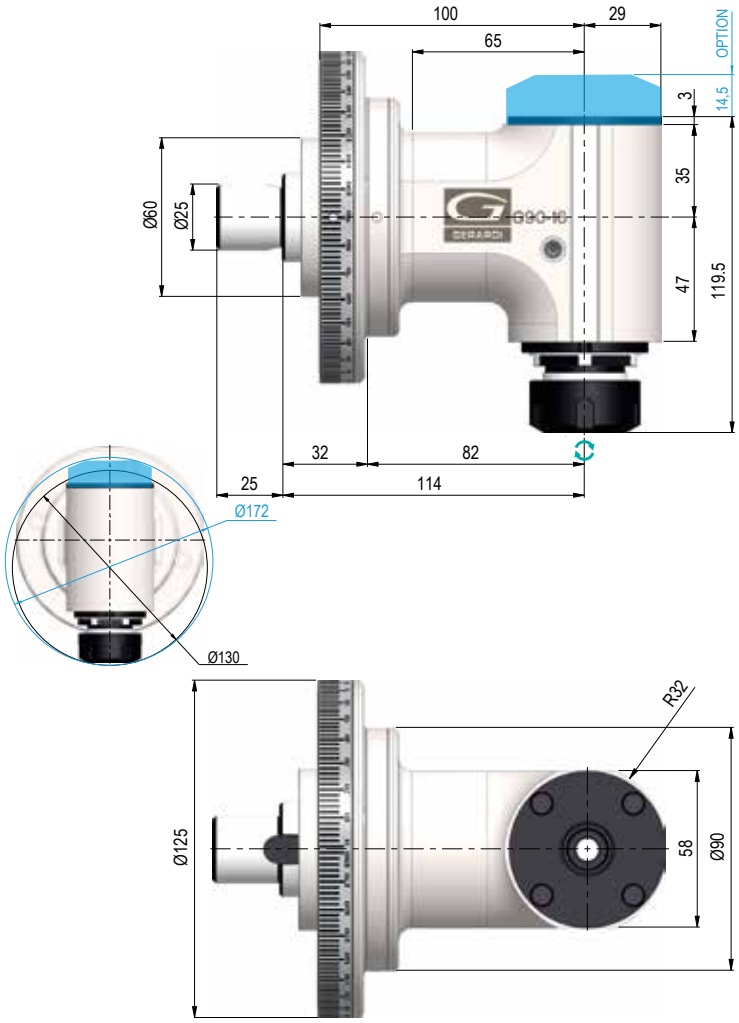
TYPE 1

Price: **€ 3.264**



Dati tecnici - Technical data

Ratio 1:1	Kg 4,5
Rpm 8.000	Ø 16
N 510	M 12
Nm 24	ER-25 Ø1/16

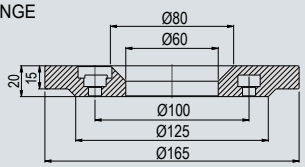


Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871			CAT ANSI B5.50		BT MAS 403			HSK DIN 69893			C. ISO 26623			ISO DIN2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Extra €	105	-	-	-	-	105	-	-	200	222	243	412	412	412	169	195

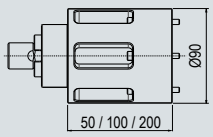
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **1** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **1**





IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 9Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

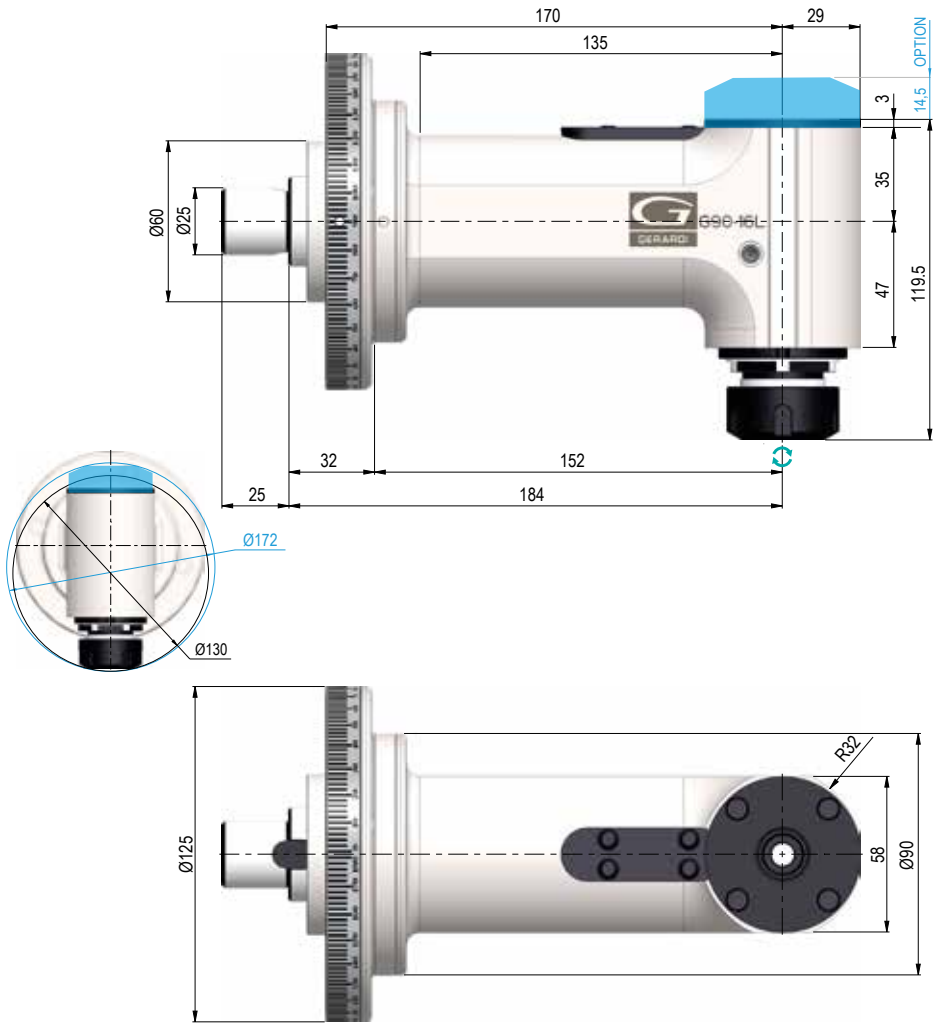
OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Distr. - Through Distr. Max 10bar RPM 4000 - **Dry running YES**	468
REFR. - COOLANT - dal Distr. - Through Distr. Max 40bar RPM 4000 - **Dry running NO**	468
DOUBLE OUTPUT - ER25 - ER 16M	309

OUTPUT - Weldon Max Ø16	180
OUTPUT - Shell mill holder Ø16	93
OUTPUT - ER 32	217
OUTPUT - HSK 32	407

G90-16L

TYPE 1

Price: **€ 4.077**





Dati tecnici - Technical data

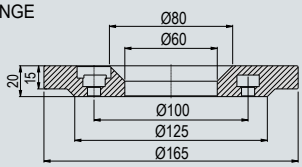
Ratio 1:1	Kg 6,1
Rpm 8.000	Ø 16
N 510	M 12
Nm 24	ER-25 Ø1/16

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Extra €	**105**	-	-	-	-	**105**	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

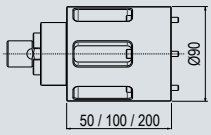
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **1** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **1**





IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 10,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
REFR. - COOLANT - dal Distr. - Through Distr. Max 10bar RPM 4000 - **Dry running YES**	468
REFR. - COOLANT - dal Distr. - Through Distr. Max 40bar RPM 4000 - **Dry running NO**	468
DOUBLE OUTPUT - ER25 - ER 16M	309

OUTPUT - Weldon Max Ø16	180
OUTPUT - Shell mill holder Ø16	93
OUTPUT - ER 32	217
OUTPUT - HSK 32	407

1

G90-20

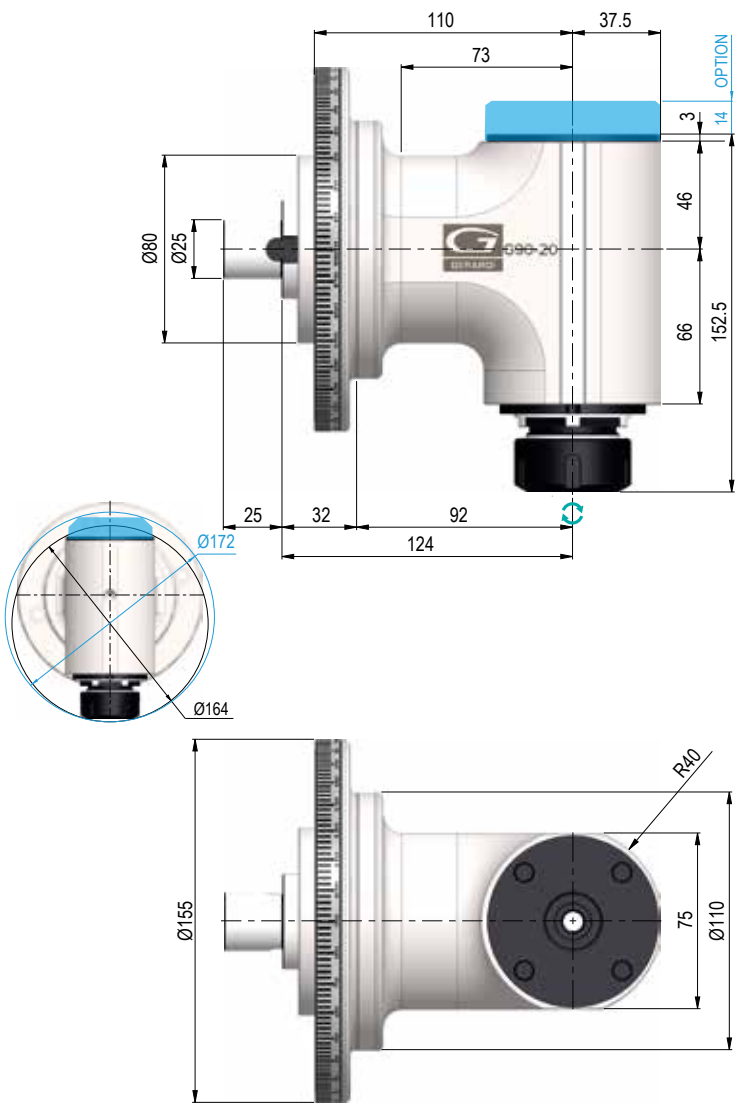
TYPE 2

Price: **€ 3.463**



Dati tecnici - Technical data

Ratio 1:1	Kg 10
Rpm 4.000	Ø 20
N 1.250	M 16
Nm 40	ER-32 Ø2/20

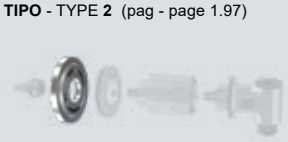


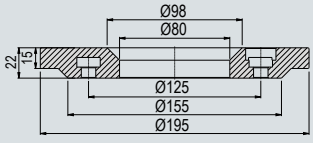
Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE

TIPO - TYPE **2** (pag - page 1.97)

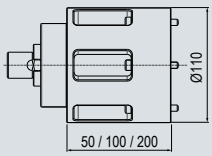




PROLUNGA - EXTENSION

TIPO - TYPE **2**





IMBALLO & PESO - PACK WEIGHT:

Valigetta - Bag 15Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT

Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni

Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm - **Internal coolant NO**	**119**
REFR. - COOLANT - dal Distr. - Through Distributor- Max 10bar - **Dry running YES**	**485**
REFR. - COOLANT - dal Distr. - Through Distributor - Max 40bar - **Dry running NO**	**485**
OUTPUT - Weldon Max Ø20	-
OUTPUT - HSK 40	**459**

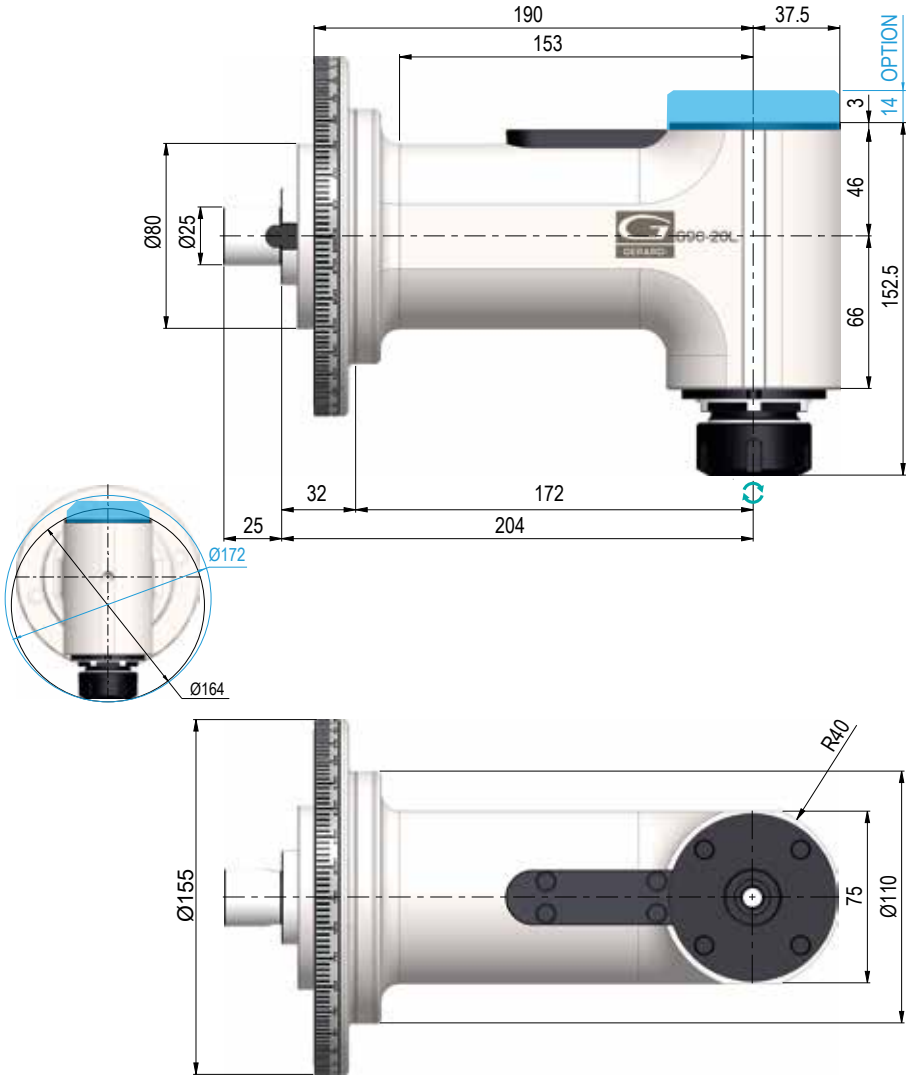
OUTPUT - Shell mill holder Ø22	**93**
OUTPUT - ISO / CAT / BT 30	**181**
OUTPUT - C4	**495**
DOUBLE OUTPUT - ER32 - ER20M	**335**
OUTPUT - ER40	**217**

G90-20L

TYPE 2

Price: **€ 4.330**





Dati tecnici - Technical data

Ratio 1:1		Kg 12,2	
Rpm 4.000		Ø 20	
N 1.250		M 16	
Nm 40		ER-32 Ø2/20	

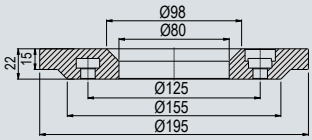
Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE

TIPO - TYPE **2** (pag - page 1.97)

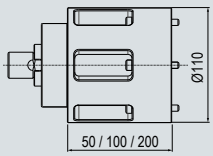




PROLUNGA - EXTENSION

TIPO - TYPE **2**





IMBALLO & PESO - PACK WEIGHT:

Cassa in Legno - Wooden Box 17,5Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT

Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni

Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm - **Internal coolant NO**	**119**
REFR. - COOLANT - dal Distr. - Through Distributor - Max 10bar - **Dry running YES**	**485**
REFR. - COOLANT - dal Distr. - Through Distributor - Max 40bar - **Dry running NO**	**485**
OUTPUT - Weldon Max Ø20	-
OUTPUT - HSK 40	**459**

OUTPUT - Shell mill holder Ø22	**93**
OUTPUT - ISO / CAT / BT 30	**181**
OUTPUT - C4	**495**
DOUBLE OUTPUT - ER32 - ER20M	**335**
OUTPUT - ER40	**217**

1

G90-30

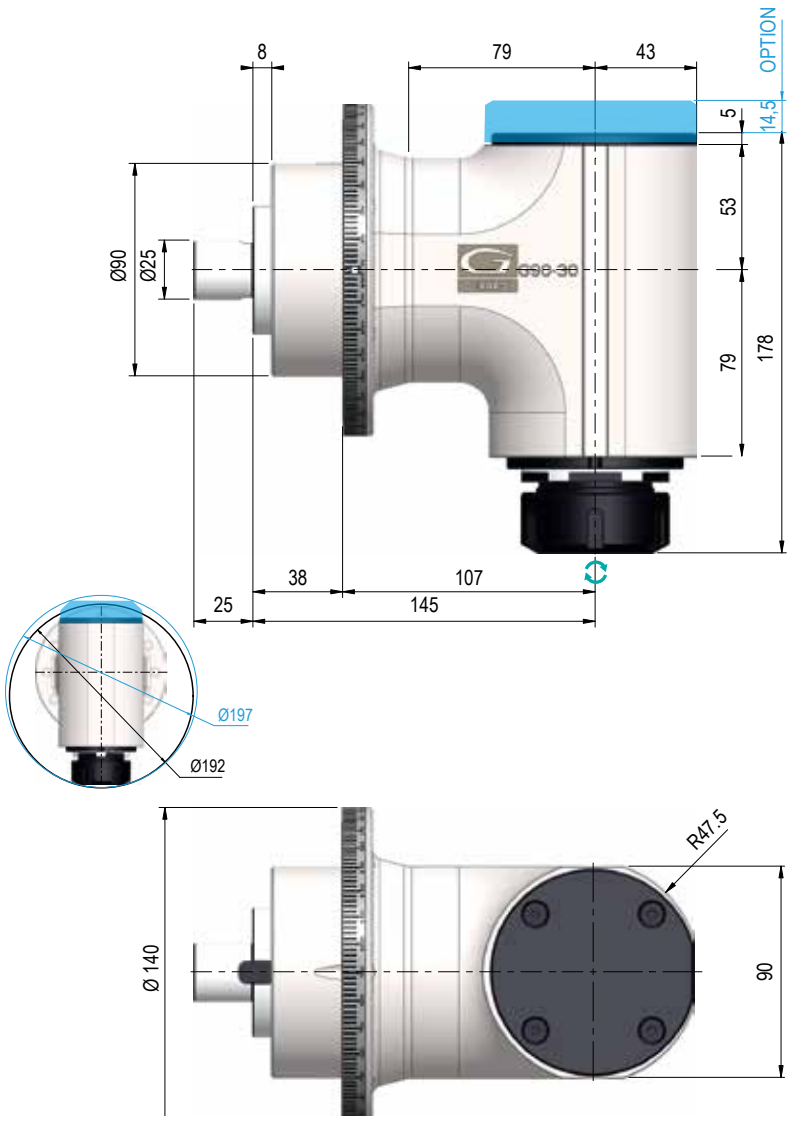
TYPE 3

Price: **€ 4.081**



Dati tecnici - Technical data

Ratio 1:1	Kg 17
Rpm 4.000	Ø30
N 1.750	M 20
Nm 100	ER-40 Ø3/30

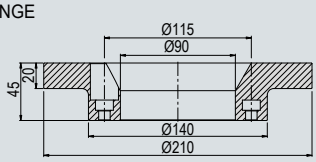


Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

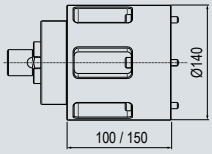
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **3** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **3**





IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 32Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

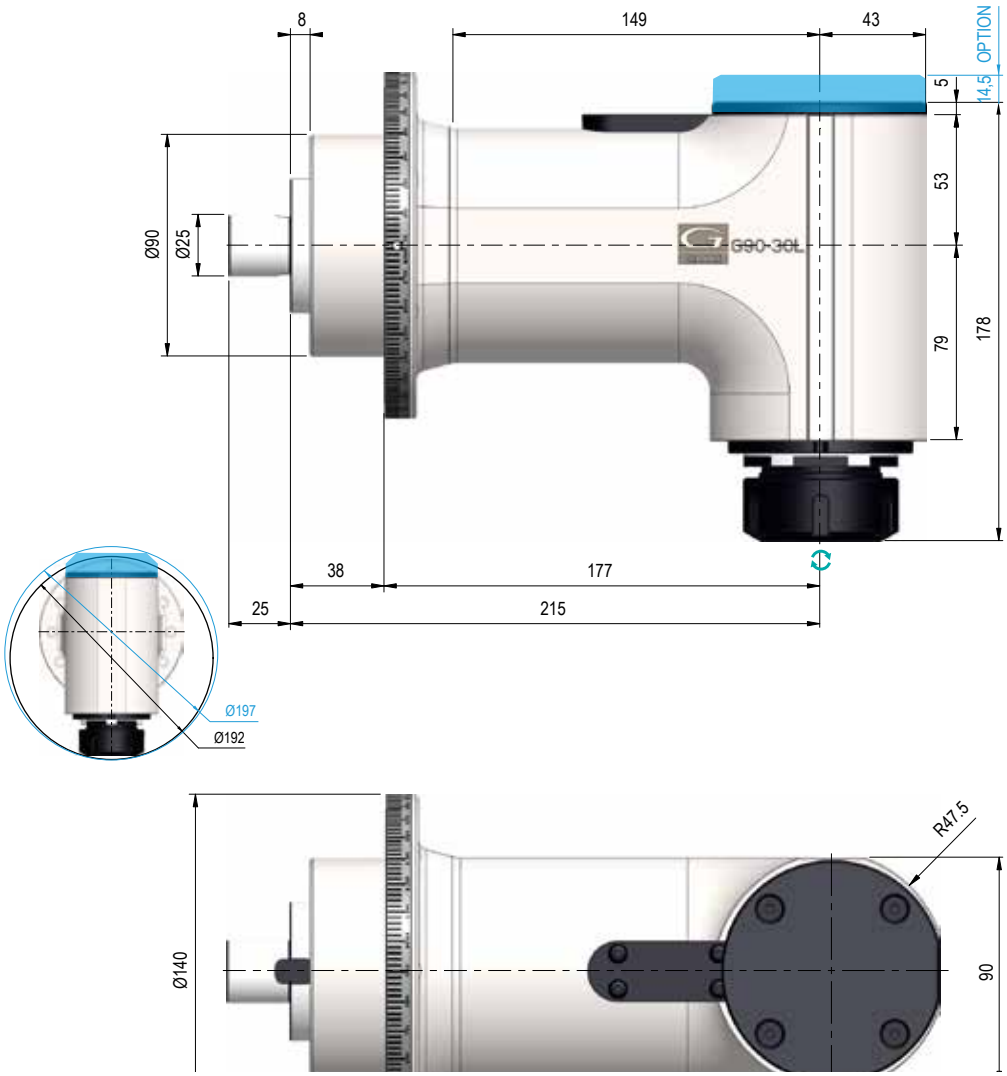
OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm - **Internal coolant NO**	**119**
REFR. - COOLANT - dal Distr. - Through Distributor- Max 10bar - **Dry running YES**	**495**
REFR. - COOLANT - dal Distr. - Through Distributor - Max 30bar - **Dry running NO**	**495**
OUTPUT - Weldon Max Ø25	**385**

OUTPUT - HSK 40	**459**
OUTPUT - Shell mill holder Ø27	**93**
OUTPUT - ISO 30	**181**
OUTPUT - C4	**495**
DOUBLE OUTPUT - ER32 - ER20M	**335**

G90-30L

TYPE 3

Price: **€ 5.324**





Dati tecnici - Technical data

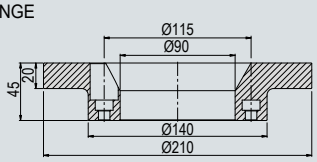
Ratio 1:1	Kg 20
Rpm 4.000	Ø30
N 1.750	M20
Nm 100	ER-40 Ø3/30

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

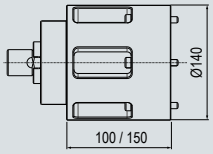
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **3** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **3**





IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 35Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm - **Internal coolant NO**	**119**
REFR. - COOLANT - dal Distr. - Through Distributor- Max 10bar - **Dry running YES**	**495**
REFR. - COOLANT - dal Distr. - Through Distributor - Max 30bar - **Dry running NO**	**495**
OUTPUT - Weldon Max Ø25	**385**

OUTPUT - HSK 40	**459**
OUTPUT - Shell mill holder Ø27	**93**
OUTPUT - ISO 30	**181**
OUTPUT - C4	**495**
DOUBLE OUTPUT - ER32 - ER20M	**351**

1

G90-S40

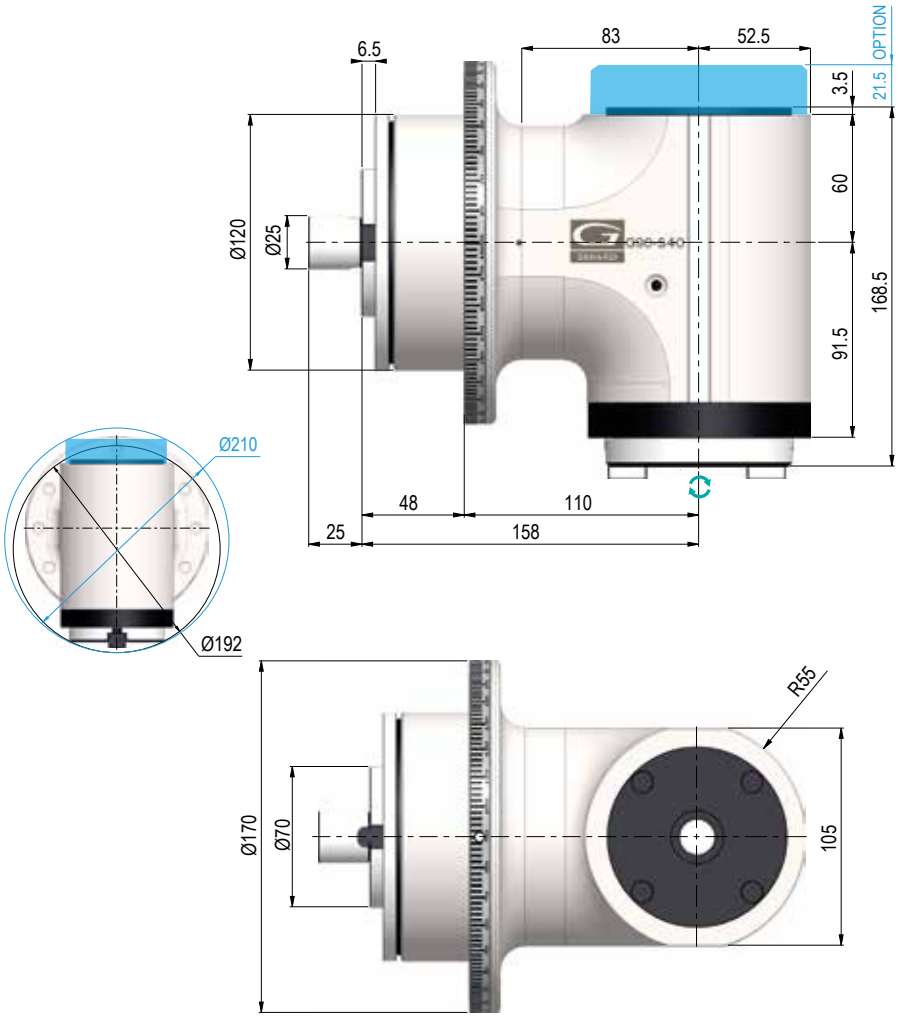
TYPE 4

Price: **€ 4.925**



Dati tecnici - Technical data

Ratio 1:1	Kg 22
Rpm 4.000	Ø26
N 1.800	M20
Nm 140	ISO/CAT / BT40

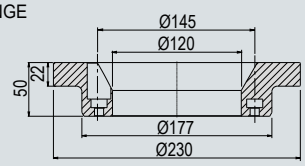


Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **4** (pag - page 1.97)





IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 37Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

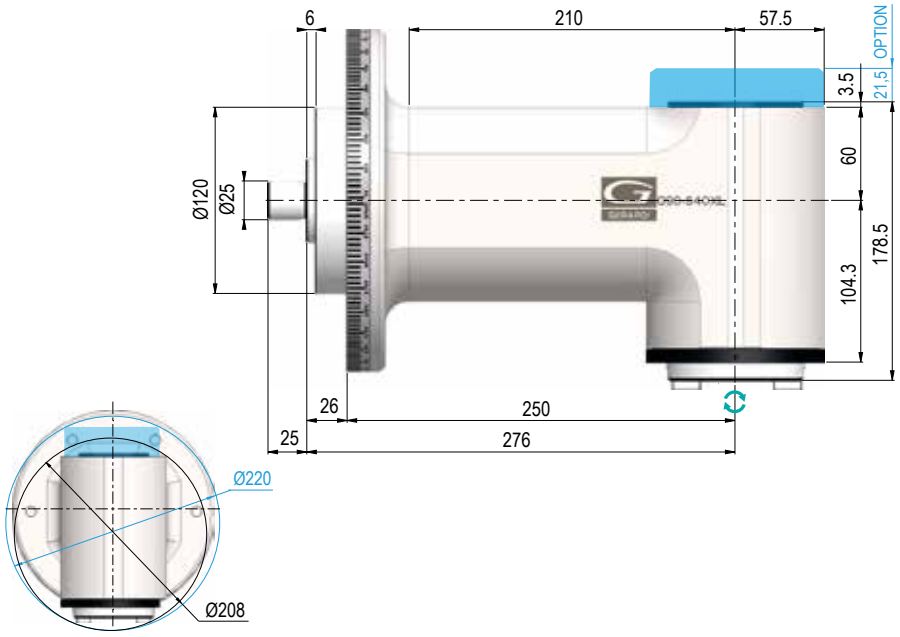
OPZIONI - OPTIONS	€
HIGH SPEED - 5000 Rpm - **Internal coolant NO**	**119**
REFR. - COOLANT - dal Distr. - Through Distributor- Max 10bar - **Dry running YES**	**521**
REFR. - COOLANT - dal Distr. - Through Distributor - Max 30bar - **Dry running NO**	**521**

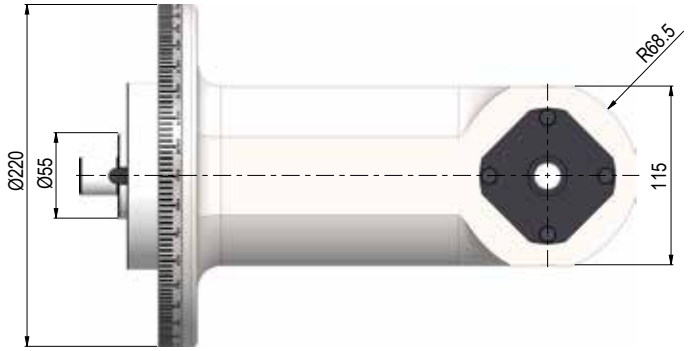
OUTPUT - HSK 63	**711**
OUTPUT - C4	**495**
OUTPUT - C5	**608**

G90-S40XL

TYPE 5

Price: **€ 4.728**







Dati tecnici - Technical data

Ratio 1:1	Kg 32,5
Rpm 4.000	Ø30
N 2.400	M22
Nm 140	ISO/CAT / BT40

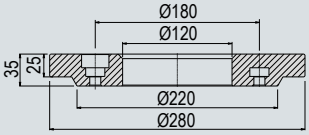
Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE

TIPO - TYPE **5** (pag - page 1.97)





IMBALLO & PESO - PACK WEIGHT:

Cassa in Legno - Wooden Box 47Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT

Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni

Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 5000 Rpm - **Internal coolant NO**	**119**
REFR. - COOLANT - dal Distr. - Through Distributor- Max 10bar - **Dry running YES**	**521**
REFR. - COOLANT - dal Distr. - Through Distributor - Max 30bar - **Dry running NO**	**521**

OUTPUT - HSK 63	**711**
OUTPUT - C4	**495**
OUTPUT - C5	**608**

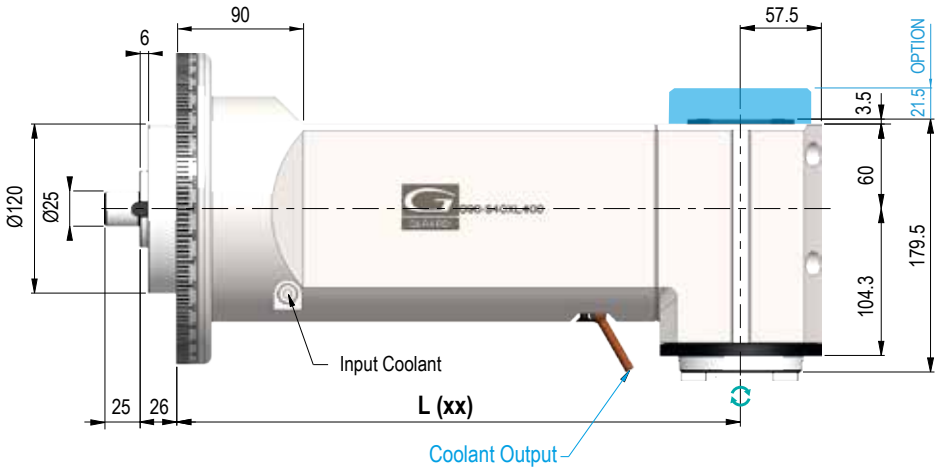
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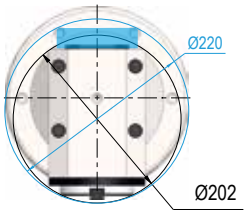
G90-S40XL xx

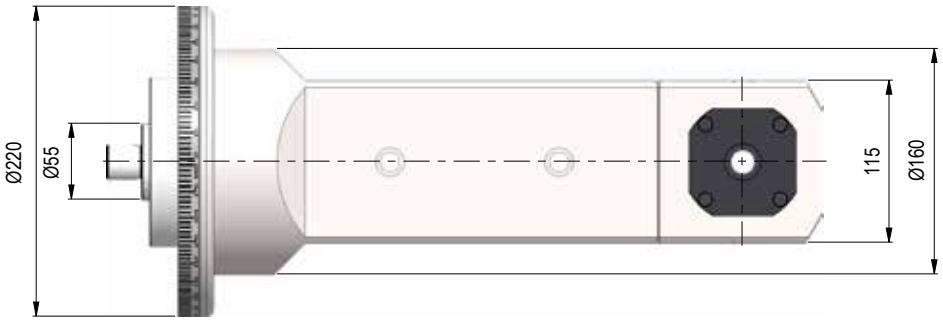
TYPE 5

Lengths	.400	.500	.600	.700
Price:	7.250	7.460	7.670	7.880









Dati tecnici - Technical data

Ratio 1:1

Rpm 4.000

N 2.400

Nm 140

L400: Kg 57
L500: Kg 67
L600: Kg 78
L700: Kg 86

Ø30

M22

ISO / CAT / BT40

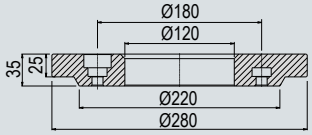
Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	200	222	243	412	412	412	169	195

FLANGIA UNIVERSALE - UNIVERSAL FLANGE

TIPO - TYPE **5** (pag - page 1.97)





IMBALLO & PESO - PACK WEIGHT:

Cassa in Legno - Wooden Box Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT

Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni

Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 5000 Rpm - **Internal coolant NO**	330
REFR. - COOLANT - dal Distr. - Through Distributor- Max 10bar - **Dry running YES**	521
REFR. - COOLANT - dal Distr. - Through Distributor - Max 30bar - **Dry running NO**	521

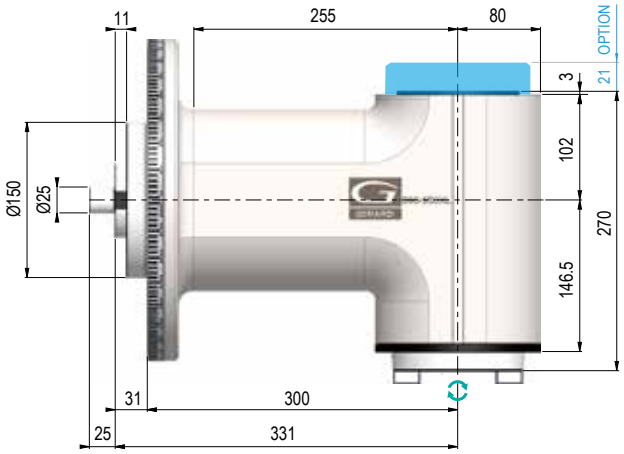
SPECIAL LENGHT	On Req
OUTPUT - HSK 63	711
OUTPUT - C4	495
OUTPUT - C5	608

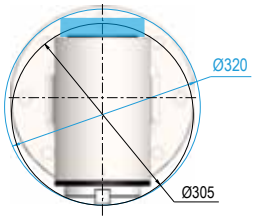
G90-S50

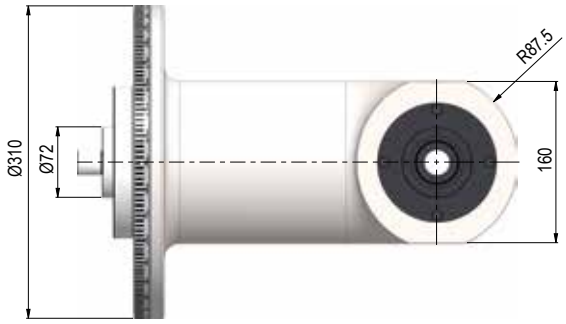
TYPE 6

Price: **€ 11.011**









Dati tecnici - Technical data

Ratio 1:1	Kg 77
Rpm 3.000	Ø45
N 3.300	M36
Nm 400	ISO / CAT / BT50

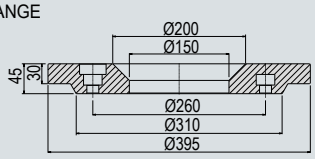
Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE

TIPO - TYPE **6** (pag - page 1.97)





IMBALLO & PESO - PACK WEIGHT:

Cassa in Legno - Wooden Box Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT

Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni

Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 4000 Rpm - **Internal coolant NO**	**412**
REFR. - COOLANT - dal Distr. - Through Distributor- Max 10bar - **Dry running YES**	**683**
REFR. - COOLANT - dal Distr. - Through Distributor - Max 30bar - **Dry running NO**	**683**

OUTPUT - HSK 63	**1.245**
OUTPUT - C6	On Req
OUTPUT - C8	On Req

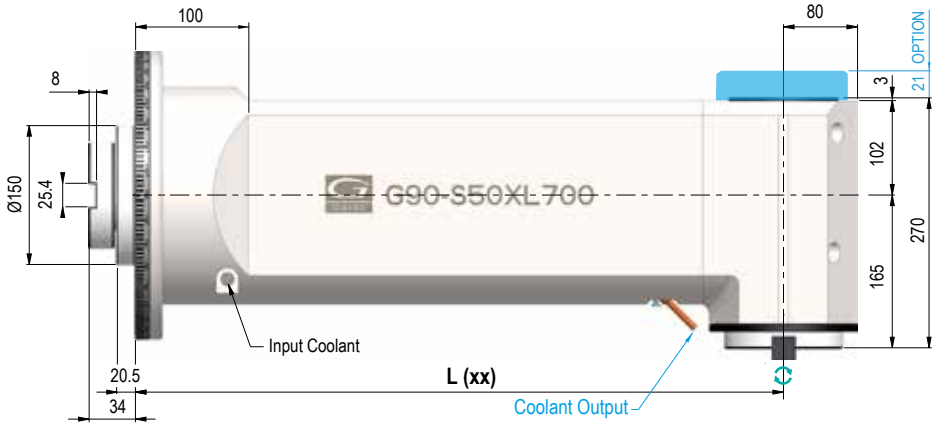
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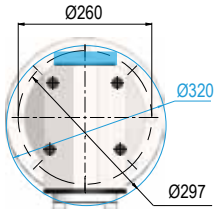
G90-S50XL xx

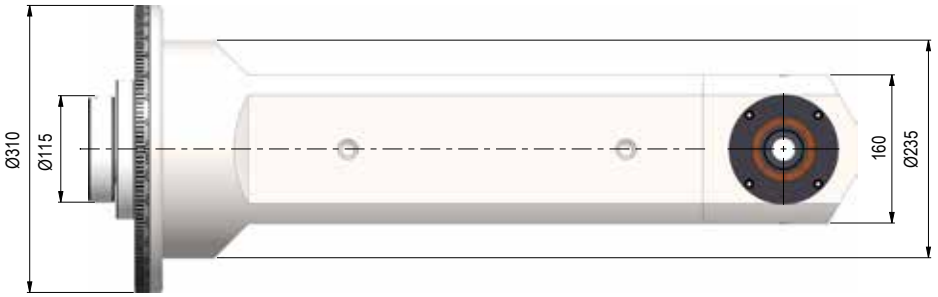
TYPE 6

Lengths	.400	.500	.600	.700	.800
Price:	13.133	13.658	14.184	14.709	15.234









Dati tecnici - Technical data

Ratio 1:1

Rpm 3.000

N 3.300

Nm 400

L400: Kg 149
L500: Kg 169
L600: Kg 190
L700: Kg 211
L700: Kg 231

Ø45

M36

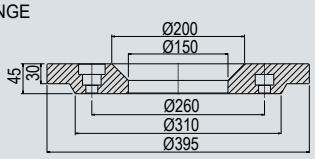
ISO / CAT / BT50

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	200	222	243	412	412	412	169	195

FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **6** (pag - page 1.97)





IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 4000 Rpm	485
REFR. - COOLANT - dal Distr. - Through Distributor- Max 10bar - **Dry running YES**	683
REFR. - COOLANT - dal Distr. - Through Distributor - Max 30bar - **Dry running NO**	683

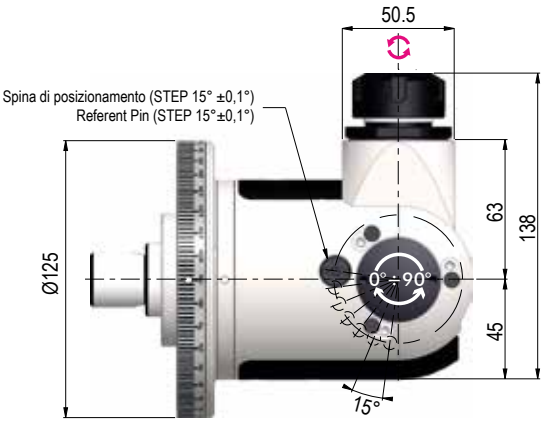
SPECIAL LENGHT	On Req
OUTPUT - HSK 63	1.245
OUTPUT - C6	On Req
OUTPUT - C8	On Req

GMU-16

TYPE 1

Price: **€ 3.940**

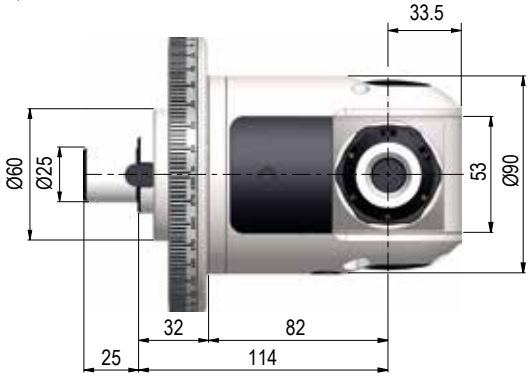








Scala Graduata
Graduated degree



Dati tecnici - Technical data

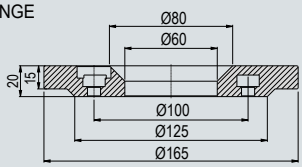
Ratio 1:1	Kg 6,3
Rpm 4.000	Ø16
N 480	M14
Nm 18	ER-25 Ø1/16

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Extra €	**105**	**-**	**-**	**-**	**-**	**105**	**-**	**-**	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

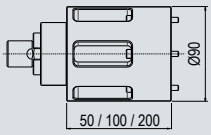
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **1** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **1**





IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 11,5Kg



DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

OUTPUT - Shell mill holder Ø16	**93**
HIGH SPEED - 6000 Rpm	**119**
QUICK POSITIONING - Portafresa Toolholder Ø16	**299**

1

GMU-20

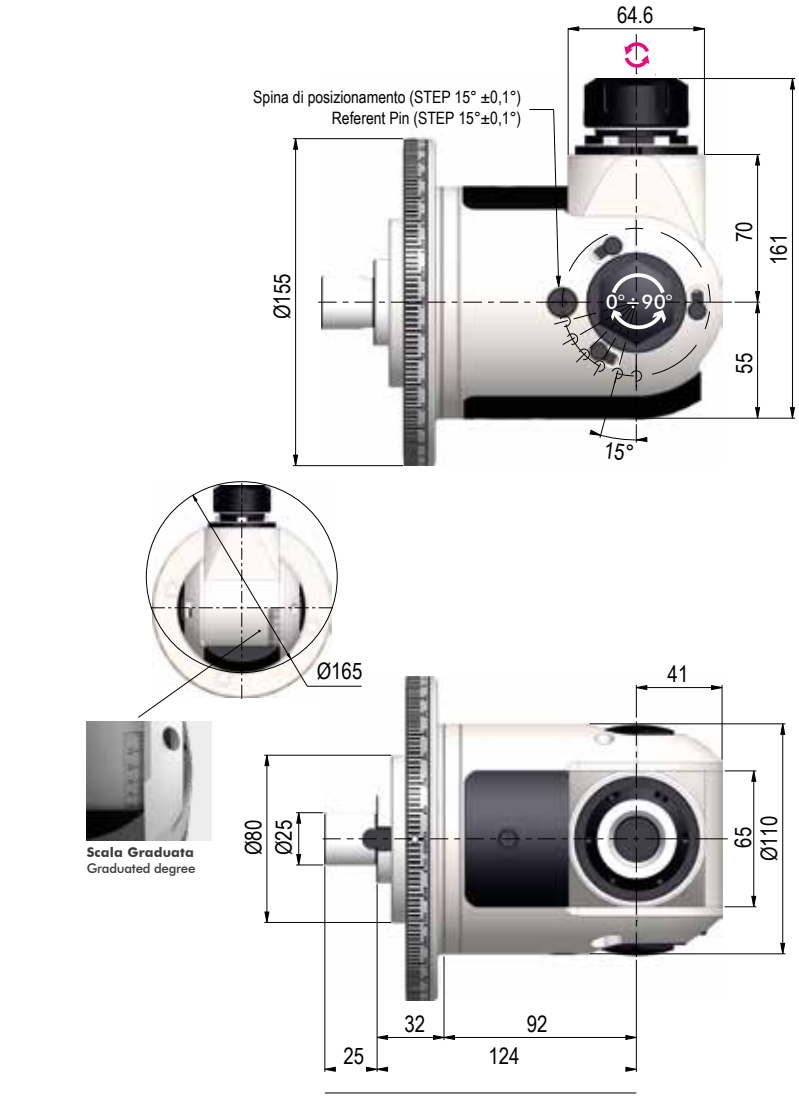
TYPE 2

Price: **€ 4.260**



Dati tecnici - Technical data

Ratio 1:1	Kg 13
Rpm 4.000	Ø20
N 715	M16
Nm 32	ER-32 Ø2/20



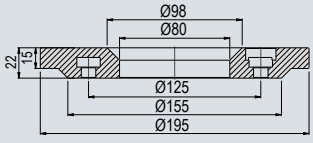
Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE

TIPO - TYPE **2** (pag - page 1.97)

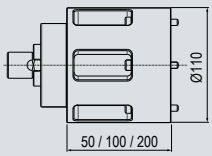




PROLUNGA - EXTENSION

TIPO - TYPE **2**





IMBALLO & PESO - PACK WEIGHT:

Valigetta - Bag 18Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT

Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni

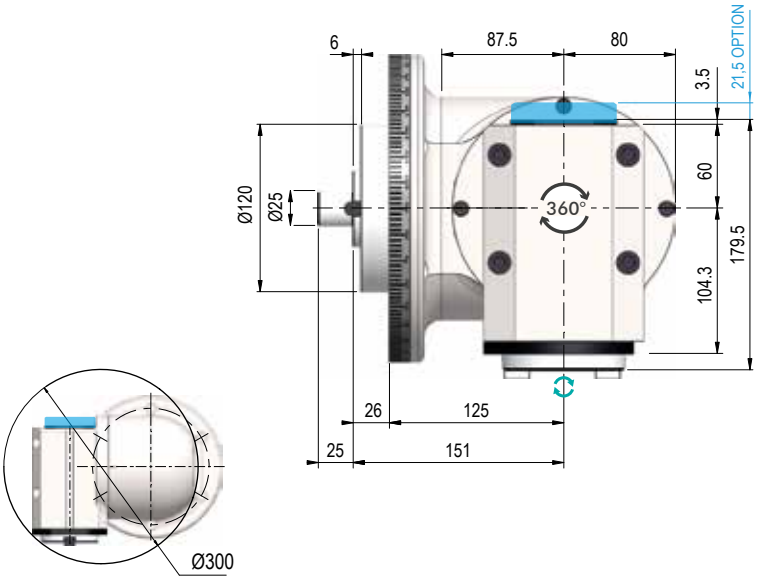
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

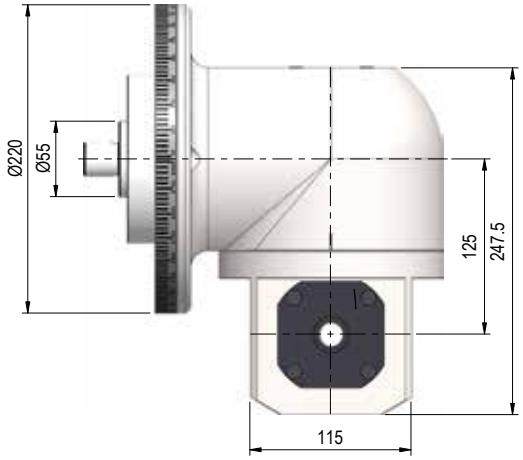
OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm	**119**
QUICK POSITIONING - Portafresa Toolholder Ø16	**299**

GMU-S40-125 TYPE 5

Price: **€ 9.981**







Dati tecnici - Technical data

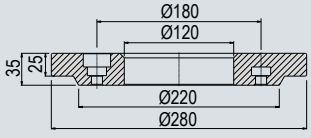
Ratio 1:1	Kg 59,3
Rpm 3.000	Ø30
N 2.400	M22
Nm 100	ISO / CAT / BT40

Senso di rotazione Contrario al mandrino - Direction of rotation Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **5** (pag - page 1.97)





IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 4000 Rpm	330
REFR. - COOLANT - dal Distr. - Through Distributor - Max 10bar - **Dry running YES**	521

OUTPUT - HSK 63	711
OUTPUT - C4	495

1

GMU-S40

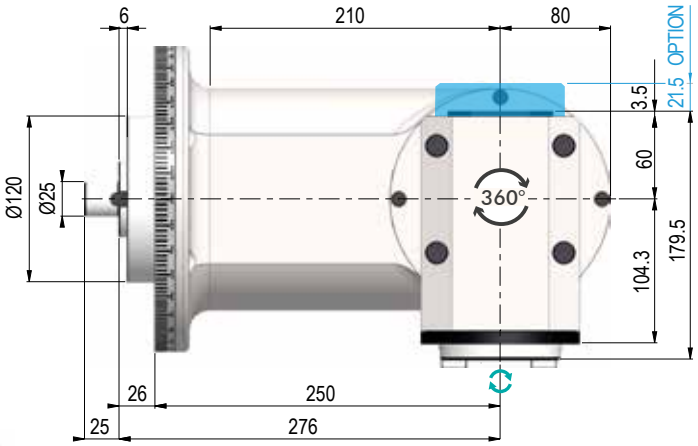
TYPE 5

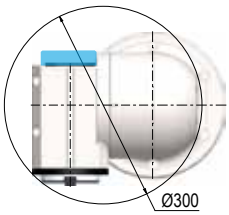
Price: **€ 8.119**

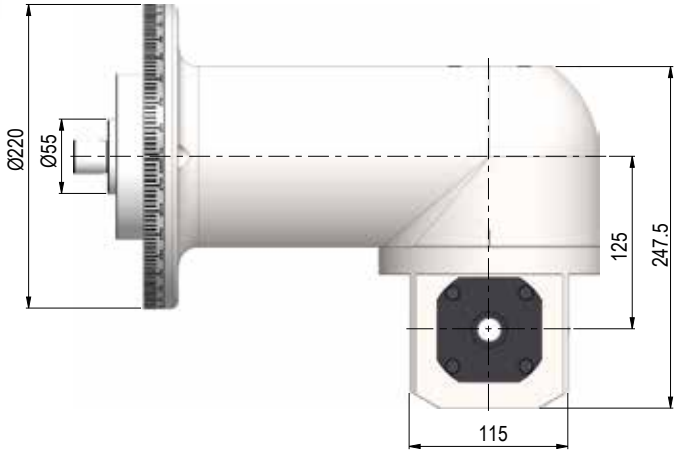


Dati tecnici - Technical data

Ratio 1:1	Kg 49,5
Rpm 3.000	Ø30
N 2.400	M22
Nm 100	ISO /CAT BT 40







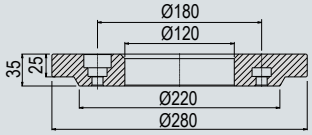
Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE

TIPO - TYPE **5** (pag - page 1.97)





IMBALLO & PESO - PACK WEIGHT:

Cassa in Legno - Wooden Box Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT

Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni

Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 4000 Rpm	330
REFR. - COOLANT - dal Distr. - Through Distributor - Max 10bar - **Dry running YES**	521

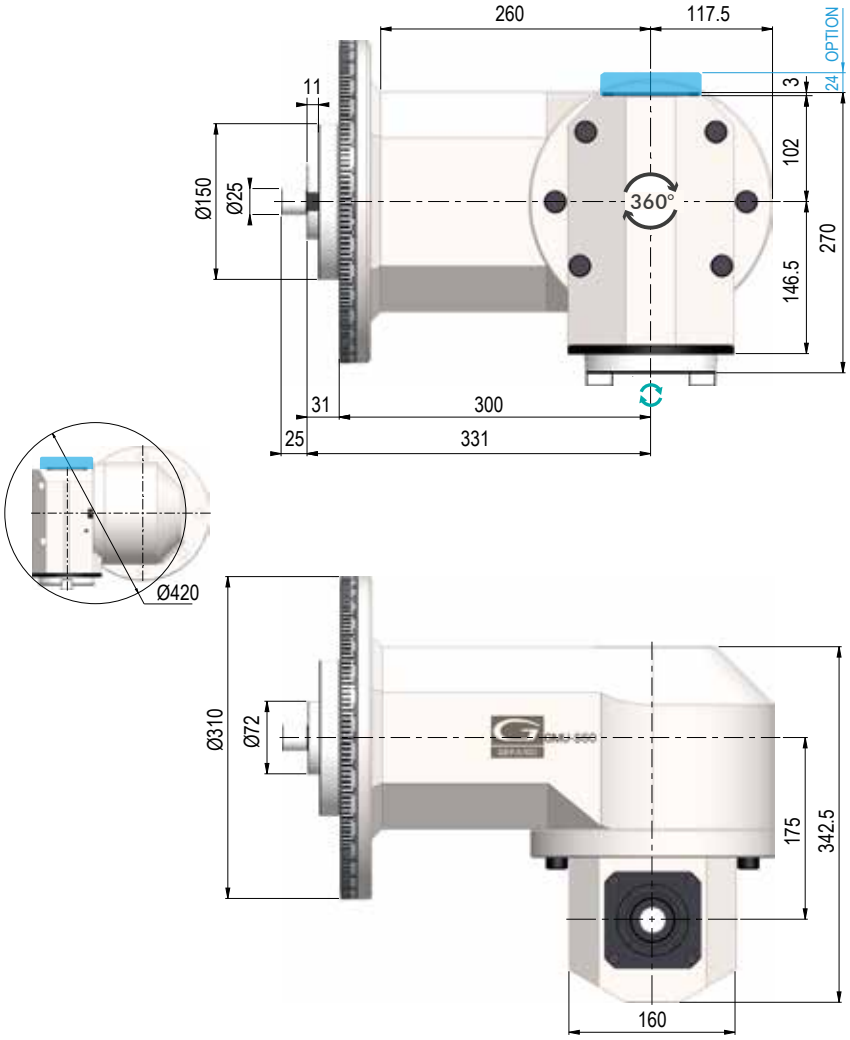
OUTPUT - HSK 63	711
OUTPUT - C6	495

GMU-S50

TYPE 6

Price: **€ 19.343**





Dati tecnici - Technical data

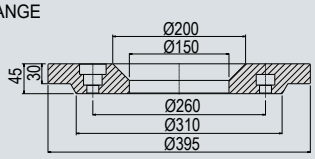
Ratio 1:1	Kg 121
Rpm 3.000	Ø45
N 3.300	M36
Nm 220	ISO / CAT / BT50

Senso di rotazione Uguale al mandrino - Direction of rotation Same as the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **6** (pag - page 1.97)





IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 4000 Rpm	510
REFR. - COOLANT - dal Distr. - Through Distributor - Max 10bar - **Dry running YES**	683

OUTPUT - HSK 63	1.245
OUTPUT - C6	876

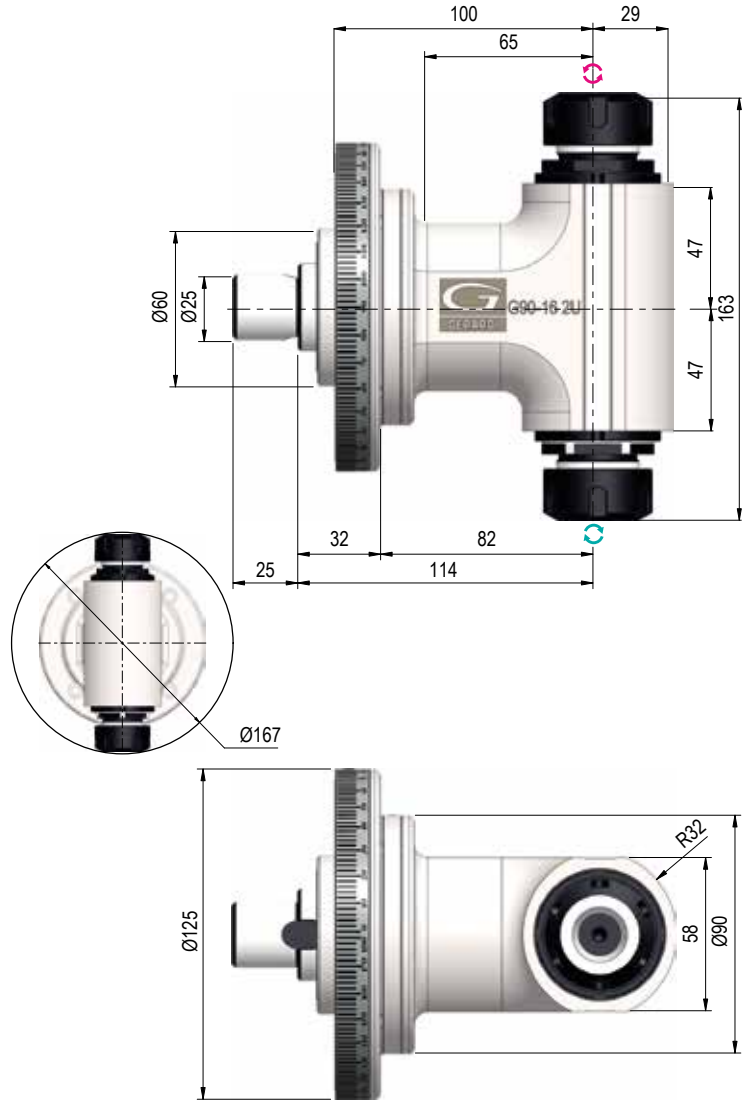
1

G90-16 2U

TYPE 1

Price: **€ 4.074**





Dati tecnici - Technical data

Ratio 1:1	Kg 5,6
Rpm 4.000	Ø16
N 510	M12
Nm 24	ER-25 Ø1/16

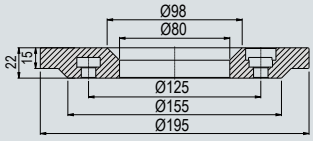
Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Extra €	**105**	-	-	-	-	**105**	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE

TIPO - TYPE **1** (pag - page 1.97)

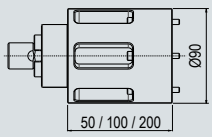




PROLUNGA - EXTENSION

TIPO - TYPE **1**





IMBALLO & PESO - PACK WEIGHT:

Valigetta - Bag 11Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT

Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni

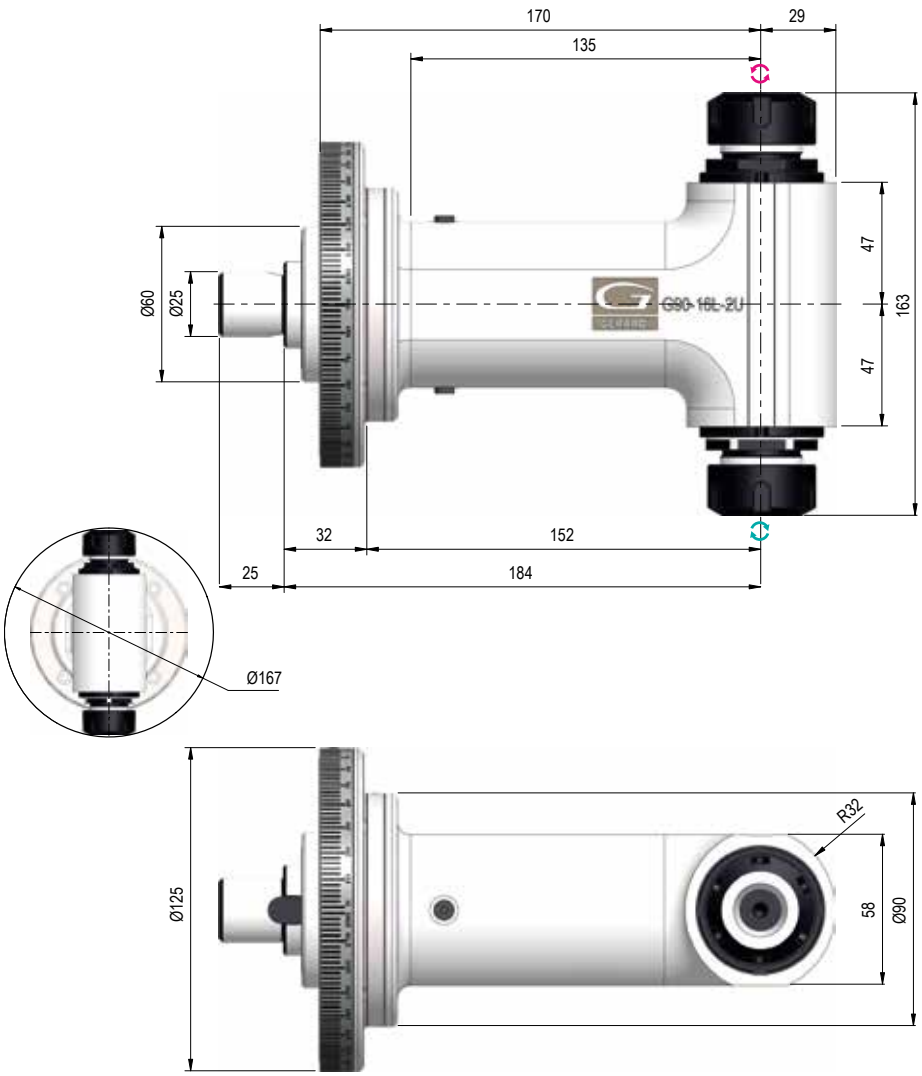
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 8000 Rpm	**119**
OUTPUT - Weldon Max Ø16 (X2)	**360**
OUTPUT - HSK 32 (X2)	**-**
OUTPUT - Shell mill holder Ø16 (X2)	**186**

G90-16L 2U

TYPE 1

Price: **€ 4.889**





Dati tecnici - Technical data

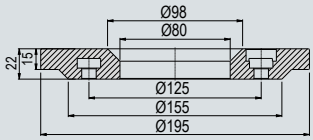
Ratio 1:1	Kg 6,1
Rpm 4.000	Ø16
N 510	M12
Nm 24	ER-25 Ø1/16

Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871			**CAT** ANSI B5.50		**BT** MAS 403			**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	30	40	50	40	50	30	40	50	63	80	100	C5	C6	C8	40	50
Extra €	**105**	-	-	-	-	**105**	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

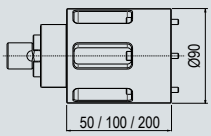
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **1** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **1**





IMBALLO & PESO - PACK WEIGHT:
Valigetta - Bag 12Kg



DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

HIGH SPEED - 8000 Rpm	**119**
OUTPUT - Weldon Max Ø16 (X2)	**360**
OUTPUT - HSK 32 (X2)	**-**
OUTPUT - Shell mill holder Ø16 (X2)	**186**

1

G90-20 2U

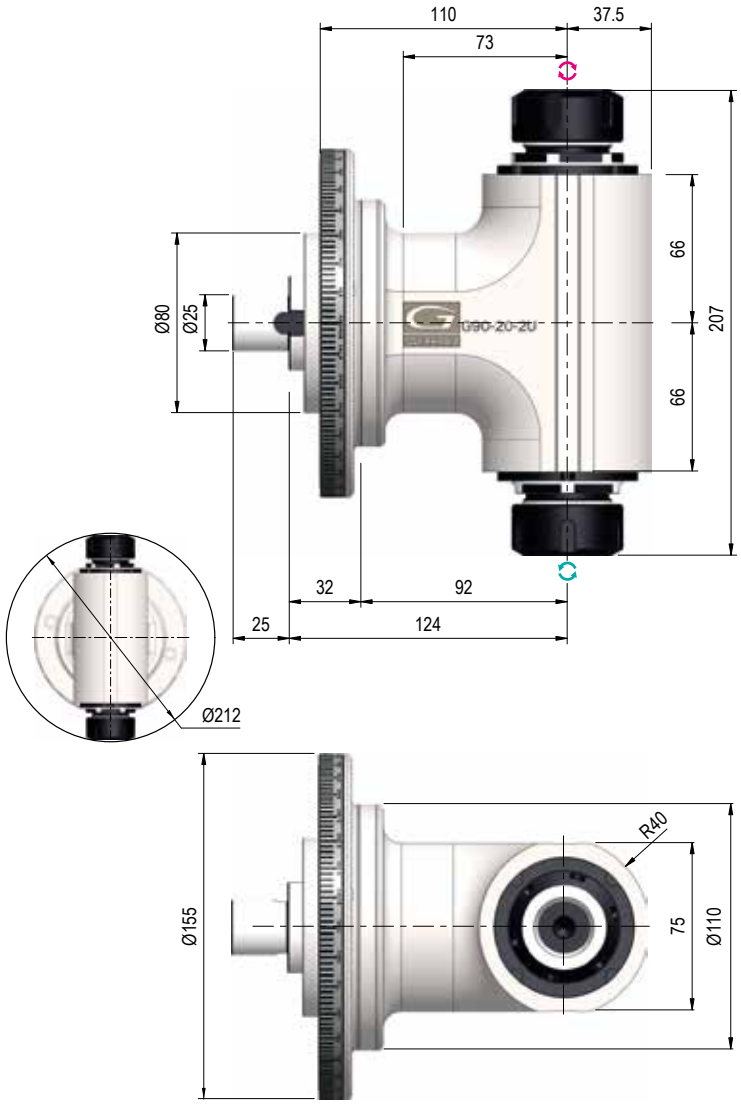
TYPE 2

Price: **€ 4.305**



Dati tecnici - Technical data

Ratio 1:1	Kg 14
Rpm 4.000	Ø20
N 1.250	M16
Nm 40	ER-32 Ø2/20

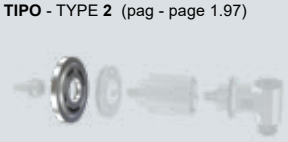


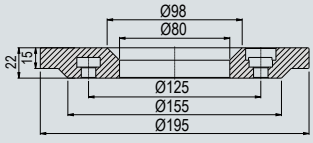
Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

FLANGIA UNIVERSALE - UNIVERSAL FLANGE

TIPO - TYPE **2** (pag - page 1.97)

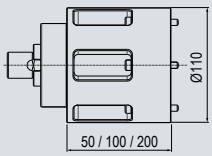




PROLUNGA - EXTENSION

TIPO - TYPE **2**





IMBALLO & PESO - PACK WEIGHT:

Valigetta - Bag 21Kg

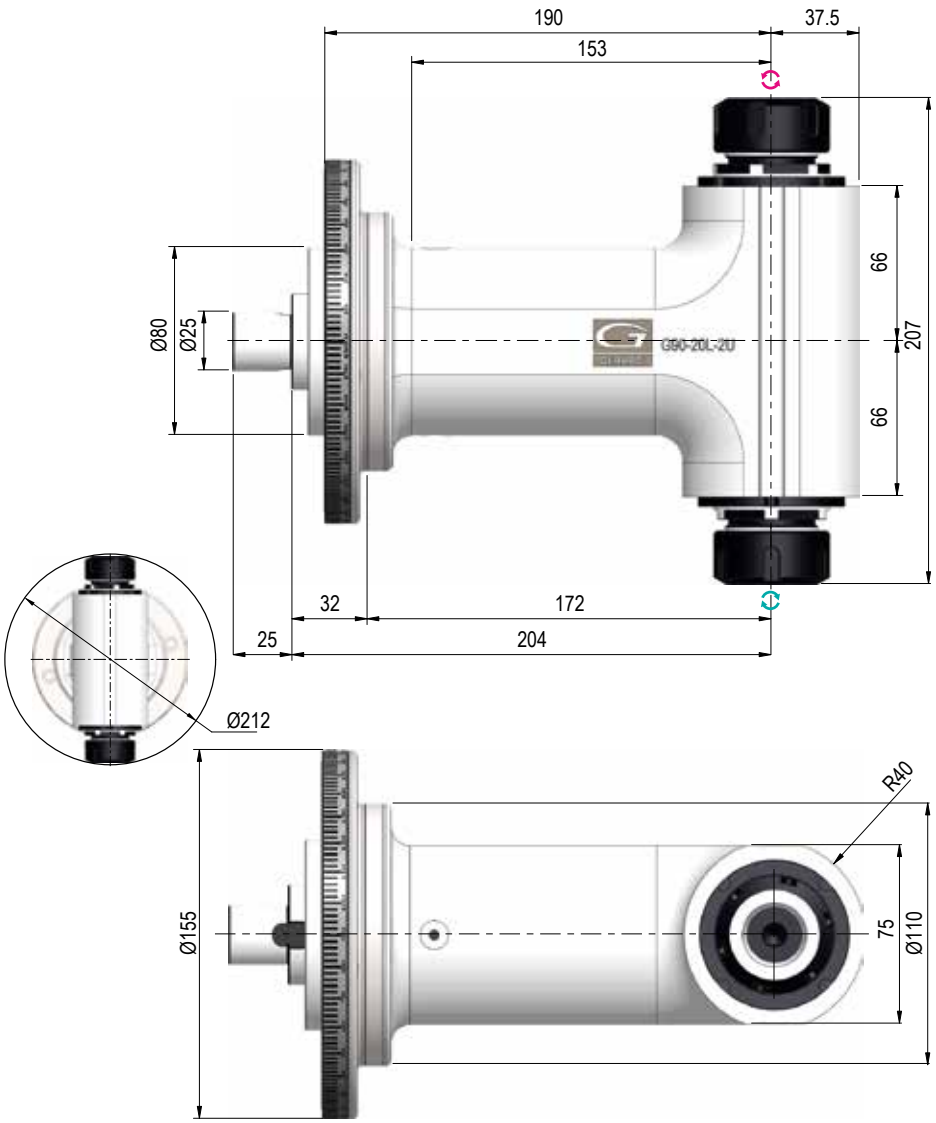
DOTAZIONE STANDARD - STANDARD EQUIPMENT

Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni

Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

HIGH SPEED - 6000 Rpm	**119**
OUTPUT - Weldon Max Ø20 (X2)	**-**
OUTPUT - HSK 40 (X2)	**917**
OUTPUT - Portafresa Toolholder Ø20 (X2)	**186**



G90-20L 2U

TYPE 2

Price: **€ 5.171**



Dati tecnici - Technical data

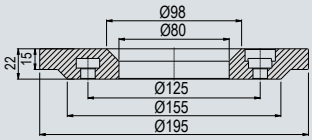
Ratio 1:1	Kg 15,5
Rpm 4.000	Ø20
N 1.250	M16
Nm 40	ER-32 Ø2/20

Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

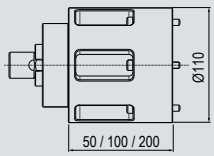
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **2** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **2**





IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 31Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

HIGH SPEED - 6000 Rpm	**119**
OUTPUT - Weldon Max Ø20 (X2)	-
OUTPUT - HSK 40 (X2)	**917**
OUTPUT - Shell mill holder Ø22 (X2)	**186**

1

G90-30 2U

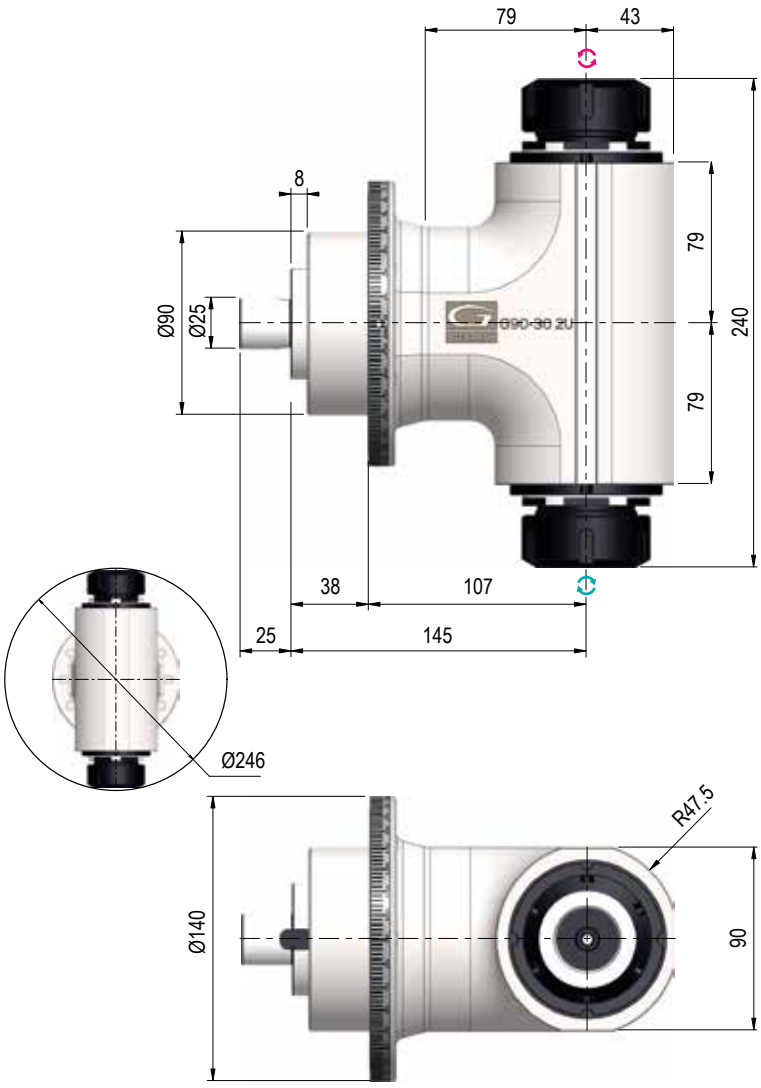
TYPE 3

Price: **€ 5.027**



Dati tecnici - Technical data

Ratio 1:1	Kg 20
Rpm 4.000	Ø30
N 1.750	M20
Nm 100	ER-40 Ø3/30

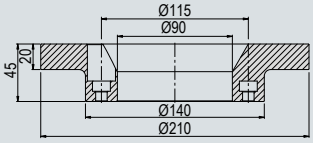


Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks	SK DIN 69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			C. ISO 26623			ISO DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

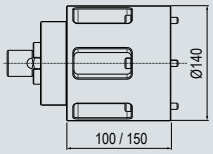
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **3** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **3**

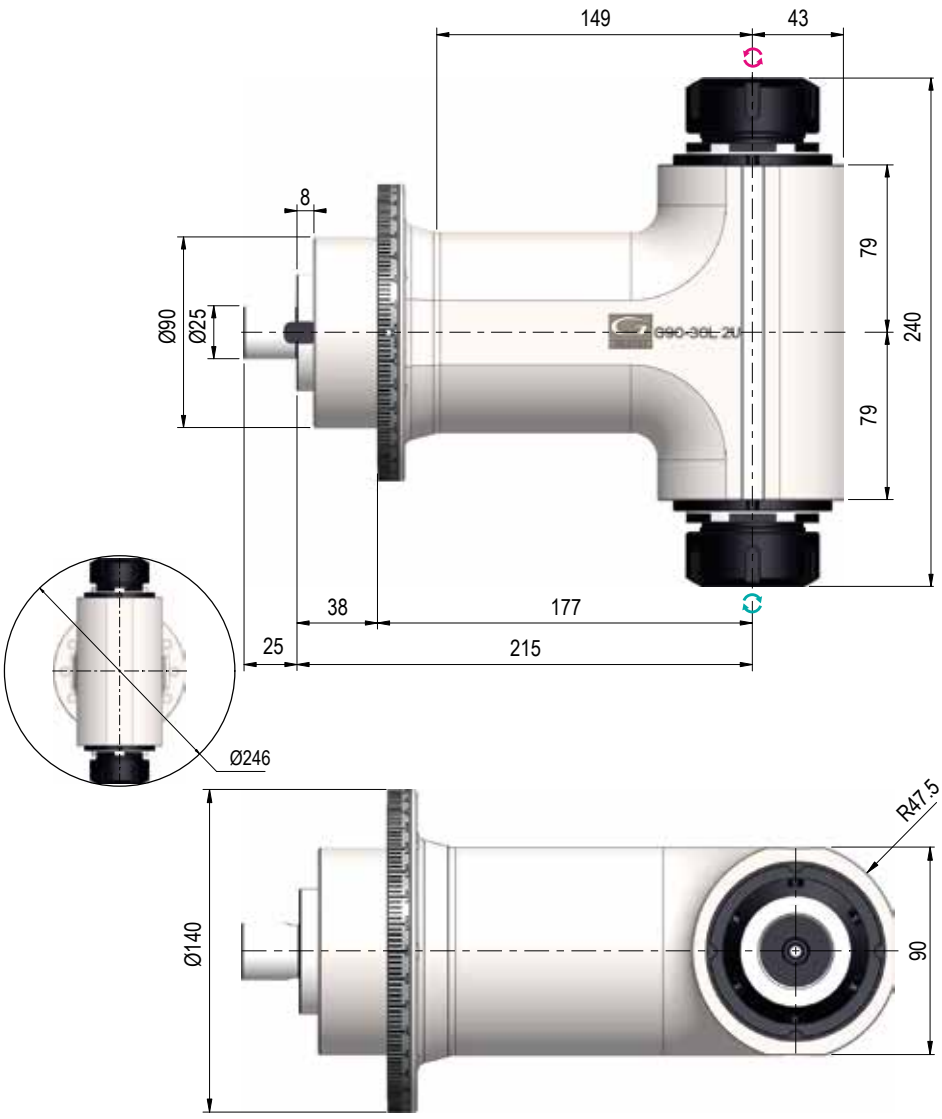




IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 35Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€
HIGH SPEED - 6000 Rpm	**119**
OUTPUT - Weldon Max Ø25 (X2)	**770**
OUTPUT - HSK 40 (X2)	**917**
OUTPUT - Shell mill holder Ø27 (X2)	**186**



G90-30L 2U

TYPE 3

Price: **€ 6.269**



Dati tecnici - Technical data

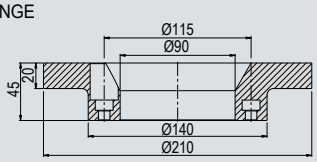
Ratio 1:1	Kg 23
Rpm 4.000	Ø30
N 1.750	M20
Nm 100	ER-40 Ø3/30

Senso di rotazione Uguale e Contrario al mandrino - Direction of rotation Same & Opposite to the machine spindle

Coni - Shanks	**SK** DIN 69871		**CAT** ANSI B5.50		**BT** MAS 403		**HSK** DIN 69893			**C.** ISO 26623			**ISO** DIN2080	
Grandezza - Size	40	50	40	50	40	50	63	80	100	C5	C6	C8	40	50
Extra €	-	-	-	-	-	-	**200**	**222**	**243**	**412**	**412**	**412**	**169**	**195**

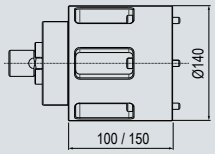
FLANGIA UNIVERSALE - UNIVERSAL FLANGE
TIPO - TYPE **3** (pag - page 1.97)





PROLUNGA - EXTENSION
TIPO - TYPE **3**





IMBALLO & PESO - PACK WEIGHT:
Cassa in Legno - Wooden Box 38Kg

DOTAZIONE STANDARD - STANDARD EQUIPMENT
Valigetta / Flangia Universale / Ghiera ER / Cono std / Chiavi di servizio
Tubetto di grasso / Libro istruzioni
Special bag / Universal flange / ER nut / Shank / Wrenches / Grease tube / Instruction book

OPZIONI - OPTIONS	€

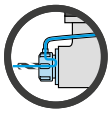
HIGH SPEED - 6000 Rpm	**119**
OUTPUT - Weldon Max Ø25 (X2)	**770**
OUTPUT - HSK 40 (X2)	**917**
OUTPUT - Shell mill holder Ø27 (X2)	**186**

Teste Angolari / *Angle Heads*
ACCESSORIES

Accessori Classic Line - Classic Line Accessories



Cambi rapidi Modulari
Modular Quick Change
2.0



ReCool Nuts
fino a / Up to
150 Bar



from 1.10 to 1.54

SERIE ATC / ATC SERIES

E' la linea di teste adatte ai centri di lavoro, trasportabile automaticamente dal magazzino utensili al mandrino e viceversa. Corpo testa orientabile di 360° su ASSE MANDRINO. Quando la testa non è in posizione di lavoro, un sistema di aggancio impedisce la rotazione del cono rispetto al corpo testa. Una caratteristica primaria delle teste Classic - ATC è l'albero centrale realizzato in un solo pezzo con il cono di attacco, per offrire la massima rigidità. Recentissima novità è il perno di fermo intercambiabile.

This range of heads is designed to be used on machining centres and can be automatically tranferred from the tool magazine to the machine spindle and back. Angle head body adjustable at 360° on SPINDLE AXIS. This allows easy adjustment of the drive taper and head relative to arrester block mounted on the front of the machining centres' spindle housing. When the head is unloaded from the machine spindle, a safety latch prevents the drive taper from rotating. A major feature of the Classic ATC heads is the main input shaft which is integral with the drive taper to ensure maximum rigidity. The last news is the interchangeable positioning pin.



from 1.57 to 1.83

SERIE MTC / MTC SERIES

E' la linea di teste adatte a macchine utensili tradizionali e da fissare al mandrino tramite flangiatura. La cava a "T" ricavata sulla flangia universale permette un facile posizionamento del corpo testa sui 360° intorno al suo asse verticale. Un sistema modulare componibile, rende possibile variare la lunghezza del corpo testa aggiungendo l'elemento di prolunga. Modulo di prolunga, coni e flangia universale sono modulari e quindi intercambiabili su tutti i corpi testa appartenenti allo stesso ordine di grandezza.

This is a range of heads for traditional machine tools with flange attachment. The T-slot on the universal flange facilitates positioning the head 360° around its vertical axis. The modular system makes it possible to extend the lenght of the body by additing a spacer.The extension spacer, drive tapers and universal flange are modular and therefore interchangeable among all the heads of similar size.



Flangia universale
Universal Flange

*** Prolunga - Extension**
(Opzionale - Optional)



from 1.92 to 1.93

Stop-block per ATC
Stop-block for ATC

Stop-block antirotazione con bussola cementata e guarnizione per una maggiore precisione di posizionamento.

Antirotation Stop-Block with case hardened bushing and gasket for accuracy positioning.



from 7.4 to 7.6

Pinze ER
ER Collets

Pinze ER, pinze biconiche realizzate in acciaio e adatte al serraggio di utensili secondo normativa DIN 6499

ER Collets, steel biconical collets for tool clamping according to DIN6499 regulation.



from 1.86 to 1.87

Ghiere ReCool
Re Cool nuts

Con queste ghiere speciali è possibile ottenere il passaggio refrigerante fino a 150BAR tramite utensile anche su teste che non prevedono questa opzione

With these special nuts it is possible to get coolant through the tool (Up to 150BAR) even on angle heads which do not have this option.



from 7.12 to 7.15

Cambi Rapidi
Quick changes

Il cambio rapido dell'utensile permette di ridurre i tempi morti della macchina. Tempi di installazione ridotti e possibilità di presetting a bordo macchina.

The quick change of preset tools shortens downtime of machine. Reduced set-up times and offline tool presetting possibility.

Ampia gamma di accessori e partri di ricambio per tutta la gamma di teste angolari Classic. Le ghiere e le pinze sono costruite in acciaio temprato e rettificato con macchine utensili ad alta precisione.

Wide range of accessories and spare parts for all types of angle heads Classic line. Nuts and collet are produced with top quality steel and they are hardened and grinded with high precision.

SCAN IT TO WATCH THE VIDEO PRESENTATION

1 YEAR WARRANTY

Un ampia gamma di accessori!

Wide range of accessories!

Prolunghe per MTC
Extensions for MTC

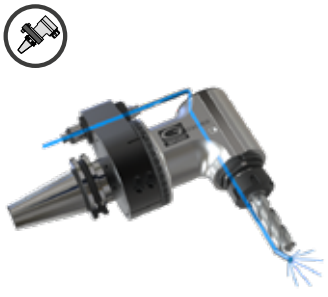
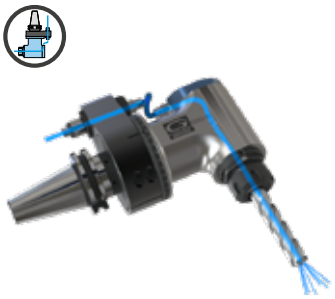
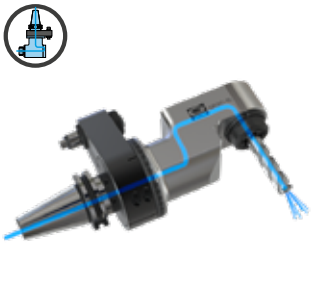
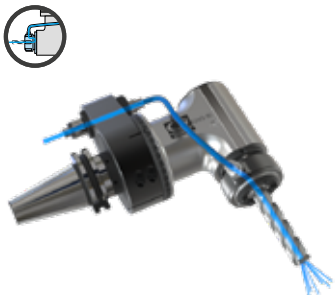
La cava a "T", ricavata sulla flangia universale, permette un facile posizionamento del corpo testa sui 360° intorno al suo asse verticale. Un sistema modulare componibile, rende possbile variare la lunghezza del corpo testa aggiungendo l'elemento di *prolunga (Opzionale). Max 2 elementi.

The T-slot on the universal flange facilitates the positioning the head 360° around its vertical axis. The modular system makes it possible to extend the lenght of the body by adding a *extension (Optional). Max. 2 extensions admitted.



1

OPZIONE REFRIGERANTE INTERNO
INTERNAL COOLANT OPTION

10bar	Opzione B - B Option 10bar	Opzione RI - RI Option UP TO 70bar	Opzione Re-Cool - Re-Cool Option UP TO 150bar
			
Perno » Utensile Positioning Pin » Tool	**Perno » Distributore » Utensile** Positioning Pin » Rotating Distributor » Tool	**Cono » Distributore » Utensile** Shank » Rotating Distributor » Tool	**Perno » Ghiera ReCool » Utensile** Positioning Pin » ReCool Nut » Tool
Passaggio refrigerante esterno all'utensile 10bar External coolant 10bar through the tool	**Passaggio refrigerante interno all'utensile 10bar dal perno attraverso distributore rotante** Internal coolant 10bar through the tool from positioning pin and through rotating distributor	**Passaggio refrigerante interno all'utensile da 30 a 70 bar dal cono e attraverso il distributore rotante** Internal coolant through the tool from 30 to 70 bar from the shank and through the rotating distributor	**Passaggio refrigerante interno l'utensile per mezzo della ghiera ReCool.** Internal coolant through the tool from the special nut ReCool
ROTAZIONE A SECCO - DRY RUNNING **POSSIBILE** - POSSIBLE	**ROTAZIONE A SECCO** - DRY RUNNING **POSSIBILE** - POSSIBLE	**ROTAZIONE A SECCO** - DRY RUNNING **NON POSSIBILE** - NOT POSSIBLE	**Vedi pagine** - See Pages **7.16 - 7.18**

OPZIONI DI USCITA SERIE ATC
OUTPUT OPTIONS ATC SERIES

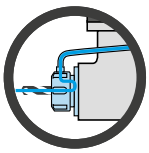


MODELLO	USCITA STD		HSK		ISO - CAT - BT		PORTAFRESA		WELDON		CAPTO		ER OPZIONE		DOPPIA	
	TIPO	C	TIPO	C	TIPO	C	TIPO	C	TIPO	C	TIPO	C	TIPO	C	TIPO	D
G90-5 / 5L	ER-8	32,5	-	-	-	-	-	-	Ø6	31	-	-	-	-	-	-
GL90-7 // G90-7 / 7L	ER-11	38	-	-	-	-	-	-	Ø8	36,3	-	-	-	-	ER-11 ER-8 MINI	34,2
GL90-10 // G90-10 / 10L / 10L.240	ER-16	49,5	-	-	-	-	Ø16	50	Ø10	63	-	-	-	-	ER-16 ER-11 MINI	45,5
GTU-10	ER-16	49,5	-	-	-	-	Ø16	50	Ø10	63	-	-	ER-20	63	ER-16 ER-11 MINI	45,5
GL90-16 // G90-16 / 16L 16L.270 // G90-16 2U / 16L 2U	ER-25	81,5	32	75,5	-	-	Ø16	63,5	Ø16	75	-	-	-	-	ER-25 ER-16 MINI	58,5
G90-20 / 20L / 20L.332 G90-20 2U / 20L 2U	ER-32	103,5	40	86,5	SK30	83,5	Ø22	83	Ø20	111	C4	90	ER-40	111	ER-32 ER-20 MINI	72,5
G90-30 / 30L / 30L.287 G90-30 2U / 30L 2U	ER-40	120	40	100	SK30	96,5	Ø27	101	Ø25	147	C4	95,5		*	ER-40 ER-25 MINI	82
G90-S40 / S40L / S40L.280	SK40	105	63	130	-	-	Ø27	132	Ø25	152	C4/C5	103 103	-	-	-	-

Teste angolari ATC opzioni uscita - Output Options ATC angle heads

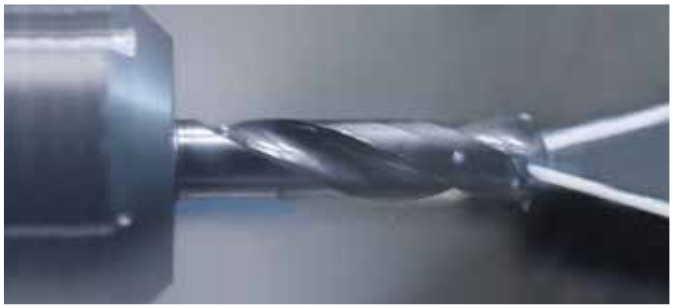
RE COOL NUTS

NEW 2025

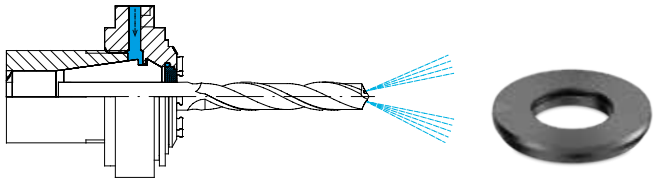


DISCHETTI A TENUTA STAGNA PER GHIERE - SEALING DISKS FOR NUTS

REFRIGERAZIONE INTERNA - INTERNAL COOLANT



DISCHETTO A TENUTA STAGNA - SEALING DISK **GDS**

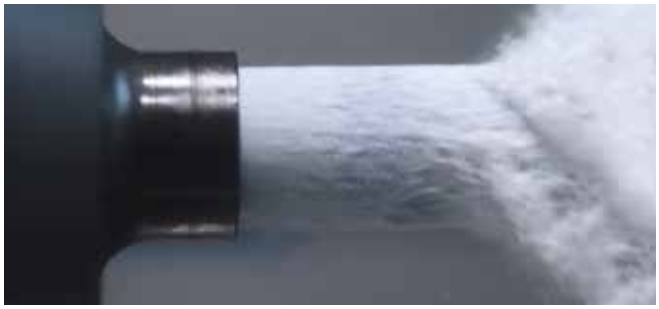


CARATTERISTICHE PRINCIPALI - KEY FEATURES

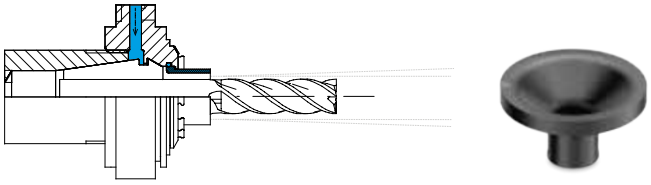
- **Facile aggiunta della lubrorefrigerazione interna con Ghiera ReCool, con il dischetto a tenuta stagna GDS**
- **Precisa refrigerazione del tagliente e migliore asportazione di truciolo**
- **Ideale soprattutto per elevate profodità**
- **Lubrificazione e refrigerazione del tagliente**
- **Ottima finitura superficiale**

- Achieve internal cooling with ReCool nuts and the use of our sealing disk GDS
- Precise cooling at the cutting edge and improved chip removal
- Particularly suitable for deep cavities
- Lubrication of cutting edge and cooling
- Best surface quality

REFRIGERAZIONE PERIFERICA - PERIPHERAL COOLANT



DISCHETTO PER REFRIGERAZIONE - FLUSH DISK **GKS**



CARATTERISTICHE PRINCIPALI - KEY FEATURES

- **Facile aggiunta della lubrorefrigerazione periferica con Ghiera ReCool, con il dischetto per refrigerazione GKS**
- **Applicabile su teste e motorizzati con refrigerante interno con apposita ghiera STDC - MINIC - AXC**
- **Lubrorefrigerante lungo l'utensile fino al tagliente**
- **Ideale per profondità medie**

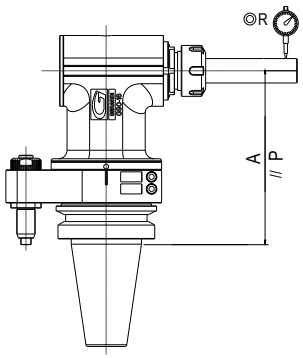
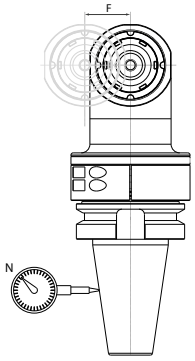
- Achieve peripheral cooling with ReCool nuts and the use of our coolant flush disk GKS
- Applicable on Angle Heads and Driven Tools with internal coolant through suitable nut STDC - MINIC - AXC
- Coolant is fed along the side of the tool to the cutting edge
- Can be used for moderate cavities

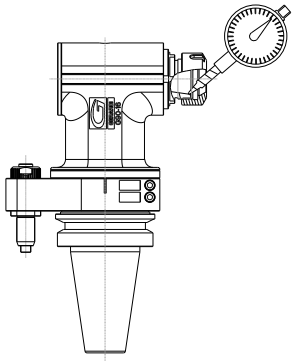
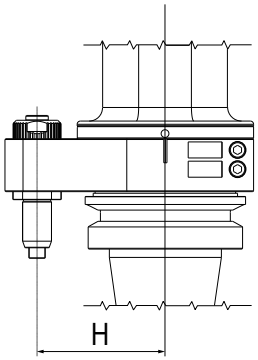


Per maggiori informazioni vedi da pagina 7.16 - 7.18 - See from page 7.16 to 7.18

ESEMPIO SCHEDA DI COLLAUDO
INSPECTION SHEET EXAMPLE

Tipo - Type	G90-16 ATC
Codice - Code	9.G90.16000
Numero seriale - Serial number	18-011
Attacco cono - Input shank	CAT50 - H=80
Note speciali - Special notes	

TIPO DI CONTROLLO Test type	**RAFFIGURAZIONE** Drawing	**ERRORE** Error
Quota e parallelismo da filo cono ad asse principale. Oscillazione asse utensile. Height and parallelism from gauge line to main axis. Runout cutter axis.		**Ammesso** Allowed A= ±0,03 R=±0,025 P=±0,015/100 **Rilevato** Checked A = +0,010 R = 0,015 P = 0,012/100
Concentricità tra cono e asse principale. Disassamento tra gli assi principali. Concentricity beetween shank and main axis. offset beetween main axis		**Ammesso** Allowed F= ±0,02 N=±0,02 **Rilevato** Checked F = 0,010 N = 0,016

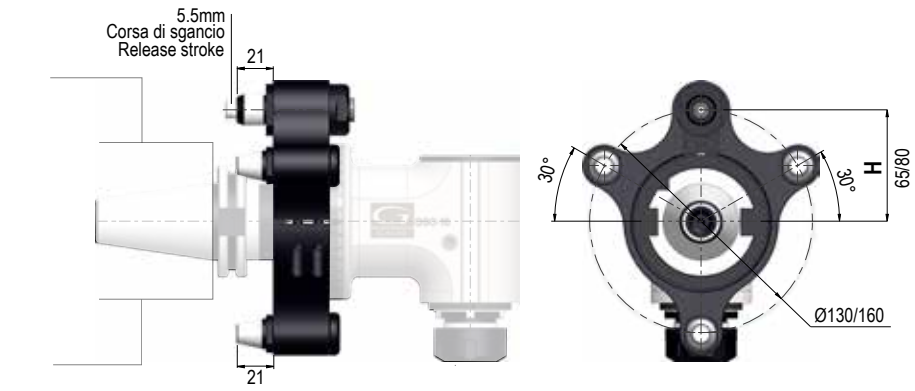
TIPO DI CONTROLLO Test type	**RAFFIGURAZIONE** Drawing	**ERRORE** Error
Oscillazione mandrino porta utensile. Runout in cutter spindle.		**Ammesso** Allowed 0,010 **Rilevato** Checked 0,008
Interasse cono-perno di posizionamento. Pitch shank-positioning pin.		**Ammesso** Allowed 0,010 **Rilevato** Checked -0,010

RODAGGIO TESTA - RUN-IN

RPM in entrata RPM	**Durata** Time	**Temperatura Ambiente** Room Temperature	**Temperaratura Sonda** Sensor Temperature	**Note** Notes
1000	00:10:00	22°	27°	
2000	00:10:00		32°	
3000	00:05:00		36°	
4000	00:05:00		42°	
5000				
6000				

Revisioni - Revisions	**Timbro -** Stamp	**Data -** Date
		Firma - Signature

SISTEMA ANTIROTANTE MULTIPOINT
MULTIPOINT ANTIROTATION SYSTEM



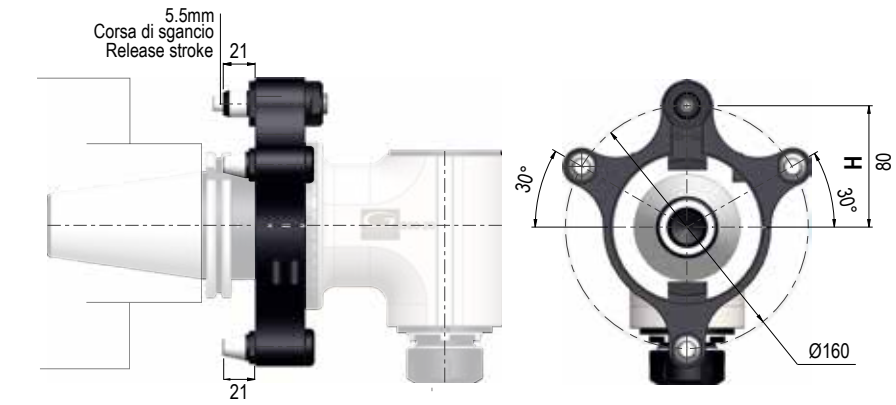
TYPE 1

Code 9.G90.16T00/...*

Teste ad angolo con interasse H=65
Angle heads with centre distance H=65

Prezzo Extra € **Extra Price €**	**1.999**
Solo flangia Only flange**	**A richiesta** **On request**

****In caso di acquisto contestuale alla testa angolare**
In case of purchase together with angle head



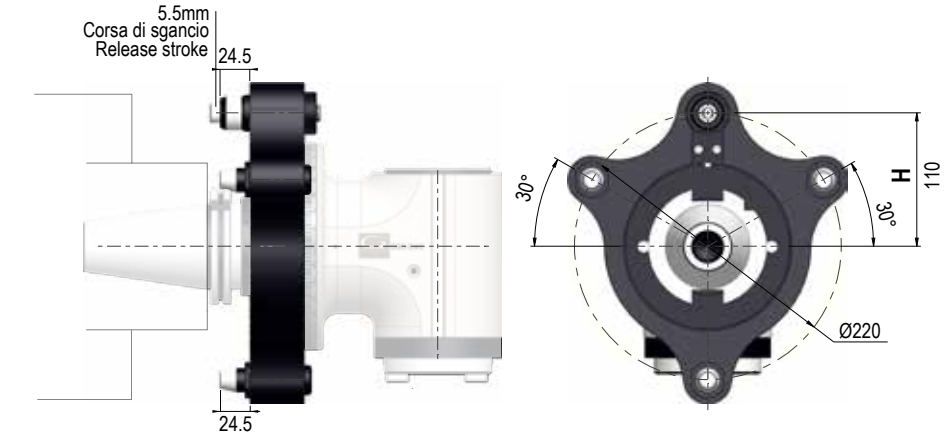
TYPE 2

Code 9.G90.20T00/...*

Teste ad angolo con interasse H=80
Angle heads with centre distance H=80

Prezzo Extra € **Extra Price €**	**2.236**
Solo flangia Only flange**	**A richiesta** **On request**

****In caso di acquisto contestuale alla testa angolare**
In case of purchase together with angle head



TYPE 3/4

Code 9.G90.30T00/...*
Code 9.G90.S40T0/...*

Teste ad angolo con interasse H=110
Angle heads with centre distance H=110

Prezzo Extra € **Extra Price €**	**2.462**
Solo flangia Only flange**	**A richiesta** **On request**

****In caso di acquisto contestuale alla testa angolare**
In case of purchase together with angle head



Il sistema antirotante MULTIPOINT è composto da 4 punti d'appoggio di cui uno standard e tre supplementari ed è stato studiato per i seguenti motivi:

- **Garantire una rigidità superiore allo standard**
- **Poter eseguire lavorazioni pesanti**
- **Annullare ogni tipo di vibrazione**
- **Applicabile ad ogni tipo di mandrino macchina**

The anti-rotation MULTIPOINT system is made of 4 brace points (one standard and 3 additional) for:

- Granting a higher than standard rigidity
- Allowing heavy duty machining
- Avoiding any type of vibration
- Mounting on any type of machine spindle



*** In fase di ordine specificare tipo di cono e grandezza** - In case of order specify shank type and size

ESEMPIO DI MONTAGGIO SERIES ATC
ATC SERIES MOUNTING EXAMPLE

PER UN CORRETTO ORDINE VERIFICARE L'IDONEITÀ DEL PERNO DI POSIZIONAMENTO
FOR A RIGHT PURCHASE ORDER CHECK THE POSITIONING PIN SUITABILITY

1) STOP-BLOCK GIÀ PRESENTE SUL MANDRINO MACCHINA

- Per Stop-block Gerardi è sufficiente indicare il tipo di testa, interasse H, diametro perno ed altezza perno
- In caso di Stop-block NON Gerardi, inviateci il disegno del suddetto e del mandrino macchina per determinare il perno. Se possibile si consiglia di smontare lo stop block presente e di utilizzare il nostro standard.

STOP-BLOCK ALREADY MOUNTED ON THE MACHINE SPINDLE

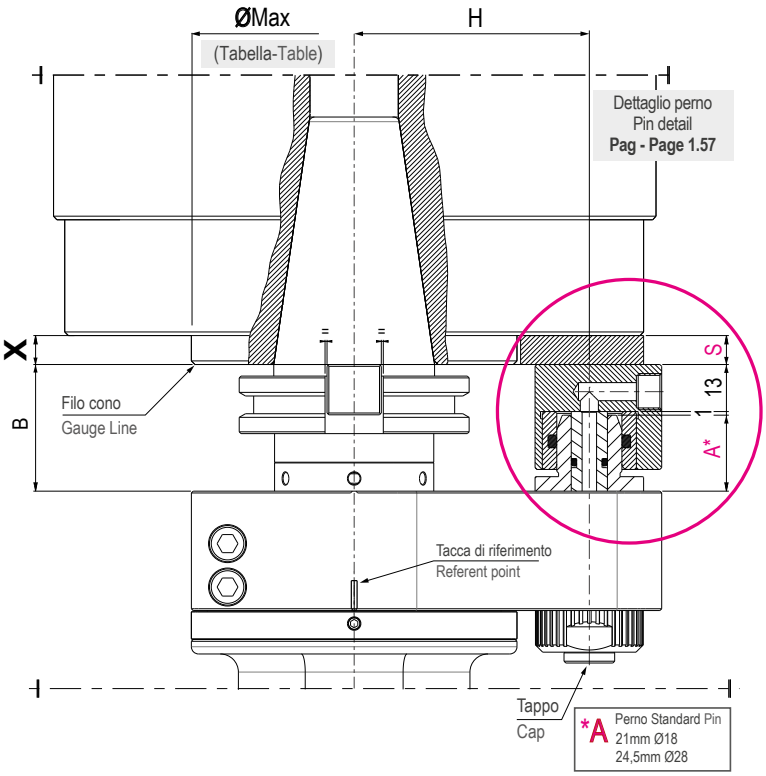
- For Gerardi items, please indicate the type of Angle Head, the H dimension, the pin diameter and height.
- For non-Gerardi items, please send us the stop-block and the machine spindle drawings in order to design the right pin. If possible, we suggest you to use Gerardi standard stop block, taking off the one already placed on the machine.

2) NESSUNO STOP-BLOCK MONTATO SUL MANDRINO MACCHINA

Rilevare la quota X sul mandrino della macchina e mediante la seguente formula calcolare lo spessore del distanziale. In caso di spessori inferiori a 8 mm è possibile richiedere un apposito stop-block con base lavorabile (Pag. 1.91)

NO STOP-BLOCK MOUNTED ON THE MACHINE SPINDLE

Please check the X dimension on the machine spindle and calculate the width of the spacer through the following formula. In case of widths of less than 8 mm, a special stop block with machineable base can be ordered (Pag. 1.91)



S=X+B-35

Se sei in possesso di una testa angolare con perno Ø18
If you have an Angle Head with pin Ø18

S=X+B-38,5

Se sei in possesso di una testa angolare con perno Ø28
If you have an Angle Head with pin Ø28

X	B
12mm	35mm (SK40)
S= X (12) + B (35) - 35 = 12	

Esempio di calcolo spessore distanziale
Example of calculation for spacer thickness

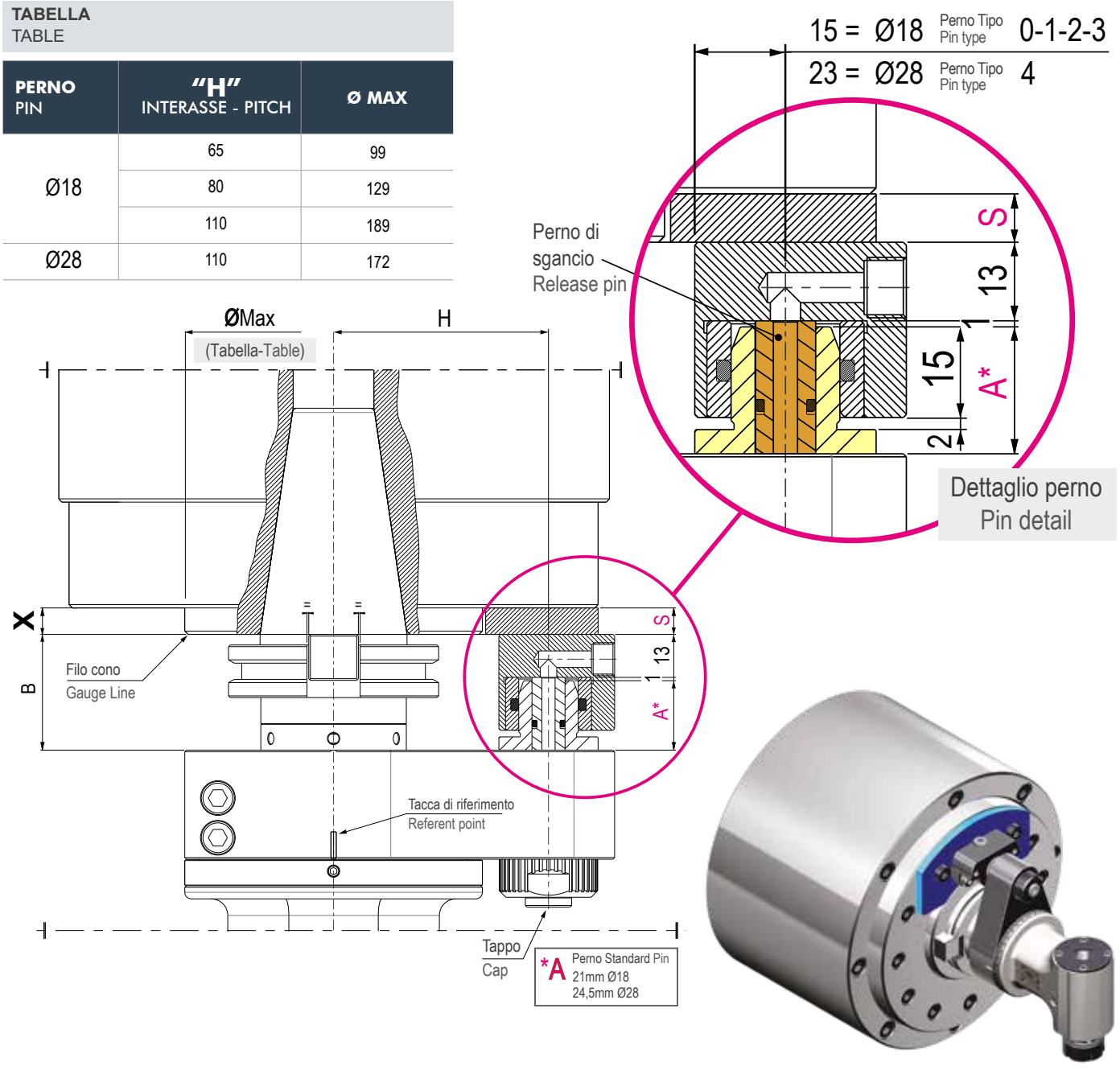
ESEMPIO DI MONTAGGIO SERIE ATC
ATC SERIES MOUNTING EXAMPLE

PER UN CORRETTO ORDINE VERIFICARE L'IDONEITA' DELL'INTERASSE "H"
FOR A RIGHT PURCHASE ORDER CHECK PITCH "H" SUITABILITY

Verificare l'idoneità dell'interasse "H" tramite tabella - Check pitch "H" through table

TABELLA
TABLE

PERNO PIN	"H" INTERASSE - PITCH	Ø MAX
Ø18	65	99
	80	129
	110	189
Ø28	110	172



ATTENZIONE - ATTENTION

Il distanziale per il posizionamento dello stop-block, deve essere realizzato di uno spessore tale da comprimere il perno di sgancio NON per l'intera corsa, ma in modo da lasciare sempre 1mm di gioco.
I calcoli della pagina precedente sono già fatti in tal senso.

The spacer for the stop-block must be done in order to push the release pin NOT for the whole stroke release, but leaving always 1mm play. Previous page calculations are already considering this issue.

1

STOP-BLOCK Standard

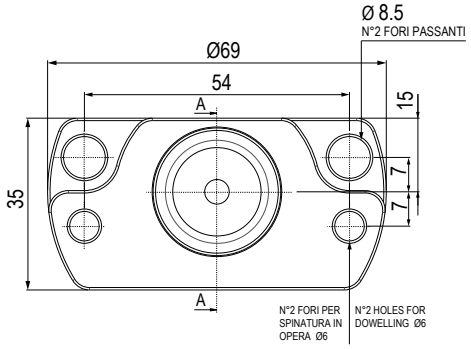
Ø18



Con bussola temprata - with hardened bushing

STOP BLOCK Code	€
9.INDEX.18	165
NO STOP BLOCK INCLUDED	-80

BUSHING Code	€
9.G18.INDEX.2	16



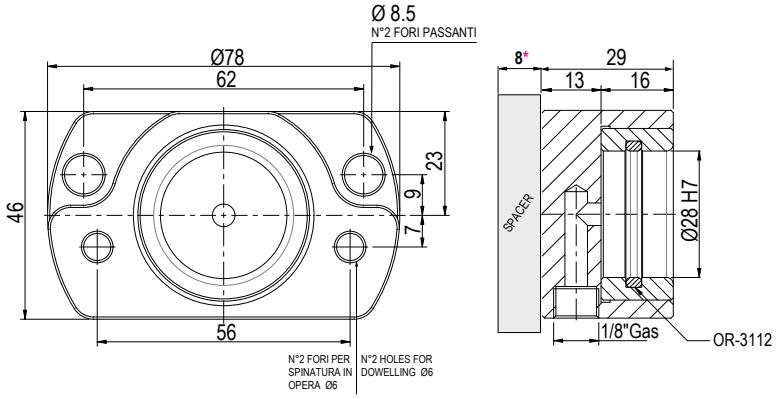
Ø28



Con bussola temprata - with hardened bushing

STOP BLOCK Code	€
9.INDEX.28	237
NO STOP BLOCK INCLUDED	-100

BUSHING Code	€
9.G28.INDEX.2	32



STOP-BLOCK Conico - Conical

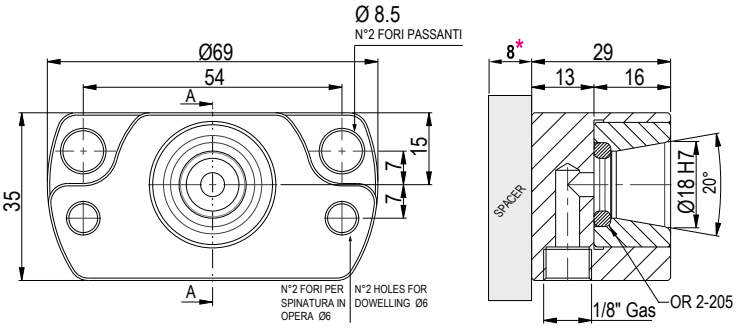
Ø18



Con bussola temprata - with hardened bushing

STOP BLOCK Code	€
9.INDEX.18C	165
NO STOP BLOCK INCLUDED	-80

BUSHING Code	€
9.G18.INDEX.2C	27



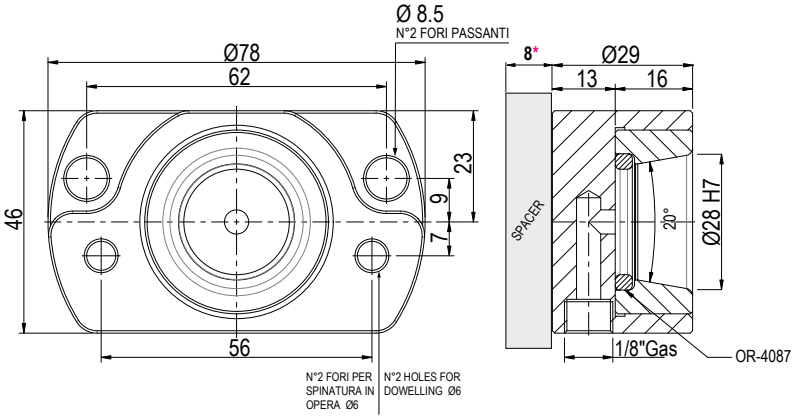
Ø28



Con bussola temprata - with hardened bushing

STOP BLOCK Code	€
9.INDEX.28C	237
NO STOP BLOCK INCLUDED	-80

BUSHING Code	€
9.G28.INDEX.2C	60



* **Misura minima per distanziale sotto la quale è necessario utilizzare lo stop-block lavorabile**
Specer minimum dimension under this dimension it is necessary to use the machineable stop-block

STOP-BLOCK Lavorabile** - Machineable**

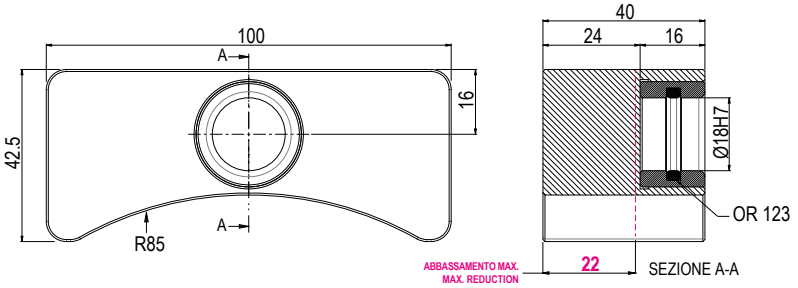
Ø18



Con bussola temprata - with hardened bushing

STOP BLOCK Code	€
9.G18.INDEX	196
NO STOP BLOCK INCLUDED	-90

BUSHING Code	€
9.G18.INDEX.2	16



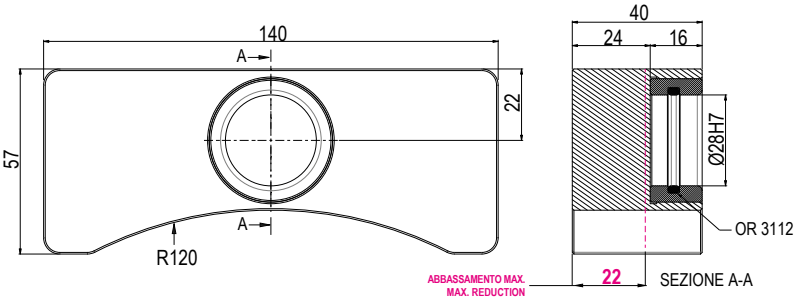
Ø28



Con bussola temprata - with hardened bushing

STOP BLOCK Code	€
9.G28.INDEX	268
NO STOP BLOCK INCLUDED	-90

BUSHING Code	€
9.G28.INDEX.2	32



STOP-BLOCK Lavorabile conico** - Conic machineable**

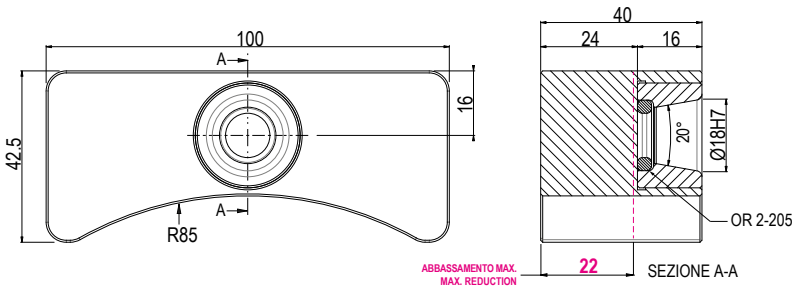
Ø18



Con bussola temprata - with hardened bushing

STOP BLOCK Code	€
9.G18.INDEXC	196
NO STOP BLOCK INCLUDED	-90

BUSHING Code	€
9.G18.INDEX.2C	27



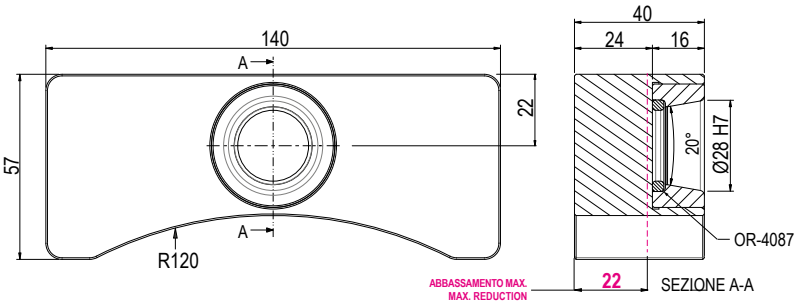
Ø28



Con bussola temprata - with hardened bushing

STOP BLOCK Code	€
9.G28.INDEXC	268
NO STOP BLOCK INCLUDED	-90

BUSHING Code	€
9.G28.INDEX.2C	60

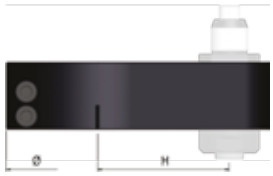


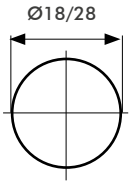
** **A richiesta** - On request

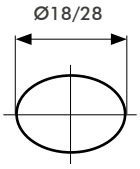
GRUPPO ANTIROTANTE
ANTI-ROTATION GROUP



*PERNO CONICO FLOTTANTE
FLOATING CONICAL PIN







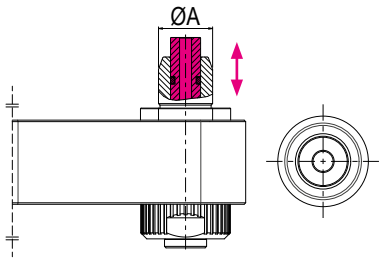
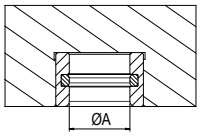
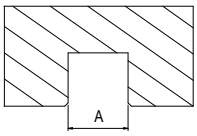
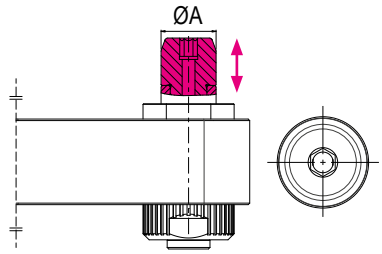
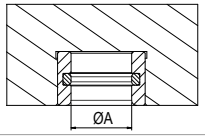
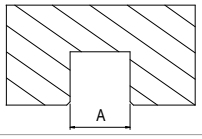
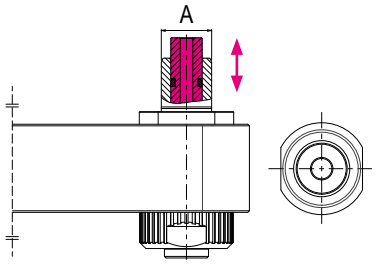
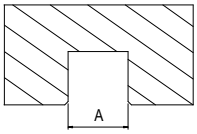
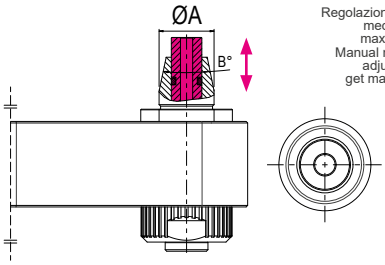
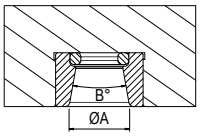
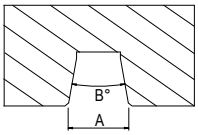
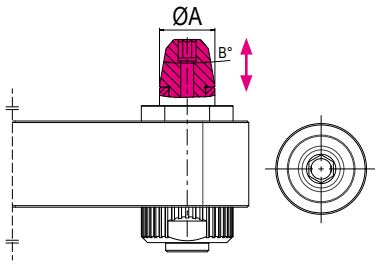
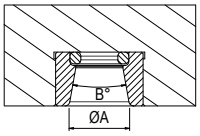
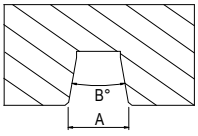
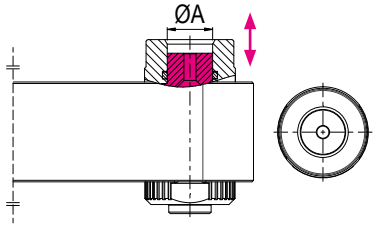
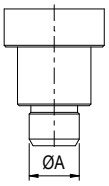


TESTA ANGOLARE ANGLE HEADS	GRUPPO ANTIROTANTE ANTI-ROTATION GROUP	FLANGIA INTEGRALE INTEGRAL FLANGE	STANDARD 2 AXIS	ON REQUEST 1 AXIS	GRUPPO PERNO PIN GROUP

MODELLO Model	TIPO Type	Code	€	Code	Ø	H	€	PERNO CILINDRICO CYLINDRICAL PIN	PERNO ELLITTICO ELLIPTIC PIN	P	L	€
GL90-7 GL90-10 GL90-16 GTU-10	0 Ø73	* 9.GMU.13050C/i65	465	9.GMU.13030/i65	Ø73	65	155	* 9.GMU.13075C		Ø18	21	320
		* 9.GMU.13050C/i80	490					* 9.GMU.13075L		Ø18	35	320
		* 9.GMU.13050C/110	515	9.GMU.13030/i80		80	180	9.GMU.13071C	9.GMU.13073C	Ø18	21	175
GMU 13 / 13L		9.GMU.13050/i65	320					9.GMU.13071L	9.GMU.13073L	Ø18	35	175
		9.GMU.13050/i80	345	9.GMU.13030/110		110	205					
		9.GMU.13050/110	370									
G90-5 G90-7 / 7L G90-7 / 7L 2U G90-10 / 10L G90-10 / 10L 2U G90-16 / 16L G90-16 / 16L 2U GMU-16 GR90-5 GR90-10 GR90-16	1 Ø90	9.G90.16050/i65	330	9.G90.16030/i65	Ø90	65	165	9.G90.16071C	9.G90.16073C	Ø18	21	175
		9.G90.16050/i80	355	9.G90.16030/i80		80	190	9.G90.16071L	9.G90.16073L	Ø18	35	175
		9.G90.16050/110	380	9.G90.16030/110		110	215					
G90-20 / 20L G90-20 / 20L 2U GMU 20	2 Ø110	9.G90.20050/i80	370	9.G90.20030/i80	Ø110	80	205	9.G90.16072C	9.G90.16074C	Ø28	24,5	175
		9.G90.20050/110	400	9.G90.20030/110		110	235					
G90-30 / 30L G90-30 / 30L 2U	3 Ø140	9.G90.30050/110	435	9.G90.30030/110	Ø140	110	270	9.G90.16072L	9.G90.16074L	Ø28	35	175
G90-S40 G90-S40L GR90-S40	4 Ø170	9.G90.S4050/110	475	9.G90.S4023/110	Ø170	110	310	9.G90.S4072C	9.G90.S4074C	Ø28	24,5	175
								9.G90.S4072L	9.G90.S4074L	Ø28	35	

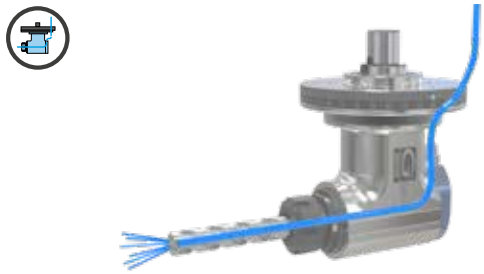
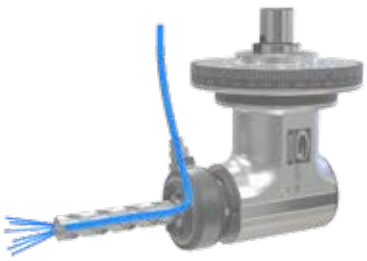
Flangia ad interasse speciale EXTRA € 515 - Flange with special pitch € 515 EXTRA

GRUPPO PERNO SPECIALE
SPECIAL PIN GROUP

FORMA Shape	TIPI DI PERNI Pin Types	€	TIPI DI STOP-BLOCK Stop-block Types	
Cilindrico standard Cylindrical standard **A**		250*	**Standard con bussola cilindrica** Standard with cylindric bushing 	**Prismatico** Prismatic 
Cilindrico flottante Cylindrical floating **B**		125*	**Standard con bussola cilindrica** Standard with cylindric bushing 	**Prismatico** Prismatic 
Prismatico Prismatic **C**		250*		**Prismatico** Prismatic 
Conico regolabile Adjustable conic **D**	 Regolazione manuale meccanica per max precisione Manual mechanical adjustement to get max accuracy	250*	**Bussola conica** Conic bushing 	**Prismatico conico** Conic prismatic 
Conico flottante Floating conical **E**		125*	**Bussola conica** Conic bushing 	**Prismatico conico** Conic prismatic 
Cilindrico femmina Female cylindric **F**		320*	**Cilindrico maschio** Cylindric male 	

* **Extra prezzo perno speciale** - * Extra price special pin

OPZIONE REFRIGERANTE INTERNO
INTERNAL COOLANT OPTION

Opzione B - B Option **Up to 40bar**	**Opzione Re-Cool** - Re-Cool Option **UP TO 150bar**
	
Mandrino macchina » Distributore » Utensile Machine spindle » Rotating Distributor » Tool	**Perno » Ghiera ReCool » Utensile** Positioning Pin » ReCool Nut » Tool
Passaggio refrigerante interno all' utensile. **Dal mandrino macchina e attraverso il distributore rotante** Internal coolant through the tool from the machine spindle and through rotating distributor. **ROTAZIONE A SECCO** - DRY RUNNING **10 BAR POSSIBILE** - POSSIBLE **30/40 BAR NON POSSIBILE** - NOT POSSIBLE	**Passaggio refrigerante interno l'utensile per mezzo della ghiera ReCool.** Internal coolant through the tool from the special nut ReCool. **Vedi pagine** - See Pages **7.16 - 7.18**

Passaggio refrigerante interno tramite cono » Distributore » Utensile SU RICHIESTA
Internal coolant through shank » roatating distributor » tool ON REQUEST

OPZIONI DI USCITA SERIE MTC
OUTPUT OPTIONS MTC SERIES



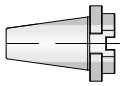
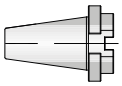
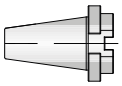
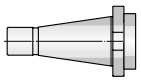
MODELLO	USCITA STD		HSK		ISO - CAT - BT		PORTAFRESA		WELDON		CAPTO		ER OPZIONE		DOPPIA	
	TIPO	C	TIPO	C	TIPO	C	TIPO	C	TIPO	C	TIPO	C	TIPO	C	TIPO	D
G90-5 / 5L	ER-8	32,5	-	-	-	-	-	-	Ø6	31	-	-	-	-	-	-
G90-7 / 7L	ER-11	38	-	-	-	-	-	-	Ø8	36,3	-	-	-	-	ER-11 ER-8 MINI	34,2
G90-10 / 10L	ER-16	49,5	-	-	-	-	Ø16	50	Ø10	63	-	-	-	-	ER-16 ER-11 MINI	45,5
GTU-10	ER-16	49,5	-	-	-	-	Ø16	50	Ø10	63	-	-	ER-20	63	ER-16 ER-11 MINI	45,5
G90-16 / 16L 16L.270 // G90-16 2U / 16L 2U	ER-25	81,5	32	75,5	-	-	Ø16	63,5	Ø16	75	-	-	-	-	ER-25 ER-16 MINI	58,5
G90-20 / 20L / G90-20 2U / 20L 2U	ER-32	103,5	40	86,5	SK30	83,5	Ø22	83	Ø20	111	C4	90	ER-40	111	ER-32 ER-20 MINI	72,5
G90-30 / 30L / G90-30 2U / 30L 2U	ER-40	120	40	100	SK30	96,5	Ø27	101	Ø25	147	C4	95,5		*	ER-40 ER-25 MINI	82
G90-S40 / S40XL	SK40	105	63	130	-	-	Ø27	132	Ø25	152	C4/C5	103 103	-	-	-	-
G90-S50 / G90-S50XL	-	-	-	-	SK50	165	-	-	-	-	C6/C8	163 163	-	-	-	-

Teste angolari MTC opzioni uscita - Output Options MTC angle heads

CONI MODULARI
MODULAR SHANKS

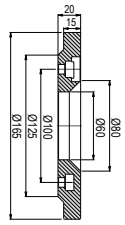
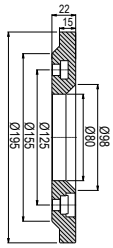
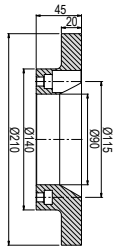
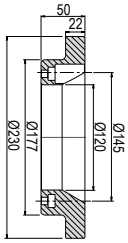
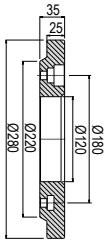
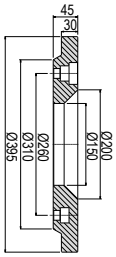
Senza cono -100 € - No shank -100 €

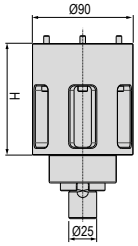
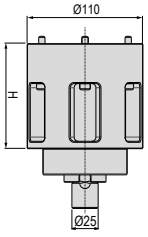
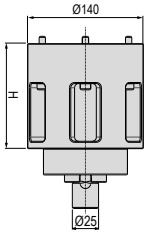
CONO MODULARE MODULAR SHANK

SK DIN 69871		BT MAS 403		CAT ANSI B5.50		ISO DIN 2080		HSK DIN 69893		C. ISO 26623	
											
30/40/50		30/40/50		40/50		30/40/50		40/63/80/100		C5/C6/C8	
Codes	**€**	**Codes**	**€**	**Codes**	**€**	**Codes**	**€**	**C odes**	**€**	**Codes**	**€**
9.SK30.ISO	260	9.SK30.BT	260	9.SK40.CAT40	260	9.SK30.2080	On Req.	9.HSK.63000	455	9.CPT.C5000	855
9.SK40.ISO		9.SK40.BT		9.SK50.CAT50		9.SK40.2080		9.HSK.80000	475	9.CPT.C6000	
9.SK50.ISO		9.SK50.ISO		9.SK50.CAT50/S50		9.SK50.2080		9.HSK.10000	495	9.CPT.C8000	
								9.HSK.40000	435	9.CPT.C4000	

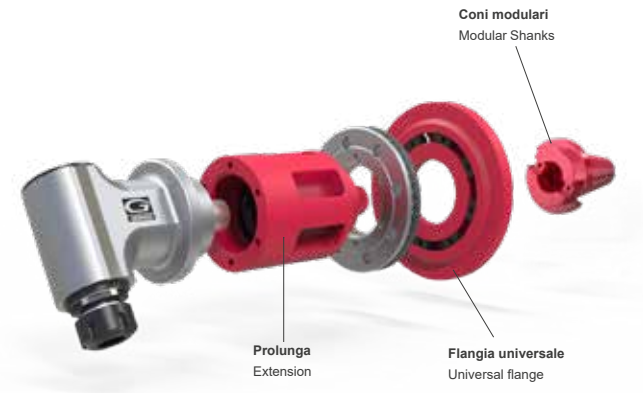
Tassello di Trascinamento - Shank Nut		€	Tassello di Trascinamento - Shank Nut		€	Tassello di Trascinamento - Shank Nut		€
10 h7	9SN00000_10	7	16 h7	9SN00000_16	9	25 h7	9SN00000_25	12

FLANGE / PROLUNGHE
FLANGES / EXTENSIONS

TIPO TYPE	1	2	3	4	5	6
MODELLO MODEL	G90-5 G90-7 / 7L G90-10 / 10L G90-16 / 16L GMU-16 G90-16 2U / 16L 2U	G90-20 / 20L GMU-20 G90-20 2U / 20L 2U	G90-30 / 30L G90-30 2U / 30L 2U	G90-S40 / S40L	G90-S40XL G90-S40XLxx GMU-S40-125 GMU-S40	G90-S50 G90-S50XLxx GMU-S50
FLANGE UNIVERSALI UNIVERSAL FLANGE						
Codes / €	9.UF.00001 195 NO FLANGE -100	9.UF.00002 225 NO FLANGE -120	9.UF.00003 300 NO FLANGE -150	9.UF.00004 350 NO FLANGE -160	9.UF.00005 400 NO FLANGE -200	9.UF.00006 620 NO FLANGE -280

TIPO TYPE	1	2	3
PROLUNGA EXTENSION			

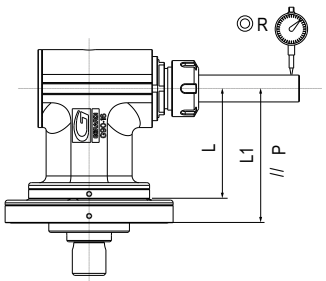
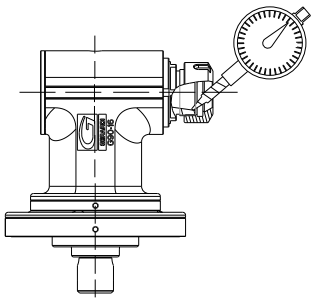
H	Codes	€	H	Codes	€	H	Codes	€
50	9.GEX.10050	360	50	9.GEX.20050	360	100	9.GEX.30100	720
100	9.GEX.10100	575	100	9.GEX.20100	575	150	9.GEX.30150	925
200	9.GEX.10200	1.135	200	9.GEX.20200	1.135			
			250	9.GEX.20250	1.400			
			450	9.GEX.20450	2.250			

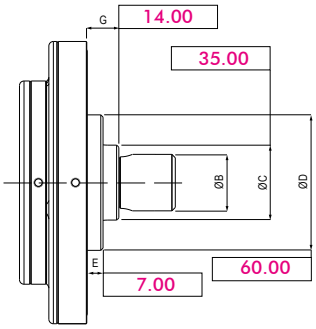
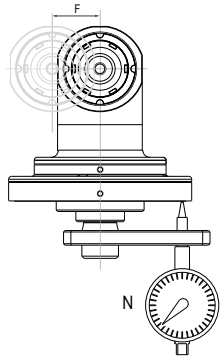


1

ESEMPIO SCHEDA DI COLLAUDO
INSPECTION SHEET EXAMPLE

Tipo - Type	G90-16 MTC
Codice - Code	9.G90.16001
Numero seriale - Serial number	17-127
Attacco cono - Input shank	DIN-69871/40
Note speciali - Special notes	

TIPO DI CONTROLLO TEST TYPE	RAFFIGURAZIONE DRAWING	ERRORE ERROR
Quota e parallelismo da filo cono ad asse principale. Oscillazione asse utensile. Height and parallelism from gauge line to main axis. Runout cutter axis.		**Ammesso** Allowed A= ±0,03 R=±0,025 P=±0,015/100 **Rilevato** Checked L = +0,020 L1 = +0,010 R = 0,025 P = 0,012/100
Oscillazione mandrino porta utensile. Runout in cutter spindle.		**Ammesso** Allowed 0,010 **Rilevato** Checked 0,008

TIPO DI CONTROLLO TEST TYPE	RAFFIGURAZIONE DRAWING	ERRORE ERROR
Verifica delle quote per l'attacco del cono e della flangia. Main input shaft dimension checked.		**Ammesso** Allowed E/G=0,1/-0,5 C/D=+0/-0,03 **Rilevato** Checked B = 25h7 ok E = -0,100 G = -0,150 C = -0,020 D = -0,030
Perpendicolarità e disassamento tra gli assi principali. Perpendicularity and offset between main axes.		**Ammesso** Allowed F = ± 0,020 N = 0,010/100 **Rilevato** Checked F = 0,015 N = 0,010/100

RODAGGIO TESTA - RUN-IN

RPM IN ENTRATA RPM INPUT	DURATA TIME	TEMPERATURA AMBIENTE ROOM TEMPERATURE	TEMPERARATURA SONDA SENSOR TEMPERATURE	NOTE NOTES
1000	00:10:00	20°	28°	
2000	00:10:00		37°	
3000	00:05:00		41°	
4000	00:05:00		48°	
5000				
6000				

Revisioni - Revisions	**Timbro -** Stamp	**Data -** Date
		Firma - Signature

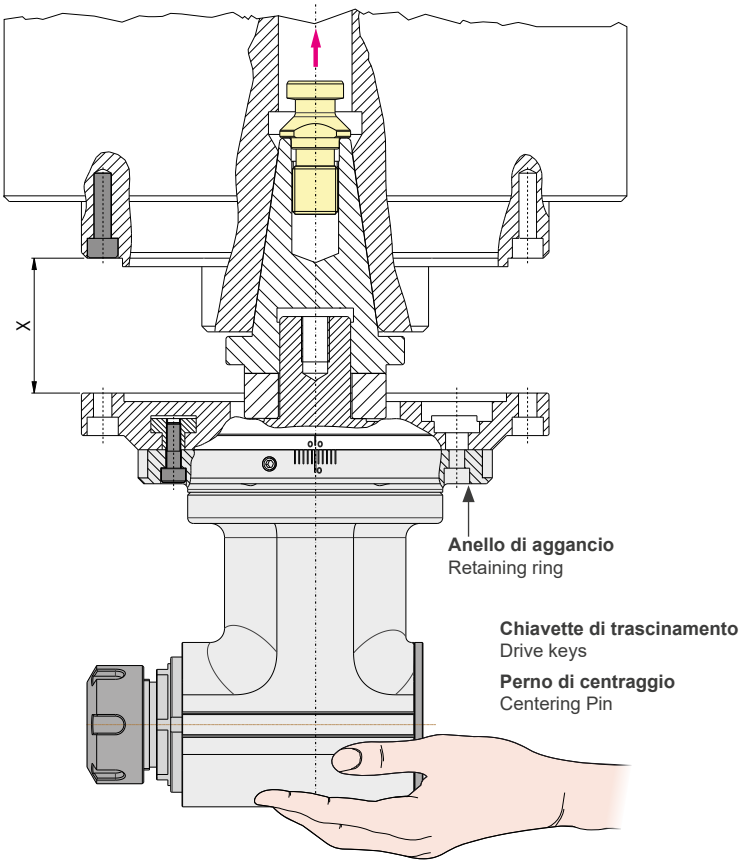
ESEMPIO DI MONTAGGIO
MOUNTING EXAMPLE

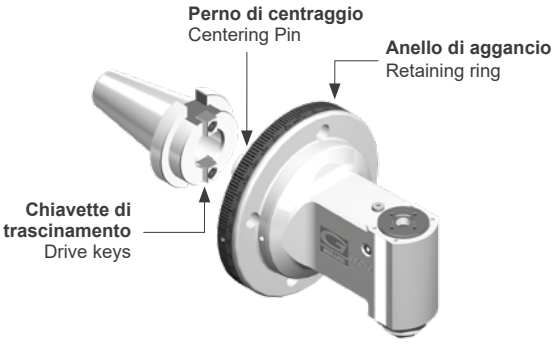
DISTANZIALE REALIZZATO IN OPERA
SPACER TO BE MADE

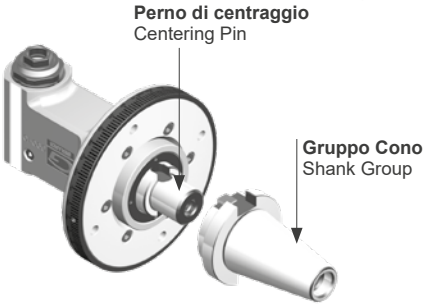
FASE 1 - STEP 1

- Montare l'anello di aggancio e la flangia universale sulla testa
- Applicare il cono alla testa
- Inserire la testa nel mandrino macchina.
- Rilevare la misura "X"

- Mount the retaining ring and the universal flange
- Mount the shank on the Head.
- Mount the head into the machine spindle.
- Check dimension "X"



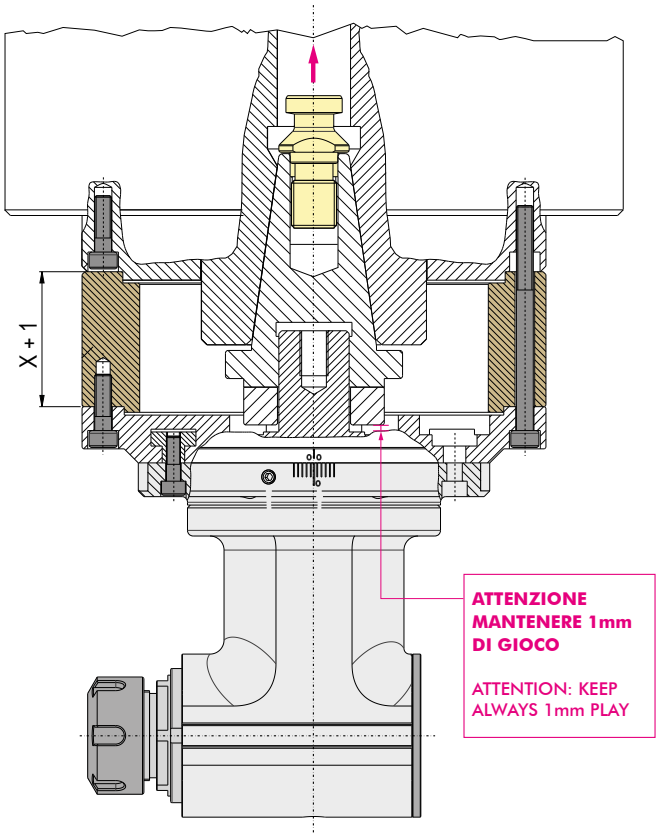




FASE 2 - STEP 2

- Realizzare un distanziale con spessore X+1mm
- Rimontare il tutto in macchina.
- Orientare e posizionare correttamente la testa angolare
- Azzerare l'anello graduato tramite il grano e le tacche di riferimento

- Make a spacer with X + 1mm thickness.
- Reassemble the Head on the machine.
- Turn the angle head in the correct position.
- Set the graduated ring by rotating the screw to the 0 position.



PINZE
COLLETS

MODELLO - MODEL	PINZA - COLLET	Ø	Code	€
GR90-5	Schaublin P6	0,3 - 0,4 - 0,5 - 0,6 - 0,7 - 0,8 - 0,9	9.P6.D0XXX	258
		1 - 1,1 - 1,2 - 1,3 - 1,4 - 1,5 - 1,59 (1/16“) - 1,6 - 1,7 - 1,8 - 1,9		170
		2 -2,5 - 3 - 3,5		119
		4 - 4,5 - 5		103

Esempio di ordinazione: Schaublin P6 - Ø0,3 = 9.P6.D003 - Ø1,59 = 9.P6.D0159 - Example to order: Schaublin P6 - Ø0,3 = 9.P6.D003 - Ø1,59 = 9.P6.D0159

MODELLO - MODEL	PINZA - COLLET	Ø	Code	€
GS90-2	GS90-2	1 - 1,5 - 2 - 2,5	GS.9020004/...	232

MODELLO - MODEL	PINZA - COLLET	Ø	Code	€
Manipolo ad angolo IC300 Angular chuck IC300	CHC	1 - 2,35 - 3 - 3,175	CHC00XXX	88
		2		150
Manipolo ad angolo RA200 Angular chuck RA200	CHS	0,8 - 0,9	CHS00XXX	284
		1 - 2 - 2,5		88
		1 - 1,1 - 1,2 - 1,3 - 1,4 - 1,5 - 1,7 - 1,8 - 1,9 - 2,1 - 2,2 - 2,3 - 2,4 - 2,6 - 2,7 - 2,8 - 2,9		124
		1,6 - 3 - 3,175		73
Manipolo ad angolo RA100 Angular chuck RA100	CH8	0,8 - 0,9	CH800XXX	315
		1 - 1,5 - 2		103
		1 - 1,1 - 1,2 - 1,3 - 1,4 - 1,6 - 1,7 - 1,8 - 1,9 - 2,1 - 2,2 - 2,3 - 2,35 - 2,4 - 3,175		140
Manipolo ad angolo MFC300S Angular chuck MFC300S	K252	1,6	K2520XXX	62

PINZE HP - COLLETS HP
HIGH PRECISION ER-HP COLLETS
Foratura-fresatura / drilling-milling



PRECISIONE - RUN OUT
≤ 0,005

Maschiatura / tapping



MODELLO MODEL	PINZA COLLET	Ø	Code	€	PINZA ET1 (compensate) COLLET ET1 (compensation)	Code	€
G90-5	ER8	0,5 / 5	9.ER.08000/...	-	-	-	-
GL90-7 G90-7 / 7L	ER11	1 / 7	9.ER.11000/...	17	-	-	-
GL90-7B G90-7B/ 7LB	ER11 WP	3 / 7	9.ER.11WP0/...	39	-	-	-
GTU 10 GL90-10 G90-10 / 10L GR90-10	ER16	1 / 10	9.ER.16HP0/...	16	ET-1 / 16 (M1 - M6)	9.ET.16000/...	79
GL90-10B G90-10B / 10LB G90-10RI / 10LRI GR90-10RI	ER16 WP	1 / 10	9.ER.16WP0/...	23,5	-	-	-
GMU-13 / 13L	ER20	1/13	9.ER.20HP0/...	16	ET- 1/ 20 (M2 - M8)	9.ET.20000/...	87
GL90-16 G90-16 / 16L GMU-16 GR90-16 G90-16 / 16L 2U	ER25	1 / 16	9.ER.25HP0/..	16	ET-1 / 25 (M2 - M12)	9.ET.25000/...	81
GL90-16B / RI G90-16B / 16LB G90-16RI / 16LRI GR90-16RI	ER25 WP	1 / 16	9.ER.25WP0/...	23,5	-	-	-
G90-20 / 20L G90-20L/272 GMU-20 G90-20 / 20L 2U	ER32	2 / 20	9.ER.32HP0/...	16	ET-1 / 32 (M3,5 - M16)	9.ET.32000/...	95
G90-20B / 20LB G90-20L/272B G90-20RI 20LRI	ER32 WP	2 / 20	9.ER.32WP0/...	23,5	-	-	-
G90-30 / 30L G90-30 / 30L 2U	ER40	3 / 30	9.ER.40HP0/...	21	ET-1 / 40 (M6 - M16)	9.ET.40000/...	115
G90-30B 30LB G90-30RI 30LRI	ER40 WP	3 / 30	9.ER.40WP0/...	26,5	-	-	-

Esempio di ordinazione: ER25 - Ø10=9.ER.25000/10 - Example to order: ER25 - Ø10=9.ER.25000/10

WP= Resistenza all'acqua - WP= Waterproof

GHIERE
NUTS



MODELLO MODEL	GHIERA NUT	Code	COPPIA SERRAGGIO CLAMPING FORCE (Nm)	€
G90-5	ER8 Mini	9.ER.0800M	5 (6)	37
GL90-7 G90-7 / 7L	ER11 STD	9.ER.11STD	12 (15)	26
GTU 10 GL90-10 G90-10 / 10L	ER16 AX	9.ER.160AX	24 (30)	64
GR90-10 / 10RI	ER16 AX	9.ER.160AX	24 (30)	39
GMU-13 / 13L	ER20 STD	9.ER.20STD	28 (35)	30
GL90-16 G90-16 / 16L GMU-16 G90-16 / 16L 2U	ER25 STD	9.ER.25STD	32 (40)	27
GR90-16	ER25 AX	9.ER.250AX	32 (40)	41
G90-20 / 20L G90-20L/272 GMU-20 G90-20 / 20L 2U	ER32 STD	9.ER.32STD	136 (70)	28
GR90-20	ER32 AX	9.ER.320AX	104	44
G90-30 / 30L G90-30 / 30L 2U	ER40 STD	9.ER.40STD	176 (220)	43

CHIAVI
WRENCHES



CHIAVI WRENCHES	Code	€
CH-8 MINI	9.CH.08MINI	16
CH-21 ES	9.CH.210ES	11
CH-17 ES	9.CH.170ES	11
CH-27 ES	9.CH.270ES	11
CH-17 ES	9.CH.170ES	11
CH-32 ES	9.CH.270ES	11
CH-16 AX	9.CH.160AX	26
CH-32 ES	9.CH.320ES	11
CH-20 STD	9.CH.32STD	11
CH-32 ES	9.CH.320ES	11
CH-25 STD	9.CH.25STD	13
CH-39 ES	9.CH.390ES	11
CH-25 AX	9.CH.250AX	36
CH-40 ES	9.CH.400ES	11
CH-32 STD	9.CH.32STD	13
CH-46 ES	9.CH.460ES	11
CH-32 AX	9.CH.320AX	46
CH-49 ES	9.CH.490ES	11
CH-59 ES	9.CH.590ES	11
CH-40 STD	9.CH.40STD	13

MODULAR QUICK CHANGE ADAPTORS 2.0

COMPATIBILI CON TUTTE LE USCITE ER - COMPATIBLE WITH ALL ER OUTPUTS

SISTEMA MODULARE
MODULAR SYSTEM



Facile e veloce sistema modulare universale per cambiare rapidamente diverse tipologie di utensili.

An easy modular system to replace quickly any tool you need.

VANTAGGI
ADVANTAGES



Aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors

ALTE PRESTAZIONI
HIGH PERFORMANCE



Ghiera con cuscinetto a sfera e losanga di trascinamento removibile per una maggiore rigidità.

High rigidity thanks to the ball bearing nut and the removable diamond plate

COMPATIBILITÀ
COMPATIBILITY



Ampia gamma di uscite disponibili adatte al montaggio su qualsiasi tipologia di motorizzato o testa angolare con uscita ER

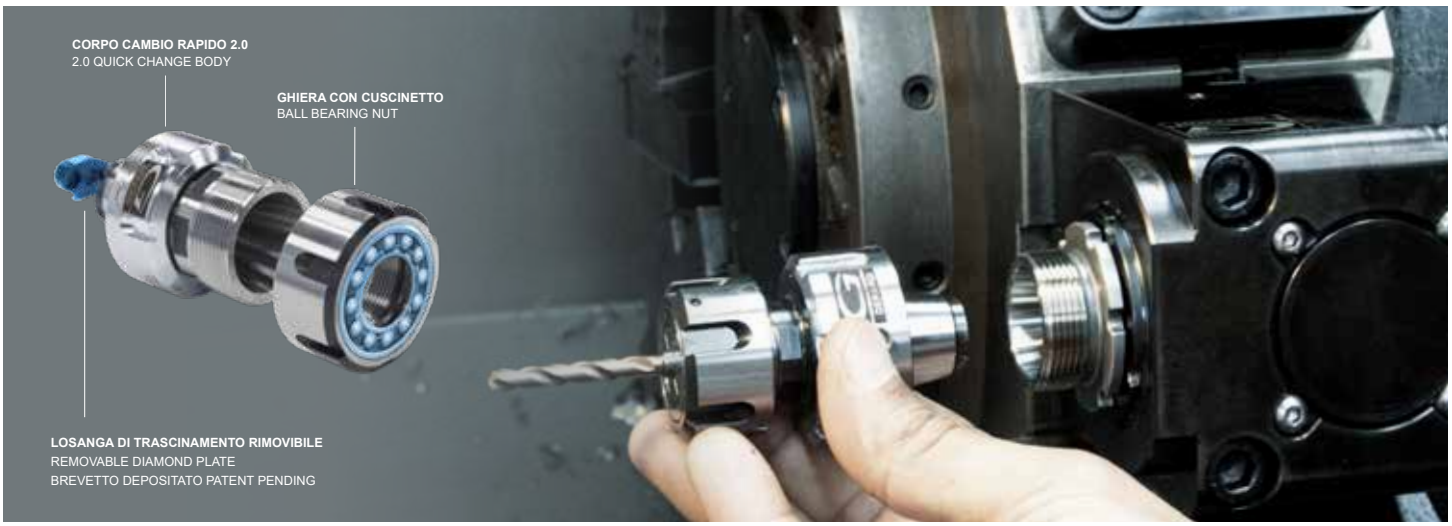
Wide range of outputs available. Ball bearing nut and removable diamond plate for highest rigidity.

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

- **Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.**
- **Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.**
- **Adattabili a motorizzati con uscita refrigerante sia interna che esterna.**

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant.

- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- Suitable for ER toolholder with external and internal coolant supply



Vedi Pagine 7.14 - 7.15 - See pages 7.14 - 7.15

ER OUTPUTS COMPATIBLE

2 YEARS GUARANTEED

100% MADE IN ITALY