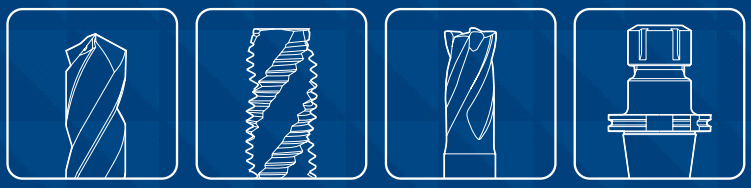
YE24
EUROPE
2024 / 2025

ISO 9001 / ISO 14001

CUTTING TOOLS



HOLEMAKING THREADING MILLING TOOLING SYSTEM

MODULAIR VERSPANEN

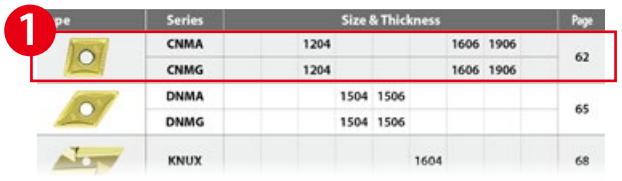
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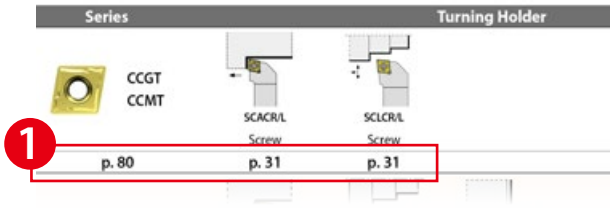
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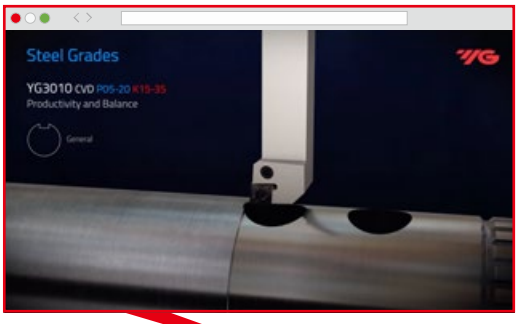
If you Click an icon or page number,
you can easily find information as below;

1. Go to the page
2. Go to the Index
3. Go to the Overview
4. Go to the section
5. Watch the video

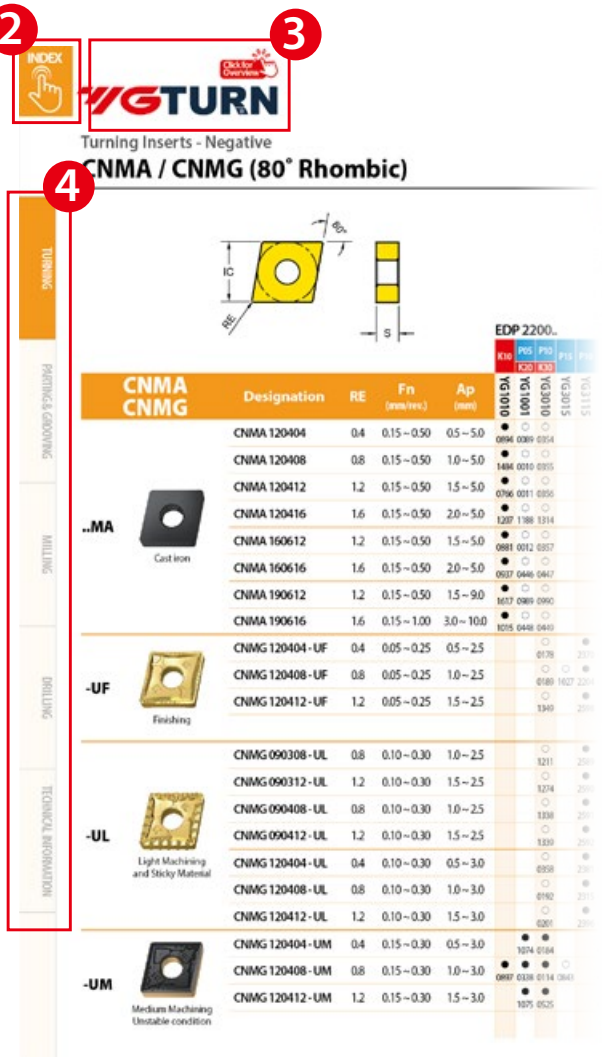
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Insert ISO Code System	8
Grade Naming System	10
Turning Grades Map	11
Turning Grades	12







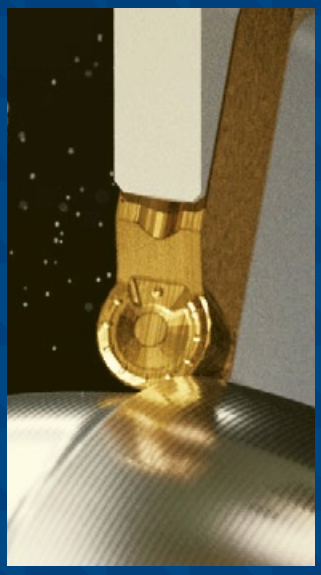




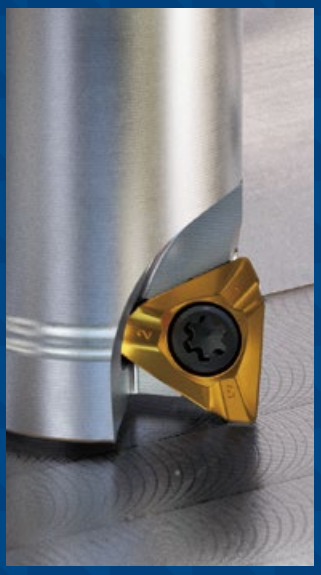
INDEXABLE INSERTS



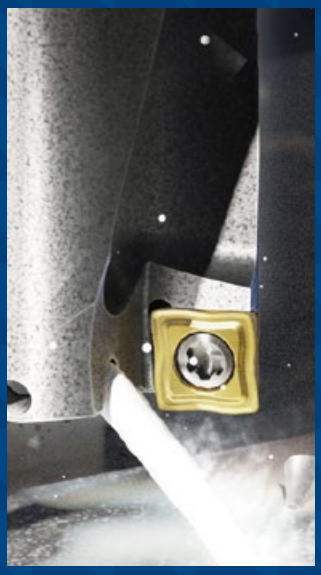
TURNING



PARTING
GROOVING



MILLING

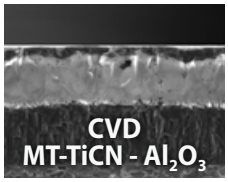


DRILLING

Turning

New Product



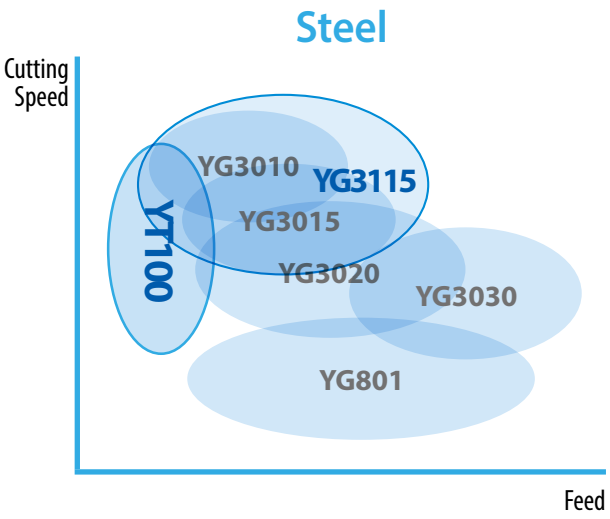


YG3115

P10 - P25

First choice grade for high cutting speed in Steels

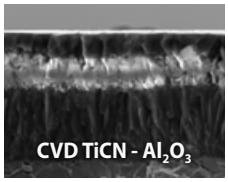
- Suitable for mass production due to stable and predictable tool life
- Minimizing built up edge due to new post surface treatment in mild steels, low carbon steel and low carbon alloy steel.
- Best choice for both continuous as well as interrupted cuts



Turning

New Product



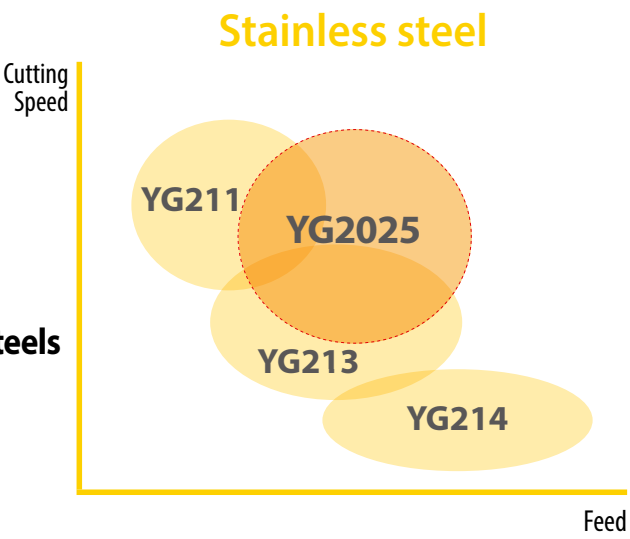


YG2025

M15 - M35

CVD grade for High Cutting Speed for Stainless steels

- Utilizing a new carbide substrate and new coating
- Excellent combination of wear resistance and chipping resistance
- Minimized built up edge due to post surface treatment

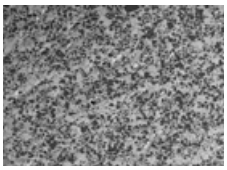


Turning

New Product



Grades



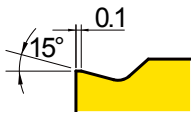
<Micro structure>

YT100 P10 - P20 M10 - M20 K10 - K20

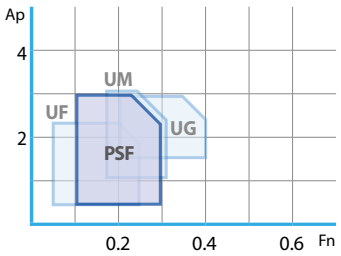
- Enhanced wear resistance & chipping resistance
- Excellent fracture resistance
- Superior surface finish with special edge preparation

Chipbreakers

PSF



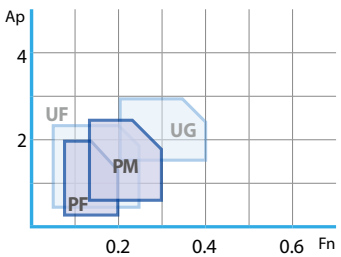
- For negative chip breaker insert
- 3 dimensional chip breakers give low cutting force
- For semi-finishing to semi-medium



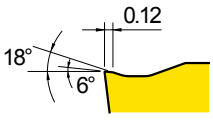
PF



- For positive chip breaker insert
- Excellent chip breaking at small depth of cut and low feed rate
- Good for low carbon contents steel in Finishing



PM



- For positive chip breaker insert
- High positive rake angle
- Good for low carbon contents steel
- For medium

Turning

New Product



Chipbreakers

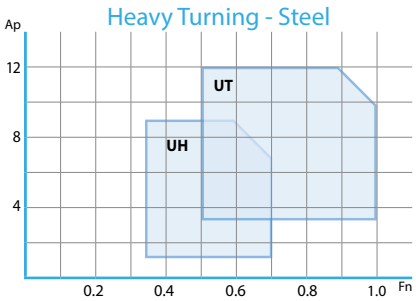


UH

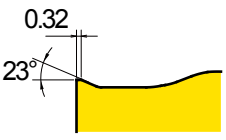


UT

Low cutting force → Heavy roughing



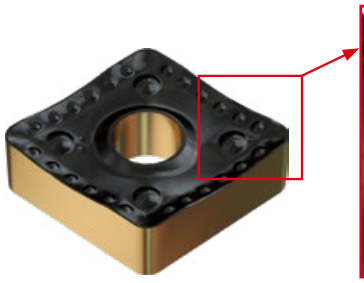
Features



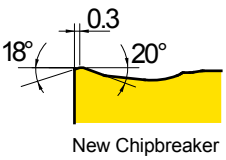
New Chipbreaker

UH

Low cutting force



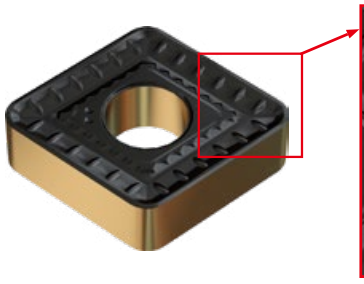
- ① Reduce cutting force due to the helix angle on the cutting edge
- ② The central dot helps chip breaking to be efficient
- ③ Decoration dot reduces friction area and helps heat release
- ④ Insert corner radius range available from 1.2mm to 2.4mm



New Chipbreaker

UT

Heavy roughing



- ① Reinforced edge type with high rigidity and is suitable for irregular surface cutting
- ② Chip breaker is formed widely, suitable for heavy roughing application
- ③ Decoration dot reduces friction area and helps heat release
- ④ Insert corner radius range available from 1.2mm to 2.4mm

Turning

New Product



Overview

At present, as demand for small parts (camera lens, mobile phone parts) and medical instruments (implants) increases, demand for small-diameter products capable of high-precision processing is increasing.

Application

- Turning of Small Bore Components
- Internal Turning(Boring), Grooving and Threading

Features

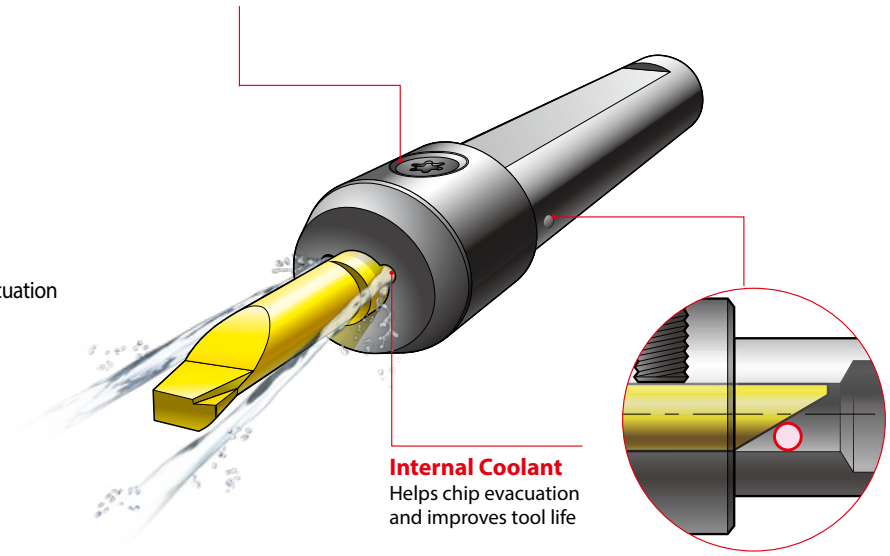
- Minimum Diameter(Boring & Profiling series) : Ø 1 mm
- Internal Coolant for Longer Tool life and Enhanced Chip Evacuation
- Secure Connection Design: Pin + Slant Positioning
- 9 Geometries for Various Applications

Benefits

- Reduced Machine Down Time
- Lower Machining Cost

Advantages of Nanocut

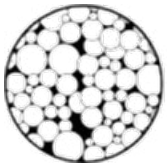
Easy Clamping
Secure and Simple system for fast change and fast locking



Internal Coolant
Helps chip evacuation and improves tool life

Secure Slant Connection
Ensures High repeatability for height and axial position

YG812 - Micro Grain Carbide Grade

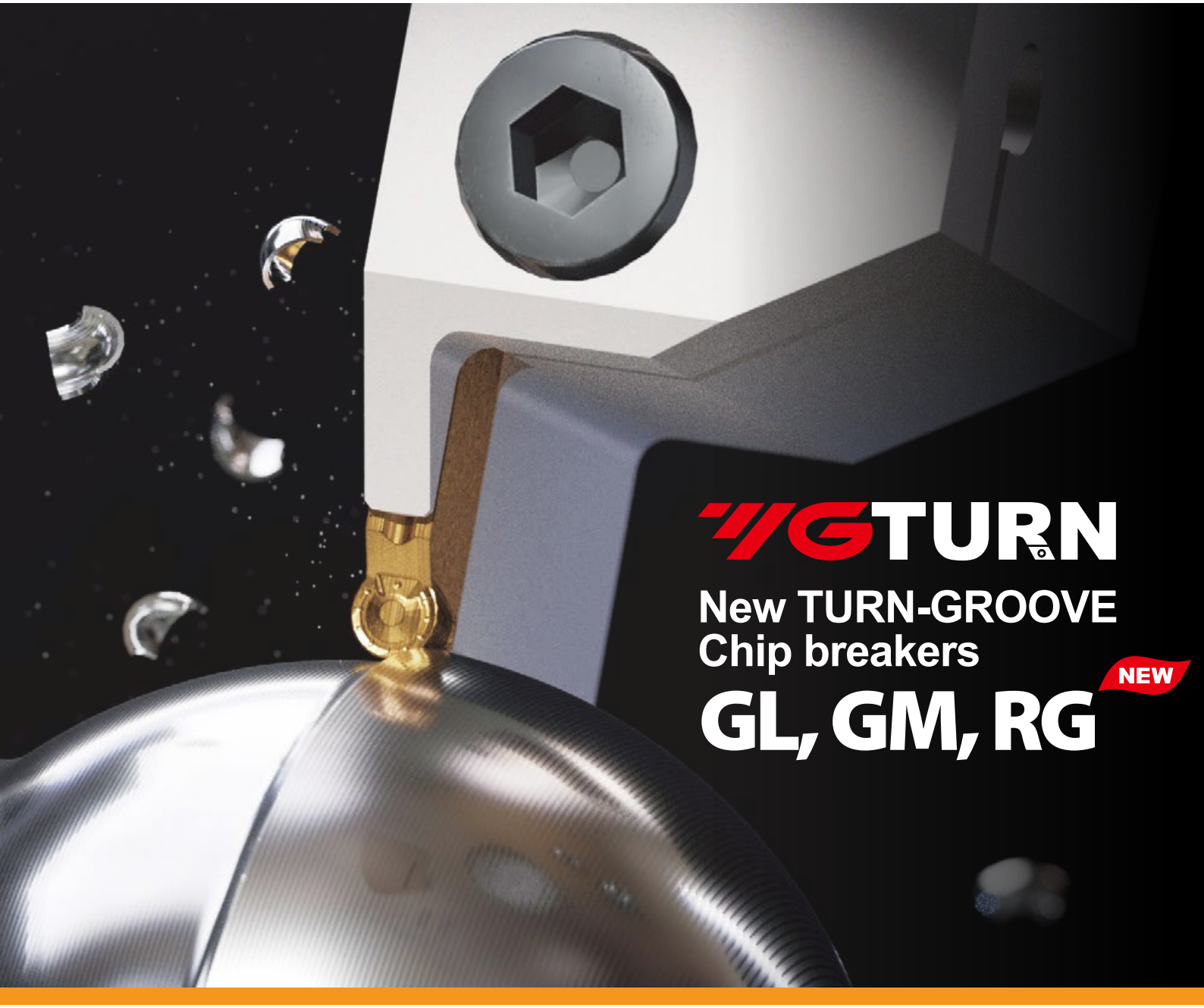


P10 - P20 | M20 - M30
K20 - K30 | S10 - S25

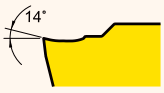
Submicron Grade Carbide Substrate Material for high toughness and wear resistance realizes high precision machining

Turning

New Product



TURN-GROOVE Chip breakers

Turning & Grooving	GL			• For External, Internal turning and grooving • Face grooving and Face turning • For low feed rate
	GM			• For External, Internal turning and grooving • First choice face grooving and Face turning • For medium feed rate
	RG			• For External, Internal turning and grooving • Full radius Insert for profiling

Milling

New Product



SM3

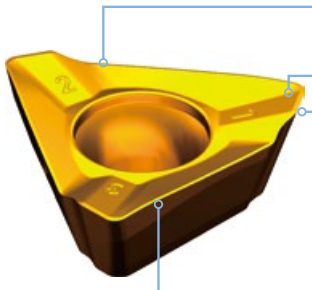
YG MiLL NEW

TPKT

True 90 degree Shoulder Milling

- 3 Cutting Edges for Shoulder Milling
- High Positive Helical Cutting edge
- Higher Cost Efficiency than 2 Cutting edges
- Wide selection and Optimal Machining with Various Cutters and Inserts

Features



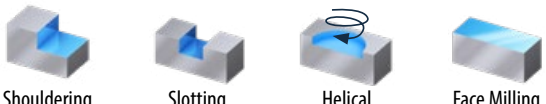
① **High helix cutting edge**
- Smooth cutting and low cutting force

② **High positive rake angle chip breaker**
- Optimized chip curl and minimized burr

③ **Wide wiper edge**
- Excellent surface finish

④ **Curved cutting edge**
- Minimized mismatch

Applications



Key Technology



True 90° shoulder milling



Larger core size
- Higher rigidity



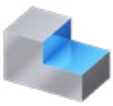
Optimal insert placement
- More inserts for high productivity

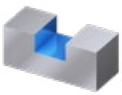
Milling

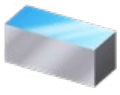
New Product



Applications


Shouldering

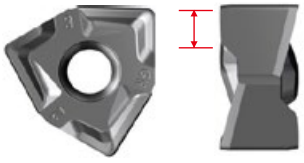

Slotting

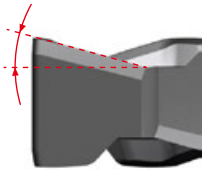

Face Milling

Features

- 6 cutting edges for Shouldering - High Cost-Efficiency
- High Positive Helical Cutting edge
- High Chipping Resistance with Reinforced cutting edge
- Ground Insert – High Precision Tolerance and Excellent Surface finish
- Diameter range : Ø32~ Ø200
- Ap (max) : 7mm

Key Technology


Wider wiper edge length


High Helix
cutting edge


Unique
Chip groove

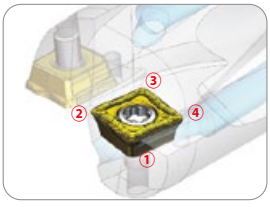
Drilling

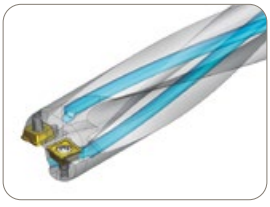
New Product

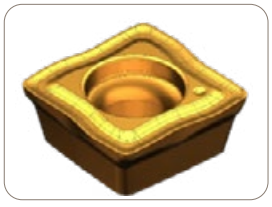


Features

- Economic square type 4 cutting edge insert
- One kind of insert in outer and inner pocket
- Twisted coolant channel and enlarged chip gullet for better chip evacuation
- Highly durable drill body due to high hardness and optimized material
- New post surface Treatment flute enables to improved chip evacuation in deeper machining

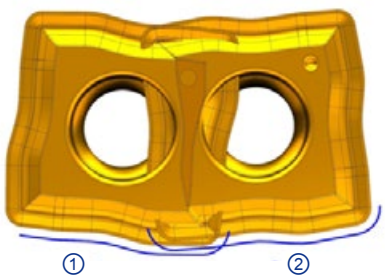






Key Technology

- Unique 1 chip curl per each flute
- True 4 cutting edges are available



Click/Touch each page number and move to the very page!

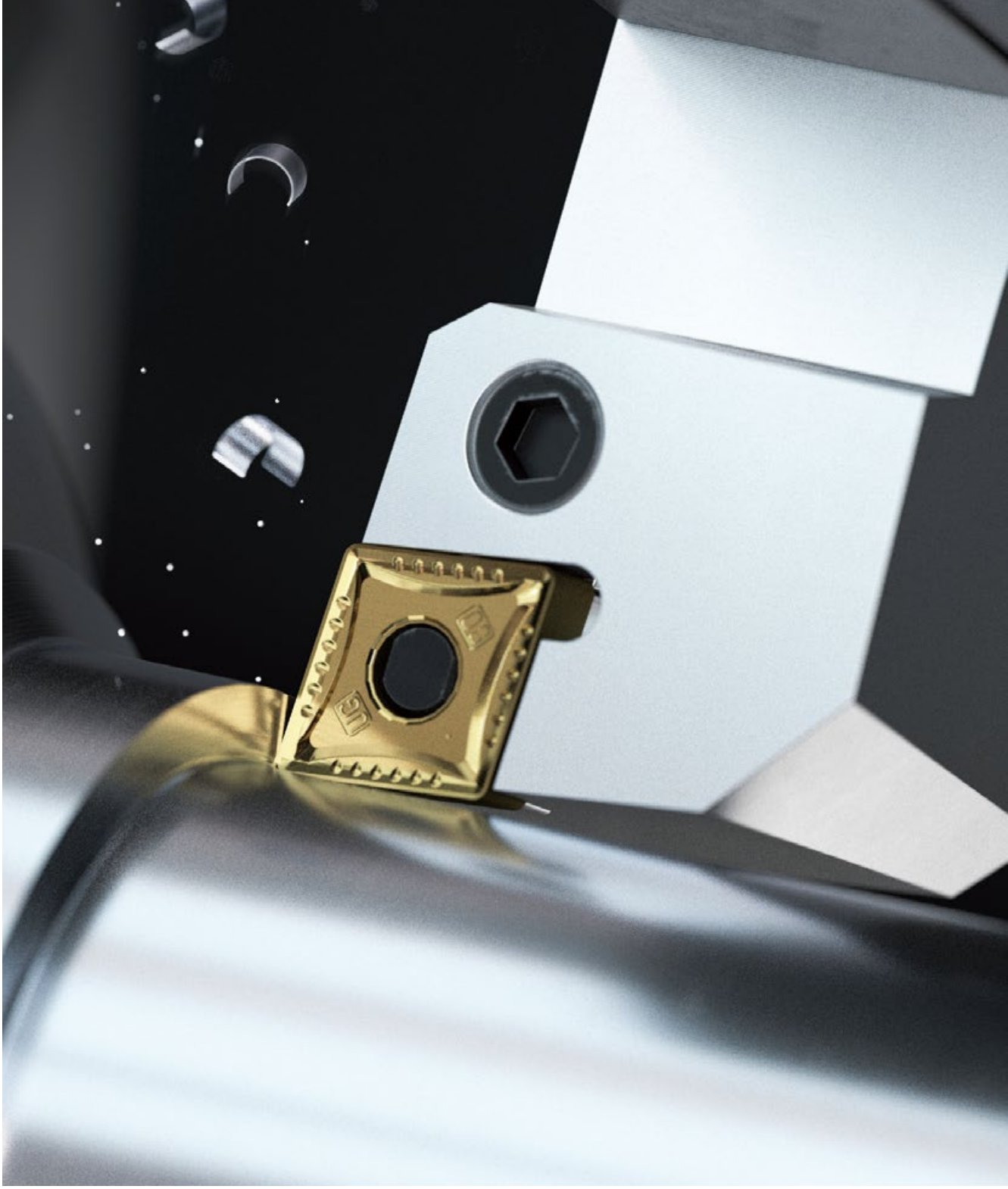
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ISO TURNING

Product Overview

Application Guide

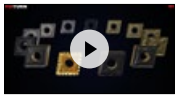
Turning Inserts Overview

Turning Inserts

Turning Holders Overview

Turning Holders

Click this QR code!!



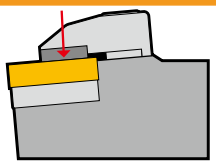
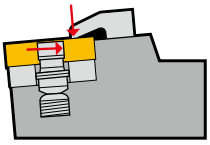
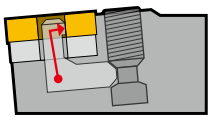
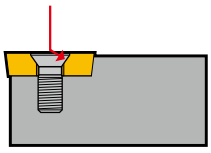
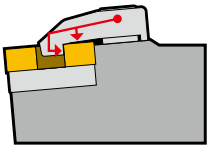
Scan this QR code to see our **Turning Grades** at work.

Turning - Name Code System

External Turning Holder Code

1	2	3	4	5	6	7	8	9	10
P	C	L	N	R	25	25	M	12	(C)
Clamping System	Insert Shape (1st Letter of Insert)	Tool Style	Insert Clearance (2nd Letter of Insert)	Tool Hand	Shank Height (H)	Shank Width (B)	Length (LF)	Insert Size	(Optional Clamp)

1 - Clamping System

Symbol	System
C	 **Top Clamp** (No Clamping Hole Insert)
M	 **Multi lock** (Straight Clamping Hole Insert)
P	 **Lever Lock** (Straight Clamping Hole Insert)
S	 **Screw Clamp** (Screw Clamping Hole Insert)
T (D, A)	 **Double Clamp** (Straight Clamping Hole Insert)

2, 4 - Insert Compatibility *

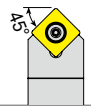
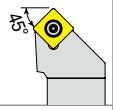
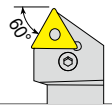
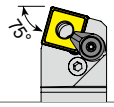
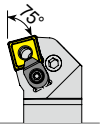
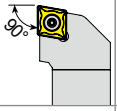
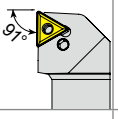
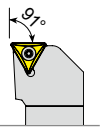
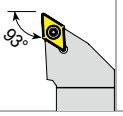
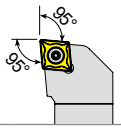
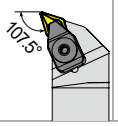
T C L N R — holder

C N M G — insert

* Related to Insert Designation to check compatibility

* Refer to '1-shape' of page 20

3 - Tool Style

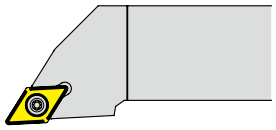
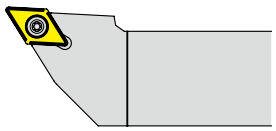
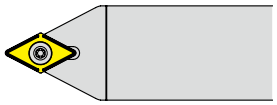
Approach Angle (KAPR)	Side Direction		End Direction
	Straight Shank	Offset Shank	
45°	D 	S 	
60°		T 	
62.5°	N 		
72.5°	V 		
75°	B 		K 
90°/91°	A 	G 	F 
93°		J 	U
95°		L (Both Direction) 	
107.5°		H 	

Turning - Name Code System

External Turning Holder Code

1	2	3	4	5	6	7	8	9
S	**D**	**J**	**C**	**R**	**20**	**20**	**K**	**11**
Clamping System	Insert Shape (1st Letter of Insert)	Tool Style	Insert Clearance (2nd Letter of Insert)	Tool Hand	Shank Height (H)	Shank Width (B)	Length (LF)	Insert Size

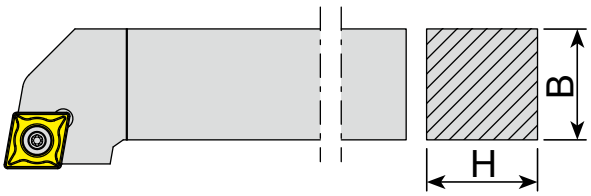
5 - Hand Direction

Symbol	Hand Direction	
R	Right Hand	
L	Left Hand	
N	Neutral	

8 - Length (LF)

Symbol	Length (mm)	Symbol	Length (mm)
E	70	Q	180
F	80	R	200
H	100	S	250
K	125	T	300
M	150	U	350
P	170	V	400

6, 7 - Shank Height (H) Shank Width (B)



9 - Insert Size *

Examples	is Compatible with…
PCLNR 2525M 12	CNMG 1204**
SCLCR 2020K 09	CCMT 09T3**
TWLNR 2525M 08	WNMG 0804**

* Related to Insert Designation to check compatibility

(10 - Optional Clamp)

Symbol	Optional Clamp
C	Included

Turning - Name Code System

Internal Turning Holder Code

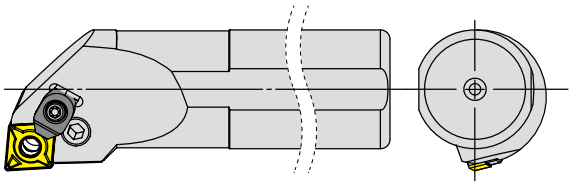
*Metric

1	2	3		4	5	6	7	8	9	10
A	32	S	-	P	W	L	N	R	12	(C)
Coolant & Material	Shank Diameter (DCON)	Legth (LF)		Clamping System	Insert Shape (1st Letter of Insert)	Tool Style	Insert Clearance (2nd Letter of Insert)	Tool Hand	Insert Size	(Optional Clamp)

1 - Coolant and Tool Material

Symbol	Internal Coolant	Tool Material
A	O	Steel
S	X	
E	O	Carbide
C	X	Carbide

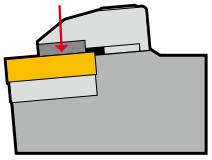
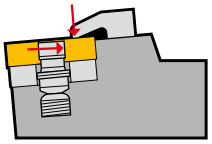
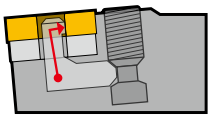
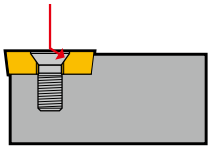
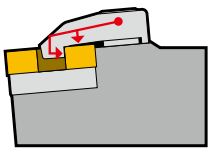
2 - Shank Diameter (DCON)



3 - Length (LF)

Symbol	Length (mm)	Symbol	Length (mm)
E	70	Q	180
F	80	R	200
H	100	S	250
K	125	T	300
M	150	U	350
P	170	V	400

4 - Clamping System

Symbol	System
C	 **Top Clamp** (No Clamping Hole Insert)
M	 **Multi lock** (Straight Clamping Hole Insert)
P	 **Lever Lock** (Straight Clamping Hole Insert)
S	 **Screw Clamp** (Screw Clamping Hole Insert)
T (D, A)	 **Double Clamp** (Straight Clamping Hole Insert)

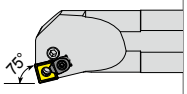
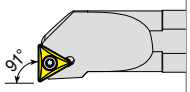
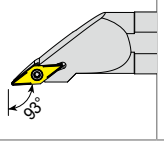
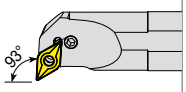
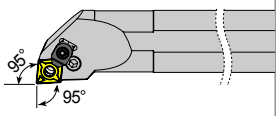
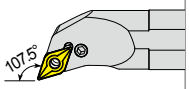
Turning - Name Code System

Internal Turning Holder Code

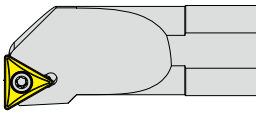
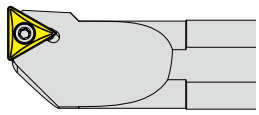
*Metric

1	2	3		4	5	6	7	8	9
A	**25**	**R**	**-**	**S**	**C**	**L**	**C**	**R**	**09**
Coolant & Material	Shank Diameter (DCON)	Legth (LF)		Clamping System	Insert Shape (1st Letter of Insert)	Tool Style	Insert Clearance (2nd Letter of Insert)	Tool Hand	Insert Size

6 - Tool Style

Approach Angle (KAPR)	Side Direction	EndDirection
	Offset Shank	
75°		K 
91°		F 
93°	J 	U 
95°	L (Both Direction) 	
107.5°		Q 

8 - Hand Direction

Symbol	Hand Direction	
R	Right Hand	
L	Left Hand	

9 - Insert Size *

Examples	is Compatible with…
PCLNR 2525M 12	CNMG 1204**
SCLCR 2020K 09	CCMT 09T3**
TWLNR 2525M 08	WNMG 0804**

* Related to Insert Designation to check compatibility

5, 7 - Insert Compatibility *



* Related to Insert Designation to check compatibility
* Refer to '1-Shape' of page 20

(10 - Optional Clamp)

Symbol	Optional Clamp
C	Included

Insert ISO Code System

*Metric : According to ISO 1832

page 14 page 12

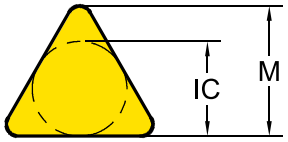
1	2	3	4	5	6	7	8	9
C	N	M	G	12	04	08	-UG	YG3115
Shape	Clearance	Tolerance	Clamping & Chipbreaker	Insert Size	Insert Thickness	Corner Radius	Chipbreaker Geometry	Grade

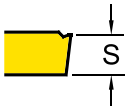
1 - Shape

Symbol	Shape	
H	Hexagonal	
O	Octagonal	
P	Pentagonal	
S	Square	
T	Triangular	
C	Rhombic 80°	
D	Rhombic 55°	
V	Rhombic 35°	
W	Trigon	
L	Rectangular	
K	Parallelogram 55°	
R	Round	

2 - Relief Angle (AN)

Symbol	Relief Angle (AN)	
N	No Relief Angle	
B	Relief 5°	AN
C	Relief 7°	
P	Relief 11°	
D	Relief 15°	
E	Relief 20°	
F	Relief 25°	
O	Special	





3 - Tolerance Class

Symbol	Inner Circle IC (mm)	Nose Height M (mm)	Thickness S (mm)
C	± 0.025	± 0.013	± 0.025
E	± 0.025	± 0.025	± 0.025
G	± 0.025	± 0.025	± 0.13
H	± 0.013	± 0.013	± 0.025
K*	± 0.05~0.15*	± 0.013	± 0.025
M*	± 0.05~0.15*	± 0.08~0.2*	± 0.13
U*	± 0.08~0.25*	± 0.13~0.38*	± 0.13

* Tolerance is different by insert IC size. Please see ISO 1832

4 - Clamping & Chipbreaker

Symbol	Clamping	Chipbreaker	Figure
N	No clamping hole	X	
R		One Face	
A	Cylindrical Clamping hole	X	
M		One Face	
G		Both Faces	
W	Screw Hole	X	
T		One Face	
U		Both Faces	
X	Special		

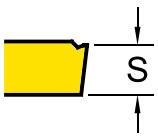
Insert ISO Code System

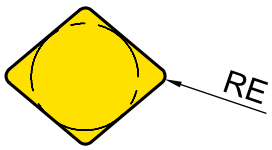
*Inch

							page 14	page 12
1	2	3	4	5	6	7	8	9
C	N	M	G	4	3	2	-UG	YG3115
Shape	Clearance	Tolerance	Clamping & Chipbreaker	Insert Size	Insert Thickness	Corner Radius	Chipbreaker Geometry	Grade

5 - Insert Size

Metric							Inner Circle IC (mm)	Inch
S	T	C	D	V	W	R		
06	**11**	**06**	**07**	**11**			6.35	**2**
07	**13**	**08**	**09**	**13**	**15**		7.94	**2.5**
09	**16**	**09**	**11**	**16**	**06**	**09** (00)	9.525	**3**
12	**22**	**12**	**15**	**22**	**08**	**12** (00)	12.7	**4**
15	**27**	**16**	**19**	**27**	**10**		15.875	**5**
19	**33**	**19**	**23**	**33**	**13**		19.05	**6**
25		**25**					25.4	**8**
						06 (M0)	6	
						08 (M0)	8	
						10 (M0)	10	
						12 (M0)	12	
						16 (M0)	16	





6 - Insert Thickness (S)

Metric	Thickness - S (mm)	Inch
T1	1.98	**1.2**
02	2.38	**1.5**
03	3.18	**2**
T3	3.97	**2.5**
04	4.76	**3**
05	5.56	**3.5**
06	6.35	**4**
07	7.94	**5**
09	9.525	**6**

7 - Corner Radius (RE)

Metric	Corner Radius - RE (mm)	Inch
01	0.1	**03**
02	0.2	**05**
04	0.4	**1**
08	0.8	**2**
12	1.2	**3**
16	1.6	**4**
20	2.0	**5**
24	2.4	**6**

Grade Naming System

1	2	3	4	5	(6)
YG	**3**	**1**	**1**	**5**	**(G)**
YG Brand	Workpiece Material	Grade Version	Application Range (1st Digit)	Application Range (2nd Digit)	Minor Variation
Carbide CVD (4 Digits)	●	●	●	●	YG3115
Carbide PVD (3 Digits)	●	●	●		YG211
Carbide Uncoated (2 Digits)	●	●			YG10

1 - YG Brand

2 - Workpiece Material

Symbol	Workpiece Material	Turning	Milling	Drilling	Parting
1	K Cast Iron or N Non-Ferrous	●			
2	M Stainless Steel	●			
3	P Steel	●			
4	S Superalloys	●			
5	K Cast Iron or N Non-Ferrous		●	●	●
6	M Stainless Steel or Universal		●	●	●
7	P Steel		●	●	●
8	Universal	●			
0	Hardened Steel		●		

3 - Grade Version

4 & 5 - Application Range

Symbol	
05	Stable: Wear Resistant Grade, Stable Application, Continuous Cut, Finishing
10	
15	
20	General: Balanced Grade, High Versatility, General Application
25	
30	
35	
40	Unstable: Tougher Grade, Unstable Application, Interrupted Cut, Chipping Resistance, Roughing
45	

(6) - (Minor Variation)

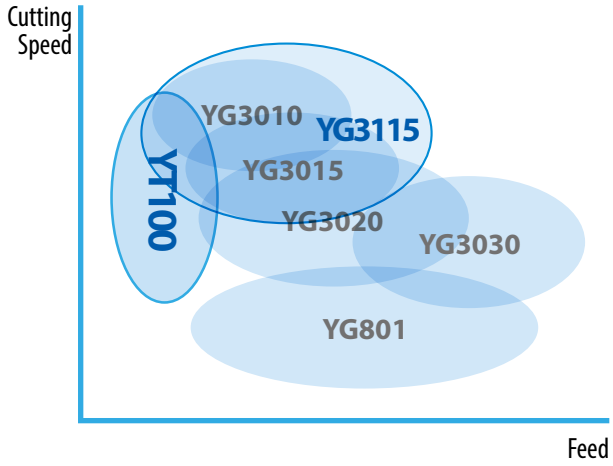
G - Gold Coated Version

Product Overview

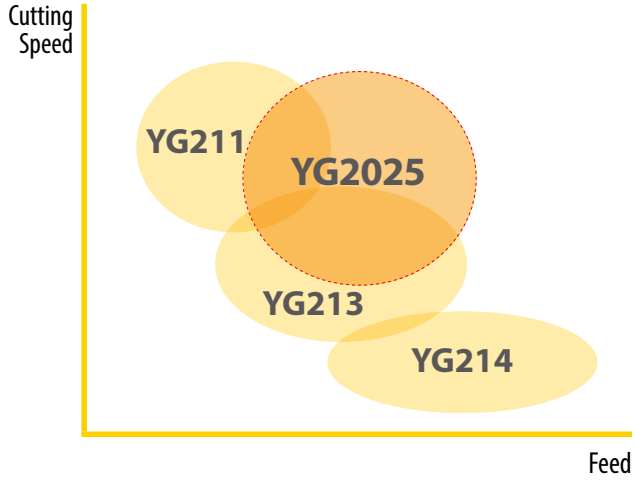
Turning Grades Map

Speed : Vc (m/min.)
Feed : Fn (mm/rev.)

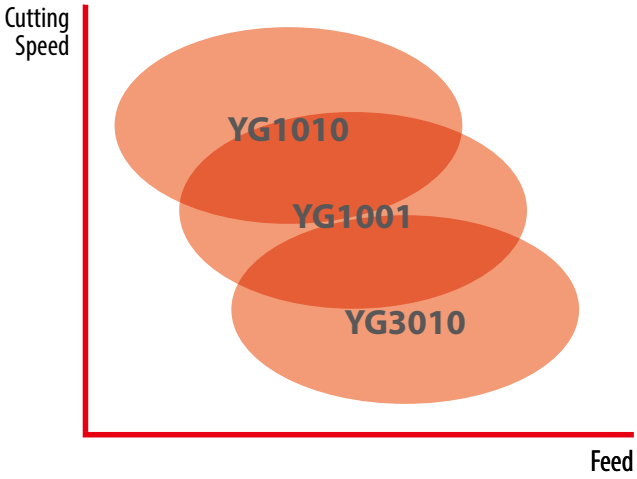
Steel



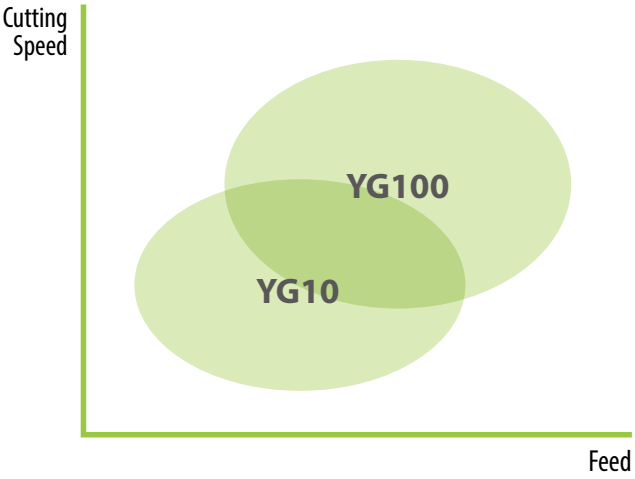
Stainless steel



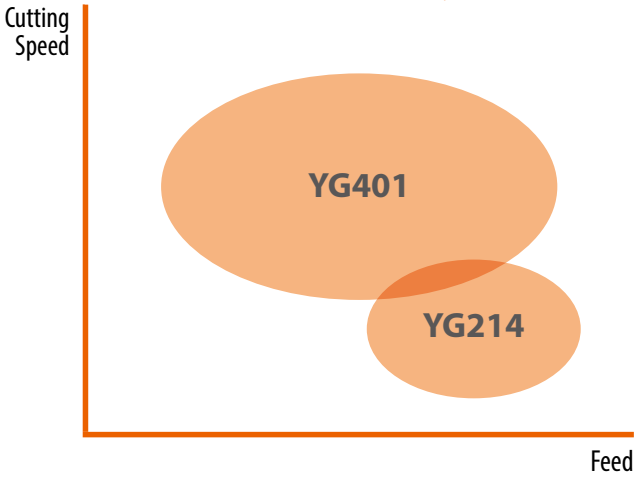
Cast iron



Non-ferrous Metal



Superalloy



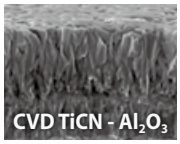
YG TURN

Product Overview

Turning Grades

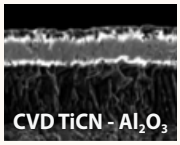
Turning Grades		P Steel				M Stainless steel			K Cast iron			N Non-ferrous		S Superalloys	
		P10	P20	P30	P40	M10	M20	M30	K10	K20	K30	N10	N20	S10	S20
CVD	YG1010								1010						
	YG1001	1001								1001					
	YG3010		3010							3010					
	YG3015		3015												
	YG3115		3115												
	YG3020			3020											
	YG3030			3030											
	YG2025						2025								
PVD	YG801		801												
	YG211					211									
	YG213						213								
	YG214							214							214
	YG401													401	
Cermet	YT100		YT100				YT100			YT100					
DLC	YG100											100			
-	YG10											10			

YG1010
K05 - K15



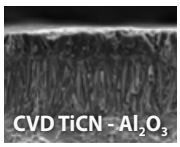
First Choice for Cast Iron
- Effective coating structure enables high speed machining
- Special post treatment for improved chipping resistance

YG1001
P01 - P10
K10 - K25



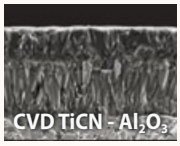
Stable Machining of Cast Iron
- Substrate especially designed for high wear resistance
- Thick Al_2O_3 layer ensures good wear resistance at high cutting speeds including dry machining

YG3010
P05 - P20
K15 - K35



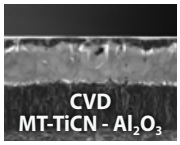
First choice for Finishing Steels, and Ductile Cast iron
- Finishing and light machining of steel under in stable condition
- New Al_2O_3 coating technology and excellent surface smoothness increase wear resistance and chipping resistance

YG3015
P10 - P25



Balanced Productivity for Continuous cut
- High wear resistance and improved toughness ensures high productivity with less trouble

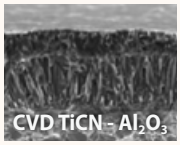
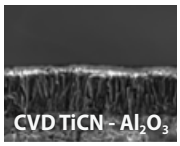
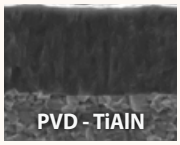
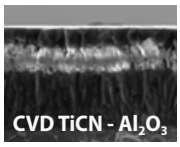
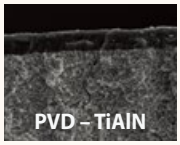
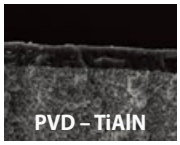
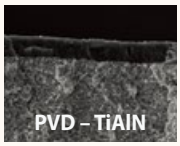
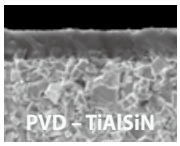
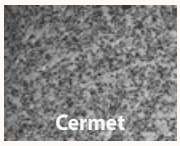
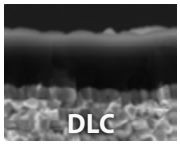
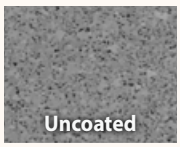
NEW
YG3115
P15 - P25



First choice grade for high cutting speed in Steels
- Suitable for mass production due to stable and predictable tool life
- Minimizing built up edge due to new post surface treatment in mild steels, low carbon steel and low carbon alloy steel.
- Best choice for both continuous as well as interrupted cuts

Product Overview

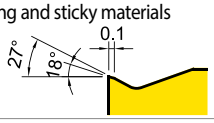
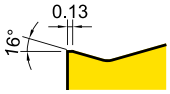
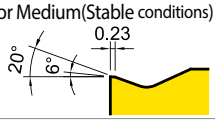
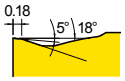
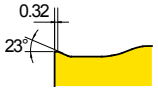
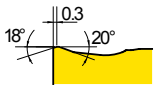
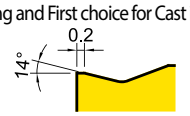
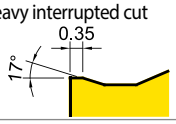
Turning Grades

YG3020 P15 - P30		**First Choice Grade for General Steel Application** • Substrate especially designed for good toughness • Excellent surface smoothness increases wear resistance and reliability
YG3030 P20 - P35		**Interrupted Cutting of Steel and Stainless steel** • Substrate for heavy roughing in mild steel and low carbon alloy steel • New Al_2O_3 technology and optimized surface treatment achieves a good balance between wear resistance and chipping resistance
YG801 P10 - P30		**for Carbon Steel with Low Cutting Speed** • Recommended for mild steel and boring application • Substrate and special PVD coating for excellent wear resistance
NEW **YG2025** M15 - M35		**CVD grade for High Cutting Speed for Stainless steel** • Utilizing a new carbide substrate and new coating • Excellent combination of wear resistance and chipping resistance • Minimized built up edge due to post surface treatment
YG211 M05 - M25		**High wear Resistance Grade for Stainless steel** • Finishing Stainless steel
YG213 M20 - M35		**First Choice Grade on Low Cutting Speed of Stainless steel** • First choice on Stainless steel for Low cutting speed • For Medium to low cutting speed
YG214 M30 - M40 S25 - S30		**Heavy Interrupted cut for Stainless steel** • For Heavy Interrupted cut on Stainless steel • Minimize risk of Mechanical fracture or Chipping
YG401 S10 - S20		**PVD Turning Grade for HRSA** • Highly heat-resistant TiAlSiN structure for excellent wear resistance • Greatly improved film coating realizes excellent boundary defect resistance • Top coating layer provides a smooth surface and lubricant effect
NEW **YT100** P10 - P20 M10 - M20 K10 - K20		**New Generation Cermet Grade** • Enhanced wear resistance & chipping resistance • Excellent fracture resistance • Superior surface finish with special edge preparation
YG100 N05 - N25		**First Choice Grade for Aluminum with DLC Coating** • Submicron carbide for high wear resistance • DLC coating minimizes Built Up Edge tendency. • Improve tool life in sticky non-ferrous alloy
YG10 N05 - N25		**Uncoated Grade for General Aluminum** • Substrate consisted of submicron carbide for high wear resistance • Shining surface to prevent built up edge

YGTURN

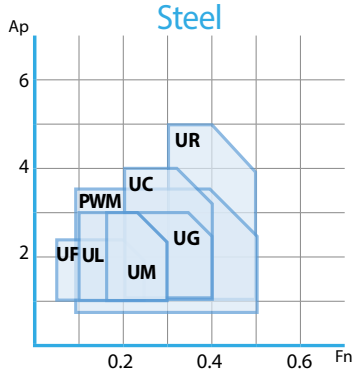
Product Overview

Turning Chipbreakers - Negative

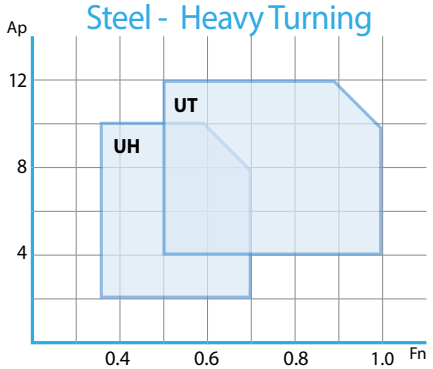
P	M	K	N	S				Feed Fn (mm/rev.) 0 0.1 0.2 0.3 0.4 0.5 0.6
P					UF		Finishing 	Fn 0.05~0.25 Ap 1.0~2.5
P					UL		Semi Finishing and sticky materials 	Fn 0.1~0.3 Ap 1.0~3.0
P					UM		Medium & Unstable conditions 	Fn 0.15~0.3 Ap 1.0~3.0
P					UG		First Choice for Medium(Stable conditions) 	Fn 0.2~0.4 Ap 1.0~3.0
P					NEW PWM		Wiper-Medium 	Fn 0.1~0.5 Ap 0.8~3.5
P					NEW UH		Low cutting force 	Fn 0.35~0.7 Ap 2.0~9.0 →
P					NEW UT		Heavy roughing 	Fn 0.5~1.0 → Ap 4.0~12.0 →
P	K				UC		Medium Roughing and First choice for Cast iron 	Fn 0.2~0.4 Ap 1.0~4.0
P	K				UR		Roughing and Heavy interrupted cut 	Fn 0.3~0.5 Ap 1.0~5.0
		K			..MA		Cast iron Heavy Roughing 	Fn 0.15~0.50 Ap 1.0~5.0

0 1 2 3 4 5 6 Depth of Cut Ap (mm)

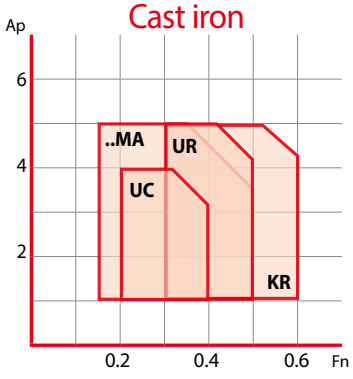
Ap : mm
Fn : mm/rev.



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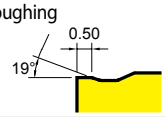
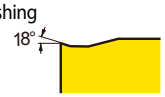
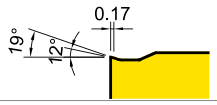
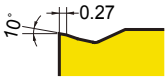
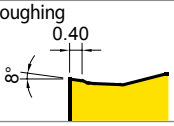
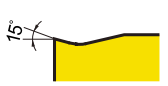
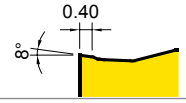
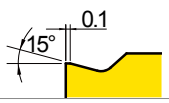
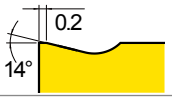
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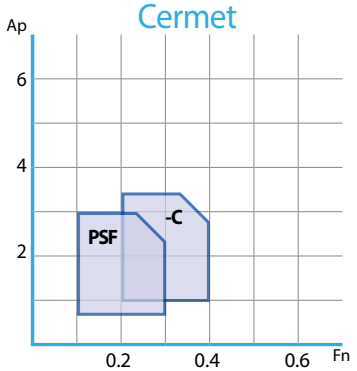
Product Overview

Turning Chipbreakers - Negative

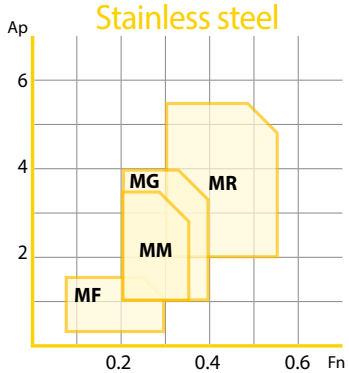
P	M	K	N	S				Feed (mm/rev.) 0 0.1 0.2 0.3 0.4 0.5 0.6
		K			KR		Cast Iron Heavy Roughing 	Fn 0.3~0.6 Ap 1.0~5.0
	M			S	MF		Stainless steel Finishing 	Fn 0.07~0.30 Ap 0.2~1.5
P	M			S	MM		Stainless steel Medium and Low Carbon Steel 	Fn 0.20~0.35 Ap 1.0~3.5
	M			S	MG		Stainless steel General 	Fn 0.20~0.40 Ap 1.0 ~ 4.0
	M			S	MR		Stainless steel Roughing 	Fn 0.30~0.55 Ap 2.0~5.5
				S	SF		HRSA Finishing 	Fn 0.1~0.25 Ap 0.2~1.0
				S	SM		HRSA Medium 	Fn 0.15~0.30 Ap 0.5~3.0
				S	SR		Roughing for HRSA 	Fn 0.30~0.55 Ap 2.0~5.5
P	M	K			NEW PSF		Cermet Finishing 	Fn 0.10~0.30 Ap 0.6~3.0
P	M	K			NEW -C		Cermet Medium 	Fn 0.20~0.40 Ap 1.0~3.5

0 1 2 3 4 5 6 Depth of Cut Ap (mm)

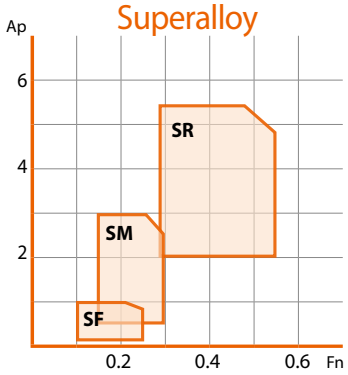
Ap : mm
Fn : mm/rev.



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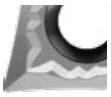
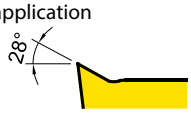
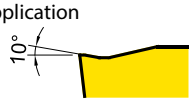
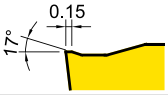
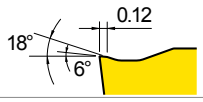
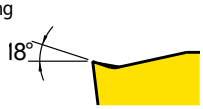
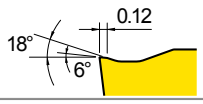
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*Insert : CNMG120408

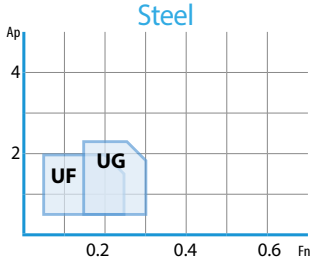
Product Overview

Turning Chipbreakers - Positive

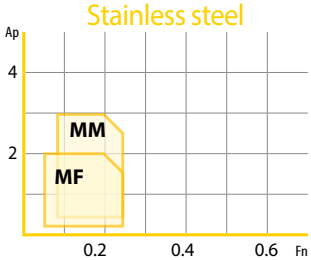
P	M	K	N	S				Feed Fn (mm/rev.) 0 0.1 0.2 0.3 0.4 0.5 0.6
			N		AL		Aluminum application 	Fn 0.02~0.30 Ap 0.1~5.0
P	M				UF		Finishing application 	Fn 0.05~0.25 Ap 0.5~2.0
P		K			UG		Medium application 	Fn 0.15~0.30 Ap 0.5~2.5
	M				NEW MF		Stainless steel Finishing 	Fn 0.06~0.25 Ap 0.1~2.0
	M				NEW MM		Stainless steel Medium 	Fn 0.08~0.25 Ap 0.25~3.0
	M				NEW SF		HRSA Finishing 	Fn 0.03~0.20 Ap 0.1~2.5
P	M	K			NEW PF		Cermet Finishing 	Fn 0.06~0.25 Ap 0.1~2.0
P	M	K			NEW PM		Cermet Medium 	Fn 0.08~0.25 Ap 0.25~3.0

0 1 2 3 4 5 6
Depth of Cut Ap (mm)

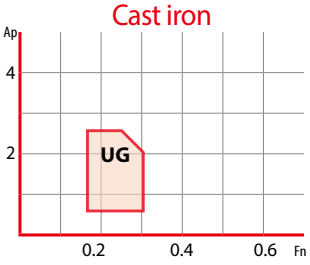
Steel



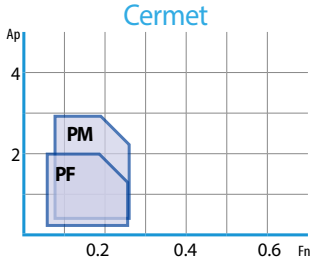
Stainless steel



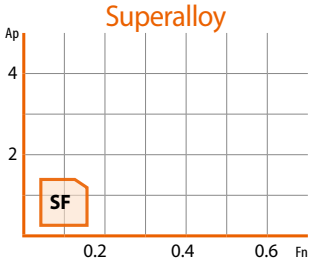
Cast iron



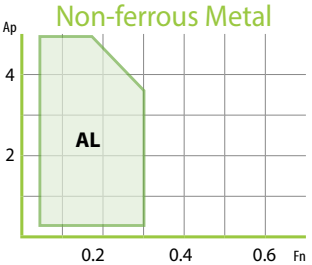
Cermet



Superalloy



Non-ferrous Metal



*Insert : CCMT09T304

Turning Inserts Overview

Negative Inserts

Recommended Cutting Conditions : p.222

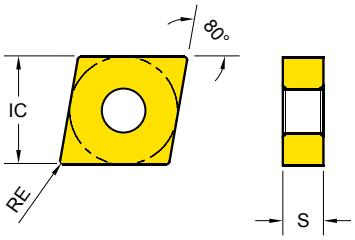
Shape		Series	Size & Thickness												Page
C		CNMA				1204				1606	1906				30
		CNMG	0903	0904		1204				1606	1906			2509	
		CNGG				1204									
		CNMM				1204				1606	1906			2509	
D		DNMA					1504	1506							35
		DNMG			1104		1504	1506							
		DNGG					1504	1506							
		DNMM						1506							
		DNUX					1504	1506							40
K		KNUX							1604						41
S		SNMA				1204		1506			1906				42
		SNMG	0903			1204					1906			2509	
		SNMM						1506			1906		2507	2509	
T		TNMA							1604						47
		TNMG							1604			2204			
		TNGG							1604						
		TNUX							1604						50
V		VNMA							1604						51
		VNMG							1604						
W		WNMA				0804									53
		WNMG		0604		0804									
		WNGG				0804									

Positive Inserts

Shape		Series	Size & Thickness												Page
C		CCGT	0602			09T3					1204				57
		CCMT	0602			09T3					1204				
D		DCGT		0702						11T3					59
		DCMT		0702						11T3					
R		RCMT	0602		0803		10T3				1204				61
		RCMX											1606	2006	62
S		SCGT				09T3									63
		SCMT				09T3					1204				
T		TCGT						1102				16T3			64
		TCMT						1102				16T3			
V		VBGT / VBMT							1103				1604		66
		VCGT / VCMT							1103				1604		67

Turning Inserts - Negative

CNMA / CNMG (80° Rhombic)



Series	IC	S
CN** 0903	9.525	3.18
CN** 0904	9.525	4.76
CN** 1204	12.700	4.76
CN** 1606	15.875	6.35
CN** 1906	19.050	6.35

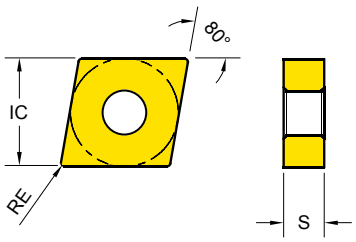
EDP 2200..

● : Stock item ○ : Order made item

CNMA CNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..MA	 Cast iron	CNMA 120404	0.4	0.15 ~ 0.50	0.5 ~ 5.0	● 0894	○ 0089	○ 0354													
		CNMA 120408	0.8	0.15 ~ 0.50	1.0 ~ 5.0	● 1484	○ 0010	○ 0355													
		CNMA 120412	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 0766	○ 0011	○ 0356													
		CNMA 120416	1.6	0.15 ~ 0.50	2.0 ~ 5.0	● 1207	○ 1188	○ 1314													
		CNMA 160612	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 0881	○ 0012	○ 0357													
		CNMA 160616	1.6	0.15 ~ 0.50	2.0 ~ 5.0	● 0937	○ 0446	○ 0447													
		CNMA 190612	1.2	0.15 ~ 0.50	1.5 ~ 9.0	● 1617	○ 0989	○ 0990													
		CNMA 190616	1.6	0.15 ~ 1.00	3.0 ~ 10.0	● 1015	○ 0448	○ 0449													
-UF	 Finishing	CNMG 120404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.5			○ 0178		● 2370	● 0179	● 0180	○ 0003								
		CNMG 120408 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.5			○ 0189	○ 1027	● 2204	● 0190	● 0191									
		CNMG 120412 - UF	1.2	0.05 ~ 0.25	1.5 ~ 2.5			○ 1349		● 2598	● 1360	● 1350									
-UL	 Light Machining and Sticky Material	CNMG 090308 - UL	0.8	0.10 ~ 0.30	1.0 ~ 2.5			○ 1211		● 2589	● 1328	● 1212									
		CNMG 090312 - UL	1.2	0.10 ~ 0.30	1.5 ~ 2.5			○ 1274		● 2590	● 1270	● 1704									
		CNMG 090408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 2.5			○ 1338		● 2591	● 1335	● 1705									
		CNMG 090412 - UL	1.2	0.10 ~ 0.30	1.5 ~ 2.5			○ 1339		● 2592	● 1336	● 1706									
		CNMG 120404 - UL	0.4	0.10 ~ 0.30	0.5 ~ 3.0			○ 0358		● 2381	● 0359	● 0524									
		CNMG 120408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 3.0			○ 0192		● 2315	● 0193	● 0194									
		CNMG 120412 - UL	1.2	0.10 ~ 0.30	1.5 ~ 3.0			○ 0201		● 2396	● 0202	● 0203									
-UM	 Medium Machining Unstable condition	CNMG 120404 - UM	0.4	0.15 ~ 0.30	0.5 ~ 3.0		● 1074	○ 0184				● 0185	● 0186								
		CNMG 120408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 3.0	● 0897	● 0338	○ 0114	○ 0843			● 0100	● 0140								
		CNMG 120412 - UM	1.2	0.15 ~ 0.30	1.5 ~ 3.0		● 1075	○ 0525				● 0486	● 0526								

Turning Inserts - Negative

CNMG (80° Rhombic)



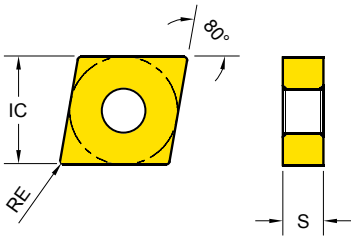
Series	IC	S
CN** 0903	9.525	3.18
CN** 0904	9.525	4.76
CN** 1204	12.700	4.76
CN** 1606	15.875	6.35
CN** 1906	19.050	6.35

EDP 2200.. ●: Stock item ○: Order made item

CNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-UG	 Medium Machining at stable condition	CNMG 120404 - UG	0.4	0.20 ~ 0.40	0.5 ~ 3.0	● 1578	○ 1073	○ 0181		● 2219	● 0182	● 0183									
		CNMG 120408 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	● 0896	○ 0337	○ 0113	○ 1001	● 2178	● 0099	● 0139	○ 0001								
		CNMG 120412 - UG	1.2	0.20 ~ 0.40	1.5 ~ 3.0	● 1579	○ 0685	○ 0198		● 2199	● 0199	● 0200									
		CNMG 160608 - UG	0.8	0.20 ~ 0.40	1.0 ~ 5.0	● 1826	○ 1077	○ 1078		● 2599	● 0748	● 0749									
		CNMG 160612 - UG	1.2	0.20 ~ 0.40	1.5 ~ 5.0	● 1827	○ 0791	○ 0530		● 2430	● 0508	● 0531									
		CNMG 160616 - UG	1.6	0.30 ~ 0.50	2.0 ~ 5.0	● 1828	○ 1229	○ 0534		● 2600	● 0510	● 0535									
		CNMG 190608 - UG	0.8	0.20 ~ 0.60	1.0 ~ 6.0	● 1847		○ 0801		● 2601	● 0802	● 0803									
		CNMG 190612 - UG	1.2	0.20~0.60	1.5 ~ 6.0					● 2603	● 2306	● 2307									
NEW -PWM	 Wiper-Medium	CNMG 120404 - PWM	0.4	0.10~0.50	0.5 ~ 3.5	● 1940				● 2593	● 1977	● 2046									
		CNMG 120408 - PWM	0.8	0.10~0.50	0.8 ~ 3.5	● 2047				● 2595	● 1251	● 1319									
		CNMG 120412 - PWM	1.2	0.10~0.50	1.0 ~ 3.5	● 1697				● 2597	● 1950	● 1951									
-UC	 Cast iron and Medium roughing	CNMG 120404 - UC	0.4	0.20 ~ 0.40	0.5 ~ 4.0	● 0895	○ 0096	○ 0115		● 2372	● 0101	● 0116									
		CNMG 120408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 4.0	● 1483	○ 0062	○ 0117		● 2172	● 0102	● 0118									
		CNMG 120412 - UC	1.2	0.20 ~ 0.40	1.5 ~ 4.0	● 0873	○ 0088	○ 0119		● 2185	● 0103	● 0120									
-UR	 Roughing	CNMG 120408 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	● 1536	○ 1050	○ 0195		● 2196	● 0196	● 0197									
		CNMG 120412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	● 0878	○ 1051	○ 0204		● 2179	● 0205	● 0206	○ 0004								
		CNMG 120416 - UR	1.6	0.30 ~ 0.50	2.0 ~ 5.0	● 1530	○ 1076	○ 0707		● 2213	● 0623	● 0847									
		CNMG 160608 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	● 1668	○ 1079	○ 1080		● 2426	● 0750	● 0751									
		CNMG 160612 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	● 0882	○ 0792	○ 0532		● 2197	● 0509	● 0533									
		CNMG 160616 - UR	1.6	0.30 ~ 0.50	2.0 ~ 5.0	● 0938	○ 0676	○ 0536		● 2187	● 0511	● 0537									
		CNMG 190608 - UR	0.8	0.30 ~ 0.80	3.0 ~ 9.0	● 1848		○ 0804		● 2427	● 0805	● 0806									
		CNMG 190612 - UR	1.2	0.30 ~ 0.80	3.0 ~ 9.0	● 1829	○ 0450	○ 0451		● 2355	● 0698	● 0699									
		CNMG 190616 - UR	1.6	0.30 ~ 0.80	3.0 ~ 9.0	● 1830	○ 0480	○ 0481		● 2583	● 0734	● 0735									
-KR	 Cast Iron Heavy Roughing	CNMG 120408 - KR	0.8	0.30 ~ 0.60	1.0 ~ 5.0	● 1503	○ 0718	○ 0800		● 2594											
		CNMG 120412 - KR	1.2	0.30 ~ 0.60	1.5 ~ 5.0	● 0879	○ 0719	○ 1100		● 2596											
		CNMG 160612 - KR	1.2	0.30 ~ 0.60	1.5 ~ 6.0	● 1504		○ 1092		● 2581											
		CNMG 160616 - KR	1.6	0.30 ~ 0.60	2.0 ~ 6.0	● 1588		○ 1094		● 2582											
		CNMG 190612 - KR	1.2	0.30~1.00	3.0 ~ 9.0	● 2264				● 2602											

Turning Inserts - Negative

CNMG (80° Rhombic)



Series	IC	S
CN** 0903	9.525	3.18
CN** 0904	9.525	4.76
CN** 1204	12.700	4.76
CN** 1606	15.875	6.35
CN** 1906	19.050	6.35

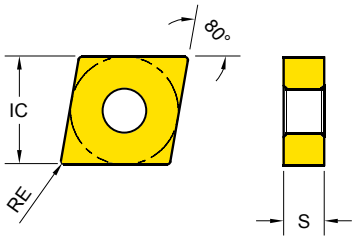
EDP 2200..

● : Stock item ○ : Order made item

CNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-MF	 Stainless steel Finishing	CNMG 120404 - MF	0.4	0.07 ~ 0.3	0.2 ~ 1.5						○ 1185	○ 1237		● 2451	● 0609	● 0613	● 1708	○ 2271			
		CNMG 120408 - MF	0.8	0.07 ~ 0.3	0.2 ~ 1.5							○ 0652		● 2452	● 0538	● 0539	● 0627	○ 2272			
		CNMG 120412 - MF	1.2	0.07 ~ 0.3	0.2 ~ 1.5							○ 1025		● 2453			● 1139				
-MM	 Stainless steel Medium	CNMG 120404 - MM	0.4	0.20 ~ 0.35	0.5 ~ 3.5										● 0547	● 0548	● 1709	○ 2286			
		CNMG 120408 - MM	0.8	0.20 ~ 0.35	1.0 ~ 3.5						○ 0360	○ 0188			● 0494	● 0495	● 0607	○ 2287			
		CNMG 120412 - MM	1.2	0.20 ~ 0.35	1.5 ~ 3.5							○ 0521			● 0549	● 0550	● 0626	○ 2288			
		CNMG 190608 - MM	0.8	0.20 ~ 0.50	2.0 ~ 5.5										● 1969	● 1970	● 1933				
		CNMG 190612 - MM	1.2	0.20 ~ 0.55	2.0 ~ 5.5										● 1971	● 1972	● 1934				
-MG	 Stainless steel General	CNMG120404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 4.0									● 2465							
		CNMG 120408 - MG	0.8	0.20 ~ 0.40	1.0 ~ 4.0							○ 1371		● 2468	● 1490	● 1491	● 1090	● 1222			
		CNMG 120412 - MG	1.2	0.20 ~ 0.40	1.5 ~ 4.0									● 2469	● 1493	● 1494	● 0928	● 1221			
		CNMG 160608 - MG	0.8	0.20 ~ 0.45	1.0 ~ 4.0										● 1921	● 1917	● 1919	● 1812			
		CNMG 160612 - MG	1.2	0.20 ~ 0.50	2.0 ~ 4.0										● 1922	● 1918	● 1920	● 1813			
		CNMG 160616 - MG	1.6	0.20 ~ 0.50	2.0 ~ 4.0										● 1929	● 1930	● 1535	● 1540			
		CNMG 190616 - MG	1.6	0.20 ~ 0.50	2.0 ~ 5.0										● 1931	● 1932	● 1534	● 1541			
-MR	 Stainless steel Roughing	CNMG 120408 - MR	0.8	0.30 ~ 0.55	2.0 ~ 5.5							○ 0594			● 0540	● 0541	● 0608				
		CNMG 120412 - MR	1.2	0.30 ~ 0.55	2.0 ~ 5.5						○ 0839	○ 0840		● 2480	● 0610	● 0614	● 0628				
		CNMG 120416 - MR	1.6	0.30 ~ 0.55	2.0 ~ 5.5										● 1893	● 1894	● 1895				

Turning Inserts - Negative

CNGG / CNMG (80° Rhombic)



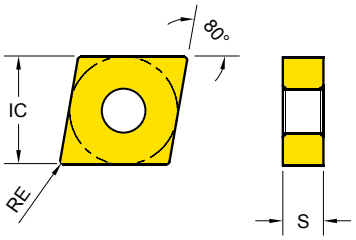
Series	IC	S
CN** 0903	9.525	3.18
CN** 0904	9.525	4.76
CN** 1204	12.700	4.76
CN** 1606	15.875	6.35
CN** 1906	19.050	6.35

EDP 2200.. ●: Stock item ○: Order made item

CNGG CNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
- SF	 HRSA Finishing	CNGG 120401 - SF	0.1	0.10 ~ 0.25	0.1 ~ 1.0													● 1882			
		CNGG 120402 - SF	0.2	0.10 ~ 0.25	0.1 ~ 1.0													● 2097			
		CNGG 120404 - SF	0.4	0.10 ~ 0.25	0.2 ~ 1.0													● 1291			
		CNGG 120408 - SF	0.8	0.10 ~ 0.25	0.2 ~ 1.0													● 0943			
- SM	 HRSA Medium	CNMG 120408 - SM	0.8	0.15 ~ 0.30	0.5 ~ 3.0										○ 1088	○ 1089	○ 1395	● 1189			
		CNMG 120412 - SM	1.2	0.15 ~ 0.30	0.5 ~ 3.0										○ 1373	○ 1394	○ 2305	● 1292			
- SR	 HRSA Roughing	CNMG 120408 - SR	0.8	0.30 ~ 0.55	2.0 ~ 5.5													● 0945			
		CNMG 120412 - SR	1.2	0.30 ~ 0.55	2.0 ~ 5.5													● 1279			
		CNMG 120416 - SR	1.6	0.30 ~ 0.55	2.0 ~ 5.5													● 1912			
NEW - PSF	 Cermet Finishing	CNMG 120404 - PSF	0.4	0.07 ~ 0.30	0.4 ~ 3.0														● 2531		
		CNMG 120408 - PSF	0.8	0.10 ~ 0.30	0.6 ~ 3.0														● 2532		

Turning Inserts - Negative

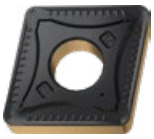
CNMG / CNMM - Heavy Turning (80° Rhombic)



Series	IC	S
CN** 1204	12.700	4.76
CN** 1606	15.875	6.35
CN** 1906	19.050	6.35
CN** 2509	25.400	9.52

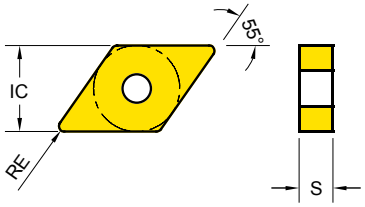
EDP 2200..

● : Stock item ○ : Order made item

CNMG CNMM	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
					YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
NEW - UH  Low cutting force	CNMM 120408 - UH	0.8	0.30 ~ 0.50	1.5 ~ 5.0						● 2320	● 2321									
	CNMM 160612 - UH	1.2	0.35 ~ 0.60	2.0 ~ 5.5						● 2316	● 2317									
	CNMM 160616 - UH	1.6	0.35 ~ 0.60	2.5 ~ 5.5						● 2318	● 2319									
	CNMM 190612 - UH	1.2	0.35 ~ 0.70	1.5 ~ 9.0	● 2107		● 2108			● 2113	● 2114									
	CNMM 190616 - UH	1.6	0.35 ~ 0.70	2.0 ~ 9.0	● 2115		● 2116			● 2117	● 2118									
	CNMM 190624 - UH	2.4	0.35 ~ 0.70	3.0 ~ 9.0	● 2109		● 2110			● 2111	● 2112									
	CNMM 250924 - UH	2.4	0.40 ~ 0.80	3.0 ~ 10.0	● 2119		● 2120			● 2121	● 2122									
- UR  Roughing	CNMM 190616 - UR	1.6	0.30 ~ 0.80	3.0 ~ 9.0						● 0925	● 0926									
	CNMG 250924 - UR	2.4	0.40 ~ 1.00	5.0 ~ 12.0					● 2604	● 1687	● 1464									
NEW - UT  Heavy Roughing	CNMM 120408 - UT	0.8	0.40 ~ 0.70	1.5 ~ 6.0						● 2322	● 2323									
	CNMM 160612 - UT	1.2	0.45 ~ 0.70	2.0 ~ 6.0						● 2335	● 2336									
	CNMM 160616 - UT	1.6	0.45 ~ 0.70	2.5 ~ 6.0						● 2324	● 2325									
	CNMM 190612 - UT	1.2	0.50 ~ 1.00	3.0 ~ 12.0	● 2139		● 2140			● 2141	● 2142									
	CNMM 190616 - UT	1.6	0.50 ~ 1.00	4.0 ~ 12.0	● 2143		● 2144			● 2145	● 2146									
	CNMM 190624 - UT	2.4	0.50 ~ 1.00	6.0 ~ 12.0	● 2147		● 2148			● 2149	● 2150									
	CNMM 250924 - UT	2.4	0.55 ~ 1.20	6.0 ~ 13.0	● 2151		● 2152			● 2021	● 2022									

Turning Inserts - Negative

DNMA / DNMG (55° Rhombic)



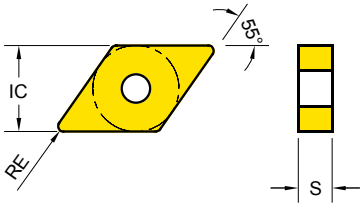
Series	IC	S
DN** 1104	9.525	4.76
DN** 1504	12.700	4.76
DN** 1506	12.700	6.35

EDP 2200.. ●: Stock item ○: Order made item

DNMA DNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..MA	 Cast iron	DNMA 150404	0.4	0.10 ~ 0.50	0.5 ~ 5.0	● 1558	○ 1505	○ 1506													
		DNMA 150408	0.8	0.15 ~ 0.50	1.0 ~ 5.0	● 1559	○ 0573	○ 0574													
		DNMA 150412	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 1421	○ 0575	○ 0576													
		DNMA 150604	0.4	0.10 ~ 0.50	1.0 ~ 5.0	● 1581	○ 1445	○ 1447													
		DNMA 150608	0.8	0.15 ~ 0.50	1.0 ~ 5.0	● 1557	○ 0091	○ 1129													
		DNMA 150612	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 1422	○ 0092	○ 1130													
-UF	 Finishing	DNMG 150404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.5			○ 0363		● 2220	● 0364	● 0365	○ 0016								
		DNMG 150408 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.5			○ 0856	○ 1030	● 2221	● 0774	● 0857									
		DNMG 150412 - UF	1.2	0.05 ~ 0.25	1.5 ~ 2.5			○ 1450		● 2584	● 1368	● 1383									
		DNMG 150604 - UF	0.4	0.05 ~ 0.25	1.0 ~ 2.0			○ 0225		● 2398	● 0226	● 0227	○ 0018								
		DNMG 150608 - UF	0.8	0.05 ~ 0.25	1.5 ~ 3.5			○ 0231		● 2419	● 0232	● 0233									
		DNMG 150612 - UF	1.2	0.05 ~ 0.25	1.5 ~ 2.5			○ 1385		● 2610	● 1369	● 1386									
-UL	 Light Machining and Sticky Material	DNMG 110404 - UL	0.4	0.10 ~ 0.3	0.5 ~ 2.5			○ 1239		● 2606	● 1240	● 1241									
		DNMG 110408 - UL	0.8	0.10 ~ 0.3	1.0 ~ 2.5			○ 1242		● 2607	● 1243	● 1244									
		DNMG 150404 - UL	0.4	0.10 ~ 0.3	0.5 ~ 3.0			○ 0686		● 2444	● 0687	● 0708									
		DNMG 150408 - UL	0.8	0.10 ~ 0.3	1.0 ~ 3.0			○ 0489	○ 1028	● 2337	● 0504	● 0505									
		DNMG 150412 - UL	1.2	0.10 ~ 0.3	1.5 ~ 3.0			○ 0709	○ 1029	● 2314	● 1108	● 1109									
		DNMG 150604 - UL	0.4	0.10 ~ 0.3	0.5 ~ 3.0			○ 0369		● 2404	● 0370	● 1110									
		DNMG 150608 - UL	0.8	0.10 ~ 0.3	1.5 ~ 3.0			○ 0237		● 2214	● 0238	● 0239									
		DNMG 150612 - UL	1.2	0.10 ~ 0.3	1.5 ~ 3.0			○ 0246		● 2611	● 0247	● 0248									

Turning Inserts - Negative

DNMG (55° Rhombic)



Series	IC	S
DN** 1104	9.525	4.76
DN** 1504	12.700	4.76
DN** 1506	12.700	6.35

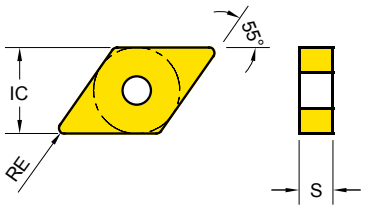
EDP 2200..

● : Stock item ○ : Order made item

DNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-UM	 Medium Machining Unstable condition	DNMG 150404 - UM	0.4	0.15 ~ 0.30	0.5 ~ 3.0	○ 1672		○ 1702		● 2608	● 1703	● 1707									
		DNMG 150408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 3.0		○ 1106	○ 0688		● 2360	● 0689	● 0701									
		DNMG 150412 - UM	1.2	0.15 ~ 0.30	1.5 ~ 3.0		○ 0604	○ 0512		● 2203	● 0488	● 0705									
		DNMG 150604 - UM	0.4	0.15 ~ 0.30	0.5 ~ 3.0		○ 1408	○ 1436		● 2609	● 1409	● 1425									
		DNMG 150608 - UM	0.8	0.15 ~ 0.30	1.0 ~ 3.0		○ 1128	○ 0240		● 2201	● 0241	● 0242									
		DNMG 150612 - UM	1.2	0.15 ~ 0.30	1.5 ~ 3.0		○ 1149	○ 1132		● 2612	● 0695	● 0706									
-UG	 Medium Machining at stable condition	DNMG 150404 - UG	0.4	0.20 ~ 0.40	0.5 ~ 3.0	● 1618		○ 1131		● 2443	● 0772	● 1137									
		DNMG 150408 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	● 1608	○ 0452	○ 0366		● 2368	● 0367	● 0368	○ 0017								
		DNMG 150412 - UG	1.2	0.20 ~ 0.40	1.5 ~ 3.0	● 1514	○ 0703	○ 1107		● 2442	● 0487	● 0704									
		DNMG 150604 - UG	0.4	0.20 ~ 0.40	0.5 ~ 3.0	● 1619		○ 0228		● 2375	● 0229	● 0230									
		DNMG 150608 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	● 1609	○ 0453	○ 0234		● 2212	● 0235	● 0236	○ 0019								
		DNMG 150612 - UG	1.2	0.20 ~ 0.40	1.5 ~ 3.0	● 1511	○ 0454	○ 0243		● 2356	● 0244	● 0245									
-UC	 Cast iron and Medium roughing	DNMG 150408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 4.0	● 1611	○ 0577	○ 0578	○ 1273	● 2388	● 1193	● 0700									
		DNMG 150412 - UC	1.2	0.20 ~ 0.40	1.5 ~ 4.0	● 1512	○ 0579	○ 0580		● 2373	● 1168	● 0702									
		DNMG 150608 - UC	0.8	0.20 ~ 0.40	1.0 ~ 4.0	● 0898	○ 0090	○ 0121	○ 1272	● 2376	● 0104	● 0122									
		DNMG 150612 - UC	1.2	0.20 ~ 0.40	1.5 ~ 4.0	● 1509	○ 0098	○ 0123		● 2410	● 0105	● 0124									
-UR	 Roughing	DNMG 150408 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	● 1621	○ 1095	○ 0585		● 2446	● 1096	● 1097									
		DNMG 150412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	● 1513	○ 1127	○ 0581		● 2400	● 1134	● 1101									
		DNMG 150608 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	● 1622	○ 0691	○ 0692		● 2447	● 0693	● 0854									
		DNMG 150612 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	● 1510	○ 1258	○ 0371		● 2416	● 0372	● 0373	○ 0020								

Turning Inserts - Negative

DNMG (55° Rhombic)



Series	IC	S
DN** 1104	9.525	4.76
DN** 1504	12.700	4.76
DN** 1506	12.700	6.35

EDP 2200.. ●: Stock item ○: Order made item

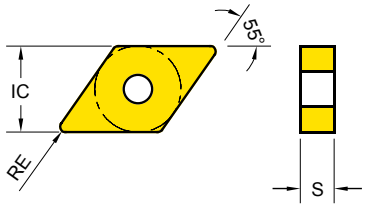
DNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-MF	 Stainless steel Finishing	DNMG 150404 - MF	0.4	0.07 ~ 0.30	0.2 ~ 1.5									● 2454	● 0848	● 0771	● 1815	○ 2273			
		DNMG 150408 - MF	0.8	0.07 ~ 0.30	0.2 ~ 1.5							○ 0807		● 2456	● 0849	● 0773	● 1816	○ 2274			
		DNMG 150604 - MF	0.4	0.07 ~ 0.30	0.2 ~ 1.5									● 2455	● 0811	● 0850	● 1819	○ 1945			
		DNMG 150608 - MF	0.8	0.07 ~ 0.30	0.2 ~ 1.5						○ 1202	○ 0813		● 2457	● 0812	● 0859	● 1820	○ 2275			
-MM	 Stainless steel Medium	DNMG 150404 - MM	0.4	0.20 ~ 0.35	0.5 ~ 3.5							○ 0527			● 0551	● 0552	● 1710	○ 2289			
		DNMG 150408 - MM	0.8	0.20 ~ 0.35	1.0 ~ 3.5							○ 0506			● 0513	● 0514	● 1788	○ 2290			
		DNMG 150412 - MM	1.2	0.20 ~ 0.35	1.5 ~ 3.5							○ 0529			● 0561	● 0562	● 1711	○ 2291			
		DNMG 150604 - MM	0.4	0.20 ~ 0.35	0.5 ~ 3.5							○ 0528			● 0553	● 0554	● 1712	○ 2292			
		DNMG 150608 - MM	0.8	0.20 ~ 0.35	1.0 ~ 3.5							○ 0507			● 0515	● 0516	● 0690	○ 2293			
		DNMG 150612 - MM	1.2	0.20 ~ 0.35	1.5 ~ 3.5							○ 0496			● 0563	● 0564	● 0694	○ 2294			
-MG	 Stainless steel General	DNMG 150404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 4.0									● 2466							
		DNMG 150408 - MG	0.8	0.20 ~ 0.40	1.0 ~ 4.0									● 2470	● 1561	● 1562	● 1563	● 1560			
		DNMG 150412 - MG	1.2	0.20 ~ 0.40	1.5 ~ 4.0									● 2483							
		DNMG 150604 - MG	0.4	0.20 ~ 0.40	0.5 ~ 4.0									● 2467							
		DNMG 150608 - MG	0.8	0.20 ~ 0.40	1.0 ~ 4.0									● 2471	● 1565	● 1566	● 1567	● 1564			
		DNMG 150612 - MG	1.2	0.20 ~ 0.40	1.5 ~ 4.0									● 2484							
-MR	 Stainless steel Roughing	DNMG 150408 - MR	0.8	0.30 ~ 0.55	2.0 ~ 5.5							○ 1036		● 2492	● 0914	● 0808	● 0809				
		DNMG 150412 - MR	1.2	0.30 ~ 0.55	2.0 ~ 5.5										● 0929	● 0930	● 0810				
		DNMG 150608 - MR	0.8	0.30 ~ 0.55	2.0 ~ 5.5							○ 1037		● 2481	● 0860	● 0814	● 0815				
		DNMG 150612 - MR	1.2	0.30 ~ 0.55	2.0 ~ 5.5										● 0861	● 0862	● 0816				

Click for Overview

YG TURN

Turning Inserts - Negative

DNGG / DNMG (55° Rhombic)



Series	IC	S
DN** 1104	9.525	4.76
DN** 1504	12.700	4.76
DN** 1506	12.700	6.35

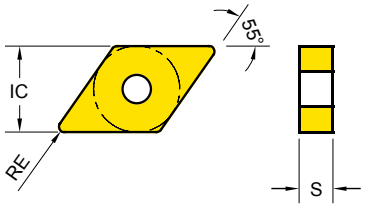
EDP 2200..

● : Stock item ○ : Order made item

							K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
DNGG DNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)		YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-SF	 HRSA Finishing	DNGG 150404 - SF	0.4	0.10 ~ 0.25	0.2 ~ 1.0														● 1295			
		DNGG 150408 - SF	0.8	0.10 ~ 0.25	0.2 ~ 1.0														● 1293			
		DNGG 150604 - SF	0.4	0.10 ~ 0.25	0.2 ~ 1.0														● 1296			
		DNGG 150608 - SF	0.8	0.10 ~ 0.25	0.2 ~ 1.0														● 1294			
-SM	 HRSA Medium	DNMG 150408 - SM	0.8	0.15 ~ 0.30	0.5 ~ 3.0											○ 1417	○ 1412	○ 1817	● 1300			
		DNMG 150412 - SM	1.2	0.15 ~ 0.30	0.5 ~ 3.0											○ 1419	○ 1413	○ 1818	● 1303			
		DNMG 150608 - SM	0.8	0.15 ~ 0.30	0.5 ~ 3.0											○ 1418	○ 1414	○ 1821	● 1301			
		DNMG 150612 - SM	1.2	0.15 ~ 0.30	0.5 ~ 3.0											○ 1420	○ 1415	○ 1822	● 1302			
-SR	 HRSA Roughing	DNMG 150408 - SR	0.8	0.30 ~ 0.55	2.0 ~ 5.5														● 1298			
		DNMG 150412 - SR	1.2	0.30 ~ 0.55	2.0 ~ 5.5														● 1297			
		DNMG 150608 - SR	0.8	0.30 ~ 0.55	2.0 ~ 5.5														● 1280			
		DNMG 150612 - SR	1.2	0.30 ~ 0.55	2.0 ~ 5.5														● 1299			
NEW -PSF	 Cermet Finishing	DNMG 150404 - PSF	0.4	0.07 ~ 0.30	0.4 ~ 3.0															● 2533		
		DNMG 150408 - PSF	0.8	0.10 ~ 0.30	0.6 ~ 3.0															● 2534		

Turning Inserts - Negative

DNMM - Heavy Turning (55˚ Rhombic)



Series	IC	S
DN** 1104	9.525	4.76
DN** 1504	12.700	4.76
DN** 1506	12.700	6.35

EDP 2200..

●: Stock item ○: Order made item

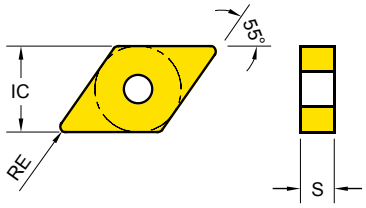
DNMM	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
					YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
NEW -UH  Low cutting force	DNMM 150612 - UH	1.2	0.30 ~ 0.50	2.0 ~ 7.0						● 2327	● 2328									
NEW -UT  Heavy Roughing	DNMM 150612 - UT	1.2	0.30 ~ 0.50	2.0 ~ 7.0						● 2329	● 2330									

Click for Overview

YG TURN

Turning Inserts - Negative

DNUX (4 Corners 55° Rhombic)



Series	IC	S
DNUX 1504	12.7	4.76
DNUX 1506	12.7	6.35

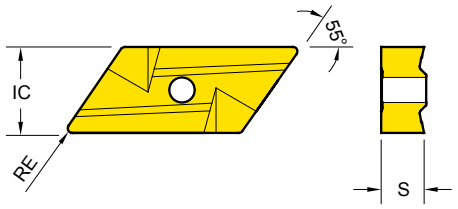
EDP 2200..

● : Stock item ○ : Order made item

DNUX	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
					YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
NEW ..UX  Left Hand Shown	DNUX 150404 L	0.4	0.10 ~ 0.35	0.7 ~ 4.0			○ 1874		● 2613	● 1872	● 1875									
	DNUX 150408 L	0.8	0.10 ~ 0.35	1.0 ~ 4.0			○ 1876		● 2615	● 1877	● 1878									
	DNUX 150604 L	0.4	0.10 ~ 0.35	0.7 ~ 4.0			○ 1873		● 2617	● 1869	● 1870				● 1327	● 1321				
	DNUX 150608 L	0.8	0.10 ~ 0.35	1.0 ~ 4.0			○ 1879		● 2619	● 1871	● 1880									
NEW ..UX  Right Hand Shown	DNUX 150404 R	0.4	0.10 ~ 0.35	0.7 ~ 4.0			○ 1628		● 2614	● 1555	● 1629									
	DNUX 150408 R	0.8	0.10 ~ 0.35	1.0 ~ 4.0			○ 1630		● 2616	● 1631	● 1632									
	DNUX 150604 R	0.4	0.10 ~ 0.35	0.7 ~ 4.0			○ 1625		● 2618	● 1322	● 1323						● 2052			
	DNUX 150608 R	0.8	0.10 ~ 0.35	1.0 ~ 4.0			○ 1633		● 2620	● 1546	● 1634			● 1948	● 1547		● 1574			

Turning Inserts - Negative

KNUX (2 Corners 55° Parallelogram)



Series	IC	S
KN** 1604	9.525	4.76

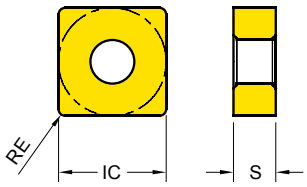
EDP 2200.. ●: Stock item ○: Order made item

KNUX	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
					YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..UX  Left Hand Shown	KNUX 160405 L	0.5	0.10 ~ 0.40	0.5 ~ 6.0			○ 0249		● 2621	● 0250	● 0251	● 0079								
	KNUX 160410 L	1.0	0.30 ~ 0.60	1.0 ~ 6.0			○ 1785		● 2622	● 1786	● 1315									
..UX  Right Hand Shown	KNUX 160405 R	0.5	0.10 ~ 0.40	0.5 ~ 6.0			○ 0252		● 2408	● 0253	● 0254	○ 0080								
	KNUX 160410 R	1.0	0.30 ~ 0.60	1.0 ~ 6.0			○ 1358		● 2623	● 1155	● 1156									

Turning Inserts - Negative

SNMA / SNMG (90° Square)

Series	IC	S
SN** 0903	9.525	3.18
SN** 1204	12.700	4.76
SN** 1506	15.875	6.35
SN** 1906	19.050	6.35



EDP 2200..

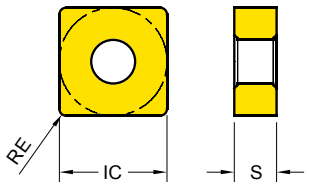
● : Stock item ○ : Order made item

SNMA SNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..MA	 Cast iron	SNMA 120408	0.8	0.15 ~ 0.50	1.0 ~ 5.0	● 0767	○ 0027	○ 1166													
		SNMA 120412	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 0768	○ 0028	○ 1133													
		SNMA 120416	1.2	0.15~0.70	1.0 ~ 6.0	● 2023															
		SNMA 150612	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 1423	○ 0729	○ 1150													
		SNMA 190616	1.6	0.15 ~ 1.00	3.0 ~ 10.0	● 1344	○ 1184	○ 1261													
-UF	 Finishing	SNMG 090308 - UF	0.8	0.05~0.20	1.0 ~ 2.0					● 2630	● 0999										
		SNMG 120404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 1.5			○ 1458		● 2631	● 1459	● 1454	○ 0029								
		SNMG 120408 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.5			○ 1430		● 2633	● 1433	● 1437									
-UL	 Light Machining and Sticky Material	SNMG 120404 - UL	0.4	0.10 ~ 0.30	0.5 ~ 3.0			○ 1167		● 2632	● 0747	● 1194									
		SNMG 120408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 3.0			○ 0389		● 2634	● 0390	● 0391									
-UM	 Medium Machining Unstable condition	SNMG 120408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 3.0		○ 0983	○ 0739		● 2635	● 0784	● 0740									

Turning Inserts - Negative

SNMG (90° Square)

Series	IC	S
SN** 0903	9.525	3.18
SN** 1204	12.700	4.76
SN** 1506	15.875	6.35
SN** 1906	19.050	6.35



EDP 2200.. ●: Stock item ○: Order made item

SNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-UG	 Medium Machining at stable condition	SNMG 120408 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	● 1610	○ 1190	○ 0141		● 2361	● 0142	● 0143	○ 0030								
		SNMG 120412 - UG	1.2	0.20 ~ 0.40	1.5 ~ 3.0	● 1640	○ 1164	○ 0258		● 2411	● 0259	● 0260									
		SNMG 120416 - UG	1.6	0.20 ~ 0.40	2.0 ~ 3.0	● 1646	○ 1165	○ 0744	○ 0789	● 2638	● 1169	● 1195									
-UC	 Cast iron and Medium roughing	SNMG 120408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 4.0	● 1488	○ 0073	○ 0125		● 2405	● 0106	● 0126									
		SNMG 120412 - UC	1.2	0.20 ~ 0.40	1.5 ~ 4.0	● 0900	○ 0074	○ 0127		● 2429	● 0107	● 0128									
-UR	 Roughing	SNMG 120408 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	● 1623	○ 1163	○ 0392		● 2401	● 0393	● 0394									
		SNMG 120412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	● 1624	○ 1052	○ 0261		● 2585	● 0262	● 0263	○ 0031								
		SNMG 120416 - UR	1.6	0.30 ~ 0.50	2.0 ~ 5.0	● 1837	○ 0988	○ 0974	○ 0975	● 2639	● 0971	● 0977									
		SNMG 190612 - UR	1.2	0.30 ~ 0.80	3.0 ~ 9.0					● 2640	● 1018	● 1026									
		SNMG 190616 - UR	1.6	0.30 ~ 0.80	3.0 ~ 9.0	● 1838				● 2641	● 1583	● 1584									
-KR	 Cast Iron Heavy Roughing	SNMG 120412 - KR	1.2	0.30 ~ 0.60	1.5 ~ 5.0	● 1064	○ 1063	○ 1065		● 2636											
		SNMG 120416 - KR	1.6	0.30 ~ 0.60	2.0 ~ 5.0	● 1208	○ 0730	○ 0950	○ 0965	● 2637											

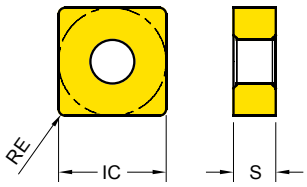
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YG TURN

Turning Inserts - Negative

SNMG (90° Square)

Series	IC	S
SN** 0903	9.525	3.18
SN** 1204	12.700	4.76
SN** 1506	15.875	6.35
SN** 1906	19.050	6.35



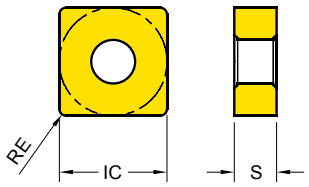
EDP 2200..

● : Stock item ○ : Order made item

SNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-MF	 Stainless steel Finishing	SNMG 120404 - MF	0.4	0.07 ~ 0.30	0.2 ~ 1.5										● 0978	● 0979	● 0981	○ 2276			
		SNMG 120408 - MF	0.8	0.07 ~ 0.30	0.2 ~ 1.5							○ 0818		● 2459	● 0653	● 0654	● 0817	○ 2277			
		SNMG 120412 - MF	1.2	0.07 ~ 0.30	0.2 ~ 1.5							○ 0821		● 2460	● 0655	● 0656	● 0820	○ 2278			
-MM	 Stainless steel Medium	SNMG 120408 - MM	0.8	0.20 ~ 0.35	1.0 ~ 3.5										● 0555	● 0556	● 1014	○ 2295			
		SNMG 120412 - MM	1.2	0.20 ~ 0.35	1.5 ~ 3.5										● 0565	● 0566	● 1789	○ 2296			
-MG	 Stainless steel General	SNMG 120404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 4.0									● 2485							
		SNMG 120408 - MG	0.8	0.20 ~ 0.40	1.0 ~ 4.0									● 2475	● 1804	● 1805	● 1806	● 1695			
		SNMG 120412 - MG	1.2	0.20 ~ 0.40	1.5 ~ 4.0									● 2486							
-MR	 Stainless steel Roughing	SNMG 120408 - MR	0.8	0.30 ~ 0.55	2.0 ~ 5.5							○ 1059		● 2495	● 0657	● 0658	● 0819				
		SNMG 120412 - MR	1.2	0.30 ~ 0.55	2.0 ~ 5.5							○ 0823		● 2496	● 0659	● 0660	● 0822				
		SNMG 120416 - MR	1.6	0.30 ~ 0.55	2.0 ~ 5.5									● 2497							

Turning Inserts - Negative

SNMG (90˚ Square)



Series	IC	S
SN** 0903	9.525	3.18
SN** 1204	12.700	4.76
SN** 1506	15.875	6.35
SN** 1906	19.050	6.35

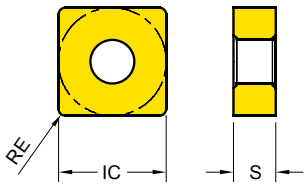
EDP 2200.. ●: Stock item ○: Order made item

SNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-SM	 HRSA Medium	SNMG 090304 - SM	0.4	0.15 ~ 0.30	0.5 ~ 3.0										○ 2434			● 2435			
		SNMG 120408 -SM	0.8	0.15 ~ 0.30	0.5 ~ 3.0										○ 1801	○ 1802	○ 1803	● 1696			
-SR	 HRSA Roughing	SNMG 120408 - SR	0.8	0.30 ~ 0.55	2.0 ~ 5.5													● 1305			
		SNMG 120412 - SR	1.2	0.30 ~ 0.55	2.0 ~ 5.5													● 1304			

Turning Inserts - Negative

SNMG / SNMM - Heavy Turning (90° Square)

Series	IC	S
SN** 1506	15.875	6.35
SN** 1906	19.050	6.35
SN** 2507	25.400	7.94
SN** 2509	25.400	9.52

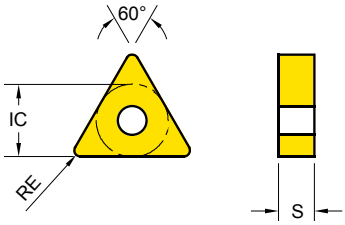


EDP 2200.. ● : Stock item ○ : Order made item

SNMG SNMM	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
					YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
NEW -UH  Low cutting force	SNMM 150612 - UH	1.2	0.35 ~ 0.60	2.0 ~ 5.5						● 2331	● 2332									
	SNMM 190612 - UH	1.2	0.35 ~ 0.70	1.5 ~ 9.0	● 2123		● 2124			● 2125	● 2126									
	SNMM 190616 - UH	1.6	0.35 ~ 0.70	2.0 ~ 9.0	● 2127		● 2128			● 2129	● 2130									
	SNMM 190624 - UH	2.4	0.35 ~ 0.70	3.0 ~ 9.0	● 2131		● 2132			● 2133	● 2134									
	SNMM 250924 - UH	2.4	0.40 ~ 0.80	3.0 ~ 10.0	● 2135		● 2136			● 2137	● 2138									
- UR  Roughing	SNMG 250924 - UR	2.4	0.40 ~ 1.00	5.0 ~ 12.0						● 1370	● 1366									
NEW -UT  Heavy Roughing	SNMM 150612 - UT	1.2	0.45 ~ 0.70	2.0 ~ 6.0						● 2333	● 2334									
	SNMM 190612 - UT	1.2	0.50 ~ 1.00	3.0 ~ 12.0	● 2153		● 2154			● 2155	● 2156									
	SNMM 190616 - UT	1.6	0.50 ~ 1.00	4.0 ~ 12.0	● 2157		● 2158			● 2159	● 2160									
	SNMM 190624 - UT	2.4	0.50 ~ 1.00	6.0 ~ 12.0	● 2161		● 2018			● 2162	● 2163									
	SNMM 250724 - UT	2.4	0.55 ~ 1.20	6.0 ~ 13.0			● 1255			● 0841	● 0842									
	SNMM 250924 - UT	2.4	0.55 ~ 1.20	6.0 ~ 13.0	● 2164		● 1626			● 1627	● 1213									

Turning Inserts - Negative

TNMA / TNMG (60° Triangle)



Series	IC	S
TN** 1604	9.525	4.76
TN** 2204	12.700	4.76

EDP 2200.. ●: Stock item ○: Order made item

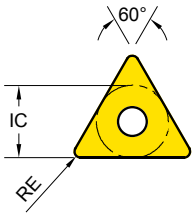
TNMA TNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..MA	 Cast iron	TNMA 160404	0.4	0.15 ~ 0.50	0.5 ~ 5.0	● 1582	○ 1446	○ 1448													
		TNMA 160408	0.8	0.15 ~ 0.50	1.0 ~ 5.0	● 1486	○ 0035	○ 1191													
		TNMA 160412	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 1485	○ 0036	○ 1192													
-UF	 Finishing	TNMG 160404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.5			○ 0270		● 2363	● 0271	● 0272	○ 0039								
		TNMG 160408 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.5			○ 0276		● 2217	● 0277	● 0278									
		TNMG 160412 - UF	1.2	0.05 ~ 0.25	1.5 ~ 2.5			○ 0721		● 2645	● 0588	● 1197									
		TNMG 220404 - UF	0.4	0.10 ~ 0.35	0.5 ~ 4.0			○ 0407		● 2409	● 1203	● 1205	○ 0042								
-UL	 Light Machining and Sticky Material	TNMG 160404 - UL	0.4	0.10 ~ 0.30	0.5 ~ 3.0			○ 1605		● 2643	● 1606	● 1607									
		TNMG 160408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 3.0			○ 0279	○ 0752	● 2374	● 0280	● 0281									
		TNMG 160412 - UL	1.2	0.10 ~ 0.30	1.5 ~ 3.0			○ 0884	○ 0868	● 2586	● 0621	● 1198									
-UM	 Medium Machining Unstable condition	TNMG 160404 - UM	0.4	0.15 ~ 0.30	0.5 ~ 3.0	○ 1669	○ 0949	○ 0948	○ 0844	● 2644	● 0952	● 0954									
		TNMG 160408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 3.0	○ 1141	○ 1053	○ 0282	○ 0758	● 2195	● 0283	● 0284									
		TNMG 160412 - UM	1.2	0.15 ~ 0.30	1.5 ~ 3.0	○ 1143	○ 0596	○ 0597	○ 0760	● 2587	● 0586	● 0710									
-UG	 Medium Machining at stable condition	TNMG 160404 - UG	0.4	0.20 ~ 0.40	0.5 ~ 3.0	● 1620	○ 0458	○ 0273		● 2171	● 0274	● 0275									
		TNMG 160408 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	● 1140	○ 0459	○ 0144	○ 0757	● 2182	● 0145	● 0146	○ 0037								
		TNMG 160412 - UG	1.2	0.20 ~ 0.40	1.5 ~ 3.0	● 1142	○ 0605	○ 0606	○ 0759	● 2200	● 0587	● 0939									
		TNMG 220408 - UG	0.8	0.25 ~ 0.60	1.0 ~ 6.0	● 1641	○ 1061	○ 0285		● 2394	● 0286	● 0287	○ 0040								
		TNMG 220412 - UG	1.2	0.25 ~ 0.60	1.5 ~ 6.0	● 1642	○ 1526	○ 1527		● 2694	● 1528	● 1529									
		TNMG 220416 - UG	1.6	0.25 ~ 0.60	2.0 ~ 6.0	● 1647	○ 1209	○ 0851	○ 0863	● 2695	● 0852	● 1263									
-UC	 Cast iron and Medium roughing	TNMG 160404 - UC	0.4	0.20 ~ 0.40	0.5 ~ 4.0	● 1316	○ 0399	○ 0400		● 2423	● 0401	● 0402									
		TNMG 160408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 4.0	● 0901	○ 0075	○ 0129		● 2382	● 0108	● 0130									
		TNMG 160412 - UC	1.2	0.20 ~ 0.40	1.5 ~ 4.0	● 0902	○ 0076	○ 0131		● 2413	● 0109	● 0132									
		TNMG 220416 - UC	1.6	0.20 ~ 0.40	2.0 ~ 4.0						● 1507										
-UR	 Roughing	TNMG 160408 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	● 0880	○ 0680	○ 0669		● 2395	● 0670	● 1054									
		TNMG 160412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	● 1657	○ 0602	○ 0404	○ 0888	● 2406	● 0405	● 0406	○ 0038								
		TNMG 220412 - UR	1.2	0.30 ~ 0.65	1.5 ~ 7.0	● 1639	○ 0408	○ 0409		● 2403	● 0410	● 0411	○ 0041								
		TNMG 220416 - UR	1.6	0.30 ~ 0.65	2.0 ~ 7.0	● 1658	○ 0460	○ 0461		● 2696	● 0696	● 0711									

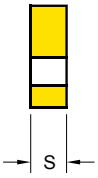
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YG TURN

Turning Inserts - Negative

TNMG (60° Triangle)





Series	IC	S
TN** 1604	9.525	4.76
TN** 2204	12.700	4.76

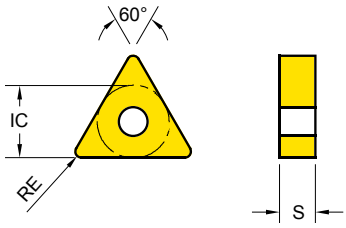
EDP 2200.. ● : Stock item ○ : Order made item

TNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-MF	 Stainless steel Finishing	TNMG 160404 - MF	0.4	0.07 ~ 0.3	0.2 ~ 1.5										● 0824	● 0775	● 1457	○ 1343			
		TNMG 160408 - MF	0.8	0.07 ~ 0.3	0.2 ~ 1.5						○ 0963			● 2458	● 0589	● 0776	● 0825	○ 1285			
-MM	 Stainless steel Medium	TNMG 160404 - MM	0.4	0.20 ~ 0.35	0.5 ~ 3.5										● 0567	● 0568	● 1790	○ 2297			
		TNMG 160408 - MM	0.8	0.20 ~ 0.35	1.0 ~ 3.5										● 0569	● 0570	● 0913	○ 1281			
		TNMG 160412 - MM	1.2	0.20 ~ 0.35	1.5 ~ 3.5										● 0611	● 0603	● 1791	○ 1288			
-MG	 Stainless steel General	TNMG 160404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 4.0									● 2472	● 1455	● 1456	● 1219	● 1515			
		TNMG 160408 -MG	0.8	0.20 ~ 0.40	1.0 ~ 4.0									● 2473	● 1568	● 1569	● 1713	● 1660			
		TNMG 160412 - MG	1.2	0.20 ~ 0.50	2.0 ~ 4.0									● 2474	● 2104	● 2105	● 2103	● 2054			
-MR	 Stainless steel Roughing	TNMG 160408 - MR	0.8	0.30 ~ 0.55	2.0 ~ 5.5							○ 0727		● 2493	● 0826	● 0985	● 0726				
		TNMG 160412 - MR	1.2	0.30 ~ 0.55	2.0 ~ 5.5							○ 1062		● 2494	● 0995	● 0827	● 0828				

Turning Inserts - Negative

TNGG / TNMG (60˚ Triangle)

Series	IC	S
TN** 1604	9.525	4.76
TN** 2204	12.700	4.76

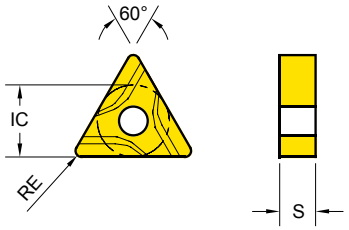


EDP 2200.. ●: Stock item ○: Order made item

TNGG TNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-SF	 Stainless steel Finishing	TNMG 160408 - SF	0.8	0.10 ~ 0.25	0.2 ~ 1.0													● 1427			
-SM	 Stainless steel Medium	TNMG 160408 - SM	0.8	0.15 ~ 0.30	0.5 ~ 3.0										○ 1575	○ 1576	○ 1577	● 1228			
		TNMG 160412 - SM	1.2	0.15 ~ 0.30	0.5 ~ 3.0										○ 1635	○ 1636	○ 1858	● 1508			
-SR	 HRSA Roughing	TNMG 160408 - SR	0.8	0.30 ~ 0.55	2.0 ~ 5.5													● 1307			
		TNMG 160412 - SR	1.2	0.30 ~ 0.55	2.0 ~ 5.5													● 1306			
NEW -PSF	 Cermet Finishing	TNMG 160404 - PSF	0.4	0.07 ~ 0.30	0.4 ~ 2.5														● 2535		
		TNMG 160408 - PSF	0.8	0.10 ~ 0.30	0.6 ~ 2.5														● 2536		
NEW - C	 Cermet Medium Left Hand Shown	TNGG 160402L - C	0.2	0.20 ~ 0.40	0.3 ~ 3.5														○ 2524		
		TNGG 160404L - C	0.4	0.20 ~ 0.40	0.5 ~ 3.5														○ 2526		
		TNGG 160408L - C	0.8	0.20 ~ 0.40	1.0 ~ 3.5														○ 2528		
NEW - C	 Cermet Medium Right Hand Shown	TNGG 160402R - C	0.2	0.20 ~ 0.40	0.3 ~ 3.5														○ 2525		
		TNGG 160404R - C	0.4	0.20 ~ 0.40	0.5 ~ 3.5														○ 2527		
		TNGG 160408R - C	0.8	0.20 ~ 0.40	1.0 ~ 3.5														○ 2529		

Turning Inserts - Negative

TNUX (60° Triangle)



Series	IC	S
TN** 1604	9.525	4.76

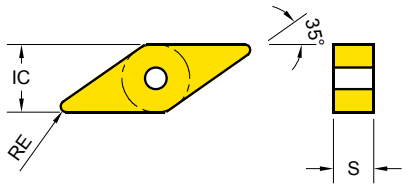
EDP 2200.. ●: Stock item ○: Order made item

TNUX		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..UX	 Left Hand Shown	TNUX 160404 L	0.4	0.10 ~ 0.30	0.5 ~ 4.0			○ 0412		● 2425	● 0413	● 1264	○ 0043								
		TNUX 160408 L	0.8	0.10 ~ 0.40	1.0 ~ 5.0			○ 0414		● 2198	● 0415	● 0675	○ 0045		○ 0731						
..UX	 Right Hand Shown	TNUX 160404 R	0.4	0.10 ~ 0.30	0.5 ~ 4.0			○ 0288		● 2390	● 0289	● 0290	● 0044								
		TNUX 160408 R	0.8	0.10 ~ 0.40	1.0 ~ 5.0			○ 0291		● 2354	● 0292	● 0293	● 0046								

Turning Inserts - Negative

VNMA / VNMG (35° Rhombic)

Series	IC	S
VN** 1604	9.525	4.76



EDP 2200.. ●: Stock item ○: Order made item

VNMA VNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..MA	 Cast iron	VNMA 160408	0.8	0.15 ~ 0.40	1.0 ~ 5.0	● 1573	○ 0162	○ 1275													
-UF	 Finishing	VNMG 160404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.5			○ 0306		● 2205	● 0307	● 0308	○ 0049								
		VNMG 160408 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.5			○ 0309		● 2207	● 0310	● 0311									
-UL	 Light Machining and Sticky Material	VNMG 160404 - UL	0.4	0.10 ~ 0.30	0.5 ~ 3.0			○ 0886		● 2412	● 0912	● 0723									
		VNMG 160408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 3.0			○ 0428	○ 0790	● 2202	● 0429	● 0853									
		VNMG160412 - UL	1.2	0.10 ~ 0.30	1.5 ~ 3.0					● 2431											
-UM	 Medium Machining Unstable condition	VNMG 160408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 3.0		○ 1357	○ 1359		● 2424	● 1361	● 1362									
		VNMG 160412 - UM	1.2	0.15 ~ 0.30	1.5 ~ 3.0		○ 1230	○ 0736	○ 0870	● 2701	● 0737	● 1214									
-UG	 Medium Machining at stable condition	VNMG 160404 - UG	0.4	0.20 ~ 0.40	0.5 ~ 3.0	● 1648	○ 1331	○ 0993		● 2420	● 0940	● 0994									
		VNMG 160408 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	● 1000	○ 0462	○ 0312		● 2176	● 0313	● 0314	○ 0050								
		VNMG 160412 - UG	1.2	0.20 ~ 0.40	1.5 ~ 3.0	● 1659	○ 1345	○ 0931		● 2407	● 0927	● 0917									
-UC	 Cast iron and Medium roughing	VNMG 160404 - UC	0.4	0.20 ~ 0.40	0.5 ~ 3.5	● 1612	○ 0885	○ 0423		● 2366	● 1276	● 1277									
		VNMG 160408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 3.5	● 0980	○ 0094	○ 0424		● 2210	● 0425	● 0426									
		VNMG 160412 - UC	1.2	0.20 ~ 0.40	1.5 ~ 3.5	● 1587	○ 1381	○ 1392		● 2700	● 1382	● 1384									
-UR	 Roughing	VNMG 160412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	● 1638	○ 1231	○ 0430	○ 0871	● 2380	● 0431	● 0432	○ 0051								

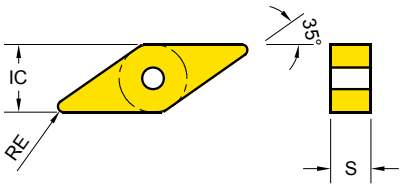
Click for Overview

YG TURN

Turning Inserts - Negative

VNMG (35° Rhombic)

Series	IC	S
VN** 1604	9.525	4.76



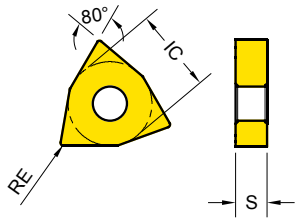
EDP 2200..

● : Stock item ○ : Order made item

VNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
					YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-MF  Stainless steel Finishing	VNMG 160404 - MF	0.4	0.07 ~ 0.30	0.2 ~ 1.5										● 0782	● 1019	● 2267	○ 2019			
	VNMG 160408 - MF	0.8	0.07 ~ 0.30	0.2 ~ 1.5							○ 0830		● 2464	● 0829	● 0947	● 2283	○ 2099			
-MM  Stainless steel Medium	VNMG 160404 - MM	0.4	0.20 ~ 0.35	0.5 ~ 3.5										● 0661	● 0662	● 1792	○ 2298			
	VNMG 160408 - MM	0.8	0.20 ~ 0.35	1.0 ~ 3.5										● 0663	● 0664	● 1793	○ 2299			
-MG  Stainless steel Genera	VNMG 160404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 4.0									● 2489							
	VNMG 160408 - MG	0.8	0.20 ~ 0.40	1.0 ~ 4.0									● 2490							
	VNMG 160412 - MG	1.2	0.20 ~ 0.40	1.5 ~ 4.0									● 2491							
-MR  Stainless stee Roughing	VNMG 160408 - MR	0.8	0.30 ~ 0.55	2.0 ~ 5.5							○ 0832		● 2500	● 1020	● 0831	● 2304				
-SR  HRSA Medium	VNMG 160408 - SR	0.8	0.30 ~ 0.55	2.0 ~ 5.5													● 1449			
NEW -PSF  Cermet Finishing	VNMG 160404 - PSF	0.4	0.07 ~ 0.30	0.3 ~ 2.0														● 2537		
	VNMG 160408 - PSF	0.8	0.10 ~ 0.30	0.5 ~ 2.0														● 2538		

Turning Inserts - Negative

WNMA / WNMG (80° Trigon)



Series	IC	S
WN** 0604	9.525	4.76
WN** 0804	12.700	4.76

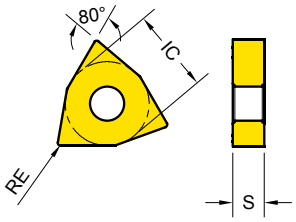
EDP 2200.. ●: Stock item ○: Order made item

WNMA WNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
..MA	 Cast iron	WNMA 080404	0.4	0.15 ~ 0.50	0.5 ~ 5.0	● 0903	○ 0052	○ 1262													
		WNMA 080408	0.8	0.15 ~ 0.50	1.0 ~ 5.0	● 0904	○ 0053	○ 0433													
		WNMA 080412	1.2	0.15 ~ 0.50	1.5 ~ 5.0	● 0905	○ 0054	○ 0434													
-UF	 Finishing	WNMG 060404 - UF	0.4	0.05 ~ 0.20	0.5 ~ 2.0			○ 0435		● 2415	● 0436	● 0437	○ 0058								
		WNMG 080404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.5			○ 0315		● 2389	● 0316	● 0317	○ 0055								
		WNMG 080408 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.5			○ 0321		● 2173	● 0322	● 0323									
		WNMG 080412 - UF	1.2	0.05 ~ 0.25	1.5 ~ 2.5			○ 1424		● 2708	● 1410	● 1411									
-UL	 Light Machining and Sticky Material	WNMG 060408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 2.5			○ 0439		● 2588	● 0440	● 0441									
		WNMG 080404 - UL	0.4	0.10 ~ 0.30	0.5 ~ 3.0			○ 1431		● 2703	● 1434	● 1438									
		WNMG 080408 - UL	0.8	0.10 ~ 0.30	1.0 ~ 3.0			○ 0324		● 2177	● 0325	● 0326									
		WNMG 080412 - UL	1.2	0.10 ~ 0.30	1.5 ~ 3.0					● 2448	● 1435										
-UM	 Medium Machining Unstable condition	WNMG 060404 - UM	0.4	0.15 ~ 0.30	0.5 ~ 2.5	○ 2106	○ 1259	○ 0741		● 2418	● 0785	● 0742									
		WNMG 060408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 2.5	○ 1554	○ 1260	○ 0600		● 2402	● 0601	● 1271									
		WNMG 080404 - UM	0.4	0.15 ~ 0.30	0.5 ~ 3.0		○ 1313	○ 0786		● 2704	● 0787	● 0788									
		WNMG 080408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 3.0		○ 0470	○ 0327	○ 0761	● 2170	● 0328	● 0329									
		WNMG 080412 - UM	1.2	0.15 ~ 0.30	1.5 ~ 3.0		○ 1210	○ 0649	○ 0762	● 2417	● 0598	● 0712									
		WNMG 080416 - UM	1.6	0.15 ~ 0.30	2.0 ~ 3.0		○ 1234	○ 0593	○ 0763	● 2574	● 0584	● 0713									

Turning Inserts - Negative

WNMG (80° Trigon)

Series	IC	S
WN** 0604	9.525	4.76
WN** 0804	12.700	4.76

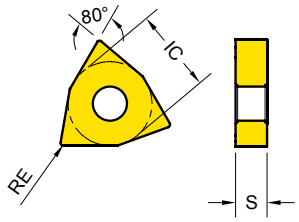


EDP 2200.. ●: Stock item ○: Order made item

WNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-UG	 Medium Machining at stable condition	WNMG 060408 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	● 1649	○ 0697	○ 1047		● 2428	● 0438	● 0874	○ 0059								
		WNMG 080404 - UG	0.4	0.20 ~ 0.40	0.5 ~ 3.0	● 1580	○ 1232	○ 0318		● 2392	● 0319	● 0320									
		WNMG 080408 - UG	0.8	0.20 ~ 0.40	1.0 ~ 3.0	● 0908	○ 0463	○ 0147	○ 0582	● 2194	● 0148	● 0149	○ 0056								
		WNMG 080412 - UG	1.2	0.20 ~ 0.40	1.5 ~ 3.0	● 0910	○ 0466	○ 0503	○ 0648	● 2167	● 0490	● 0941									
		WNMG 080416 - UG	1.6	0.20 ~ 0.40	2.0 ~ 4.0	● 1643	○ 1233	○ 1056	○ 0764	● 2575	● 0583	● 1238									
-PWM	 Wiper-Medium	WNMG 080408 - PWM	0.8	0.10 ~ 0.50	0.8 ~ 3.5					● 2706											
-UC	 Cast iron and Medium roughing	WNMG 060408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 3.0	● 1444	○ 0095	○ 0875		● 2421	● 0876	● 0724									
		WNMG 080404 - UC	0.4	0.20 ~ 0.40	0.5 ~ 4.0	● 0906	○ 0097	○ 0133		● 2367	● 0110	● 0134									
		WNMG 080408 - UC	0.8	0.20 ~ 0.40	1.0 ~ 4.0	● 0907	○ 0077	○ 0135	○ 0733	● 2186	● 0111	● 0136									
		WNMG 080412 - UC	1.2	0.20 ~ 0.40	1.5 ~ 4.0	● 0909	○ 0078	○ 0137	○ 0630	● 2168	● 0112	● 0138									
		WNMG 080416 - UC	1.6	0.20 ~ 0.40	2.0 ~ 4.0	● 1187	○ 1055	○ 1235		● 2709	● 1236	● 0743									
-UR	 Roughing	WNMG 060412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 4.0	● 1317	○ 1066	○ 1057		● 2702	● 1058	● 1060									
		WNMG 080408 - UR	0.8	0.30 ~ 0.50	1.0 ~ 5.0	● 1613	○ 0464	○ 0465		● 2353	● 0471	● 0472									
		WNMG 080412 - UR	1.2	0.30 ~ 0.50	1.5 ~ 5.0	● 1614	○ 0467	○ 0442	○ 0631	● 2184	● 0443	● 0444	○ 0057								
		WNMG 080416 - UR	1.6	0.30 ~ 0.50	2.0 ~ 5.0	● 1637	○ 0468	○ 0469	○ 0889	● 2359	● 0725	● 0714									
-KR	 Cast Iron Heavy Roughing	WNMG 080408 - KR	0.8	0.30 ~ 0.60	1.0 ~ 5.0	● 0932	○ 0720	○ 1038		● 2705											
		WNMG 080412 - KR	1.2	0.30 ~ 0.60	1.5 ~ 5.0	● 0933	○ 0522	○ 0542		● 2707											

Turning Inserts - Negative

WNMG (80° Trigon)



Series	IC	S
WN** 0604	9.525	4.76
WN** 0804	12.700	4.76

EDP 2200.. ●: Stock item ○: Order made item

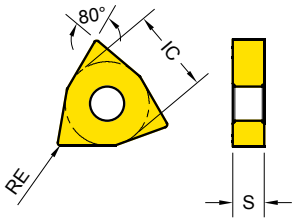
WNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-MF	 Stainless steel Finishing	WNMG 060404 - MF	0.4	0.07 ~ 0.30	0.2 ~ 1.5			○ 0833				○ 0996		● 2461	● 1215	● 1217	● 2284	○ 2279			
		WNMG 060408 - MF	0.8	0.07 ~ 0.30	0.2 ~ 1.5										● 1216	● 1218	● 2285	○ 2280			
		WNMG 080404 - MF	0.4	0.07 ~ 0.30	0.2 ~ 1.5							○ 0834		● 2462	● 0667	● 0668	● 0970	○ 2281			
		WNMG 080408 - MF	0.8	0.07 ~ 0.30	0.2 ~ 1.5							○ 1098		● 2463	● 0617	● 0618	● 2268	○ 2282			
-MM	 Stainless steel Medium	WNMG 080404 - MM	0.4	0.20 ~ 0.35	0.5 ~ 3.5										● 0571	● 0572	● 2300	○ 2301			
		WNMG 080408 - MM	0.8	0.20 ~ 0.35	1.0 ~ 3.5							○ 0491			● 0497	● 0498	● 0633	○ 2302			
		WNMG 080412 - MM	1.2	0.20 ~ 0.35	1.5 ~ 3.5										● 0612	● 0615	● 1926	○ 2303			
-MG	 Stainless steel General	WNMG 060404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 3.0									● 2487							
		WNMG 060408 - MG	0.8	0.20 ~ 0.40	1.0 ~ 3.0									● 2476							
		WNMG 060412 - MG	1.2	0.20 ~ 0.40	1.5 ~ 3.0									● 2477							
		WNMG 080404 - MG	0.4	0.20 ~ 0.40	0.5 ~ 4.0									● 2488							
		WNMG 080408 - MG	0.8	0.20 ~ 0.40	1.0 ~ 4.0									● 2478	● 1496	● 1497	● 1160	● 1498			
		WNMG 080412 - MG	1.2	0.20 ~ 0.40	1.5 ~ 4.0									● 2479	● 1499	● 1500	● 1161	● 1501			
-MR	 Stainless steel Roughing	WNMG 060412 - MR	1.2	0.30 ~ 0.55	1.2 ~ 4.0							○ 1154		● 2498	● 0616	● 1787	● 1896				
		WNMG 080408 - MR	0.8	0.30 ~ 0.55	2.0 ~ 5.5							○ 1099		● 2499	● 0619	● 0620	● 0835				
		WNMG 080412 - MR	1.2	0.30 ~ 0.55	2.0 ~ 5.5							○ 0837		● 2482	● 0665	● 0666	● 0836				

Click for Overview

YG TURN

Turning Inserts - Negative

WNGG / WNMG (80° Trigon)



Series	IC	S
WN** 0604	9.525	4.76
WN** 0804	12.700	4.76

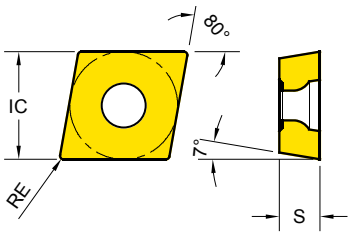
EDP 2200..

● : Stock item ○ : Order made item

WNGG WNMG		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-SF	 HRSA Finishing	WNGG 080408 - SF	0.8	0.10 ~ 0.25	0.2 ~ 1.0													● 1308			
-SM	 HRSA Medium	WNMG 080408 - SM	0.8	0.15 ~ 0.30	0.5 ~ 3.0										○ 1199	○ 1206	○ 1859	● 1311			
		WNMG 080412 - SM	1.2	0.15 ~ 0.30	0.5 ~ 3.0										○ 1374	○ 1416	○ 1860	● 1312			
-SR	 HRSA Roughing	WNMG 060412 - SR	1.2	0.30 ~ 0.55	1.2 ~ 4.0													● 1439			
		WNMG 080408 - SR	0.8	0.30 ~ 0.55	2.0 ~ 5.5													● 1310			
		WNMG 080412 - SR	1.2	0.30 ~ 0.55	2.0 ~ 5.5													● 1309			
NEW -PSF	 Cermet Finishing	WNMG 080404 - PSF	0.4	0.07 ~ 0.30	0.4 ~ 2.5														● 2539		
		WNMG 080408 - PSF	0.8	0.10 ~ 0.30	0.6 ~ 2.5														● 2540		

Turning Inserts - Positive

CCGT / CCMT (80° Rhombic)



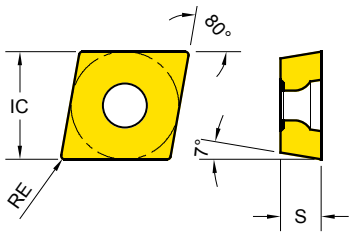
Series	IC	S
CC** 0602	6.350	2.38
CC** 09T3	9.525	3.97
CC** 1204	12.700	4.76

EDP 2200.. ●: Stock item ○: Order made item

CCGT CCMT		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-AL	 Aluminum	CCGT 060202 - AL	0.2	0.01 ~ 0.12	0.05 ~ 3.0																● 1398
		CCGT 060204 - AL	0.4	0.02 ~ 0.15	0.10 ~ 3.0															● 1278	● 1320
		CCGT 09T302 - AL	0.2	0.02 ~ 0.20	0.05 ~ 3.0															● 0340	● 0339
		CCGT 09T304 - AL	0.4	0.02 ~ 0.30	0.10 ~ 5.0															● 0330	● 0081
		CCGT 09T308 - AL	0.8	0.03 ~ 0.50	0.10 ~ 5.0															● 0331	● 0082
		CCGT 120402 - AL	0.2	0.02 ~ 0.30	0.05 ~ 4.0															● 0474	● 0473
		CCGT 120404 - AL	0.4	0.03 ~ 0.50	0.10 ~ 5.0															● 0476	● 0475
		CCGT 120408 - AL	0.8	0.04 ~ 0.80	0.10 ~ 5.5															● 0478	● 0477
-UF	 Finishing	CCMT 060204 - UF	0.4	0.05 ~ 0.20	0.5 ~ 2.0			○ 0163	○ 0866	● 2365	● 0164	● 0165									
		CCMT 09T304 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.0			○ 0169		● 2371	● 0170	● 0171									
		CCMT 09T308 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.0			○ 0964		● 2578	● 0951	● 0953									
		CCMT 120404 - UF	0.4	0.10 ~ 0.25	1.0 ~ 5.0					● 2579	● 1347	● 1337									
-UG	 General	CCMT 060204 - UG	0.4	0.10 ~ 0.25	0.5 ~ 2.0	● 1377		○ 0166		● 2357	● 0167	● 0168	○ 0006				○ 1900				
		CCMT 060208 - UG	0.8	0.10 ~ 0.25	0.8 ~ 2.0	● 1825		○ 0479		● 2378	● 0683	● 0684	○ 0009				○ 1901				
		CCMT 09T304 - UG	0.4	0.15 ~ 0.30	0.5 ~ 2.5	● 1844		○ 0172		● 2206	● 0173	● 0174	○ 0007				○ 1586				
		CCMT 09T308 - UG	0.8	0.15 ~ 0.30	0.8 ~ 2.5	● 1553	○ 0445	○ 0150		● 2180	● 0151	● 0152	○ 0008		○ 1908		○ 1902				
		CCMT 120404 - UG	0.4	0.15 ~ 0.35	0.5 ~ 3.0	● 1845		○ 0175		● 2399	● 0176	● 0177									
		CCMT 120408 - UG	0.8	0.15 ~ 0.35	0.8 ~ 3.0	● 1462		○ 0153	○ 0867	● 2183	● 0154	● 0155	○ 0005				○ 1125				
		CCMT 120412 - UG	1.2	0.15 ~ 0.35	1.2 ~ 3.0	● 1846		○ 0483		● 2580	● 0915	● 1135					○ 1126				

Turning Inserts - Positive

CCGT / CCMT (80° Rhombic)



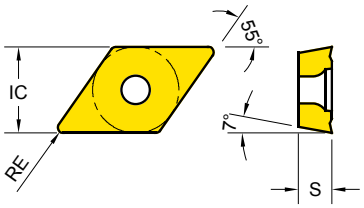
Series	IC	S
CC** 0602	6.350	2.38
CC** 09T3	9.525	3.97
CC** 1204	12.700	4.76

EDP 2200.. ●: Stock item ○: Order made item

CCGT CCMT		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
NEW -SF	 HRSA Finishing	CCGT 060201 - SF	0.1	0.02 ~ 0.15	0.10 ~ 1.5												● 2341	● 2065			
		CCGT 060202 - SF	0.2	0.02 ~ 0.15	0.10 ~ 1.5												● 2080	● 2066			
		CCGT 060204 - SF	0.4	0.03 ~ 0.20	0.10 ~ 2.4												● 2086	● 2067			
		CCGT 09T301 - SF	0.1	0.02 ~ 0.15	0.10 ~ 2.5												● 2339	● 2071			
		CCGT 09T302 - SF	0.2	0.02 ~ 0.15	0.10 ~ 2.5												● 2340	● 2072			
		CCGT 09T304 - SF	0.4	0.03 ~ 0.20	0.10 ~ 2.5												● 2093	● 2073			
		CCGT 09T308 - SF	0.8	0.03 ~ 0.25	0.10 ~ 2.5												● 2096	● 2074			
NEW -MF	 Stainless steel Finishing	CCMT 060208 - MF	0.8	0.05 ~ 0.20	0.08 ~ 2.0										● 2352	● 2439	● 2440	● 2351			
		CCMT 09T302 - MF	0.2	0.04 ~ 0.15	0.08 ~ 2.0									● 2501	● 2002	● 2003	● 2004	● 2028			
		CCMT 09T304 - MF	0.4	0.06 ~ 0.25	0.10 ~ 2.0									● 2502	● 1589	● 1590	● 1947	● 2029			
		CCMT 09T308 - MF	0.8	0.08 ~ 0.30	0.15 ~ 2.0									● 2503	● 1957	● 1958	● 1959	● 1943			
NEW -MM	 Stainless steel Medium	CCMT 09T304 - MM	0.4	0.08 ~ 0.25	0.25 ~ 3.0									● 2514	● 1591	● 1592	● 1946	● 2039			
		CCMT 09T308 - MM	0.8	0.10 ~ 0.30	0.50 ~ 3.0									● 2515	● 1887	● 1888	● 1956	● 1944			
NEW - PF	 Cermet Finishing	CCMT 09T302 - PF	0.2	0.04 ~ 0.15	0.08 ~ 2.0														● 2541		
		CCMT 09T304 - PF	0.4	0.06 ~ 0.25	0.10 ~ 2.0														● 2542		
		CCMT 09T308 - PF	0.8	0.08 ~ 0.30	0.15 ~ 2.0														● 2543		
NEW -PM	 Cermet Medium	CCMT 09T304 - PM	0.4	0.08 ~ 0.25	0.25 ~ 3.0														● 2554		
		CCMT 09T308 - PM	0.8	0.10 ~ 0.30	0.50 ~ 3.0														● 2555		

Turning Inserts - Positive

DCGT / DCMT (55° Rhombic)



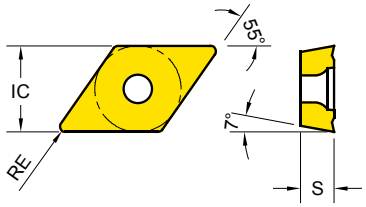
Series	IC	S
DC** 0702	6.350	2.38
DC** 11T3	9.525	3.97

EDP 2200.. ●: Stock item ○: Order made item

DCGT DCMT		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-AL	 Aluminum	DCGT 070202 - AL	0.2	0.01 ~ 0.20	0.05 ~ 3.0																● 1399
		DCGT 070204 - AL	0.4	0.02 ~ 0.30	0.10 ~ 4.0																● 1400
		DCGT 11T301 - AL	0.1	0.01 ~ 0.30	0.05 ~ 4.0															● 2101	● 2100
		DCGT 11T302 - AL	0.2	0.02 ~ 0.30	0.05 ~ 4.0															● 0342	● 0341
		DCGT 11T304 - AL	0.4	0.03 ~ 0.50	0.10 ~ 5.0															● 0332	● 0083
		DCGT 11T308 - AL	0.8	0.03 ~ 0.50	1.00 ~ 5.0															● 0333	● 0084
-UF	 Finishing	DCMT 070204 - UF	0.4	0.05 ~ 0.20	0.50 ~ 2.0			○ 0207		● 2397	● 0208	● 0209			○ 1909		○ 1903				
		DCMT 11T304 - UF	0.4	0.05 ~ 0.25	0.50 ~ 2.0			○ 0213		● 2208	● 0214	● 0215			○ 1044	○ 1043	○ 1910				
		DCMT 11T308 - UF	0.8	0.05 ~ 0.25	1.00 ~ 2.0	● 2053		○ 0219		● 1897	● 0220	● 0221									
-UG	 General	DCMT 070204 - UG	0.4	0.10 ~ 0.25	0.50 ~ 2.0	● 1849		○ 0210		● 2391	● 0211	● 0212	○ 0013								
		DCMT 070208 - UG	0.8	0.10 ~ 0.25	0.80 ~ 2.0	● 1850		○ 0484		● 2386	● 0717	● 1136									
		DCMT 11T304 - UG	0.4	0.15 ~ 0.30	0.50 ~ 2.5	● 1831	○ 0677	○ 0216		● 2209	● 0217	● 0218	○ 0014			○ 1520	○ 1522	○ 1521			
		DCMT 11T308 - UG	0.8	0.15 ~ 0.30	0.80 ~ 2.5	● 1832	○ 0678	○ 0222		● 2215	● 0223	● 0224	○ 0015								
		DCMT 11T312 - UG	1.2	0.15 ~ 0.35	1.50 ~ 3.0					● 2605	● 2056										

Turning Inserts - Positive

DCGT / DCMT (55° Rhombic)



Series	IC	S
DC** 0702	6.350	2.38
DC** 11T3	9.525	3.97

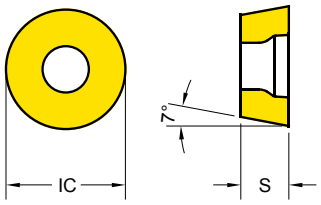
EDP 2200..

● : Stock item ○ : Order made item

DCGT DCMT		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
		DCGT 070201 - SF	0.1	0.02 ~ 0.15	0.10 ~ 1.5												● 2342	● 2068			
		DCGT 070202 - SF	0.2	0.02 ~ 0.15	0.10 ~ 1.5												● 2343	● 2069			
NEW -SF	 HRSA Finishing	DCGT 070204 - SF	0.4	0.03 ~ 0.20	0.10 ~ 1.5											○ 2338	● 2344	● 2070			
		DCGT 11T301 - SF	0.1	0.01 ~ 0.05	0.10 ~ 2.5												● 2345	● 2075			
		DCGT 11T302 - SF	0.2	0.02 ~ 0.15	0.10 ~ 2.5										○ 0559	○ 0560	● 1478	● 1474			
		DCGT 11T304 - SF	0.4	0.03 ~ 0.20	0.10 ~ 2.5										○ 1460	○ 1473	● 1479	● 1463			
		DCGT 11T308 - SF	0.8	0.03 ~ 0.20	0.10 ~ 2.5												● 2346	● 2076			
		DCMT 070204 - MF	0.4	0.05 ~ 0.17	0.08 ~ 1.5									● 2504	● 1978	● 1979	● 1980	● 2030			
		DCMT 11T302 - MF	0.2	0.04 ~ 0.15	0.08 ~ 2.0									● 2505	● 2005	● 2006	● 2007	● 2031			
NEW -MF	 Stainless steel Finishing	DCMT 11T304 - MF	0.4	0.06 ~ 0.25	0.10 ~ 2.0									● 2506	● 1885	● 1886	● 1927	● 2032			
		DCMT 11T308 - MF	0.8	0.07 ~ 0.20	0.15 ~ 2.0									● 2507	● 1963	● 1964	● 1965	● 2033			
		DCMT 070204 - MM	0.4	0.08 ~ 0.30	0.20 ~ 2.3									● 2516	● 1999	● 2000	● 2001	● 2040			
		DCMT 070208 - MM	0.8	0.08 ~ 0.25	0.50 ~ 1.5						○ 1868										
NEW -MM	 Stainless steel Medium	DCMT 11T304 - MM	0.4	0.06 ~ 0.17	0.25 ~ 3.0									● 2517	● 1990	● 1991	● 1992	● 2041			
		DCMT 11T308 - MM	0.8	0.08 ~ 0.25	0.50 ~ 3.0									● 2518	● 1984	● 1985	● 1986	● 2042			
		DCMT 070204 - PF	0.4	0.05 ~ 0.17	0.08 ~ 1.5														● 2544		
		DCMT 11T302 - PF	0.2	0.04 ~ 0.15	0.08 ~ 2.0														● 2545		
NEW - PF	 Cermet Finishing	DCMT 11T304 - PF	0.4	0.06 ~ 0.25	0.10 ~ 2.0														● 2546		
		DCMT 11T308 - PF	0.8	0.07 ~ 0.20	0.15 ~ 2.0														● 2547		
		DCMT 070204 - PM	0.4	0.08 ~ 0.30	0.20 ~ 2.3														● 2556		
		DCMT 11T304 - PM	0.4	0.06 ~ 0.17	0.25 ~ 3.0														● 2557		
NEW -PM	 Cermet Medium	DCMT 11T308 - PM	0.8	0.08 ~ 0.25	0.50 ~ 3.0														● 2558		

Turning Inserts - Positive

RCMT (Round)



Series	IC	S
RC** 0602	6	2.38
RC** 0803	8	3.18
RC** 10T3	10	3.97
RC** 1204	12	4.76

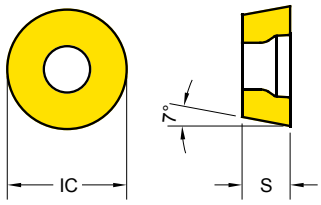
EDP 2200..

●: Stock item ○: Order made item

RCMT	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
					YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
 General	RCMT 0602M0	3.0	0.05 ~ 0.25	0.2 ~ 1.2	● 2057	○ 0374	○ 0375		● 2624	● 0376	● 1151	○ 0023								
	RCMT 0803M0	4.0	0.05 ~ 0.30	0.5 ~ 1.5	● 2058	○ 0377	○ 0378		● 2625	● 0379	● 1152	○ 0024								
	RCMT 10T3M0	5.0	0.10 ~ 0.35	0.5 ~ 2.5	● 2059	○ 0380	○ 0381		● 2626	● 0382	● 1153	○ 0021								
	RCMT 1204M0	6.0	0.15 ~ 0.45	0.5 ~ 3.0	● 1833	○ 0383	○ 0384		● 2627	● 0385	● 1170	○ 0022								

Turning Inserts - Positive

RCMX - Heavy Turning (Round)



Series	IC	S
RC** 1606	16	6.35
RC** 2006	20	6.35

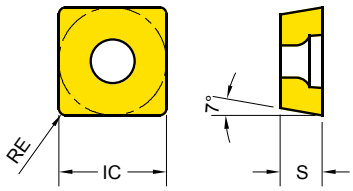
EDP 2200..

● : Stock item ○ : Order made item

RCMX	Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
					YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
NEW -UT  Heavy Roughing	RCMX 1606M0 - UT	8.0	0.30 ~ 0.80	1.0 ~ 7.0	● 2441															
	RCMX 2006M0 - UT	10.0	0.5 ~ 1.3	1.5 ~ 9.0					● 2169											

Turning Inserts - Positive

SCGT / SCMT (Square)



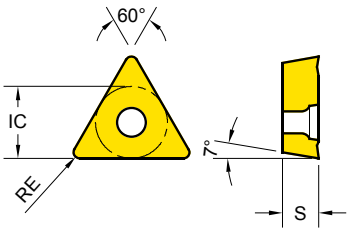
Series	IC	S
SC** 09T3	9.525	3.97
SC** 1204	12.700	4.76

EDP 2200.. ●: Stock item ○: Order made item

SCGT SCMT		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-AL	 Aluminium	SCGT 09T304 - AL	0.4	0.03 ~ 0.40	0.1 ~ 5.0																● 1516
		SCGT 09T308 - AL	0.8	0.04 ~ 0.40	0.1 ~ 5.0																● 1517
-UF	 Finishing	SCMT 09T304 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.0			○ 0386		● 2628	● 0387	● 0783									
		SCMT 09T308 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.0	● 2083		○ 1021		● 2629	● 1022	● 0997									
-UG	 General	SCMT 09T304 - UG	0.4	0.15 ~ 0.30	0.5 ~ 2.5	● 1834	○ 0455	○ 0482		● 2414	● 0916	● 1171	○ 0025								
		SCMT 09T308 - UG	0.8	0.15 ~ 0.30	0.8 ~ 2.5	● 1835	○ 0456	○ 0159		● 2383	● 0160	● 0161	○ 0026				○ 1904				
		SCMT 120408 - UG	0.8	0.15 ~ 0.35	0.8 ~ 3.0	● 1836	○ 0674	○ 0255		● 2393	● 0256	● 0257					○ 1911				
		SCMT 120412 - UG	1.2	0.15 ~ 0.35	1.5 ~ 3.0	● 2098															
NEW -MF	 Stainless steel Finishing	SCMT 09T308 - MF	0.8	0.09 ~ 0.35	0.3 ~ 2.0													● 2564			
NEW -MM	 Stainless steel Medium	SCMT 120408 - MM	0.8	0.10 ~ 0.30	0.6 ~ 4.0									● 2519	● 1973	● 1974	● 1975	● 1976			
NEW -PM	 Cermet Medium	SCMT 120408 - PM	0.8	0.10 ~ 0.30	0.6 ~ 4.0														● 2530		

Turning Inserts - Positive

TCGT / TCMT (Triangle)



Series	IC	S
TC** 1102	6.350	2.38
TC** 16T3	9.525	3.97

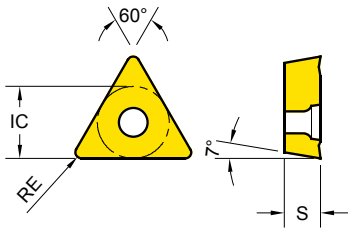
EDP 2200..

● : Stock item ○ : Order made item

TCGT TCMT		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
-AL	 Aluminum	TCGT 110204 - AL	0.4	0.03 ~ 0.30	0.10 ~ 4.0																● 1333
		TCGT 16T302 - AL	0.2	0.02 ~ 0.30	0.05 ~ 5.0															● 0344	● 0343
		TCGT 16T304 - AL	0.4	0.03 ~ 0.40	0.10 ~ 5.5															● 0334	● 0085
		TCGT 16T308 - AL	0.8	0.03 ~ 0.50	0.10 ~ 5.5															● 0335	● 0086
-UF	 Finishing	TCMT 110204 - UF	0.4	0.05 ~ 0.20	0.5 ~ 2.0			○ 0395		● 2384	● 0396	● 1196			○ 1033	○ 1034	○ 1645				
		TCMT 16T304 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.0			○ 0397		● 2377	● 0398	● 1046	○ 0033		○ 1906		○ 1905				
		TCMT 16T308 - UF	0.8	0.05 ~ 0.25	0.8 ~ 2.0			○ 0624		● 2369	● 0625	● 1045									
-UG	 General	TCMT 110204 - UG	0.4	0.10 ~ 0.25	0.5 ~ 2.0	● 1839	○ 0728	○ 0264		● 2642	● 0265	● 0266	○ 0032								
		TCMT 110208 - UG	0.8	0.10 ~ 0.25	0.8 ~ 2.0	● 1851		○ 0485		● 2362	● 0715	● 1204									
		TCMT 16T304 - UG	0.4	0.15 ~ 0.30	0.5 ~ 2.5	● 1840	○ 0679	○ 0267		● 2379	● 0268	● 0269									
		TCMT 16T308 - UG	0.8	0.15 ~ 0.30	0.8 ~ 2.5	● 1841	○ 0457	○ 0156		● 2175	● 0157	● 0158	○ 0034				○ 1907				

Turning Inserts - Positive

TCMT (Triangle)



Series	IC	S
TC** 1102	6.350	2.38
TC** 16T3	9.525	3.97

EDP 2200.. ●: Stock item ○: Order made item

TCMT		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
NEW -MF	 Stainless steel Finishing	TCMT 110204 - MF	0.4	0.07 ~ 0.20	0.20 ~ 2.0													● 2565			
		TCMT 110208 - MF	0.8	0.07 ~ 0.20	0.30 ~ 2.0													● 2566			
		TCMT 16T304 - MF	0.4	0.06 ~ 0.25	0.10 ~ 2.0									● 2508	● 1981	● 1982	● 1983	● 2034			
		TCMT 16T308 - MF	0.8	0.08 ~ 0.30	0.15 ~ 2.0									● 2509	● 1966	● 1967	● 1968	● 2026			
NEW -MM	 Stainless steel Medium	TCMT 16T304 - MM	0.4	0.08 ~ 0.25	0.25 ~ 3.0									● 2520	● 1993	● 1994	● 1995	● 2043			
		TCMT 16T308 - MM	0.8	0.10 ~ 0.30	0.50 ~ 3.0									● 2521	● 1952	● 1953	● 1954	● 1955			
NEW -PF	 Cermet Medium	TCMT 16T304 - PF	0.4	0.06 ~ 0.25	0.10 ~ 2.0														● 2548		
		TCMT 16T308 - PF	0.8	0.08 ~ 0.30	0.15 ~ 2.0														● 2549		
NEW -PM	 Cermet Medium	TCMT 16T304 - PM	0.4	0.08 ~ 0.25	0.25 ~ 3.0														● 2559		
		TCMT 16T308 - PM	0.8	0.10 ~ 0.30	0.50 ~ 3.0														● 2560		

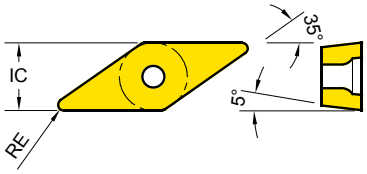
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YGTURN

Turning Inserts - Positive

VBGT / VBMT (35° Rhombic)

Series	IC	S
VB** 1103	6.350	3.18
VB** 1604	9.525	4.76



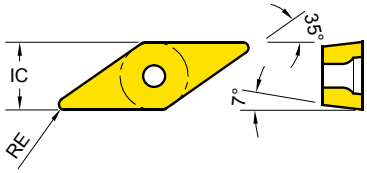
EDP 2200.. ● : Stock item ○ : Order made item

VBGT VBMT		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10	P05 K20	P10 K30	P15	P10	P20	P30	P20	M25	M15	M30	M40 S30	S10	P15 M15 K15	N20	N20
						YG1010	YG1001	YG3010	YG3015	YG3115	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YT100	YG100	YG10
NEW -SF	 HRSA Finishing	VBGT 110301 - SF	0.1	0.01 ~ 0.20	0.10 ~ 1.5												● 2432				
		VBGT 110302 - SF	0.2	0.02 ~ 0.20	0.10 ~ 1.5												● 2433				
		VBGT 110304 - SF	0.4	0.05 ~ 0.20	0.20 ~ 1.5												● 2358				
		VBGT 160404 - SF	0.4	0.05 ~ 0.20	0.20 ~ 2.0													● 2350			
-UF	 Finishing	VBMT 110304 - UF	0.4	0.04 ~ 0.16	0.10 ~ 0.8					● 2697											
		VBMT 110308 - UF	0.4	0.04 ~ 0.16	0.40 ~ 1.0					● 2698											
		VBMT 160404 - UF	0.4	0.05 ~ 0.25	0.50 ~ 2.0			○ 0294		● 2364	● 0295	● 0296									
		VBMT 160408 - UF	0.8	0.05 ~ 0.25	0.80 ~ 2.0			○ 0300		● 2216	● 0301	● 0302									
-UG	 General	VBMT 160404 - UG	0.4	0.15 ~ 0.30	0.50 ~ 2.5	● 1842	○ 0682	○ 0297		● 2181	● 0298	● 0299	○ 0047								
		VBMT 160408 - UG	0.8	0.15 ~ 0.30	0.80 ~ 2.5	● 1843	○ 0681	○ 0303		● 2211	● 0304	● 0305	○ 0048								
NEW -MF	 Stainless steel Finishing	VBMT 160402 - MF	0.2	0.04 ~ 0.15	0.10 ~ 2.0									● 2510	● 2008	● 2009	● 2010	● 2036			
		VBMT 160404 - MF	0.4	0.05 ~ 0.20	0.20 ~ 2.0									● 2511	● 1960	● 1961	● 1962	● 2037			
		VBMT 160408 - MF	0.8	0.07 ~ 0.27	0.30 ~ 2.0									● 2512	● 2011	● 2012	● 2013	● 2038			
NEW -MM	 Stainless steel Medium	VBMT 160404 - MM	0.4	0.07 ~ 0.21	0.25 ~ 2.7									● 2522	● 1996	● 1997	● 1998	● 2044			
		VBMT 160408 - MM	0.8	0.08 ~ 0.27	0.50 ~ 2.7									● 2523	● 1987	● 1988	● 1989	● 2045			
NEW -PF	 Cermet Medium	VBMT 160402 - PF	0.2	0.04 ~ 0.15	0.10 ~ 2.0														● 2550		
		VBMT 160404 - PF	0.4	0.05 ~ 0.20	0.20 ~ 2.0														● 2551		
		VBMT 160408 - PF	0.8	0.07 ~ 0.27	0.30 ~ 2.0														● 2552		
NEW -PM	 Cermet Medium	VBMT 160404 - PM	0.4	0.07 ~ 0.21	0.25 ~ 2.7														● 2561		
		VBMT 160408 - PM	0.8	0.08 ~ 0.27	0.50 ~ 2.7														● 2562		

Turning Inserts - Positive

VCGT / VCMT (35° Rhombic)

Series	IC	S
VC** 1103	6.350	3.18
VC** 1604	9.525	4.76

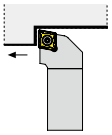
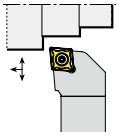
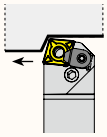
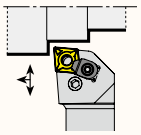
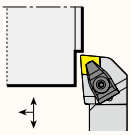
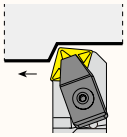
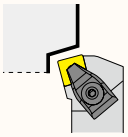
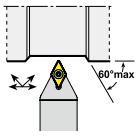
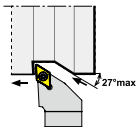
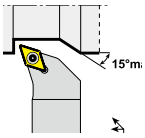
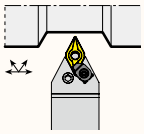
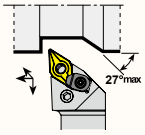
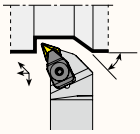
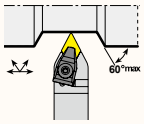
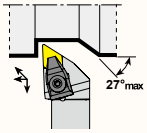
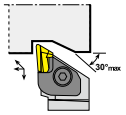
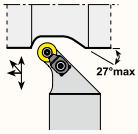
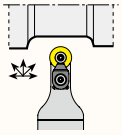
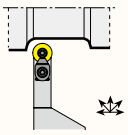
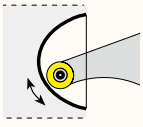
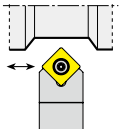
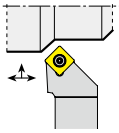


EDP 2200.. ●: Stock item ○: Order made item

VCGT VCMT		Designation	RE	Fn (mm/rev.)	Ap (mm)	K10 YG1010	P05 K20 YG1001	P10 K30 YG3010	P15 YG3015	P10 YG3115	P20 YG3020	P30 YG3030	P20 YG801	M25 YG2025	M15 YG211	M30 YG213	M40 S30 YG214	S10 YG401	P15 M15 K15 YT100	N20 YG100	N20 YG10
-AL	 Aluminum	VCGT 110301 - AL	0.1	0.02 ~ 0.15	0.05 ~ 3.0															● 2102	● 1041
		VCGT 110302 - AL	0.2	0.02 ~ 0.20	0.05 ~ 3.0															● 1353	● 1042
		VCGT 110304 - AL	0.4	0.02 ~ 0.25	0.10 ~ 4.0															● 1519	● 1518
		VCGT 160402 - AL	0.2	0.02 ~ 0.30	0.05 ~ 5.0															● 0418	● 0417
		VCGT 160404 - AL	0.4	0.03 ~ 0.40	0.10 ~ 5.0															● 0336	● 0087
		VCGT 160408 - AL	0.8	0.03 ~ 0.50	0.10 ~ 5.0															● 0420	● 0419
		VCGT 160412 - AL	1.2	0.03 ~ 0.50	0.10 ~ 5.0															● 2082	● 2081
NEW -SF	 HRSA Finishing	VCGT 110301 - SF	0.1	0.01 ~ 0.20	0.1 ~ 1.5												● 2347	● 2077			
		VCGT 110302 - SF	0.2	0.02 ~ 0.20	0.1 ~ 1.5										○ 1475	○ 1476	● 1480	● 1481			
		VCGT 110304 - SF	0.4	0.05 ~ 0.20	0.2 ~ 1.5												● 2348	● 2078			
		VCGT 110308 - SF	0.8	0.05 ~ 0.20	0.4 ~ 1.5												● 2349	● 2079			
-UF	 Finishing	VCMT 160404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 2.0			○ 0716		● 2385	● 0421	● 0955									
		VCMT 160408 - UF	0.8	0.05 ~ 0.25	1.0 ~ 2.0			○ 0557		● 2699	● 0558										
-UG	 General	VCMT 160404 - UG	0.4	0.10 ~ 0.20	0.3 ~ 2.5								○ 0060								
		VCMT 160408 - UG	0.8	0.15 ~ 0.30	0.8 ~ 2.5	● 1853		○ 0946		● 2422	● 0422	● 0956	○ 0061								
NEW -MF	 Stainless steel Finishing	VCMT 110304 - MF	0.4	0.05 ~ 0.20	0.1 ~ 1.7									● 2513	● 2014	● 2015	● 2016	● 2035			
NEW -PF	 Cermet Medium	VCMT 110304 - PF	0.4	0.05 ~ 0.20	0.1 ~ 1.7														● 2553		

External Holders Overview

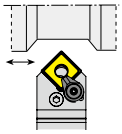
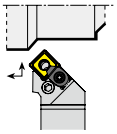
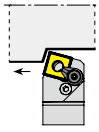
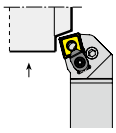
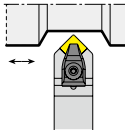
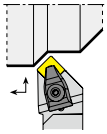
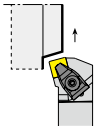
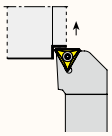
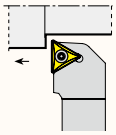
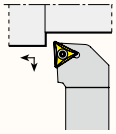
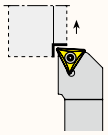
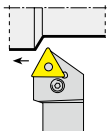
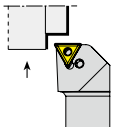
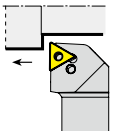
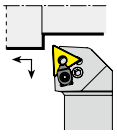
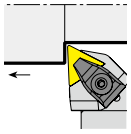
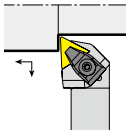
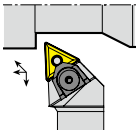
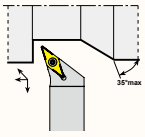
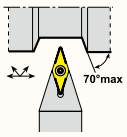
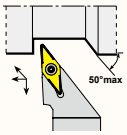
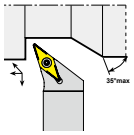
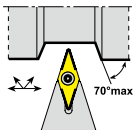
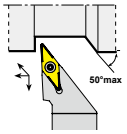
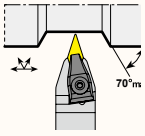
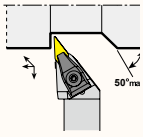
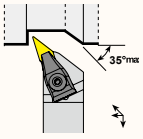
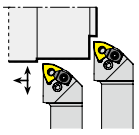
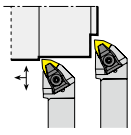
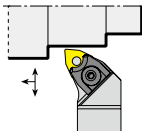
Click/Touch each page number and move to the very page!

Series		Turning Holder				
	CCGT CCMT	 SCACR/L Screw	 SCLCR/L Screw			
Page	57	86	86			
	CNMA CNMG	 PCBNR/L Lever	 PCLNR/L Lever (+Clamp)	 TCLNR/L Double Clamp	 TCBNR/L Double Clamp	 TCKNR/L Double Clamp
Page	30	72	72	77	77	77
	DCGT DCMT	 SDNCN Screw	 SDJCR/L Screw	 SDHCR/L Screw		
Page	59	87	87	87		
	DNMA DNMG	 PDNNN Lever (+Clamp)	 PDJNR/L Lever (+Clamp)	 TDHNR/L Double Clamp	 TDNNN Double Clamp	 TDJNR/L Double Clamp
Page	35	73	73	78	78	78
	KNUX	 CKJNR/L Top Clamp				
Page	41	79				
	RCMT	 SRGCR/L Screw	 SRDCN Screw	 SRDCN Screw	 SRHCN Screw	
Page	61	88	88	88	88	
	SCGT SCMT	 SSDCN Screw	 SSSCR/L Screw			
Page	63	89	89			

Turning - Holder - External

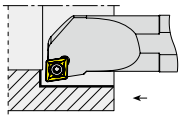
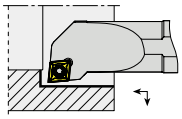
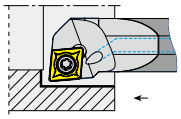
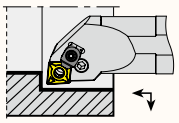
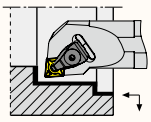
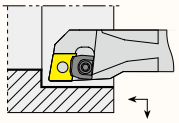
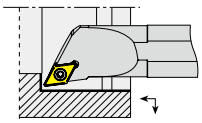
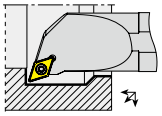
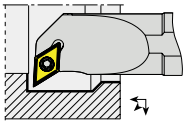
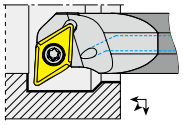
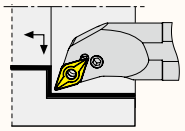
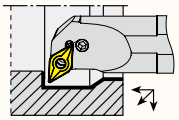
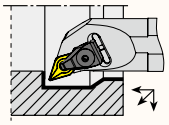
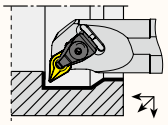
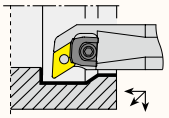
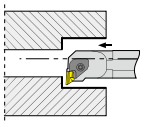
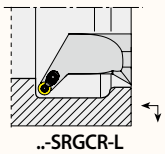
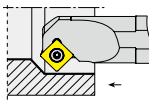
External Holders Overview

Click/Touch each page number and move to the very page!

Series		Turning Holder						
	SNMA SNMG	 PSDNN Lever (+Clamp)	 PSSNR/L Lever (+Clamp)	 PSBNR/L Lever (+Clamp)	 PSKNR/L Lever (+Clamp)	 TSDNN Double Clamp	 TSSNR/L Double Clamp	 TSKNR/L Double Clamp
Page	42	74	74	74	74	80	80	80
	TCGT TCMT	 STFCR/L Screw	 STGCR/L Screw	 STJCR/L Screw	 STUCR/L Screw			
Page	64	p. 90	p. 90	p. 90	p. 90			
	TNMA TNMG TNUX	 PTTNR/L Lever (+Clamp)	 PTFNR/L Lever (+Clamp)	 PTGNR/L Lever (+Clamp)	 PTJNR/L Lever (+Clamp)	 TTGNR/L Double Clamp	 TTJNR/L Double Clamp	 MTJNR/L Multi-Clamp
Page	47	75	75	75	75	81	81	84
	VBMT	 SVHBR/L Screw	 SVVBN Screw	 SVJBR/L Screw				
Page	66	91	91	91				
	VCGT VCMT	 SVHCR/L Screw	 SVVCN Screw	 SVJCR/L Screw				
Page	67	92	92	92				
	VNMA VNMG	 TVVNN Double Clamp	 TVJNR/L Double Clamp	 TVHNR/L Double Clamp				
Page	51	82	82	82				
	WNMA WNMG	 PWLNR/L Lever (+Clamp)	 TWLNR/L Double Clamp	 MWLNR/L Multi-Clamp				
Page	53	76	83	85				

Internal Holders Overview

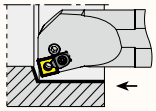
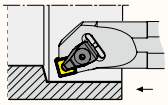
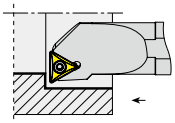
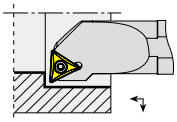
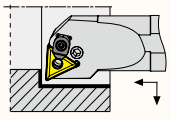
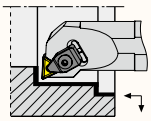
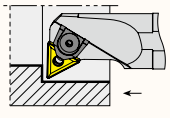
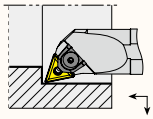
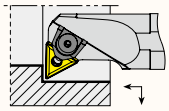
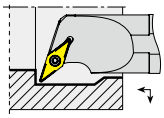
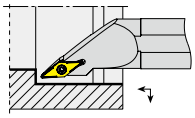
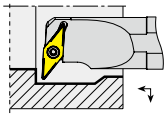
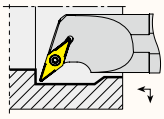
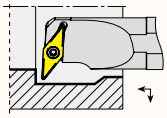
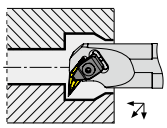
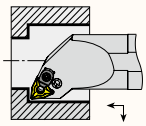
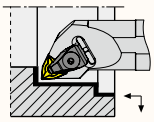
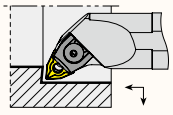
Click/Touch each page number and move to the very page!

Series		Turning Holder				
	CCGT CCMT	 ..-SCFCR/L Screw	 ..-SCLCR/L Screw	 E..-SCLCR/L Screw		
Page	57	108	109	109		
	CNMA CNMG	 ..-PCLNR/L Lever (+Clamp)	 ..-TCLNR/L Double Clamp	 ..-MCLNR/L Multi-Clamp		
Page	30	93	98	104		
	DCGT DCMT	 ..-SDPCR/L Screw	 ..-SDQCR/L Screw	 ..-SDUCR/L Screw	 E..-SDUCR/L Screw	
Page	59	110	110	111	111	
	DNMA DNMG	 ..-PDQNR/L Lever (+Clamp)	 ..-PDUNR/L Lever (+Clamp)	 ..-TDQNR/L Double Clamp	 ..-TDUNR/L Double Clamp	 ..-MDUNR/L Multi-Clamp
Page	35	94	94	99	99	104
	KNUX	 ..-CKUNR/L Top Clamp				
Page	41	107				
	RCMT	 ..-SRGCR-L Screw Type				
Page	61	112				
	SCGT SCMT	 ..-SSSCR/L Screw Type				
Page	63	113				

Turning - Holder - Internal

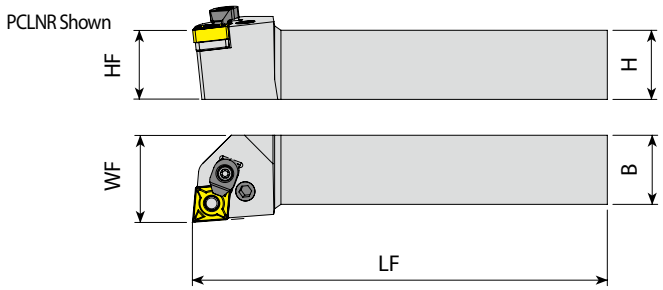
Internal Holders Overview

Click/Touch each page number and move to the very page!

Series		Turning Holder				
	SNMA SNMG	 ..-PSKNR/L Lever (+Clamp)	 ..-TSKNR/L Double Clamp			
Page	42	95	100			
	TCGT TCMT	 ..-STFCR/L Screw	 ..-STUCR/L Screw			
Page	64	114	114			
	TNMA TNMG TNUX	 ..-PTUNR/L Lever (+Clamp)	 ..-TTUNR/L Double Clamp	 ..-MTFNR/L Pin + Clamp	 ..-MTQNR/L Multi-Clamp	 ..-MTUNR/L Pin + Clamp
Page	47	96	101	105	105	105
	VBMT	 ..-SVQBR/L Screw	 ..-SVJBR/L Screw	 ..-SVUBR/L Screw		
Page	66	115	115	115		
	VCGT VCMT	 ..-SVQCR/L Screw	 ..-SVUCR/L Screw			
Page	67	116	116			
	VNMA VNMG	 ..-TVUNR/L Double Clamp				
Page	51	102				
	WNMA WNMG	 ..-PWLNR/L Lever (+Clamp)	 ..-TWLNR/L Double Clamp	 ..-MWLNR/L Multi-Clamp		
Page	53	97	103	106		

Turning - Holder - External

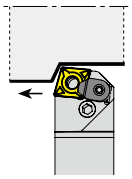
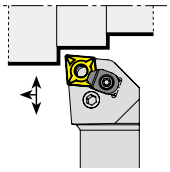
Lever Lock type for CN** Insert



* 'C' Letter at Last : Optional Clamp Included

: p. 30

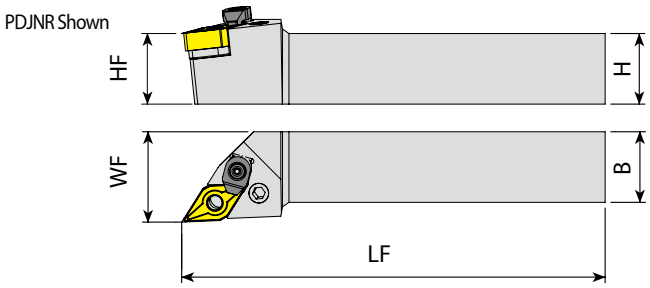
Unit:mm

Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 PCBNR/L Approach angle 75°	PCBNR/L 2020K 12C	0438	0439	20	20	17.5	125	CN1204
	PCBNR/L 2525M 12C	0440	0441	25	25	22.5	150	
	PCBNR/L 3232P 12C	0442	0443	32	32	29.5	170	
	PCBNR/L 2525M 16C	0444	0445	25	25	22.0	150	CN1606
	PCBNR/L 3232P 16C	0446	0447	32	32	27.0	170	
	PCBNR/L 3232P 19C	0448	0449	32	32	37.0	170	CN1906
	PCBNR/L 4040S 19C	0450	0451	40	40	37.0	250	
 PCLNR/L Approach angle 95°	PCLNR/L 1616-H09	0001	0002	16	16	20.0	100	CN0903
	PCLNR/L 1616H 12	0464	0465	16	16	20.0	100	CN1204
	PCLNR/L 2020K 12C	0466	0467	20	20	25.0	125	
	PCLNR/L 2525M 12C	0468	0469	25	25	32.0	150	
	PCLNR/L 3232P 12C	0470	0471	32	32	40.0	170	
	PCLNR/L 2525M 16C	0472	0473	25	25	32.0	150	CN1606
	PCLNR/L 3232P 16C	0474	0475	32	32	40.0	170	
	PCLNR/L 2525M 19C	0476	0477	25	25	32.0	150	CN1906
	PCLNR/L 3232P 19C	0478	0479	32	32	40.0	170	
	PCLNR/L 4040S 19C	0480	0481	40	40	50.0	250	

Series	Designation	Infomation	Lever	Lever Screw	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
PC..	H09	Description	YAPL-01	YALV-02-M6x17	-	-	YAACN-2-0002	YAAY-01	YAAL-02-2.5
		EDP	18000092	18000099			28000028	18000053	18000060
	..12	Description	YAPL-02	YALV-03-M8x19	-	-	YAACN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000093	18000100			18000137	18000054	18000061
	..12C	Description	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAACN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000093	18000100	18000065	18000119	18000137	18000054	18000061
	..16C	Description	YAPL-04	YALV-04-M8x22	YACK-09	YAAV-05-M6x15	YAACN-3-0002	YAAY-03	YAAL-03-3
		EDP	18000095	18000101	18000066	18000078	18000138	18000055	18000061
	..19C	Description	YAPL-05	YALV-05-M10x27	YACK-09	YAAV-05-M6x15	YAACN-3-0003	YAAY-04	YAAL-05-4
		EDP	18000096	18000102	18000066	18000078	18000139	18000056	18000062

Turning - Holder - External

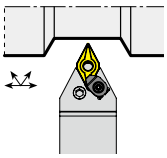
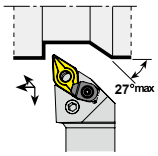
Lever Lock type for DN** Insert



* 'C' Letter at Last : Optional Clamp Included

: p. 35

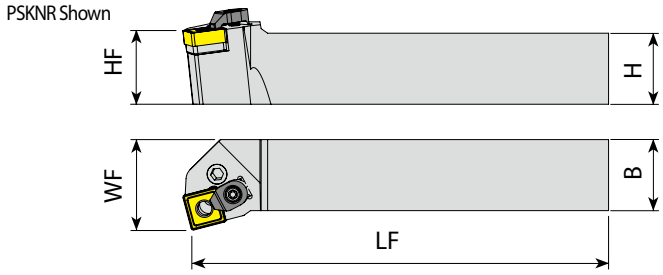
Unit:mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
	**PDNNN** Approach angle 62.5°	PDNNN 2020K 15C	0515		20	20	10.0	125	DN1506
		PDNNN 2525M 15C	0516		25	25	12.5	150	
		PDNNN 3232P 15C	0517		32	32	16.0	170	
	**PDJNR/L** Approach angle 93°	PDJNR/L 1616-H11	0031	0032	16	16	20.0	100	DN1104
		PDJNR/L 2020K 15C	0500	0501	20	20	25.0	125	DN1506
		PDJNR/L 2525M 15C	0502	0503	25	25	32.0	150	
		PDJNR/L 3232P 15C	0504	0505	32	32	40.0	170	
		PDJNR/L 4040S 15C	1734	0506	40	40	50.0	250	

Series	Designation	Infomation	Lever	Lever Screw	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
PD..	..15C	Description	YAPL-03	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAADN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000094	18000100	18000065	18000119	18000137	18000054	18000061
	..H11	Description	YAPL-01	YALV-02-M6x17	-	-	YAADN-SD317	YAAY-01	YAAL-02-2.5
		EDP	18000092	18000099	-	-	28000029	18000053	18000060
	..M15	Description	YAPL-03	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAADN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000094	18000100	18000065	18000119	18000137	18000054	18000061

Turning - Holder - External

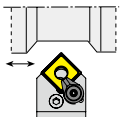
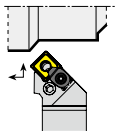
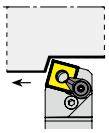
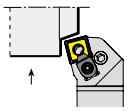
Lever Lock type for SN** Insert



* 'C' Letter at Last : Optional Clamp Included

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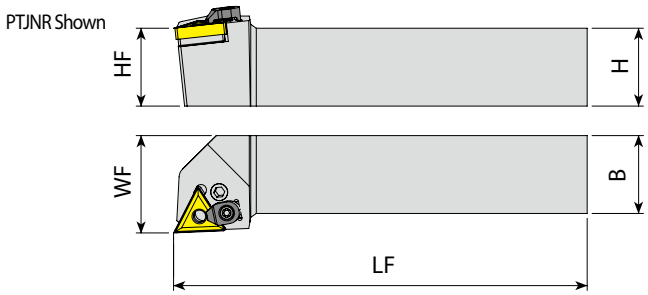
Unit:mm

Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 **PSDNN** Approach angle 45°	PSDNN 1616-H09	0075		16	16	8.0	100	SN0903
	PSDNN 2020K 12C	0530		20	20	10.0	125	SN1204
	PSDNN 2525M 12C	0531		25	25	12.5	150	
	PSDNN 3232P 12C	0532		32	32	16.0	170	
 **PSSNR/L** Approach angle 45°	PSSNR/L 1616-H09	0079	0080	16	16	20.0	100	SN0903
	PSSNR/L 2020K 12C	0548	0549	20	20	25.0	125	SN1204
	PSSNR/L 2525M 12C	0550	0551	25	25	32.0	150	
	PSSNR/L 3232P 12C	0552	0553	32	32	40.0	170	
 **PSBNR/L** Approach angle 75°	PSBNR/L 1616-H09	0069	0070	16	16	13.0	100	SN0903
	PSBNR/L 2020K 12	0430	0525	20	20	17.0	125	SN1204
	PSBNR/L 2525M 12C	0526	0527	25	25	22.0	150	
	PSBNR/L 3232P 12C	0528	0529	32	32	27.0	170	SN1204
 **PSKNR/L** Approach angle 75°	PSKNR/L 2020K 12C	0537		20	20	25.0	125	SN1204
	PSKNR/L 2525M 12C	0538	0539	25	25	32.0	150	
	PSKNR/L 3232P 12C	0540	0541	32	32	40.0	170	

Series	Designation	Infomation	Lever	Lever Screw	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
PS..	..H09	Description	YAPL-01	YALV-02-M6x17	-	-	YAASN-2-0002	YAAY-01	YAAL-02-2.5
		EDP	18000092	18000099			28000028	18000053	18000060
	..12	Description	YAPL-02	YALV-03-M8x19	-	-	YAASN-3-0004	YAAY-02	YAAL-03-3
		EDP	18000093	18000100			18000145	18000054	18000060
	..12C	Description	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAASN-3-0004	YAAY-02	YAAL-03-3
		EDP	18000093	18000100	18000065	18000119	18000145	18000054	18000060

Turning - Holder - External

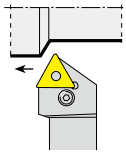
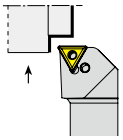
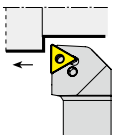
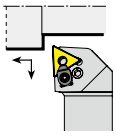
Lever Lock type for TN** Insert



* 'C' Letter at Last : Optional Clamp Included

: p. 47

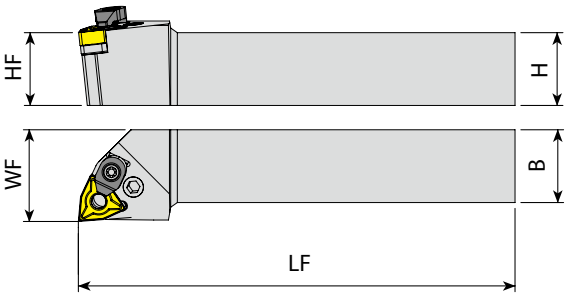
Unit:mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
	**PTTNR/L** Approach angle 60°	PTTNR/L 1616H 16	0619	0620	16	16	13.0	100	TN1604
		PTTNR/L 2020K 16	0429	0621	20	20	17.0	125	
		PTTNR/L 2525M 16	0622	0623	25	25	21.5	150	
		PTTNR/L 3232P 16	0624	0625	32	32	31.0	170	
		PTTNR/L 2525M 22C	0626	0627	25	25	20.5	150	TN2204
		PTTNR/L 3232P 22C	0628	0629	32	32	29.0	170	
	**PTFNR/L** Approach angle 91°	PTFNR/L 1616H 16	0560	0561	16	16	20.0	100	TN1604
		PTFNR/L 2020K 16	0049	0050	20	20	25.0	125	
		PTFNR/L 2525M 16	0051	0052	25	25	32.0	150	
		PTFNR/L 3232P 16	0562	0563	32	32	40.0	170	
		PTFNR/L2525M 22C	0564	0565	25	25	32.0	150	TN2204
		PTFNR/L 3232P 22C	0566	0567	32	32	40.0	170	
	**PTGNR/L** Approach angle 91°	PTGNR/L 1616H 16	0568	0569	16	16	20.0	100	TN1604
		PTGNR/L 2020K 16	0055	0056	20	20	25.0	125	
		PTGNR/L 2525M 16	0057	0058	25	25	32.0	150	
		PTGNR/L 2525M 22C	0570	0571	25	25	32.0	150	TN2204
		PTGNR/L 3232P 22C	0572	0573	32	32	40.0	170	
	**PTJNR/L** Approach angle 93°	PTJNR/L 1616H 16	0597	0598	16	16	20.0	100	TN1604
		PTJNR/L 2020K 16	0599	0600	20	20	25.0	125	
		PTJNR/L 2525M 16	0601	0602	25	25	32.0	150	
		PTJNR/L 3232P 16	0603	0604	32	32	40.0	170	
		PTJNR/L 2525M 22C	0605	0606	25	25	32.0	150	TN2204
		PTJNR/L 3232P 22C	0607	0608	32	32	40.0	170	

Series	Designation	Infomation	Lever	Lever Screw	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
PT..	..16	Description	YAPL-01	YALV-02-M6x17	-	-	YAATN-3-0025	YAAY-01	YAAL-02-2.5
		EDP	18000092	18000099	-	-	18000149	18000053	18000060
	..22..	Description	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAATN-3-0015	YAAY-02	YAAL-03-3
		EDP	18000093	18000100	18000065	18000119	18000148	18000054	18000061

Turning - Holder - External

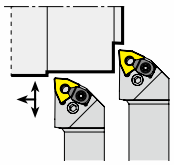
Lever Lock type for WN** Insert



* 'C' Letter at Last : Optional Clamp Included

: p. 53

Unit:mm

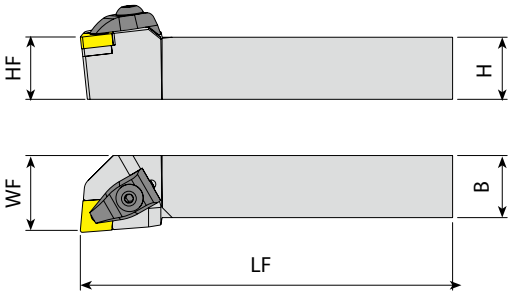
Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 PWLNR/L Approach angle 95°	PWLNR/L 1616H 06	0647	0648	16	16	20	100	WN0604
	PWLNR/L 2020K 06	0649	0650	20	20	25	125	
	PWLNR/L 2525M 06	0651	0652	25	25	32	150	
	PWLNR/L 1616H 08	0653	0654	16	16	20	100	WN0804
	PWLNR/L 2020K 08C	0655	0656	20	20	25	125	
	PWLNR/L 2525M 08C	0657	0658	25	25	32	150	
	PWLNR/L 3232P 08C	0659	0660	32	32	40	170	

Series	Designation	Infomation	Lever	Lever Screw	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
PW..	..06	Description	YAPL-01	YALV-02-M6x17	-	-	YAAWN-SW317	YAAY-01	YAAL-02-2.5
		EDP	18000092	18000099	-	-	18000152	18000053	18000060
	..08	Description	YAPL-02	YALV-03-M8x19	-	-	YAAWN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000093	18000100	-	-	18000151	18000054	18000061
	..08C	Description	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAAWN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000093	18000100	18000065	18000119	18000151	18000054	18000061

Turning - Holder - External

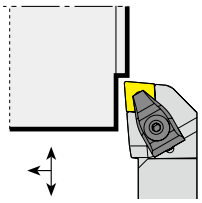
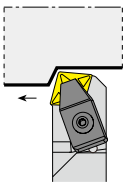
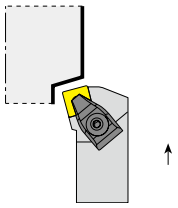
Double Clamp type for CN** Insert

TCLNR Shown



: p. 30

Unit: mm

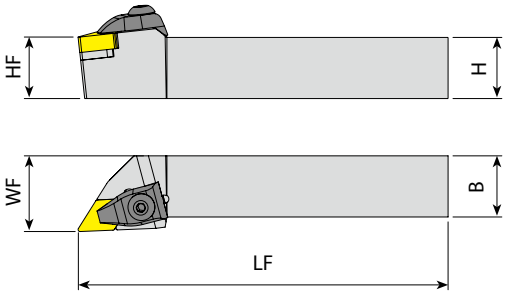
Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 **TCLNR/L** Approach angle 95°	TCLNR/L 2020K 12	0482	0483	20	20	25	125	CN1204
	TCLNR/L 2525M 12	0484	0485	25	25	32	150	
	TCLNR/L 3232P 12	0486	0487	32	32	40	170	
	TCLNR/L 4040S 12	0488	0489	40	40	50	250	
	TCLNR/L 5050S 12	0490	0491	50	50	63	250	
	TCLNR/L 2525M 16	0492	0493	25	25	32	150	CN1606
	TCLNR/L 3232P 16	0494	-	32	32	40	170	
 **TCBNR/L** Approach angle 75°	TCBNR/L 2525M 16	0452	0453	25	25	22	150	CN1606
 **TCKNR/L** Approach angle 75°	TCKNR/L 2020K 12	0454	0455	20	20	25	125	CN1204
	TCKNR/L 2525M 12	0456	0457	25	25	32	150	
	TCKNR/L 3232P 12	0458	0459	32	32	40	170	
	TCKNR/L 2525M 16	0460	0461	25	25	32	150	CN1606
	TCKNR/L 3232P 16	0462	0463	32	32	40	170	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
TC..	..12	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAACN-3-0001	YAAV-02-M5x12	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000137	18000156	18000061
	..16	Description	YATK-04	YAKV-19-M7x25	YABPL-02	YAS-02	YAACN-3-0002	YAAV-05-M6x15	YAAL-05-4
		EDP	18000077	18000088	18000059	28000042	18000138	18000078	18000062

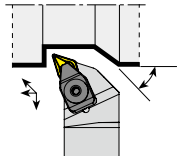
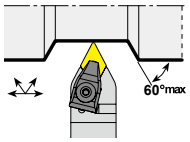
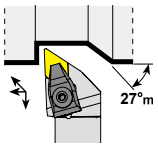
Turning - Holder - External

Double Clamp type for DN** Insert

TDJNR Shown



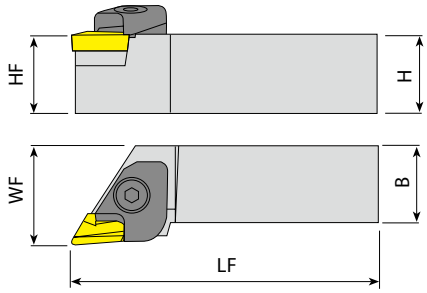
: p. 35 Unit:mm

Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 **TDHNR/L** Approach angle 107.5°	TDHNR/L 2020K 15	0495	0496	20	20	25.0	125	DN1506
	TDHNR/L 2525M 15	0497	0498	25	25	32.0	150	
	TDHNR 3232P 15	0499	-	32	32	40.0	170	DN1504
 **TDNNN** Approach angle 62.5°	TDNNN 2020K 15	0518		20	20	10.0	125	DN1506
	TDNNN 2525M 15	0519		25	25	12.5	150	
	TDNNN 3232P 15	0520		32	32	16.0	170	
 **TDJNR/L** Approach angle 93°	TDJNR/L 2020K 15	0507	0508	20	20	25.0	125	DN1506
	TDJNR/L 2525M 15	0509	0510	25	25	32.0	150	
	TDJNR/L 3232P 15	0511	0512	32	32	40.0	170	
	TDJNR/L 4040S 15	0513	0514	40	40	50.0	250	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
TD..	..15	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAADN-3-0001	YAAV-02-M5x12	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000142	18000156	18000061

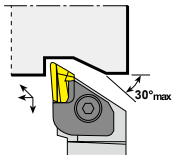
Turning - Holder - External

Top Clamp type for KN** Insert



: p. 41

Unit: mm

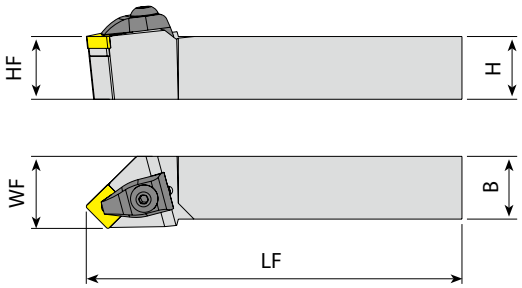
Series		Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
	**CKJNR/L** Approach angle 93°	CKJNR/L 2020K 16	0521	0522	20	20	27.5	125	KNUX1604
		CKJNR/L 2525M 16	0152	0153	25	25	31.5	150	
		CKJNR/L 3232P 16	0154	0155	32	32	40.0	170	
		CKJNR/L 4040S 16	0523	0524	40	40	50.0	250	

Series	Designation	Infomation	Clamp	Clamp Screw	Spring	Upper Ring	Shim	Shim Screw	Allen Key
CK..	..16	Description	YACK-01-R	YAKV-06-M6x20	YAKY-02	YABPL-01	YAKS-16-R	YAAV-01-M3x10	YAAL-05-4
		EDP	18000064	18000083	18000164	18000058	18000154	18000155	18000062
	..16	Description	YACK-02-L	YAKV-06-M6x20	YAKY-02	YABPL-01	YAKS-16-L	YAAV-01-M3x10	YAAL-05-4
		EDP	18000063	18000083	18000164	18000058	18000153	18000155	18000062

Turning - Holder - External

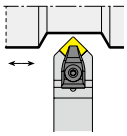
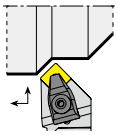
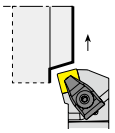
Double Clamp type for SN** Insert

TSSNR Shown



: p. 42

Unit:mm

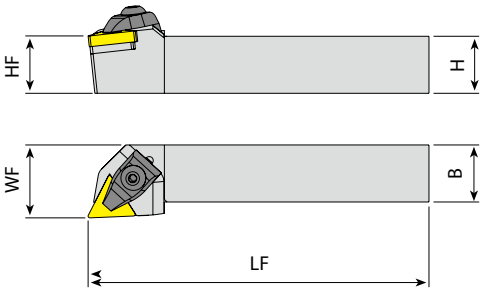
Series		Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
	**TSDNN** Approach angle 45°	TSDNN 1616H 12	0533		16	16	8.0	100	SN1204
		TSDNN 2020K 12	0534		20	20	10.0	125	
		TSDNN 2525M 12	0535		25	25	12.5	150	
		TSDNN 3232P 12	0536		32	32	16.0	170	
	**TSSNR/L** Approach angle 45°	TSSNR/L 2020K 12	0554	0555	20	20	25.0	125	SN1204
		TSSNR/L 2525M 12	0556	0557	25	25	32.0	150	
		TSSNR/L 3232P 12	0558	0559	32	32	40.0	170	
	**TSKNR/L** Approach angle 75°	TSKNR/L 2020K 12	0542	0543	20	20	25.0	125	SN1204
		TSKNR/L 2525M 12	0544	0545	25	25	32.0	150	
		TSKNR/L 3232P 12	0546	0547	32	32	40.0	170	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
TS..	..12	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAASN-3-0004	YAAV-02-M5x12	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000145	18000156	18000061

Turning - Holder - External

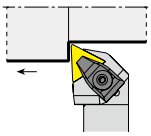
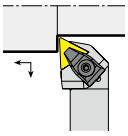
Double Clamp type for TN** Insert

TTJNR Shown



: p. 47

Unit: mm

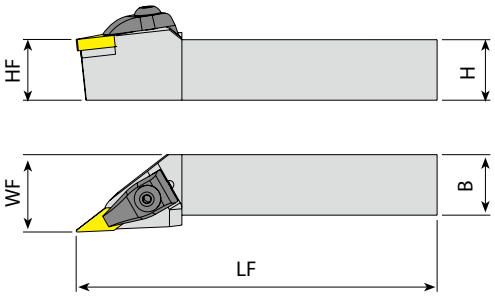
Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 TTGNR/L Approach angle 91°	TTGNR/L 2020K 16	0574	0575	20	20	25	125	TN1604
	TTGNR/L 2525M 16	0576	0577	25	25	32	150	
	TTGNR/L 3232P 16	0578	0579	32	32	40	170	
	TTGNR/L 2525M 22	0580	0581	25	25	32	150	TN2204
	TTGNR/L 3232P 22	0582	0583	32	32	40	170	
	TTGNR/L 4040S 22	0584	-	40	40	50	250	
 TTJNR/L Approach angle 93°	TTJNR/L 2020K 16	0609	0610	20	20	25	125	TN1604
	TTJNR/L 2525M 16	0611	0612	25	25	32	150	
	TTJNR/L 3232P 16	0613	0614	32	32	40	170	
	TTJNR/L 2525M 22	0615	0616	25	25	32	150	TN2204
	TTJNR/L 3232P 22	0617	0618	32	32	40	170	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
TT..	..16	Description	YATK-01	YAKV-01-M5x22	YABPL-01	-	YAATN-2-0002	YAAV-03-M5x12	YAAL-03-3
		EDP	18000074	18000080	18000058	-	18000147	18000157	18000061
	..22	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAATN-3-0015	YAAV-02-M5x12	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000148	18000156	18000061

Turning - Holder - External

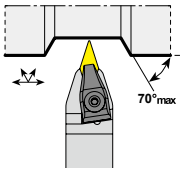
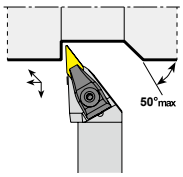
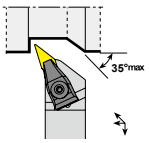
Double Clamp type for VN** Insert

TVJNR Shown



: p. 51

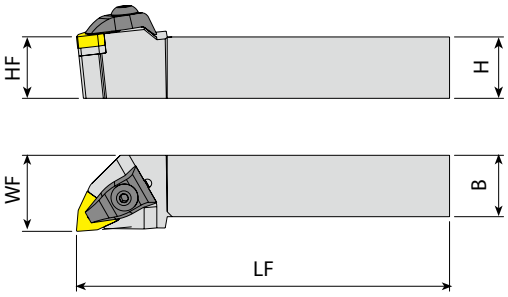
Unit:mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
	**TVVNN** Approach angle 72.5°	TVVNN 2020K 16	0642		20	20	10.0	125	VN1604
		TVVNN 2525M 16	0643		25	25	12.5	150	
		TVVNN 3232P 16	0644		32	32	16.0	170	
	**TVJNR/L** Approach angle 93°	TVJNR/L 2020K 16	0636	0637	20	20	25.0	125	VN1604
		TVJNR/L 2525M 16	0638	0639	25	25	32.0	150	
		TVJNR/L 3232P 16	0640	0641	32	32	40.0	170	
	**TVHNR/L** Approach angle 107.5°	TVHNR/L 2020K 16	0630	0631	20	20	25.0	125	VN1604
		TVHNR/L 2525M 16	0632	0633	25	25	32.0	150	
		TVHNR/L 3232P 16	0634	0635	32	32	40.0	170	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
TV..	..16	Description	YATK-03	YAKV-30-M6x22	YABPL-01	YAS-01	YAAVN -2-0002	YAAV-04-M5x12	YAAL-03-3
		EDP	18000076	18000091	18000058	18000052	18000150	18000158	18000061

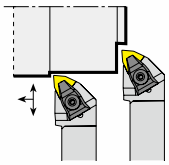
Turning - Holder - External

Double Clamp type for WN** Insert



: p. 53

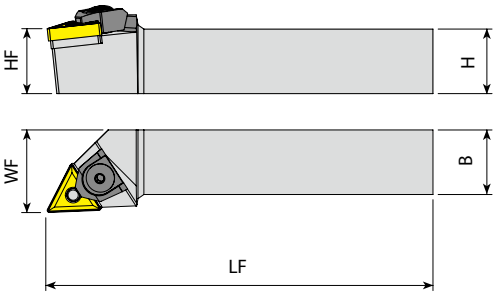
Unit: mm

Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 TWLNR/L Approach angle 95°	TWLNR/L 1616H 06	0661	0662	16	16	20	100	WN0604
	TWLNR/L 2020K 06	0663	0664	20	20	25	125	
	TWLNR/L 2525M 06	0665	0666	25	25	32	150	
	TWLNR/L 2020K 08	0667	0668	20	20	25	125	WN0804
	TWLNR/L 2525M 08	0669	0670	25	25	32	150	
	TWLNR/L 3232P 08	0671	0672	32	32	40	170	
	TWLNR/L 4040S 08	0673	0674	40	40	50	250	

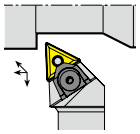
Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
TW..	..06	Description	YATK-01	YAKV-01-M5x22	YABPL-01	-	YAAWN-SW317	YAAV-01-M3x10	YAAL-03-3
		EDP	18000074	18000080	18000058	-	18000152	18000155	18000061
	..08	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAAWN-3-0001	YAAV-02-M5x12	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000151	18000156	18000061

Turning - Holder - External

Multi-Clamp type for TN** Insert



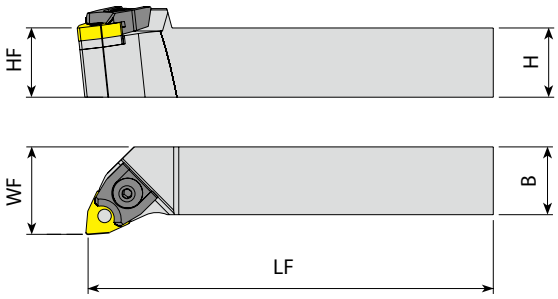
: p. 47 Unit:mm

Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 MTJNR/L Approach angle 93°	MTJNR/L 2020K 16	0585	0586	20	20	25	125	TN1604
	MTJNR/L 2525M 16	0587	0588	25	25	32	150	
	MTJNR/L 3232P 16	0589	0590	32	32	40	170	
	MTJNR/L 2525M 22	0591	0592	25	25	32	150	TN2204
	MTJNR/L 3232P 22	0593	0594	32	32	40	170	
	MTJNR/L 4040S 22	0595	0596	40	40	50	250	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Allen Key
MT..	..16	Description	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-01	YAATN-2-0002	YAAL-03-3
		EDP	18000072	18000091	18000058	18000052	18000110	18000147	18000061
	..22	Description	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-02	YAATN-3-0015	YAAL-03-3
		EDP	18000072	18000091	18000058	18000052	18000111	18000148	18000061

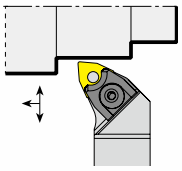
Turning - Holder - External

Multi-Clamp type for WN** Insert



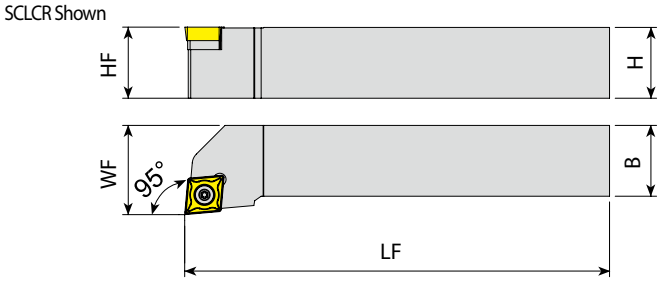
: p. 53

Unit: mm

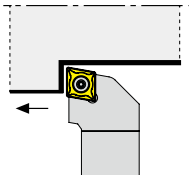
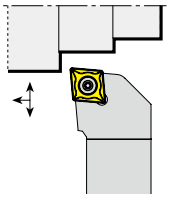
Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 MWLNR/L Approach angle 95°	MWLNR/L 1616H 06	0645	0646	16	16	20	100	WN0604
	MWLNR/L 2020K 06	0021	0022	20	20	25	125	
	MWLNR/L 2525M 06	0023	0024	25	25	32	150	
	MWLNR/L 2020K 08	0025	0026	20	20	25	125	WN0804
	MWLNR/L 2525M 08	0027	0028	25	25	32	150	
	MWLNR/L 3232P 08	0029	0030	32	32	40	170	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Allen Key
MW..	..06	Description	YAMK-01	YAKV-04-M5x17	-	-	YAPM-08	-	YAAL-03-3
		EDP	18000070	18000082			18000114		18000061
	..08	Description	YAMK-05	YAKV-03-M6x22	YABPL-01	YAS-01	YAPM-02	YAAWN-3-0001	YAAL-03-3
		EDP	18000073	18000081	18000058	18000052	18000111	18000151	18000061

Screw on type for CC** Insert



: p. 57 Unit:mm

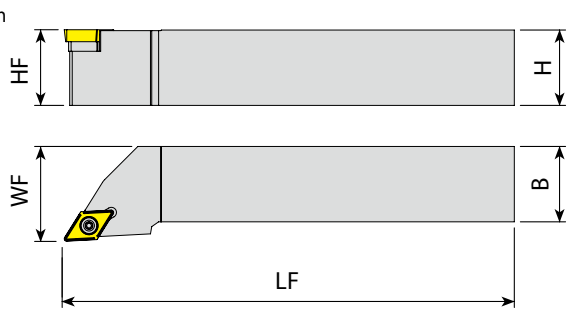
Series		Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
	**SCACR/L** Approach angle 90°	SCACR/L 0808E 06	0675	0676	08	08	10	70	CC0602
		SCACR/L 1010E 06	0677	0678	10	10	12	70	
		SCACR/L 1212F 09	0679	0680	12	12	16	80	CC09T3
		SCACR/L 1616H 09	0681	0682	16	16	20	100	
		SCACR/L 2020K 09	0683	0684	20	20	25	125	
		SCACR/L 2020K 12	0685	0686	20	20	25	125	CC1204
		SCACR/L 2525M 12	0687	0688	25	25	32	150	
	**SCLCR/L** Approach angle 95°	SCLCR/L 0808E 06	0689	0690	08	08	10	70	CC0602
		SCLCR/L 1010E 06	0691	-	10	10	12	70	
		SCLCR/L 1010E 09	0692	0693	10	10	12	70	CC09T3
		SCLCR/L 1212F 09	0089	0090	12	12	16	80	
		SCLCR/L 1616H 09	0091	0092	16	16	20	100	
		SCLCR/L 2020K 09	0093	0094	20	20	25	125	
		SCLCR/L 2525M 09	0694	0695	25	25	32	150	
		SCLCR/L 1616H 12	0696	-	16	16	20	100	CC1204
		SCLCR/L 2020K 12	0095	0096	20	20	25	125	
		SCLCR/L 2525M 12	0097	0098	25	25	32	150	

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
SC..	..06	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..F09	Description	Y4015-M3.5x11	YAACN-2-0001	YAAV-06-M3.5x11	Y80-T15
		EDP	18000118	18000135	18000159	18000167
	..H09	Description	Y4015-M3.5x14	YAACN-2-0001	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000135	18000159	18000167
	..12	Description	Y1020-M4.5x16	YAACN-2-0003	YAAV-07-M4.5x13	Y80-T20
		EDP	18000120	18000136	18000160	18000168
	..1010..09	Description	Y4015-M3x9	-	-	Y80-T15
		EDP	18000132	-	-	18000159
	..1212..09	Description	Y4015-M3.5x11	-	-	Y80-T15
		EDP	18000118	-	-	18000159
	..1616~2525..09	Description	Y4015-M3.5x14	YAACN-2-0001	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000135	18000159	18000159
	..1616..12	Description	Y1020-M5x11	-	-	Y80-T20
		EDP	18000121	-	-	18000168
	..2020~2525..12	Description	Y1020-M4.5x16	YAACN-2-0003	YAAV-07-M4.5x13	Y80-T20
		EDP	18000120	18000136	18000160	18000168

Turning - Holder - External

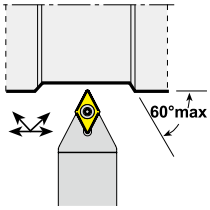
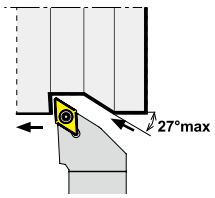
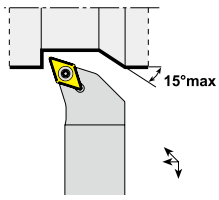
Screw on type for DC** Insert

SDJCR Shown



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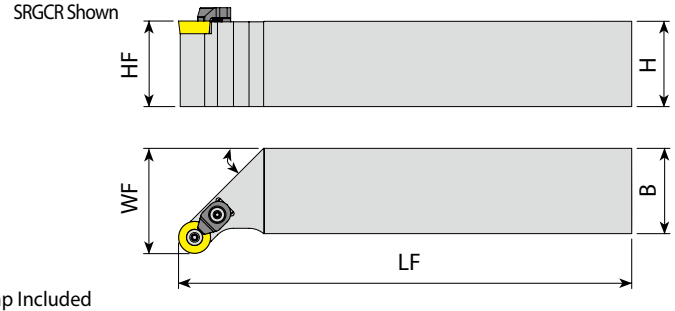
Unit: mm

Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 SDNCN Approach angle 62.5°	SDNCN 0808E 07	0723		08	08	4.0	70	DC0702
	SDNCN 1010E 07	0724		10	10	5.0	70	
	SDNCN 1212F 07	0123		12	12	6.0	80	
	SDNCN 1616H 07	0725		16	16	8.0	100	
	SDNCN 1616H 11	0124		16	16	8.0	100	DC11T3
	SDNCN 2020K 11	0125		20	20	10.0	125	
	SDNCN 2525M 11	0126		25	25	12.5	150	
	SDNCN 3232P 11	0726		32	32	16.0	170	
 SDJCR/L Approach angle 93°	SDJCR/L 0808E 07	0713	0714	08	08	10.0	70	DC0702
	SDJCR/L 1010E 07	0715	0716	10	10	12.0	70	
	SDJCR/L 1212F 07	0113	0114	12	12	16.0	80	
	SDJCR/L 1616H 07	0717	0718	16	16	20.0	100	
	SDJCR/L 1616H 11	0117	0118	16	16	20.0	100	DC11T3
	SDJCR/L 2020K 11	0119	0120	20	20	25.0	125	
	SDJCR/L 2525M 11	0719	0720	25	25	32.0	150	
	SDJCR/L 3232P 11	0721	0722	32	32	40.0	170	
 SDHCR/L Approach angle 107.5°	SDHCR/L 0808E 07	0697	0698	05	05	11.0	70	DC0702
	SDHCR/L 1010E 07	0699	0700	10	10	12.0	70	
	SDHCR/L 1212F 07	0701	0702	12	12	16.0	80	
	SDHCR/L 1616H 07	0703	0704	16	16	20.0	100	
	SDHCR/L 1616H 11	0705	0706	16	16	20.0	100	DC11T3
	SDHCR/L 2020K 11	0707	0708	20	20	25.0	125	
	SDHCR/L 2525M 11	0709	0710	25	25	32.0	150	
	SDHCR/L 3232P 11	0711	0712	32	32	40.0	170	

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
SD..	..07	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	8000127	-	-	18000165
	..11	Description	Y4015-M3.5x14	YAADN-2-0001	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000140	18000159	18000167

Turning - Holder - External

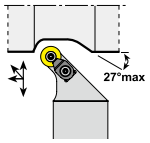
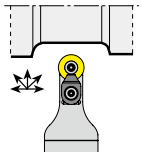
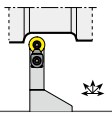
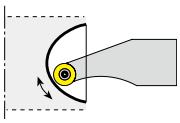
Screw on type for RC** Insert



* 'C' Letter at Last : Optional Clamp Included

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Unit:mm

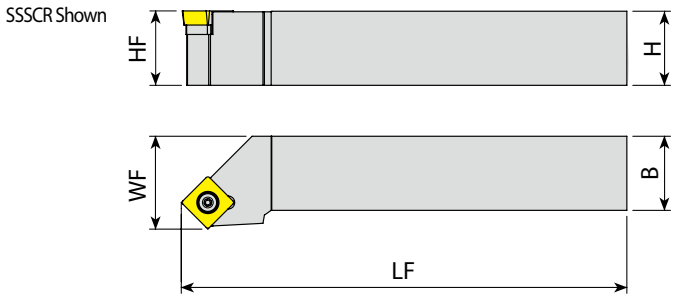
Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 SRGCR/L Approach angle 90°	SRGCR/L 1616H 06	0739	0740	16	16	20.0	100	RC0602
	SRGCR/L 2020K 06	0741	0742	20	20	25.0	125	
	SRGCR/L 1616H 08C	0743	0744	16	16	32.0	100	RC0803
	SRGCR/L 2020K 08C	0745	0746	20	20	25.0	125	
	SRGCR/L 2525M 08C	0747	0748	25	25	32.0	150	
	SRGCR/L 1616H 10C	0749	0750	16	16	20.0	100	RC10T3
	SRGCR/L 2020K 10C	0751	0752	20	20	25.0	125	
	SRGCR/L 2525M 10C	0753	0754	25	25	32.0	150	
	SRGCR/L 3232P 10C	0755	0756	32	32	40.0	170	
	SRGCR/L 2020K 12C	0757	0758	20	20	25.0	125	RC1204
	SRGCR/L 2525M 12C	0759	0760	25	25	32.0	150	
	SRGCR/L 3232P 12C	0761	0762	32	32	40.0	170	
 SRDCN Approach angle 90°	SRDCN 1616H 06	0162		16	16	8.0	100	RC0602
	SRDCN 2020K 06	0163		20	20	10.0	125	
	SRDCN 2525M 06	0164		25	25	12.5	150	
	SRDCN 1616H 08C	0727		16	16	8.0	100	RC0803
	SRDCN 2020K 08C	0728		20	20	10.0	125	
	SRDCN 2525M 08C	0729		25	25	12.5	150	
	SRDCN 1616H 10C	0730		16	16	8.0	100	RC10T3
	SRDCN 2020K 10C	0731		20	20	10.0	125	
	SRDCN 2525M 10C	0732		25	25	12.5	150	
	SRDCN 3232P 10C	0733		32	32	16.0	170	
	SRDCN 2020K 12C	0734		20	20	10.0	125	RC1204
	SRDCN 2525M 12C	0735		25	25	12.5	150	
	SRDCN 3232P 12C	0736		32	32	16.0	170	
 SRDCR/L	SRDCR/L3232P12C	0737	0738	32	32	40.0	170	RC1204
 SRHCR/L	SRHCR/L 2525K 06	0763	-	25	25	25.0	125	RC0602
	SRHCR/L 2525K 08	0764	0765	25	25	25.0	125	RC0803
	SRHCR/L 2525K 10	0766	0767	25	25	25.0	125	RC10T3
	SRHCR/L 2525K 12	0768	0769	25	25	25.0	125	RC1204

Series	Designation	Infomation	Clamp	Clamp Screw	Screw	Torx Key
SR..	..06	Description	-	-	Y3008-M2.5x6	Y80-T08
		EDP	-	-	18000124	18000165
	..08	Description	-	-	Y3008-M3x8	Y80-T15
		EDP	-	-	18000125	18000167
	..08C	Description	YACK-15	Y4015-M3.5x11	Y3008-M3x8	Y80-T08
		EDP	18000069	18000118	18000125	18000165
	..10C	Description	YACK-15	Y4015-M3.5x11	Y4015-M3.5x11	Y80-T15
		EDP	18000069	18000118	18000118	18000167
	..12C	Description	YACK-05	Y4015-M4x11	Y4015-M3.5x11	Y80-T15
		EDP	18000065	18000119	18000118	18000167
	..10 ..12	Description	-	-	Y4015-M3.5x11	Y80-T15
		EDP	-	-	18000118	18000167
	..1616 ..08C	Description	YACK-15	Y4015-M3.5x11	Y3008-M3x8	Y80-T08
		EDP	18000069	18000118	18000125	18000165

phone:+82-32-526-0909, www.yg1.solutions, E-mail: yg1@yg1.solutions
YG-1 CO., LTD.

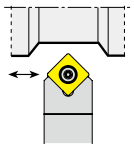
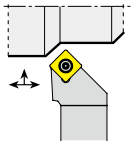
Turning - Holder - External

Screw on type for SC** Insert



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Unit: mm

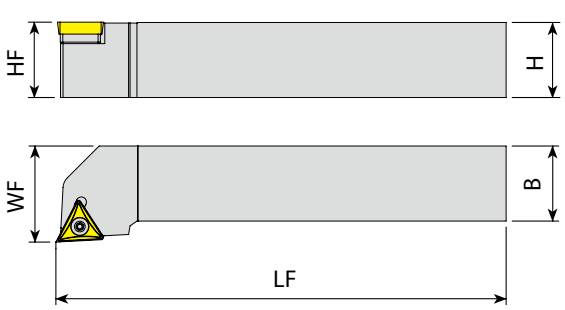
Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 SSDCN Approach angle 45°	SSDCN 1212F 09	0148		12	12	6.0	80	SC09T3
	SSDCN 1616H 09	0149		16	16	8.0	100	
	SSDCN 2020K 09	0770		20	20	10.0	125	
	SSDCN 1616H 12	0771		16	16	8.0	100	SC1204
	SSDCN 2020K 12	0150		20	20	10.0	125	
	SSDCN 2525M 12	0151		25	25	12.5	150	
 SSSCR/L Approach angle 45°	SSSCR/L 1212F 09	0772	0773	12	12	16.0	80	SC09T3
	SSSCR/L 1616H 09	0774	0775	16	16	20.0	100	
	SSSCR/L 2020K 09	0776	0777	20	20	25.0	125	
	SSSCR/L 1616H 12	0778	0779	16	16	20.0	100	SC1204
	SSSCR/L 2020K 12	0780	0781	20	20	25.0	125	
	SSSCR/L 2525M 12	0782	0783	25	25	32.0	150	

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
SS..	..1212..09	Description	Y4015-M3.5x11	-	-	Y80-T15
		EDP	18000118	-	-	18000167
	..1616~2020..09	Description	Y4015-M3.5x14	YAASN-2-0001	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000135	18000159	18000167
	..1616..12	Description	Y4020-M4.5x12	YAASN-2-0004	YAAV-10-M4.5x8	Y80-T20
		EDP	18000134	18000144	18000162	18000168
	..2020~2525..12	Description	Y1020-M4.5x16	YAASN-2-0004	YAAV-07-M4.5x13	Y80-T20
		EDP	18000120	18000144	18000160	18000168

Turning - Holder - External

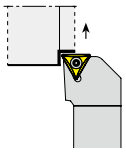
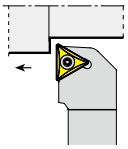
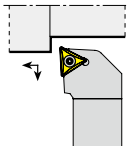
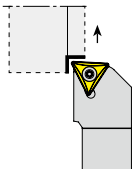
Screw on type for TC** Insert

STJCR Shown



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Unit:mm

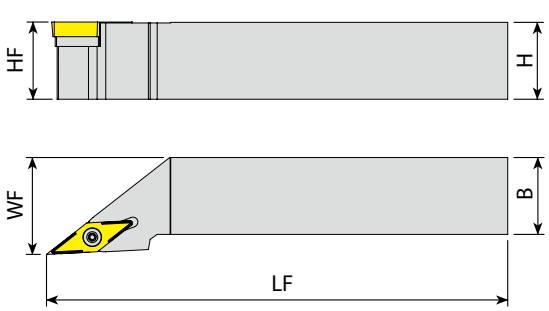
Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 STFCR/L Approach angle 91°	STFCR/L 1212F 11	0099	0100	12	12	16	80	TC1102
	STFCR/L 1616H 11	0101	0102	16	16	20	100	
	STFCR/L 1616H 16	0105	0106	16	16	20	100	TC16T3
	STFCR/L 2020K 16	0107	0108	20	20	25	125	
	STFCR/L 2525M 16	0109	0110	25	25	32	150	
	STFCR/L 3232P 16	0784	0785	32	32	40	170	
 STGCR/L Approach angle 91°	STGCR/L 1212F 11	0786	0787	12	12	16	80	TC1102
	STGCR/L 1616H 11	0433	0788	16	16	20	100	
	STGCR/L 1616H 16	0789	0790	16	16	20	100	TC16T3
	STGCR/L 2020K 16	0434	0791	20	20	25	125	
	STGCR/L 2525M 16	0792	0793	25	25	32	150	
	STGCR/L 3232P 16	0794	0795	32	32	40	170	
 STJCR/L Approach angle 93°	STJCR/L 1212F 11	0796	0797	12	12	16	80	TC1102
	STJCR/L 1616H 11	0798	0799	16	16	20	100	
	STJCR/L 1616H 16	0800	0801	16	16	20	100	TC16T3
	STJCR/L 2020K 16	0802	0803	20	20	25	125	
	STJCR/L 2525M 16	0804	0805	25	25	32	150	
	STJCR/L 3232P 16	0806	0807	32	32	40	170	
 STUCR/L Approach angle 93°	STUCR/L 1212F 11	0808	0809	12	12	16	80	TC1102
	STUCR/L 1616H 11	0810	0811	16	16	20	100	
	STUCR/L 2020K 16	0812	0813	20	20	25	125	TC16T3
	STUCR/L 2525M 16	0814	0815	25	25	32	150	
	STUCR/L 3232P 16	0816	0817	32	32	40	170	

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
ST..	..11	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..16	Description	Y4015-M3.5x14	YAATN-2-0001	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000146	18000159	18000167

Turning - Holder - External

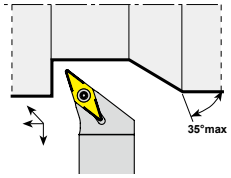
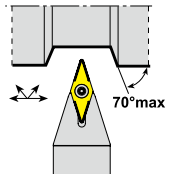
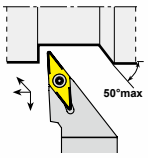
Screw on type for VB** Insert

SVJBR Shown



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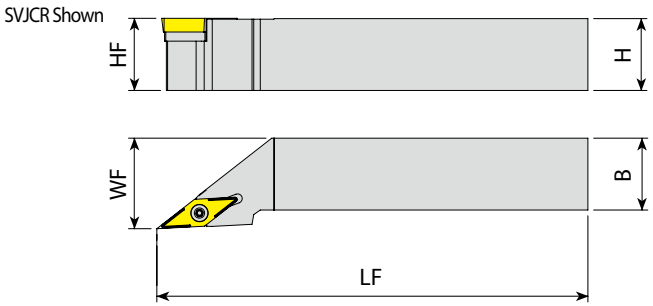
Unit: mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
	**SVHBR/L** Approach angle 107.5°	SVHBR/L 2020K 16	0818	0819	20	20	25.0	125	VB1604
		SVHBR/L 2525M 16	0820	0821	25	25	32.0	150	
		SVHBR/L 3232P 16	0822	0823	32	32	40.0	170	
	**SVVBN** Approach angle 72.5°	SVVBN 2020K 16	0131		20	20	10.0	125	VB1604
		SVVBN 2525M 16	0132		25	25	12.5	150	
		SVVBN 3232P 16	0827		32	32	16.0	170	
	**SVJBR/L** Approach angle 93°	SVJBR/L 1616H 16	0824	0825	16	16	20.0	100	VB1604
		SVJBR/L 2020K 16	0127	0128	20	20	25.0	125	
		SVJBR/L 2525M 16	0129	0130	25	25	32.0	150	
		SVJBR/L 3232P 16	0436	0826	32	32	40.0	170	

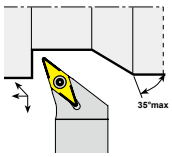
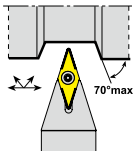
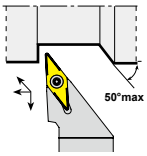
Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
SV..	..16	Description	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	28000043	18000159	18000167

Turning - Holder - External

Screw on type for VC** Insert



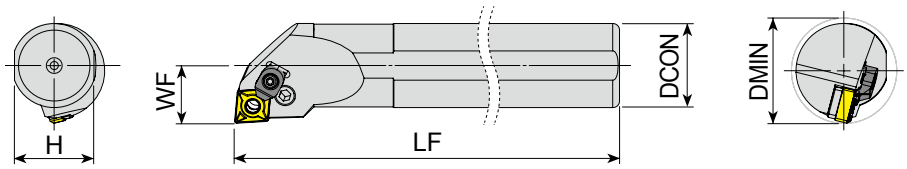
: p. 67 Unit:mm

Series	Designation	EDP 2700.. R	EDP 2700.. L	H (= HF)	B	WF	LF	Insert
 **SVHCR/L** Approach angle 107.5°	SVHCR/L 2020K 16	0828	0829	20	20	25	125	VC1604
	SVHCR/L 2525M 16	0830	0831	25	25	32	150	
	SVHCR/L 3232P 16	0832	0833	32	32	40	170	
 **SVVCN** Approach angle 72.5°	SVVCN 1212-F11	0143		12	12	06	80	VC1103
	SVVCN 1616-H11	0144		16	16	08	100	
	SVVCN 2020-K11	0145		20	20	10	125	
	SVVCN 2020-K16	0146		20	20	10	125	
	SVVCN 2525M 16	0147		25	25	12.5	150	VC1604
	SVVCN 3232P 16	0838		32	32	16	170	
 **SVJCR/L** Approach angle 93°	SVJCR/L 1212F 16	0834	0835	12	12	16	80	VC1604
	SVJCR/L 2020K 16	0139	0140	20	20	25	125	
	SVJCR/L 2525M 16	0141	0142	25	25	32	150	
	SVJCR/L 3232P 16	0836	0837	32	32	40	170	
	SVJCR/L 1212-F11	0133	0134	12	12	16	80	VC1103
	SVJCR/L 1616-H11	0135	0136	16	16	20	100	
	SVJCR/L 2020-K11	0137	0138	20	20	25	125	

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
SV..	..11	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..16	Description	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	28000043	18000159	18000167
	..1212..16	Description	Y4015-M3.5x11	-	-	Y80-T15
		EDP	18000118	-	-	18000167
	..2020~3232..16	Description	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	28000043	18000159	18000167

Turning - Holder - Internal

Lever Lock type for CN** Insert



* 'C' Letter at Last : Optional Clamp Included

: p. 30

Unit : mm

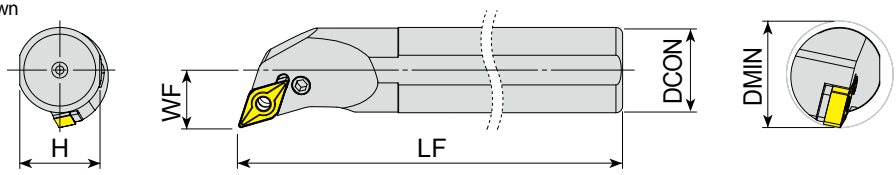
Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
..-PCLNR/L Approach angle 95°	●	A25R - PCLNR/L 12C	0839	0840	32	25	23	17	200	CN1204
	●	A32S - PCLNR/L 12C	0841	0842	40	32	30	22	250	
	●	A40T - PCLNR/L 12C	0843	0844	50	40	37.5	27	300	
	●	A50U - PCLNR/L 12C	0845	0846	63	50	47	35	350	
	X	S25S - PCLNR/L 12C	0863	0864	32	25	23	17	250	
	X	S32T - PCLNR/L 12C	0865	0866	40	32	30	22	300	
	X	S40U - PCLNR/L 12C	0867	0868	50	40	37.5	27	350	
	X	S50V - PCLNR/L 12C	0869	0870	63	50	47	35	400	
	●	A32S - PCLNR/L 16C	0847	0848	40	32	30	22	250	CN1606
	●	A40T - PCLNR/L 16C	0849	0850	50	40	37.5	27	300	
	●	A50U - PCLNR/L 16C	0851	0852	63	50	47	35	350	
	X	S32T - PCLNR/L 16C	0871	0872	40	32	30	22	300	
	X	S40U - PCLNR/L 16C	0873	0874	50	40	37.5	27	350	
	X	S50V - PCLNR/L 16C	0875	0876	63	50	47	35	400	
	●	A40T - PCLNR/L 19C	0853	0854	50	40	37.5	27	300	CN1906
	●	A50U - PCLNR/L 19C	0855	0856	63	50	47	35	350	
	X	S40U - PCLNR/L 19C	0877	0878	50	40	37.5	27	350	
	X	S50V - PCLNR/L 19C	0879	0880	63	50	47	35	400	

Series	Designation	Infomation	Lever	Lever Screw	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
..PC..	..25..- 12C	Description	YAPL-02	YALV-08-M8x16	YACK-05	Y4015-M4x11	YAACN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000093	18000104	18000065	18000119	18000137	18000054	18000061
	..32~50.. - 12C	Description	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAACN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000093	18000100	18000065	18000119	18000137	18000054	18000061
	..16C	Description	YAPL-04	YALV-04-M8x22	YACK-09	YAAV-05-M6x15	YAACN-3-0002	YAAY-03	YAAL-03-3
		EDP	18000095	18000101	18000066	18000078	18000138	18000055	18000061
	..19C	Description	YAPL-05	YALV-05-M10x27	YACK-09	YAAV-05-M6x15	YAACN-3-0003	YAAY-04	YAAL-05-4
		EDP	18000096	18000102	18000066	18000078	18000139	18000056	18000062
	..19C	Description	YAPL-05	YALV-05-M10x27	YACK-09	YAAV-05-M6x15	YAACN-3-0003	YAAY-04	YAAL-05-4
		EDP	18000096	18000102	18000066	18000078	18000139	18000056	18000062

Turning - Holder - Internal

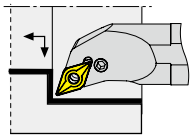
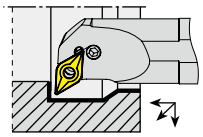
Lever Lock type for DN** Insert

..-PDQNR Shown



: p. 35

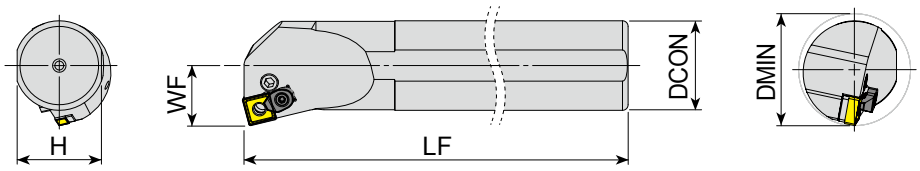
Unit: mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
 ..-PDQNR/L Approach angle 107.5°	●	A32S - PDQNR/L 1504	0895	-	40	32	30	22	250	DN1504
	●	A40T - PDQNR/L 1504	0896	-	50	40	37.5	27	300	
	X	S32T - PDQNR/L 1504	0903	-	40	32	30	22	300	
	X	S40U - PDQNR/L 1504	0904	-	50	40	37.5	27	350	
	X	S50V - PDQNR/L 1504	0905	-	63	50	47	35	400	
	●	A32S - PDQNR/L 15	0897	0898	40	32	30	22	250	DN1506
	●	A40T - PDQNR/L 15	0899	0900	50	40	37.5	27	300	
	●	A50U - PDQNR/L 15	0901	0902	63	50	47	35	350	
	X	S32T - PDQNR/L 15	0906	0907	40	32	30	22	300	
	X	S40U - PDQNR/L 15	0908	0909	50	40	37.5	27	350	
	X	S50V - PDQNR/L 15	0910	0911	63	50	47	35	400	
 ..-PDUNR/L Approach angle 93°	●	A32S - PDUNR/L 15	0920	0921	40	32	30	22	250	DN1506
	●	A40T - PDUNR/L 15	0922	0923	50	40	37.5	27	300	
	●	A50U - PDUNR/L 15	0924	0925	63	50	47	35	350	
	X	S25S - PDUNR/L 15	0934	0935	32	25	23	19	250	
	X	S32T - PDUNR/L 15	0936	0937	40	32	30	22	300	
	X	S40U - PDUNR/L 15	0938	0939	50	40	37.5	27	350	
	X	S50V - PDUNR/L 15	0940	0941	63	50	47	35	400	

Series	Designation	Infomation	Lever	Lever Screw	Shim	Shim Pin	Allen Key
..PD..	..15	Description	YAPL-03	YALV-03-M8x19	YAADN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000094	18000100	18000142	18000054	18000061
	..1504	Description	YAPL-03	YALV-03-M8x19	YAADN-2-0003	YAAY-02	YAAL-03-3
		EDP	18000094	18000100	18000141	18000054	18000061
	..25..15	Description	YAPL-03	YALV-08-M8x16	YAADN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000094	18000104	18000142	18000054	18000061
	..32~50..15	Description	YAPL-03	YALV-03-M8x19	YAADN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000094	18000100	18000142	18000054	18000061

Turning - Holder - Internal

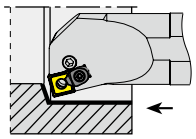
Lever Lock type for SN** Insert



* '**C**' Letter at Last : Optional Clamp Included

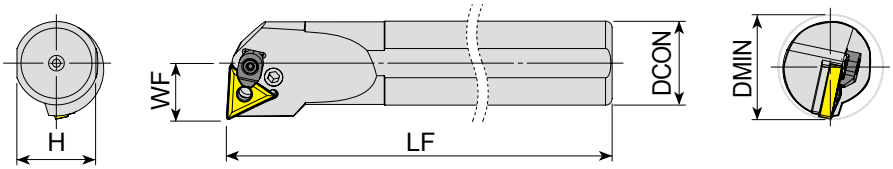
: p. 42

Unit : mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
 ..-PSKNR/L Approach angle 75°	X	S25S - PSKNR/L 12C	0958	0959	32	25	23	17	250	SN1204
		S32T - PSKNR/L 12C	0960	0961	40	32	30	22	300	
	X	S40U - PSKNR/L12C	0962	0963	50	40	37.5	27	350	SN1204
		S50V - PSKNR/L12C	0964	0965	63	50	47	35	400	

Series	Designation	Infomation	Lever	Lever Screw	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
..PS..	..25.. 12C	Description	YAPL-02	YALV-08-M8x16	YACK-05	Y4015-M4x11	YAASN-3-0004	YAAY-02	YAAL-03-3
		EDP	18000093	18000104	18000065	18000119	18000145	18000054	18000061
	..32.. 12C ..40.. 12C ..50.. 12C	Description	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAASN-3-0004	YAAY-02	YAAL-03-3
		EDP	18000093	18000100	18000065	18000119	18000145	18000054	18000061

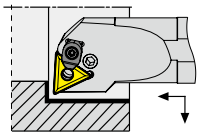
Lever Lock type for TN** Insert



* 'C' Letter at Last : Optional Clamp Included

: p. 47

Unit:mm



..-PTUNR/L

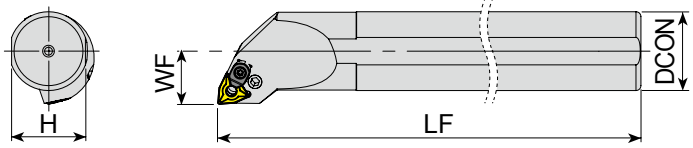
Approach angle
93°

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
		S16P - PTUNR/L 16	1014	1015	20	16	14.8	11	170	
		S20R - PTUNR/L 16	1016	1017	25	20	18.3	13	200	
	X	S25S - PTUNR/L 16C	1018	1019	32	25	23	17	250	TN1604
		S32T - PTUNR/L 16C	1020	1021	40	32	30	22	300	
		S40U - PTUNR/L 16C	1022	1023	50	40	37.5	27	350	
		S32T - PTUNR/L 22C	1024	1025	40	32	30	22	300	
	X	S40U - PTUNR/L 22C	1026	1027	50	40	37.5	27	350	TN2204
		S50V - PTUNR/L 22C	1028	1029	63	50	47	35	400	

Series	Designation	Infomation	Lever	Lever Screw	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
..PT..	..16..16	Description	YAPL-08	YALV-07-M6x13	-	-	-	YAAY-07	YAAL-02-2.5
		EDP	18000097	18000103	-	-	-	18000057	18000060
	..20..16	Description	YAPL-01	YALV-01-M6x14	-	-	YAATN-3-0025	YAAY-01	YAAL-02-2.5
		EDP	18000092	18000098	-	-	18000149	18000053	18000060
	..16C	Description	YAPL-01	YALV-02-M6x17	YACK-05	Y4015-M4x11	YAATN-3-0025	YAAY-01	YAAL-02-2.5
		EDP	18000092	18000099	18000065	18000119	18000149	18000053	18000060
	..22C	Description	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAATN-3-0015	YAAY-02	YAAL-03-3
		EDP	18000093	18000100	18000065	18000119	18000148	18000054	18000061

Turning - Holder - Internal

Lever Lock type for WN** Insert



* 'C' Letter at Last : Optional Clamp Included

: p. 53

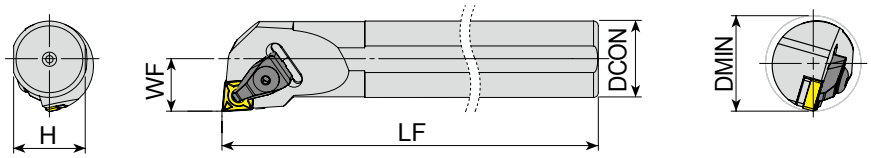
Unit:mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
..-PWLNR/L Approach angle 95°	●	A20P - PWLNR/L 06	1048	1049	25	20	18.3	13	170	WN0604
	●	A25R - PWLNR/L 06	1050	1051	32	25	23	17	200	
	●	A32S - PWLNR/L 06	1052	1053	40	32	30	22	250	
	X	S20R - PWLNR/L 06	1076	1077	25	20	18.3	13	200	
	X	S25S - PWLNR/L 06	1078	1079	32	25	23	17	250	
	X	S32T - PWLNR/L 06	1080	1081	40	32	30	22	300	
	●	A25R - PWLNR/L 08C	1054	1055	32	25	23	17	200	WN0804
	●	A32S - PWLNR/L 08C	1056	1057	40	32	30	22	250	
	●	A40T - PWLNR/L 08C	1058	1059	50	40	37.5	27	300	
	●	A50U - PWLNR/L 08C	1060	1061	63	50	47	35	350	
	X	S25S - PWLNR/L 08C	1082	1083	32	25	23	17	250	
	X	S32T - PWLNR/L 08C	1084	1085	40	32	30	22	300	
	X	S40U - PWLNR/L 08C	1086	1087	50	40	37.5	27	350	
	X	S50V - PWLNR/L 08C	1088	1089	63	50	47	35	400	

Series	Designation	Infomation	Lever	Lever Screw	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
..PW..	..20..06	Description	YAPL-01	YALV-01-M6x14	-	-	YAAWN-SW317	YAAY-01	YAAL-02-2.5
		EDP	18000092	18000098			18000152	18000053	18000060
	..25~32..06	Description	YAPL-01	YALV-02-M6x17	-	-	YAAWN-SW317	YAAY-01	YAAL-02-2.5
		EDP	18000092	18000099			18000152	18000053	18000060
	..08C	Description	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAAWN-3-0001	YAAY-02	YAAL-03-3
		EDP	18000093	18000100	18000065	18000119	18000151	18000054	18000061

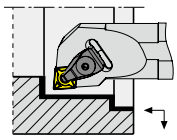
Turning - Holder - Internal

Double Clamp type for CN** Insert



: p. 30

Unit: mm

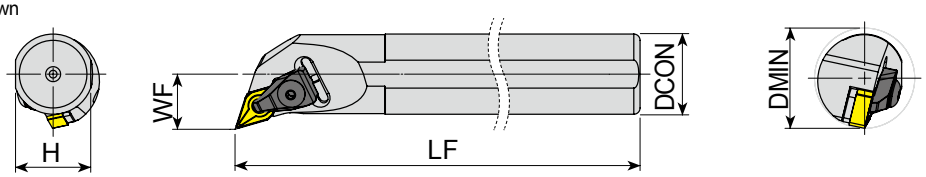
Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
 ..-TCLNR/L Approach angle 95°	X	S25S - TCLNR/L 12	0881	0882	32	25	23	17	250	CN1204
		S32T - TCLNR/L 12	0883	0884	40	32	30	22	300	
		S40U - TCLNR/L 12	0885	0886	50	40	37.5	27	350	
		S50V - TCLNR/L 12	0887	0888	63	50	47	35	400	
	X	S32T - TCLNR/L 16	0889	0890	40	32	30	22	300	CN1606
		S40U - TCLNR/L 16	0891	0892	50	40	37.5	27	350	
		S50V - TCLNR/L 16	0893	0894	63	50	47	35	400	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
..TC..	..25..12	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAACN-3-0001	YAAV-13-M5x8	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000137	18000163	18000061
	..32~50..12	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAACN-3-0001	YAAV-02-M5x12	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000137	18000156	18000061
	..16	Description	YATK-04	YAKV-19-M7x25	YABPL-02	-	YAACN-3-0002	YAAV-05-M6x15	YAAL-05-4
		EDP	18000077	18000088	18000059		18000138	18000078	18000062

Turning - Holder - Internal

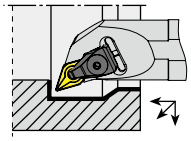
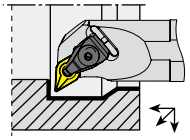
Double Clamp type for DN** Insert

..-TDQNR Shown



: p. 35

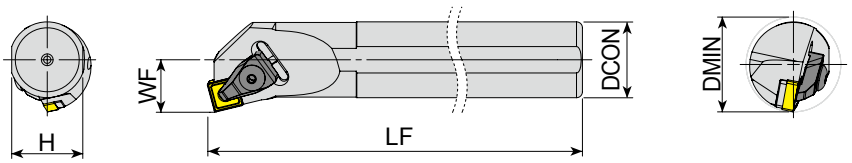
Unit: mm

Series			Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
	..-TDQNR/L Approach angle 107.5°	X	S25S - TDQNR/L 15	0912	0913	32	25	23	17	250	DN1506
			S32T - TDQNR/L 15	0914	0915	40	32	30	22	300	
			S40U - TDQNR/L 15	0916	0917	50	40	37.5	27	350	
			S50V - TDQNR/L 15	0918	0919	63	50	47	35	400	
	..-TDUNR/L Approach angle 93°	X	S25S - TDUNR/L 15	0942	0943	34	25	23	17	250	DN1506
			S32T - TDUNR/L 15	0944	0945	40	32	30	22	300	
			S40U - TDUNR/L 15	0946	0947	50	40	37.5	27	350	
			S50V - TDUNR/L 15	0948	0949	63	50	47	35	400	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
..TD..	..TDQ..25..15	Description	YATK-02	YAKV-30-M6x22	YABPL-01	-	YAADN-3-0001	YAAV-13-M5x8	YAAL-03-3
		EDP	18000075	18000091	18000058		18000142	18000163	18000061
	..25..15	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAADN-3-0001	YAAV-13-M5x8	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000142	18000163	18000061
	..32~50..15	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAADN-3-0001	YAAV-02-M5x12	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000142	18000156	18000061

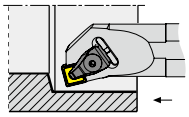
Turning - Holder - Internal

Double Clamp type for SN** Insert



: p. 42

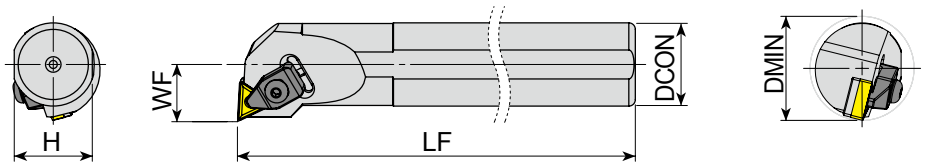
Unit: mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
 ..-TSKNR/L Approach angle 75°	X	S25S - TSKNR/L 12	0966	-	32	25	23	17	250	SN1204
		S32T - TSKNR/L12	0968	0969	40	32	30	22	300	
		S40U - TSKNR/L 12	0970	0971	50	40	37.5	27	350	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
..TS..	..12	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAASN -3-0004	YAAV-13-M5x8	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000145	18000163	18000061

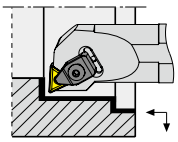
Turning - Holder - Internal

Double Clamp type for TN** Insert



: p. 47

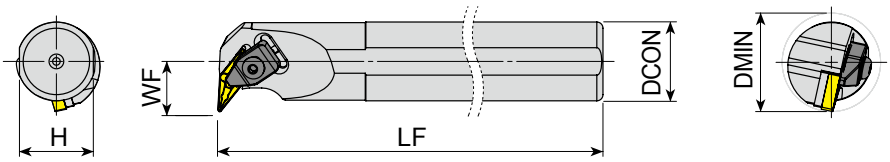
Unit: mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
 ..-TTUNR/L Approach angle 93°	X	S25S - TTUNR/L 16	1030	1031	32	25	23	17	250	TN1604
		S32T - TTUNR/L 16	1032	1033	40	32	30	22	300	
	X	S25S - TTUNR/L 22	1034	1035	32	25	23	17	250	TN2204
		S32T - TTUNR/L 22	1036	1037	40	32	30	22	300	
		S40U - TTUNR/L 22	1038	1039	50	40	37.5	27	350	
		S50V - TTUNR/L 22	1040	1041	63	50	47	35	400	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
..TT..	..16	Description	YATK-01	YAKV-01-M5x22	YABPL-01	-	YAATN-2-0002	YAAV-03-M5x12	YAAL-03-3
		EDP	18000074	18000080	18000058		18000147	18000156	18000061
	..22	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAATN-3-0015	YAAV-02-M5x12	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000148	18000156	18000061

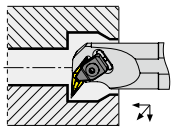
Turning - Holder - Internal

Double Clamp type for VN** Insert



: p. 51

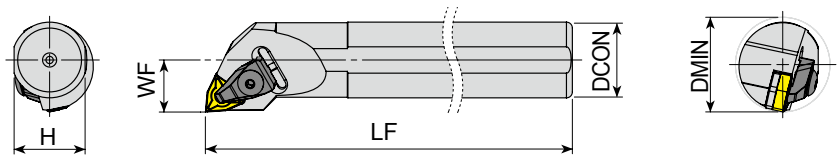
Unit: mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
	..-TVUNR/L Approach angle 93°	S25S - TVUNR/L 16	1042	1043	36	25	23	20	250	VN1604
	X	S32T - TVUNR/L 16	1044	1045	40	32	30	22	300	
		S40U - TVUNR/L 16	1046	1047	50	40	37.5	27	350	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Shim	Shim Screw	Allen Key
..TV..	..16	Description	YATK-01	YAKV-01-M5x22	YABPL-01	YAAVN-2-0002	YAAV-04-M5x12	YAAL-03-3
		EDP	18000074	18000080	18000058	18000150	18000185	18000061

Turning - Holder - Internal

Double Clamp type for WN** Insert



: p. 53

Unit: mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
..-TWLNR/L Approach angle 95°	X	S25S - TWLNR/L 06	1090	1091	32	25	23	17	250	WN0604
	X	S32T - TWLNR/L 06	1092	1093	40	32	30	22	300	WN0604
	●	A40T - TWLNR/L 08	1062	-	50	40	37.5	27	300	WN0804
	●	A50U - TWLNR/L 08	1063	-	63	50	47	35	350	WN0804
	X	S25S - TWLNR/L 08	1094	1095	32	25	23	17	250	WN0804
	X	S32T - TWLNR/L 08	1096	1097	40	32	30	22	300	WN0804
	X	S40U - TWLNR/L 08	1098	1099	50	40	37.5	27	350	WN0804
	X	S50V - TWLNR/L 08	1100	1101	63	50	47	35	400	WN0804

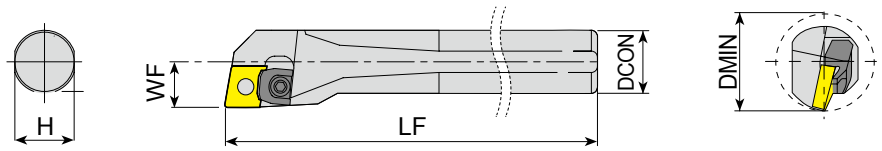
Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
..TW..	..06	Description	YATK-01	YAKV-01-M5x22	YABPL-01	-	YAAWN-SW317	YAAV-01-M3x10	YAAL-03-3
		EDP	18000074	18000080	18000058		18000152	18000155	18000061
	..25..08	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAAWN-3-0001	YAAV-13-M5x8	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000151	18000163	18000061
	..32~50..08	Description	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAAWN-3-0001	YAAV-02-M5x12	YAAL-03-3
		EDP	18000075	18000091	18000058	18000052	18000151	18000156	18000061

Click for Overview

YG TURN

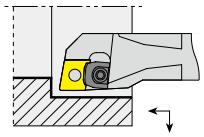
Turning - Holder - Internal

Multi-Clamp type for CN** Insert



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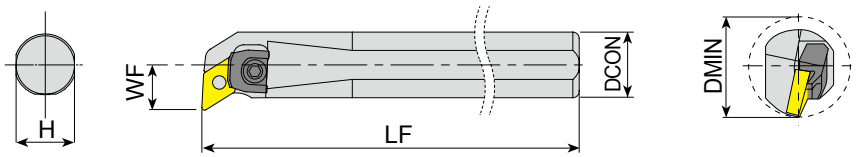
Unit:mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
	..- MCLNR/L Approach angle 95°	S20R - MCLNR/L12	0857	0858	25	20	18.3	13	200	CN1204
	X	S32T - MCLNR/L12	0861	0862	40	32	30	22	300	

Series	Designation	Infomation	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
..MC..	..20..12	Description	YAMK-07	YAKV-04-M5x17	-	YAPM-12	YAAL-03-3
		EDP	28000019	18000082	-	28000025	18000061
	..32..12	Description	YAMK-03	-	YAACN-3-0001	YAPM-04	-
		EDP	28000020	-	18000137	18000113	-

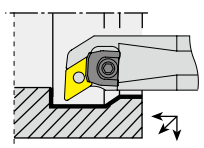
Turning - Holder - Internal

Multi-Clamp type for DN** Insert



: p. 35

Unit:mm

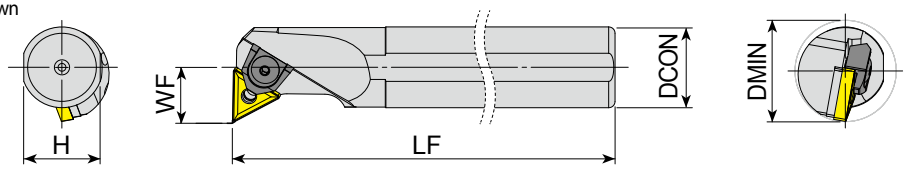
Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
	..- MDUNR/L Approach angle 93°	S32T - MDUNR/L15	0928	0929	40	32	30	22	300	DN1506
	X	S40U - MDUNR/L15	0930	0931	50	40	37.5	27	350	
		S50V - MDUNR/L15	0932	0933	63	50	47	35	400	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Pin	Allen Key
..MD..	..15	Description	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAADN-3-0001	YAPM-04	YAAL-03-3
		EDP	18000072	18000091	18000058	18000052	18000142	18000113	18000061

Turning - Holder - Internal

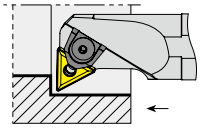
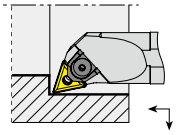
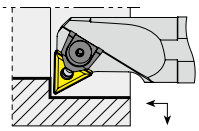
Multi-Clamp type for TN** Insert

..-MTFNR Shown



: p. 47

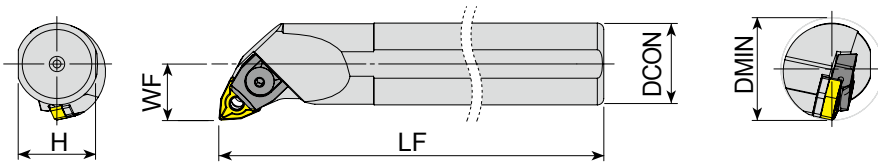
Unit: mm

Series			Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
	..- MTFNR/L Approach angle 91°	X	S20R - MTFNR/L 16	0972	-	25	20	18.3	14	200	TN1604
			S25S - MTFNR/L 16	0973	0974	32	25	23	17	250	
			S32T - MTFNR/L 16	0975	0976	40	32	30	22	300	
			S40U - MTFNR/L 16	0977	0978	50	40	37.5	27	350	
		X	S32T - MTFNR/L 22	0979	0980	40	32	30	22	300	TN2204
			S40U - MTFNR/L 22	0981	0982	50	40	37.5	27	350	
			S50V - MTFNR/L 22	0983	-	63	50	47	35	400	
	..- MTQNR/L Approach angle 107.5°	X	S20R - MTQNR/L 16	0984	0985	25	20	18.3	13	200	TN1604
			S32T - MTQNR/L 16	0988	0989	40	32	30	22	300	
			S40U - MTQNR/L 16	0990	0991	50	40	37.5	27	350	
		X	S32T - MTQNR/L 22	0992	0993	40	32	30	22	300	TN2204
			S40U - MTQNR/L 22	0994	0995	50	40	37.5	27	350	
			S50V - MTQNR/L 22	0996	0997	63	50	47	35	400	
			S32T - MTUNR/L 22	1008	1009	40	32	30	22	300	
			S40U - MTUNR/L 22	1010	1011	50	40	37.5	27	350	
			S50V - MTUNR/L 22	1012	1013	63	50	47	35	400	
	..- MTUNR/L Approach angle 93°	X	S20R - MTUNR/L 16	0998	0999	25	20	18.3	13	200	TN1604
			S25S - MTUNR/L 16	1000	1001	32	25	23	17	250	
			S32T - MTUNR/L 16	1002	1003	40	32	30	22	300	
			S40U - MTUNR/L 16	1004	1005	50	40	37.5	27	350	
			S50V - MTUNR/L 16	1006	1007	63	50	47	35	400	

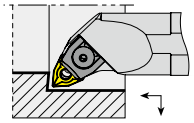
Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Shim Pin	Allen Key
..MT..	..20..16	Description	YAMK-02	YAKV-17-M5x15	-	-	YAPM-03	-	-	YAAL-03-3
		EDP	18000071	18000087	-	-	18000112	-	-	18000061
	..22	Description	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-02	YAATN-3-0015	-	YAAL-03-3
		EDP	18000072	18000091	18000058	18000052	18000054	18000148		18000061
	..25..16	Description	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-14	YAATN-2-0002	-	YAAL-03-3
		EDP	18000072	18000091	18000058	18000052	18000117	18000147	-	18000061
	..32~40..16	Description	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	-	YAATN-2-0002	YAPM-14	YAAL-03-3
		EDP	18000072	18000091	18000058	18000052	-	18000147	18000117	18000061
	..32~50..16	Description	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-01	YAATN-2-0002	-	YAAL-03-3
		EDP	18000072	18000091	18000058	18000052	18000110	18000147	-	18000061
	..32~50..22	Description	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	-	YAATN-3-0015	YAPM-02	YAAL-03-3
		EDP	18000072	18000091	18000058	18000052		18000148	18000111	18000061

Turning - Holder - Internal

Multi-Clamp type for WN** Insert



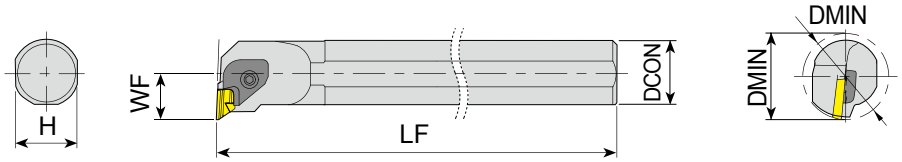
: p. 53 Unit:mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
 ..-MWLNR/L Approach angle 95°	X	S16P - MWLNR/L 06	1064	1065	20	16	14.8	11	170	WN0604
	X	S20R - MWLNR/L 06	1066	1067	25	20	18.3	13	200	
	X	S25S - MWLNR/L 06	1068	1069	32	25	23	17	250	
	X	S25S - MWLNR/L 08	1070	1071	32	25	23	17	250	WN0804
	X	S32T - MWLNR/L 08	1072	1073	40	32	30	22	300	
	X	S40U - MWLNR/L 08	1074	1075	50	40	37.5	27	350	

Series	Designation	Infomation	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Allen Key
..MW..	..16..06	Description	YAMK-01	YAKV-17-M5x15	-	-	YAPM-09	-	-
		EDP	18000070	18000087			18000115		
	..20..06	Description	YAMK-01	YAKV-04-M5x17	-	-	YAPM-10	-	-
		EDP	18000070	18000082			18000116		
	..25..06	Description	YAMK-01	YAKV-04-M5x17	-	-	YAPM-08	-	-
		EDP	18000070	18000082			18000114		
	..25..08	Description	YAMK-05	YAKV-27-M6x20	YABPL-01	YAS-01	YAPM-04	YAAWN-3-0001	YAAL-03-3
		EDP	18000073	18000090	18000058	18000052	18000113	18000151	18000061
	..32~40..08	Description	YAMK-05	YAKV-03-M6x22	YABPL-01	YAS-01	YAPM-02	YAAWN-3-0001	YAAL-03-3
		EDP	18000073	18000081	18000058	18000052	18000111	18000151	18000061

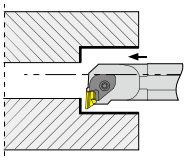
Turning - Holder - Internal

Top Clamp type for KN** Insert



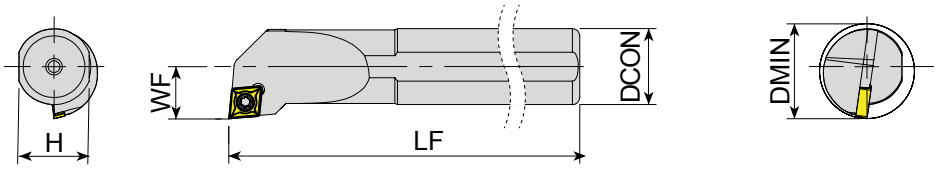
: p. 41

Unit: mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
 ..- CKUNR/L Approach angle 93°	X	S32T - CKUNR/L16	0952	0953	40	32	30	22	300	KN1604
		S40U - CKUNR/L16	0954	0955	50	40	37.5	27	350	
		S50V - CKUNR/L16	0956	0957	63	50	47	35	400	

Series	Designation	Infomation	Clamp	Clamp Screw	Spring	Upper Ring	Shim	Shim Screw	Allen Key
..CK..	..16	Description	YACK-01-R	YAKV-06-M6x20	YAKY-02	YABPL-01	YAKS-16-R	YAAV-01-M3x10	YAAL-05-4
			YACK-02-L				YAKS-16-L		
		EDP	18000064 (18000063)	18000083	18000164	18000058	18000154 (18000153)	18000155	18000062

Screw on type for CC** Insert



: p. 57 Unit:mm

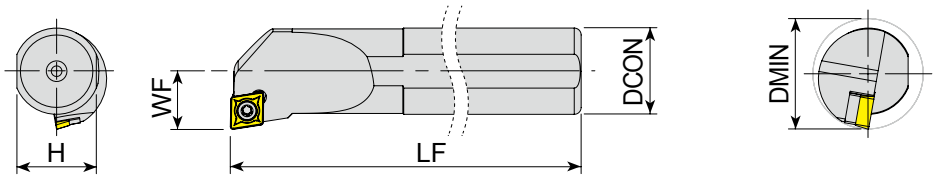
Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
..- SCFCR/L Approach angle 91°		S08H - SCFCR/L 06	1102	1103	11	08	7.3	6	100	CC0602
	X	S10K - SCFCR/L 06	1104	1105	13	10	9	7	125	
		S12K - SCFCR/L 06	1106	1107	16	12	11	9	125	
	X	S12K - SCFCR/L 09	1108	1109	16	12	11	9	125	CC09T3
		S16P - SCFCR/L 09	1110	1111	20	16	14.8	11	170	
		S20R - SCFCR/L 09	1112	1113	25	20	18.3	13	200	
		S25S - SCFCR/L 09	1114	1115	32	25	23	17	250	
	X	S25S - SCFCR/L 12	1116	-	32	25	23	17	250	CC1204

▶ NEXT PAGE

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
..SC..	..06	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..12	Description	Y4020-M4.5x12	YAACN-2-0003	YAAV-10-M4.5x8	Y80-T20
		EDP	18000134	18000136	18000162	18000168
	..12..09	Description	Y4015-M3.5x8	-	-	Y80-T15
		EDP	18000130	-	-	18000167
	..16~20..09	Description	Y4015-M3.5x9	-	-	Y80-T15
		EDP	18000131	-	-	18000167
	..25..09	Description	Y4015-M3.5x12	YAACN-2-0001	YAAV-08-M3.5x8	Y80-T15
		EDP	18000128	18000135	18000161	18000167

Turning - Holder - Internal

Screw on type for CC** Insert



: p. 57

Unit: mm

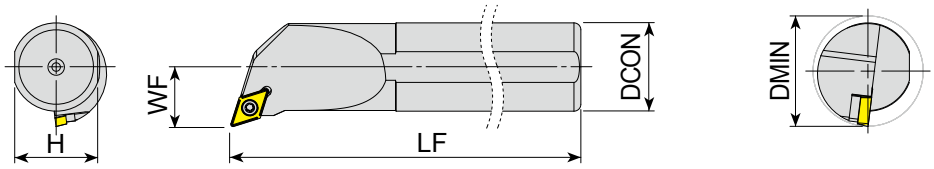
Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
..-SCLCR/L Approach angle 95°	●	A08H - SCLCR/L 06	1117	1118	11	08	7.3	6	100	CC0602
	●	A10H - SCLCR/L 06	1119	1120	13	10	9	7	100	
	●	A12H - SCLCR/L 06	1121	1122	16	12	11	9	100	
	X	S08H - SCLCR/L 06	1133	1134	11	08	7.3	6	100	
	X	S10K - SCLCR/L 06	1135	1136	13	10	9	7	125	
	X	S12K - SCLCR/L 06	1137	1138	16	12	11	9	125	
	X	S16P - SCLCR/L 06	1139	1140	20	16	14.8	11	170	
	●	A16M - SCLCR/L 09	1123	1124	20	16	14.8	11	150	CC09T3
	●	A20P - SCLCR/L 09	1125	1126	25	20	18.3	13	170	
	●	A25R - SCLCR/L 09	1127	1128	32	25	23	17	200	
	●	A32S - SCLCR/L 09	1129	1130	40	32	30	22	250	
	X	S12K - SCLCR/L 09	1141	1142	16	12	11	9	125	
	X	S16P - SCLCR/L 09	1474	1143	20	16	14.8	11	170	
	X	S20R - SCLCR/L 09	1144	1145	25	20	18.3	13	200	
	X	S25S - SCLCR/L 09	1146	1147	32	25	23	17	250	
	X	S32T - SCLCR/L 09	1148	1149	40	32	30	22	300	
	●	A25R - SCLCR/L 12	1131	1132	32	25	23	17	200	CC1204
	X	S25S - SCLCR/L 12	1150	1151	32	25	23	17	250	
	X	S32T - SCLCR/L 12	1152	1153	40	32	30	22	300	
	X	S40U - SCLCR/L 12	1154	1155	50	40	37.5	27	350	
E..-SCLCR/L (Carbide Shank) Approach angle 95°	●	E08K - SCLCR/L 06	0325	1156	11	08	7.3	6	125	CC0602
	●	E12Q - SCLCR/L 06	1157	1158	16	12	11	9	180	
	●	E16R - SCLCR/L 09	0329	1159	20	16	14.8	11	200	CC09T3
	●	E20S - SCLCR/L 09	1160	1161	24	20	18.3	13	250	

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
..SC..	..06	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..12..09	Description	Y4015-M3.5x8	-	-	Y80-T15
		EDP	18000130	-	-	18000167
	..16~20..09	Description	Y4015-M3.5x9	-	-	Y80-T15
		EDP	18000131	-	-	18000167
	..25~32..09	Description	Y4015-M3.5x12	YAACN-2-0001	YAAV-08-M3.5x8	Y80-T15
		EDP	18000128	18000135	18000161	18000167
	..25~32..12	Description	Y4020-M4.5x12	YAACN-2-0003	YAAV-10-M4.5x8	Y80-T20
		EDP	18000134	18000136	18000162	18000168
	..40..12	Description	Y1020-M4.5x16	YAACN-2-0003	YAAV-07-M4.5x13	Y80-T20
		EDP	18000120	18000136	18000160	18000168
E..SC..	..06	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..09	Description	Y4015-M3.5x9	-	-	Y80-T15
		EDP	18000131	-	-	18000167

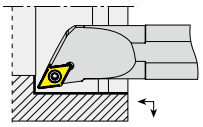
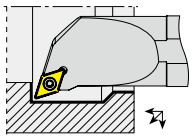
Turning - Holder - Internal

Screw on type for DC** Insert

..-SDQCR Shown



: p. 59 Unit:mm

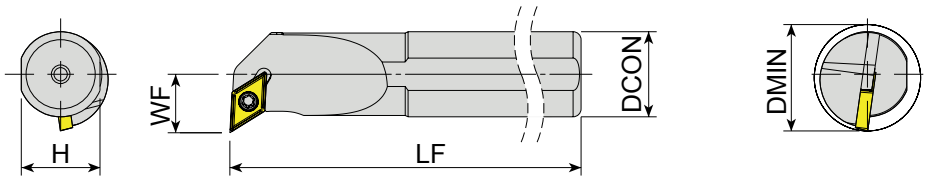
Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
 ..- SDPCR/L Approach angle 117.5°		S10K - SDPCR/L07	1162	1163	13	10	9	7	125	DC0702
		S12K - SDPCR/L07	1164	1165	16	12	11	9	125	
		S16P - SDPCR/L11	1166	1167	20	16	14.8	11	170	DC11T3
		S25S - SDPCR/L11	1170	1171	32	25	23	17	250	
 ..-SDQCR/L Approach angle 107.5°	●	A10H - SDQCR/L 07	1172	1173	13	10	9	7	100	DC0702
	●	A12H - SDQCR/L 07	1174	1175	16	12	11	9	100	
	●	A16M - SDQCR/L 07	1176	1177	20	16	14.8	11	150	
	●	A20P - SDQCR/L 07	1178	1179	25	20	18.3	13	170	
	X	S10K - SDQCR/L 07	1188	1189	13	10	9	7	125	
	X	S12K - SDQCR/L 07	1190	1191	16	12	11	9	125	
	X	S16P - SDQCR/L 07	1192	1193	20	16	14.8	11	170	
	X	S20R - SDQCR/L 07	1194	1195	25	20	18.3	13	200	
	●	A16M - SDQCR/L 11	1180	1181	20	16	14.8	11	150	DC11T3
	●	A20P - SDQCR/L 11	1182	1183	25	20	18.3	13	170	
	●	A25R - SDQCR/L 11	1184	1185	32	25	23	17	200	
	●	A32S - SDQCR/L 11	1186	1187	40	32	30	22	250	
	X	S16P - SDQCR/L 11	1196	1197	20	16	14.8	11	170	
	X	S20R - SDQCR/L 11	1198	1199	25	20	18.3	13	200	
	X	S25S - SDQCR/L 11	1200	1201	32	25	23	17	250	
	X	S32T - SDQCR/L 11	1202	1203	40	32	30	22	300	
	X	S40U - SDQCR/L 11	1204	1205	50	40	37.5	27	350	

▶ NEXT PAGE

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
..SD..	..07	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..11	Description	Y4008-M2.5x6	-	-	Y80-T15
		EDP	18000127	-	-	18000167
	..16..11	Description	Y4015-M3.5x9	-	-	Y80-T15
		EDP	18000131	-	-	18000167
	..20..11	Description	Y4015-M3.5x11	-	-	Y80-T15
		EDP	18000118	-	-	18000167
	..25..11	Description	Y4015-M3.5x12	YAADN-2-0001	YAAV-08-M3.5x8	Y80-T15
		EDP	18000128	18000140	18000162	18000167
	..32..11	Description	Y4015-M3.5x14	YAADN-2-0001	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000140	18000159	18000162

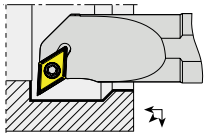
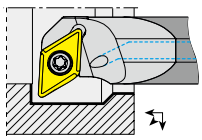
Turning - Holder - Internal

Screw on type for DC** Insert



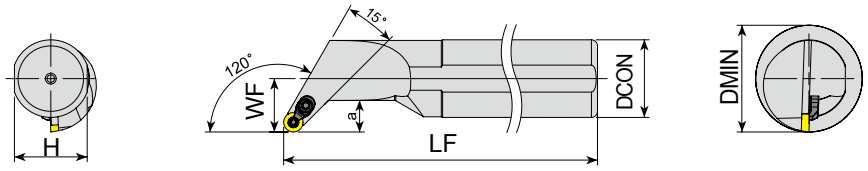
: p. 59

Unit: mm

Series			Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
..-SDUCR/L Approach angle 93°		●	A10H - SDUCR/L 07	1206	1207	13	10	9	8	100	DC0702
			A12H - SDUCR/L 07	1208	1209	16	12	11	9	100	
			A16M - SDUCR/L 07	1210	1211	20	16	14.8	11	150	
			A20P - SDUCR/L 07	1212	1213	25	20	18.3	13	170	
		X	S10K - SDUCR/L 07	1222	1223	13	10	9	8	125	
			S12K - SDUCR/L 07	1224	1225	16	12	11	9	125	
			S16P - SDUCR/L 07	1226	1227	20	16	14.8	11	170	
			S20R - SDUCR/L 07	1228	1229	25	20	18.3	13	200	
		●	A16M - SDUCR/L 11	1214	1215	20	16	14.8	11	150	DC11T3
			A20P - SDUCR/L 11	1216	1217	25	20	18.3	13	170	
			A25R - SDUCR/L 11	1218	1219	32	25	23	17	200	
			A32S - SDUCR/L 11	1220	1221	40	32	30	22	250	
		X	S16P - SDUCR/L 11	1230	1231	20	16	14.8	11	170	
			S20R - SDUCR/L 11	1232	1233	25	20	18.3	13	200	
			S25S - SDUCR/L 11	1234	1235	32	25	23	17	250	
			S32T - SDUCR/L 11	1236	1237	40	32	30	22	300	
			S40U - SDUCR/L 11	1238	1239	50	40	37.5	27	350	
			S50V - SDUCR/L 11	-	1240	63	50	47	35	400	
E..-SDUCR/L (Carbide Shank) Approach angle 93°		●	E10M - SDUCR/L 07	1241	1242	13	10	9	8	150	DC0702
			E12Q - SDUCR/L 07	1243	1244	16	12	11	9	180	
		●	E16R - SDUCR/L 11	0339	1245	20	16	14.8	11	200	DC11T3
			E20S - SDUCR/L 11	1246	1247	23	20	18.3	12	250	

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
..SD..	..07	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..16..11	Description	Y4015-M3.5x9	-	-	Y80-T15
		EDP	18000131	-	-	18000167
	..20..11	Description	Y4015-M3.5x11	-	-	Y80-T15
		EDP	18000118	-	-	18000167
	..25..11	Description	Y4015-M3.5x12	YAADN-2-0001	YAAV-08-M3.5x8	Y80-T15
		EDP	18000128	18000140	18000161	18000167
	..32..11	Description	Y4015-M3.5x14	YAADN-2-0001	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000140	18000159	18000167
E..SD..	..07	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..11	Description	Y4015-M3.5x9	-	-	Y80-T15
		EDP	18000131	-	-	18000167

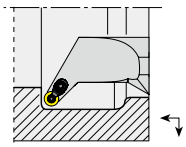
Screw on type for RC** Insert



* 'C' Letter at Last : Optional Clamp Included

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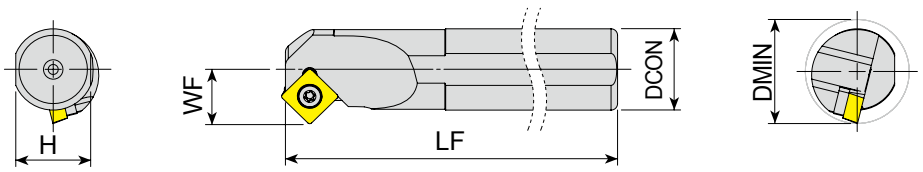
Unit:mm

Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
 ..- SRGCR/L	X	S16P - SRGCR/L08	1248	-	22	16	14.8	11	170	RC0803
		S40U - SRGCR 08C	1254	-	54	40	37.5	27	350	
	●	S32T - SRGCR/L08C	1253	-	44	32	30	22	300	
		S25S - SRGCR/L08C	1251	1252	34	25	23	17	250	

Series	Designation	Infomation	Screw	Clamp	Clamp Screw	Torx Key
..SR..	..08	Description	Y3008-M3x8	-	-	Y80-T08
		EDP	18000125			18000165
	..08C	Description	Y3008-M3x8	YACK-15	Y4015-M3.5x11	Y80-T08
		EDP	18000125	18000069	18000118	18000165

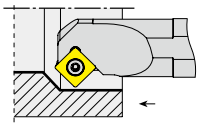
Turning - Holder - Internal

Screw on type for SC** Insert



: p. 63

Unit: mm

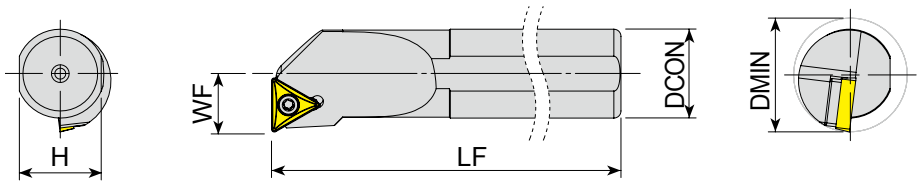
Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
	.. - SSSCR/L Approach angle 45°	S16P - SSSCR/L09	1255	1256	20	16	14.8	11	170	SC09T3
		S25S - SSSCR/L09	1259	1260	32	25	23	17	250	
		S25S - SSSCR/L12	1261	1262	32	25	23	17	250	SC1204
		S32T - SSSCR12	1263	-	40	32	30	22	300	

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
..SS..	..16..09	Description	Y4015-M3.5x9	-	-	Y80-T15
		EDP	18000131			18000167
	..25..09	Description	Y4015-M3.5x12	YAASN-2-0001	YAAV-08-M3.5x8	Y80-T15
		EDP	18000128	18000143	18000161	18000167
	..25..12	Description	Y4020-M4.5x12	YAASN-2-0004	YAAV-10-M4.5x8	Y80-T20
		EDP	18000134	18000144	18000162	18000168
	..32..12	Description	Y1020-M4.5x16	YAASN-2-0004	YAAV-10-M4.5x8	Y80-T20
		EDP	18000120	18000144	18000162	18000168

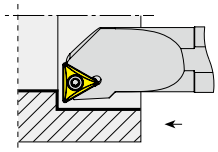
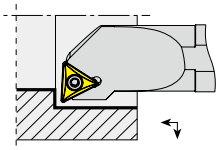
Turning - Holder - Internal

Screw on type for TC** Insert

..-STFCR Shown



: p. 64 Unit:mm

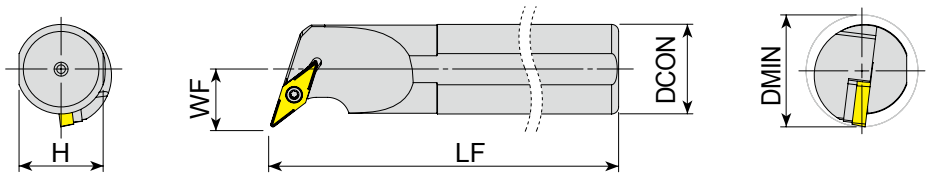
Series		Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
 ..-STFCR/L Approach angle 91°	X	S12K - STFCR/L 11	1264	1265	17	12	11	9	125	TC1102
	X	S16P - STFCR/L 11	1266	1267	20	16	14.8	11	170	TC1102
	X	S20R - STFCR/L 11	1268	1269	25	20	18.3	13	200	TC1102
	X	S16P - STFCR/L 16	1270	1271	20	16	14.8	11	170	TC16T3
	X	S20R - STFCR/L 16	1272	1273	25	20	18.3	13	200	TC16T3
	X	S25S - STFCR/L 16	1274	1275	32	25	23	17	250	TC16T3
	X	S32T - STFCR/L 16	1276	1277	40	32	30	22	300	TC16T3
	X	S40U - STFCR/L 16	1278	-	50	40	37.5	27	350	TC16T3
 ..-STUCR/L Approach angle 93°	X	S12K - STUCR/L 11	1279	1280	17	12	11	9	125	TC1102
	X	S16P - STUCR/L 11	1281	1282	20	16	14.8	11	170	TC1102
	X	S20R - STUCR/L 11	1283	1284	25	20	18.3	13	200	TC1102
	X	S16P - STUCR/L 16	1285	1286	20	16	14.8	11	170	TC16T3
	X	S20R - STUCR/L 16	1287	1288	25	20	18.3	13	200	TC16T3
	X	S25S - STUCR/L 16	1289	1290	32	25	23	17	250	TC16T3
	X	S32T - STUCR/L 16	1291	1292	40	32	30	22	300	TC16T3
	X	S40U - STUCR/L 16	1293	1294	50	40	37.5	27	350	TC16T3

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
..ST..	..11	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..12~20..11	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..16..16	Description	Y4015-M3.5x9	-	-	Y80-T15
		EDP	18000131	-	-	18000167
	..20..16	Description	Y4015-M3.5x11	-	-	Y80-T15
		EDP	18000118	-	-	18000167
	..25..16	Description	Y4015-M3.5x14	YAATN-2-0001	YAAV-08-M3.5x8	Y80-T15
		EDP	18000129	18000146	18000161	18000167
	..32~40..16	Description	Y4015-M3.5x14	YAATN-2-0001	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000146	18000159	18000167

Turning - Holder - Internal

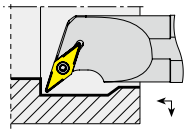
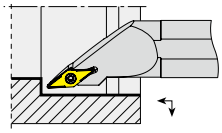
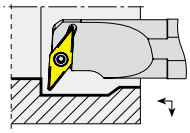
Screw on type for VB** Insert

..-STFCR Shown



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Unit: mm

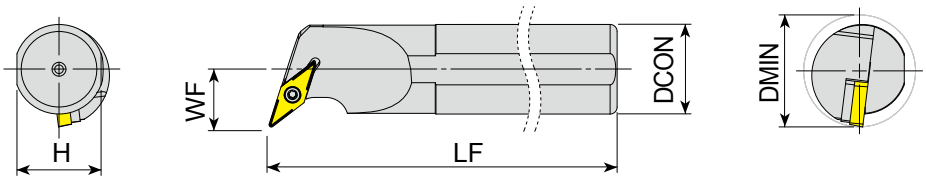
Series			Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
	..-SVQBR/L Approach angle 107.5°	●	A20Q - SVQBR/L 16	1299	1300	30	20	18.3	20	180	VB1604
			A25S - SVQBR/L 16	1301	1302	32	25	23	17	250	
			A32S - SVQBR/L 16	1303	1304	40	32	30	22	250	
		X	S25S - SVQBR/L 16	1305	1306	32	25	23	17	250	
			S32T - SVQBR/L 16	1307	1308	40	32	30	22	300	
			S40U - SVQBR/L 16	1309	1310	50	40	37.5	27	350	
	..-SVJBR/L Approach angle 93°	X	S25S - SVJBR/L 16	1295	1296	32	25	23	17	250	VB1604
			S32T - SVJBR/L 16	1297	1298	40	32	30	22	300	
	..-SVUBR/L Approach angle 93°	●	A20Q - SVUBR/L 16	1311	-	30	20	18.3	20	180	VB1604
			A32S - SVUBR/L 16	1312	1313	40	32	30	22	250	
		X	S25S - SVUBR/L 16	1314	1315	32	25	23	19	250	
			S32T - SVUBR/L 16	1316	1317	40	32	30	22	300	
			S40U - SVUBR/L 16	1318	1319	50	40	37.5	27	350	

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
..SV..	..20..16	Description	Y4015-M3.5x11	-	-	Y80-T15
		EDP	18000118	-	-	18000167
	A - ..25..16	Description	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000150	18000159	18000167
	S - ..25..16	Description	Y4015-M3.5x14	YAAVN-2-0002	YAAV-08-M3.5x8	Y80-T15
		EDP	18000129	18000150	18000161	18000167
	..32~40..16	Description	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000150	18000159	18000167
	..16	Description	Y4015-M3.5x12	YAAVN-2-0002	YAAV-08-M3.5x8	Y80-T15
		EDP	18000128	18000150	18000161	18000167
	..25~40..16	Description	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000150	18000159	18000167

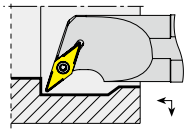
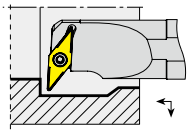
Turning - Holder - Internal

Screw on type for VC** Insert

..-SVQCR Shown



: p. 67 Unit:mm

Series			Designation	EDP 2700.. R	EDP 2700.. L	DMIN	DCON	H	WF	LF	Insert
	..-SVQCR/L Approach angle 107.5°	X	S25S - SVQCR/L 16	1320	1321	32	25	23	17	250	VC1604
		X	S32T - SVQCR/L 16	1322	1323	40	32	30	22	300	
		X	S40U - SVQCR/L 16	1324	1325	50	40	37.5	27	350	
	..-SVUCR/L Approach angle 93°	X	S16P - SVUCR/L11	1495	1496	20	16	14.8	12.5	170	VC1103
		X	S20R - SVUCR/L11	1497	1498	25	20	18.3	13	200	
		●	A25R - SVUCR/L 16	1326	-	32	25	23	19	200	VC1604
		X	S25S - SVUCR/L 16	1327	1328	32	25	23	19	250	
		X	S32T - SVUCR/L 16	1329	1330	40	32	30	22	300	
		X	S40U - SVUCR/L 16	1331	1332	50	40	37.5	27	350	

Series	Designation	Infomation	Screw	Shim	Shim Screw	Torx Key
..SV..	..11	Description	Y4008-M2.5x6	-	-	Y80-T08
		EDP	18000127	-	-	18000165
	..16	Description	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000150	18000159	18000167
	..25..16	Description	Y4015-M3.5x14	YAAVN-2-0002	YAAV-08-M3.5x8	Y80-T15
		EDP	18000129	18000150	18000161	18000167
	..32~40..16	Description	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
		EDP	18000129	18000150	18000159	18000167



PARTING & GROOVING

Parting & Grooving Inserts Overview

Parting & Grooving Inserts

Parting & Grooving Holders

YG TURN

Parting & Grooving

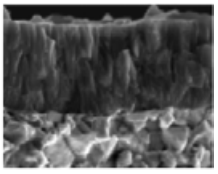
Parting & Grooving Overview

Parting & Groove Turn Grades

Parting and Grooving Grades		P Steel				M Stainless steel				K Cast iron			N Non Ferrous		S Super Alloy	
		P10	P20	P30	P40	M10	M20	M30	M40	K10	K20	K30	N10	N20	S10	S20
PVD	YG602G (YG602)		602G				602G				602G					602G
	YG603							603								

YG602G
(YG602)
P20 - P35 | M20 - M40 | K20 - K40 | S15 - S25

PVD - TiAlN

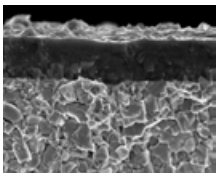


Universal grade for Parting & Groove Turn

- Ultra Dense PVD Coating with optimal thermal resistance & strength
- Sub-Micron substrate designed for demanding application
- YG602G : First Choice for Low Cutting Speed, Soft and Sticky Material with Low Hardness (Gold Color)
- YG602 : First Choice for General Application (Violet Color)

YG603
M30 - M50

PVD - TiAlN



PVD Parting & Grooving Grade for Stainless Steel

- Ultra high toughness substrate and strong adhesion
- Excellent cutting edge strength and chipping resistance
- Stable machinability and tool life for stainless steel

Parting & Grooving Inserts



TD. Series	Inserts	2, 3, 4, 5
	TDN, TDP, TDY	

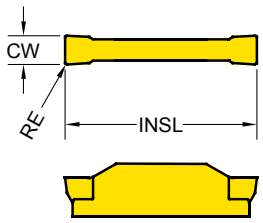
Parting & Grooving Chipbreakers

Parting & Grooving	-P			• For Parting & Deep Grooving • For Low Feed Rate and Difficult to Cut Materials
	-N			• For External Parting And Grooving • For General Use
Turning & Grooving	-Y			• For External Turning & Grooving • For Medium feed rate
	NEW GL			• For External, Internal turning and Grooving • Face grooving and Face turning • For low feed rate
	NEW GM			• For External, Internal turning and Grooving • First choice Face Grooving and Face turning • For Medium feed rate
	NEW RG			• For External, Internal turning and Grooving • Full radius Insert for Profiling

Parting & Grooving

Parting & Grooving Inserts

Recommended Cutting Conditions : p.222



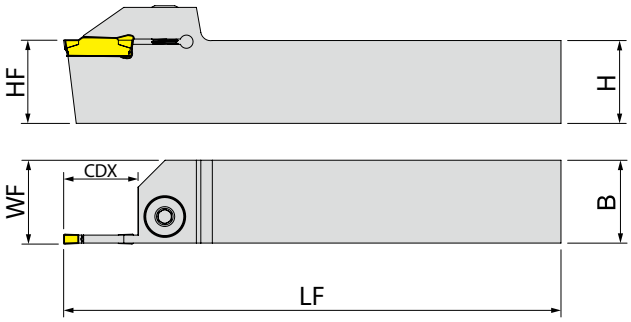
Series	INSL	CW
TD* 2	20	2
TD* 3	20	3
TD* 4	20	4
TD* 5	25	5

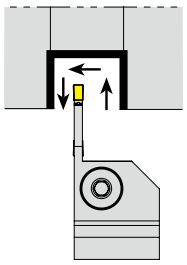
* CDX : Cutting Depth Maximum

● : Stock item ○ : Order made item

TD.		Designation	RE	Parting & Grooving Fn (mm/rev.)	Parting & Grooving CDX (mm)	Turning Fn (mm/rev.)	Turning Ap (mm)	EDP 5200.. YG602	YG602G	YG603
-P	 Parting & Grooving (Sharp edge)	TDP 2002	0.2	0.04 ~ 0.12	19	-	-	● 0012	○ 0036	● 0078
		TDP 3002	0.2	0.05 ~ 0.16	19	-	-	● 0029	○ 0030	● 0076
		TDP 4003	0.3	0.06 ~ 0.18	19	-	-	● 0023	○ 0038	● 0080
		* TDPR 2002 - 6	0.2	0.03 ~ 0.08	19	-	-	● 0045		● 0085
		* TDPR 3002 - 6	0.2	0.04 ~ 0.12	19	-	-	● 0048		● 0089
	* 6° Angled Parting	* TDPL 2002 - 6	0.2	0.03 ~ 0.08	19	-	-	● 0046		● 0086
		* TDPL 3002 - 6	0.2	0.04 ~ 0.12	19	-	-	● 0049		● 0090
-N	 Parting & Grooving (General)	TDN 2002	0.2	0.05 ~ 0.18	19	-	-	● 0010	○ 0035	● 0077
		TDN 3002	0.2	0.07 ~ 0.23	19	-	-	● 0024	○ 0025	● 0075
		TDN 4003	0.3	0.08 ~ 0.28	19	-	-	● 0022	○ 0037	● 0079
		TDN 5003	0.3	0.09 ~ 0.35	24	-	-	● 0042		
		* TDNR 2002 - 6	0.2	0.04 ~ 0.14	19	-	-	● 0043		● 0083
		* TDNR 3002 - 6	0.2	0.06 ~ 0.18	19	-	-	● 0040		● 0087
		* TDNL 2002 - 6	0.2	0.04 ~ 0.14	19	-	-	● 0044		● 0084
	* 6° Angled Parting	* TDNL 3002 - 6	0.2	0.06 ~ 0.18	19	-	-	● 0047		● 0088
		* TDNL 4003 - 4	0.3	0.06 ~ 0.24	19			● 0096		
-Y	 Turn Groove	TDY3E - 0.4	0.4	0.06 ~ 0.24	10	0.12 ~ 0.22	0.5 ~ 2.4		● 0027	
		TDY4E - 0.4	0.4	0.08 ~ 0.27	10	0.15 ~ 0.30	0.5 ~ 2.8		● 0020	
		TDY5E - 0.4	0.4	0.08 ~ 0.23	10	0.15 ~ 0.30	0.5 ~ 3.2		● 0082	
	 NEW GL	TDY2E - 0.3 - GL	0.3	0.04 ~ 0.20	10	0.06 ~ 0.18	0.4 ~ 1.5		● 0123	● 0124
		TDY3E - 0.3 - GL	0.3	0.05 ~ 0.23	10	0.08 ~ 0.20	0.4 ~ 2.0		● 0125	● 0126
		TDY4E - 0.4 - GL	0.4	0.06 ~ 0.26	10	0.10 ~ 0.25	0.5 ~ 2.3		● 0112	● 0127
	 NEW GM	TDY3E - 0.4 - GM	0.4	0.06 ~ 0.24	10	0.12 ~ 0.22	0.5 ~ 2.4		● 0118	● 0119
		TDY4E - 0.4 - GM	0.4	0.08 ~ 0.27	10	0.15 ~ 0.30	0.5 ~ 2.8		● 0113	● 0120
		TDY4E - 0.8 - GM	0.8	0.10 ~ 0.27	10	0.18 ~ 0.32	0.8 ~ 2.8		● 0114	● 0122
	 NEW RG	TDY2E - 1.0 - RG	1.0	0.05 ~ 0.15	10	0.10 ~ 0.30	0.1 ~ 0.8		● 0111	● 0115
		TDY3E - 1.5 - RG	1.5	0.08 ~ 0.18	10	0.15 ~ 0.35	0.1 ~ 1.2		● 0108	● 0116
		TDY4E - 2.0 - RG	2.0	0.10 ~ 0.20	10	0.18 ~ 0.45	0.1 ~ 1.6		● 0109	● 0117

External holders





: p. 119

Unit :mm

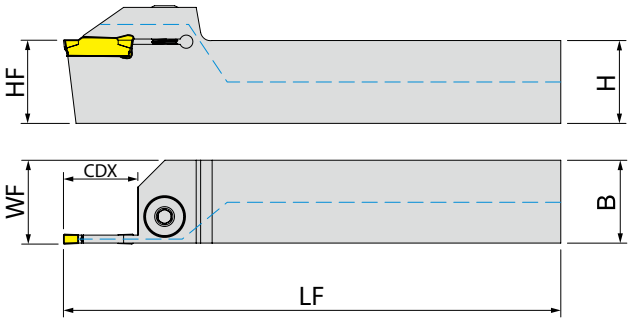
Designation	EDP 5700.. R	EDP 5700.. L	CW	CDX	H (= HF)	B	LF	WF	Insert
YTER/L 1212 - 2T15	0025	0024	2	15	12	12	100	12.3	TD.2..
YTER/L 1616 - 2T15	0027	0026	2	15	16	16	125	16.3	
YTER/L 2020 - 2T15	0030	0029	2	15	20	20	125	20.3	
YTER/L 2020 - 2T20	0032	0031	2	20	20	20	125	20.3	
YTER/L 2020 - 2T9	0028	-	2	9	20	20	125	20.3	
YTER/L 2525 - 2T17	0034	0033	2	17	25	25	150	25.3	
YTER/L 1212 - 3T15	0036	0035	3	15	12	12	100	12.4	TD.3..
YTER/L 1616 - 3T15	0038	0037	3	15	16	16	125	16.4	
YTER/L 2020 - 3T20	0040	0039	3	20	20	20	125	20.4	
YTER/L 2525 - 3T20	0044	0043	3	20	25	25	150	25.4	
YTER/L 2525 - 3T9	0042	0041	3	9	25	25	150	25.4	
YTER/L 3232 - 3T20	0045	-	3	20	32	32	170	32.4	
YTER/L 2525 - 4T20	0047	0046	4	20	25	25	150	25.5	TD.4..

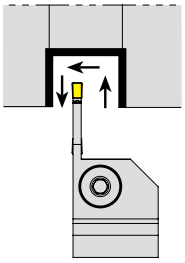
▶ NEXT PAGE

Series	Designation	Infomation	Screw	Ring	Wrench
YTER/L	..-2..	Description	YAKV-02-M6x22	YABPL-01	YAAL-03-3
		EDP	18000195	18000058	18000061
	..-3.. / ..-4.. / ..-5..	Description	Y2004-M8x1x20	-	YAAL-05-4
		EDP	18000196	-	18000062

Parting & Grooving - Holder - External

External holders





: p. 119

Unit : mm

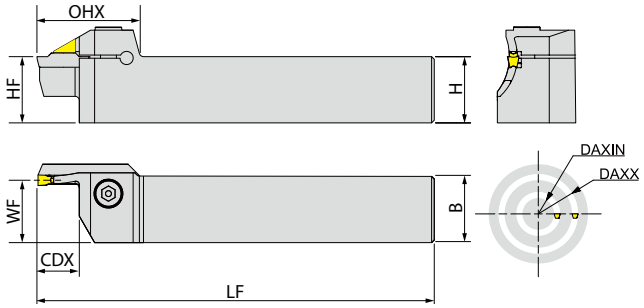
Designation		EDP 5700.. R	EDP 5700.. L	CW	CDX	H (= HF)	B	LF	WF	Insert
YTER/L 1212 - 2T15 - C	●	0194	0171	2	15	12	12	100	12.3	TD.2..
YTER/L 1616 - 2T15 - C	●	0197	0174	2	15	16	16	125	16.3	
YTER/L 2020 - 2T15 - C	●	0201	0178	2	15	20	20	125	20.3	
YTER/L 2020 - 2T17 - C	●	0202		2	17	20	20	125	20.3	
YTER/L 2020 - 2T20 - C	●	0203	0179	2	20	20	20	125	20.3	
YTER/L 2020 - 2T09 - C	●	0204	0180	2	09	20	20	125	20.3	
YTER/L 2525 - 2T17 - C	●	0208	0184	2	17	25	25	150	25.3	
YTER/L 1212 - 3T15 - C	●	0196	0173	3	15	12	12	100	12.4	TD.3..
YTER/L 1616 - 3T15 - C	●	0199	0176	3	15	16	16	125	16.4	
YTER/L 2020 - 3T20 - C	●	0205	0181	3	20	20	20	125	20.4	
YTER/L 2020 - 3T25 - C	●	0206	0182	3	25	20	20	125	20.4	
YTER/L 2020 - 3T30 - C	●	0207	0183	3	30	20	20	125	20.4	
YTER/L 2525 - 3T22 - C	●	0209	0185	3	22	25	25	150	25.4	
YTER/L 2525 - 3T25 - C	●	0210	0186	3	25	25	25	150	25.4	
YTER/L 2525 - 3T30 - C	●	0211	0187	3	30	25	25	150	25.4	
YTER/L 2525 - 3T09 - C	●	0212	0188	3	09	25	25	150	25.4	
YTER/L 3232 - 3T25 - C	●	0217	0192	3	25	32	32	170	32.4	
YTER/L 2525 - 4T22 - C	●	0213	0189	4	22	25	25	150	25.5	TD.4..
YTER/L 2525 - 4T25 - C	●	0214		4	25	25	25	150	25.5	
YTER/L 2525 - 4T30 - C	●	0215	0190	4	30	25	25	150	25.5	
YTER/L 2525 - 5T25 - C	●	0216	0191	5	25	25	25	150	25.5	TD.5..

Series	Designation	Infomation	Screw	Ring	Wrench
YTER/L	..-2..	Description	YAKV-02-M6X22	YABPL-01	YAAL-03-3
		EDP	18000195	18000058	18000061
	..-3.. / ..-4.. / ..-5..	Description	Y2004-M8X1X20	-	YAAL-05-4
		EDP	18000196	-	18000062

Parting & Grooving - Holder - External

External holders- Face grooving

NEW



: p. 119

Unit :mm

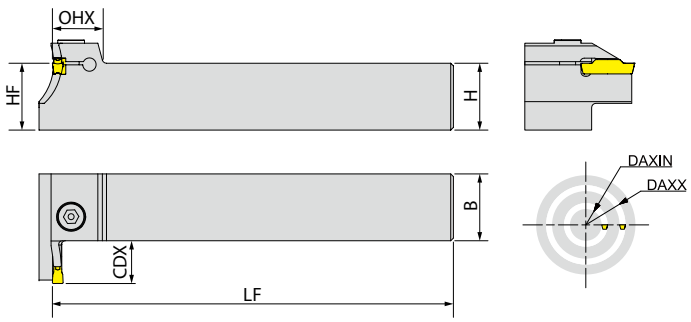
Designation	EDP 5700.. R	L	CW	DAXIN	DAXX	CDX	H (= HF)	B	LF	WF	Insert
YTFR 25M-D034050-3T10A	0599	-	3	34	50	10	25	25	150	24	TD.3..
YTFR 25M-D044060-3T15A	0600	-	3	44	60	15	25	25	150	24	
YTFR 25M-D054085-3T15A	0601	-	3	54	85	15	25	25	150	24	
YTFR 25M-D034050-4T15A	0602	-	4	34	50	15	25	25	150	23.6	TD.4..
YTFR 25M-D042060-4T15A	0603	-	4	42	60	15	25	25	150	23.6	
YTFR 25M-D052072-4T20A	0604	-	4	52	72	20	25	25	150	23.6	
YTFR 25M-D064120-4T20A	0605	-	4	64	120	20	25	25	150	23.6	
YTFR 25M-D112200-4T20A	0606	-	4	112	200	20	25	25	150	23.6	
YTFR 25M-D200-4T20A	0607	-	4	200	-	20	25	25	150	23.6	

Series	Designation	Infomation	Screw	Ring	Wrench
YTFR	..-S	Description	SHB-M6x1.0x25L	-	HL-05
		EDP	58000039	-	58000041

Parting & Grooving - Holder - External

External holders - Perpendicular Face grooving

NEW



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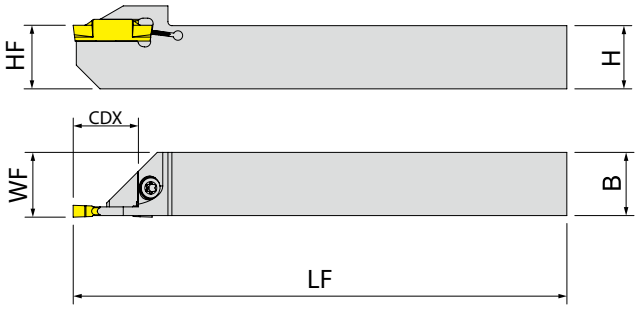
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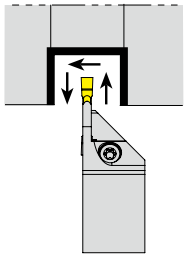
Designation	EDP 5700.. R	L	CW	DAXIN	DAXX	CDX	H (= HF)	B	LF	Insert
YTFPR25M - D034050 - 3T12A	0608	-	3	34	50	12	25	25	150	TD.3..
YTFPR25M - D044060 - 3T15A	0609	-	3	44	60	15	25	25	150	
YTFPR25M - D054085 - 3T15A	0610	-	3	54	85	15	25	25	150	
YTFPR25M - D034050 - 4T15A	0611	-	4	34	50	15	25	25	150	TD.4..
YTFPR25M - D042060 - 4T15A	0612	-	4	42	60	15	25	25	150	
YTFPR25M - D052072 - 4T20A	0613	-	4	52	72	20	25	25	150	
YTFPR25M - D064120 - 4T20A	0614	-	4	64	120	20	25	25	150	
YTFPR25M - D112200 - 4T20A	0615	-	4	112	200	20	25	25	150	

Series	Designation	Infomation	Screw	Ring	Wrench
YTFPR	16-2T..	Description	SHB-M6x1.0x25L	-	HL-05
		EDP	58000039	-	58000041
	20~25-3T..	Description	SHB-M6x1.0x25L	-	HL-05
		EDP	58000039	-	58000041
	32-3T..	Description	SHB-M6x1.0x25L	-	HL-05
		EDP	58000039	-	58000041

Parting & Grooving - Holder - External

External holders (Swiss Lathe)





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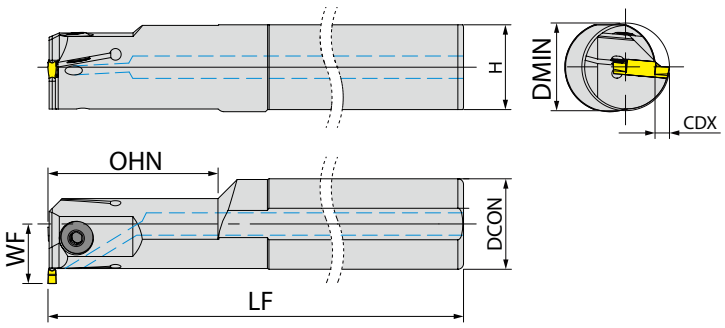
Unit :mm

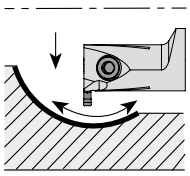
Designation		EDP 5700.. R	EDP 5700.. L	CW	CDX	H (= HF)	B	LF	WF	Insert
YTER/L 1212 - 2T12 - S		0048	-	2	12	12	12	125	12.2	TD.2..
YTER/L 1616 - 2T16 - S		0049	-	2	16	16	16	125	16.2	
YTER/L 1212 - 3T12 - S		0051	0050	3	12	12	12	125	12.3	TD.3..
YTER/L 1616 - 3T16 - S		0053	0052	3	16	16	16	125	16.3	
YTER/L 1212 - 2T12 - S - C	●	0193	0170	2	12	12	12	125	12.2	TD.2..
YTER/L 1616 - 2T16 - S - C	●	0198	0175	2	16	16	16	125	16.2	
YTER/L 1212 - 3T12 - S - C	●	0195	0172	3	12	12	12	125	12.3	TD.3..
YTER/L 1616 - 3T16 - S - C	●	0200	0177	3	16	16	16	125	16.3	

Series	Designation	Infomation	Screw	Ring	Wrench
YTER/L	..-S	Description	Y4015-M4x11	-	Y80-T15
		EDP	18000119	-	18000167

Parting & Grooving - Holder - Internal

Internal holders with Coolant supply





: p. 119

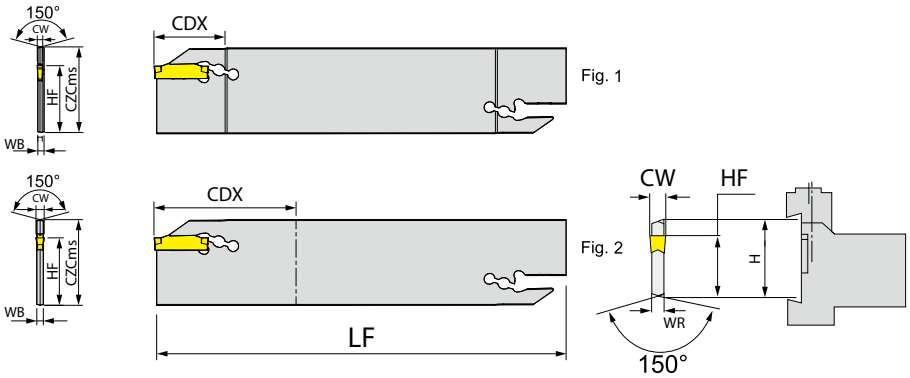
Unit : mm

Designation		EDP 5700.. R	EDP 5700.. L	CW	DMIN	CDX	DCON	H (= HF)	OHN	LF	WF	Insert
YTIR/L 16 - 2T8.5 - C	●	0222	0218	2	25	8.5	16	14.8	28	150	16.5	TD.2..
YTIR/L 20 - 3T06 - C	●	0223	0219	3	25	6	20	18.3	40	170	16	TD.3..
YTIR/L 25 - 3T06 - C	●	0224	0220	3	25	6	25	23	40	200	18.5	
YTIR/L 32 - 3T05 - C	●	0225	0221	3	31	5	32	30	60	250	21	

Series	Designation	Infomation	Screw	Ring	Wrench
YTIR/L	16-2T..	Description	Y2503-M4X10	-	YAAL-03-3
		EDP	18000197	-	18000061
	20-3T..	Description	Y2504-M5X12	-	YAAL-05-4
		EDP	18000198	-	18000062
	25-3T..	Description	Y2504-M5X16	-	YAAL-05-4
		EDP	58000028	-	18000062
	32-3T..	Description	Y2004-M8X1X20	-	YAAL-05-4
		EDP	18000196	-	18000062

Parting & Grooving - Holder

Blade



: p. 119

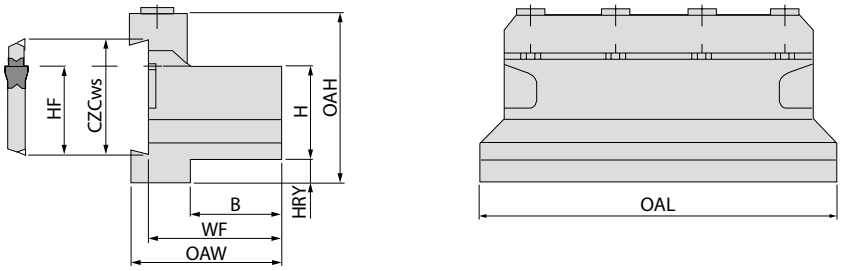
Unit:mm

Designation		EDP 5700..	CZCms	CW	CDX	HF	LF	WB	Insert	Fig
YGB 32 - 2		0058	32	2	25	25	150	2.4	TD.2..	1
YGB 32 - 3		0059	32	3	50	25	150	2.4	TD.3..	2
YGB 32 - 2 - C	●	0226	32	2	25	25	150	2.4	TD.2..	1
YGB 32 - 3 - C	●	0227	32	3	50	25	150	2.4	TD.3..	2

Series	Designation	Infomation	Screw	Ring	Wrench
YGB ..	..-32..	Description	-	-	YALA-02
		EDP	-	-	58000027

Parting & Grooving - Holder

Blade Block



: p. 119

Unit:mm

Designation	EDP 5700..	CZCws	H	B	HF	WF	HRY	OAL	OAH	OAW
YGBU 20 - 32	0060	32	20	19	25	32.7	13	100	50	38
YGBU 25 - 32	0061	32	25	23	25	36.7	8	110	50	42
YGBU 32 - 32	0062	32	32	29	25	42.7	5	110	54	48
YGBU 20 - 32 - C ●	0228	32	20	19	25	32.7	13	100	50	38
YGBU 25 - 32 - C ●	0229	32	25	23	25	36.7	8	110	50	42
YGBU 32 - 32 - C ●	0230	32	32	29	25	42.7	5	110	54	48

Series	Designation	Infomation	Screw	Ring	Wrench
YGBU	20-32	Description	YABK-03	Y2505-M6X30	YAAL-07-5
		EDP	18000204	18000199	18000203
	25~32-32	Description	YABK-04	Y2505-M6X30	YAAL-07-5
		EDP	18000205	18000199	18000203



SOLID MINIATURE TURNING for SMALL BORE

NEW

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Scan this QR code to see our **Nanocut** at work.

phone:+82-32-526-0909, www.yg1.solutions, E-mail: yg1@yg1.solutions

Code Keys - Boring Tool & Holder

Boring Tool

NC	BP	4	R	-	10.	04	-	005	-	YG812
Nanocut	Series: BP – Boring & Profiling	Connection Diameter (DCON) (4 mm)	Tool Direction: R – Right Hand, L – Left Hand		Minimum Bore Diameter (DMIN) (1 mm)	Usable Length (LU) (4 mm)		Corner Radius (RE) (0.05 mm)		Grade

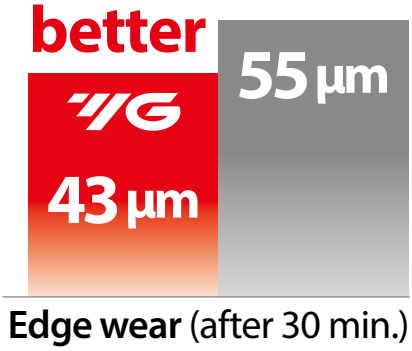
Holder

NC	H	I	-	16.	04	(i)
Nanocut	Holder	I – Internal		$DCON_{MS}$	$DCON_{WS}$	Inch

Success Story

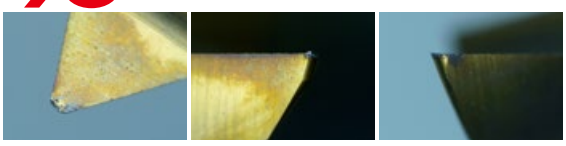
Cutting Conditions

Size	Ø 6 mm, R 0.2 mm
Work Material	SCM440 (HRc 20)
Cutting Speed	100 m/min.
RPM	637 rev./min.
Feed per Revolution	0.1 mm/rev.
Boring Depth	Axial: 10 mm Radial: 0.15 mm
Coolant	Wet Cut
Operation	Boring
Machine	Turn Mill

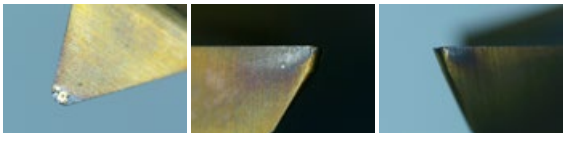


Edge wear (after 30 min.)

YG



Competitor



Overview

At present, as demand for small parts (camera lens, mobile phone parts) and medical instruments (implants) increases, demand for small-diameter products capable of high-precision processing is increasing.

Application



- Turning of Small Bore Components
- Internal Turning(Boring), Grooving and Threading

Features

- Minimum Diameter(Boring & Profiling series) : Ø 1 mm
- Internal Coolant for Longer Tool life and Enhanced Chip Evacuation
- Secure Connection Design: Pin + Slant Positioning
- 10 Geometries for Various Applications

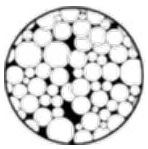
Benefits

- Reduced Machine Down Time
- Lower Machining Cost

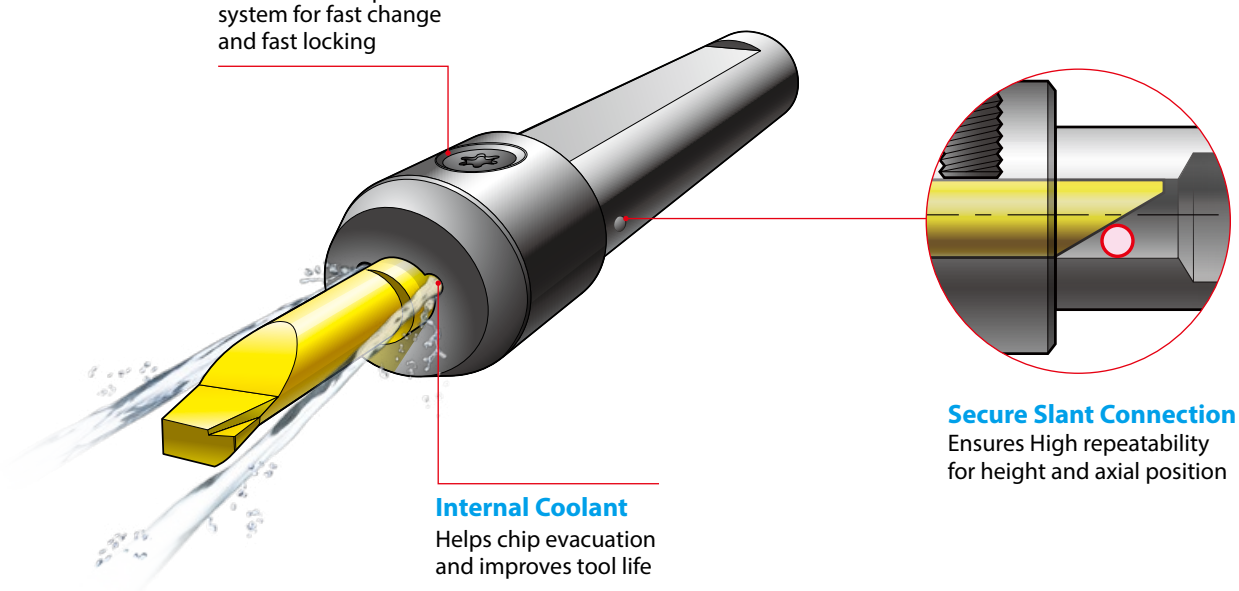
YG812 - Micro Grain Carbide Grade

P10 - P20 | M20 - M30 | K20 - K30 | S10 - S25

Submicron Grade Carbide Substrate Material for high toughness and wear resistance realizes high precision machining

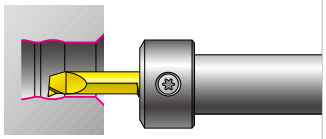
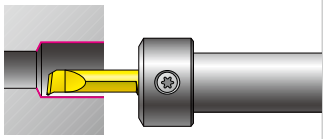
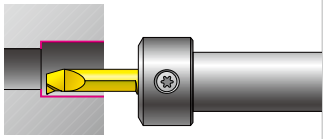
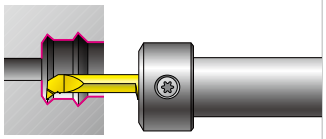


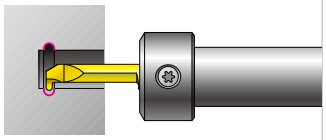
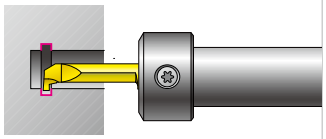
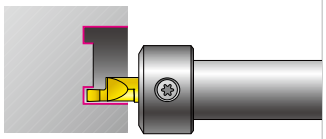
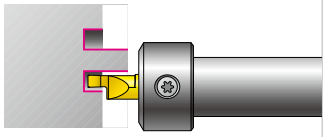
Advantages of Nanocut

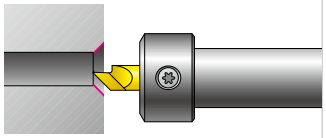
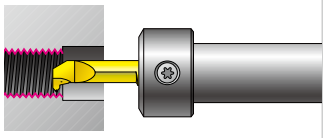


Overview

Recommended Cutting Conditions : p.223

Series		KAPR (°)	DCON (mm)	Page
BP Boring & Profiling		98	4,6	132
BO Boring with Chipbreaker		98		133
BF 90°Boring		90		134
PR Profiling		98		135

Series		CW (mm)	DCON (mm)	Page
GR Grooving Round		1.00 - 2.00	4,6	136
GS Grooving Square		0.79 - 2.00		137
FI Face Grooving Internal		1.00 - 3.00		138
FE Face Grooving External		1.00 - 3.00		138

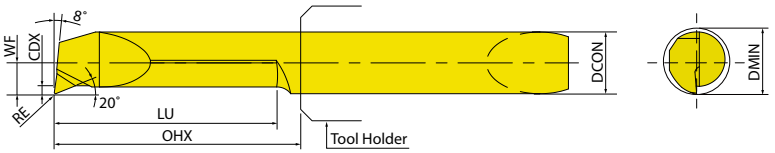
Series		WF (mm)	DCON (mm)	Page
CH Chamfering		0.50 - 1.10	4,6	139
TH Threading		2.00 - 2.95		140

Series		$DCON_{WS}$ (mm)	$DCON_{MS}$ (mm)	Page
Holder		4,6	12-25	141

Boring Tool

BP - Boring & Profiling NEW





●: Stock item
○: Order made item

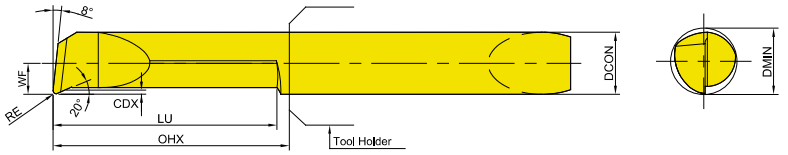
KAPR	DCON (mm)	Designation	EDP	Metric (mm)							YG812
				DMIN	LU	RE	CDX	WF	OHX	OAL	
98°	4	NCBP4R-10.04-005-YG812	NCBP04R1004005T	1	4	0.05	0.1	0.45	13	28	●
		NCBP4R-10.04-010-YG812	NCBP04R1004010T	1	4	0.10	0.1	0.45	13	28	●
		NCBP4R-10.06-005-YG812	NCBP04R1006005T	1	6	0.05	0.1	0.45	13	28	●
		NCBP4R-10.06-010-YG812	NCBP04R1006010T	1	6	0.10	0.1	0.45	13	28	●
		NCBP4R-17.06-005-YG812	NCBP04R1706005T	1.7	6	0.05	0.2	0.7	13	28	○
		NCBP4R-17.06-010-YG812	NCBP04R1706010T	1.7	6	0.10	0.2	0.7	13	28	●
		NCBP4R-17.09-005-YG812	NCBP04R1709005T	1.7	9	0.05	0.2	0.7	13	28	○
		NCBP4R-17.09-010-YG812	NCBP04R1709010T	1.7	9	0.10	0.2	0.7	13	28	●
		NCBP4R-22.06-005-YG812	NCBP04R2206005T	2.2	6	0.05	0.2	0.95	13	28	○
		NCBP4R-22.06-010-YG812	NCBP04R2206010T	2.2	6	0.10	0.2	0.95	13	28	●
		NCBP4R-22.09-005-YG812	NCBP04R2209005T	2.2	9	0.05	0.2	0.95	13	28	○
		NCBP4R-22.09-010-YG812	NCBP04R2209010T	2.2	9	0.10	0.2	0.95	13	28	●
		NCBP4R-22.13-010-YG812	NCBP04R2213010T	2.2	13	0.10	0.2	0.95	18	33	●
		NCBP4R-27.10-005-YG812	NCBP04R2710005T	2.7	10	0.05	0.2	1.2	13	28	○
		NCBP4R-27.10-015-YG812	NCBP04R2710015T	2.7	10	0.15	0.2	1.2	13	28	●
		NCBP4R-27.15-005-YG812	NCBP04R2715005T	2.7	15	0.05	0.2	1.2	18	33	○
		NCBP4R-27.15-015-YG812	NCBP04R2715015T	2.7	15	0.15	0.2	1.2	18	33	●
		NCBP4R-32.10-015-YG812	NCBP04R3210015T	3.2	10	0.15	0.2	1.45	13	28	●
		NCBP4R-32.15-015-YG812	NCBP04R3215015T	3.2	15	0.15	0.2	1.45	18	33	●
		NCBP4R-32.20-005-YG812	NCBP04R3220005T	3.2	20	0.05	0.2	1.45	23	38	○
		NCBP4R-32.20-015-YG812	NCBP04R3220015T	3.2	20	0.15	0.2	1.45	23	38	●
		NCBP4R-42.10-015-YG812	NCBP04R4210015T	4.2	10	0.15	0.3	1.95	13	28	●
		NCBP4R-42.15-005-YG812	NCBP04R4215005T	4.2	15	0.05	0.3	1.95	18	33	○
		NCBP4R-42.15-015-YG812	NCBP04R4215015T	4.2	15	0.15	0.3	1.95	18	33	●
		NCBP4R-42.20-005-YG812	NCBP04R4220005T	4.2	20	0.05	0.3	1.95	23	38	○
		NCBP4R-42.20-015-YG812	NCBP04R4220015T	4.2	20	0.15	0.3	1.95	23	38	●
		NCBP4R-42.25-005-YG812	NCBP04R4225005T	4.2	25	0.05	0.3	1.95	28	43	○
		NCBP4R-42.25-015-YG812	NCBP04R4225015T	4.2	25	0.15	0.3	1.95	28	43	●
	6	NCBP6R-62.15-020-YG812	NCBP06R6215020T	6.2	15	0.20	0.5	2.95	20.5	43	●
		NCBP6R-62.20-020-YG812	NCBP06R6220020T	6.2	20	0.20	0.5	2.95	25.5	48	●
		NCBP6R-62.25-020-YG812	NCBP06R6225020T	6.2	25	0.20	0.5	2.95	30.5	53	●
		NCBP6R-62.30-020-YG812	NCBP06R6230020T	6.2	30	0.20	0.5	2.95	35.5	58	●
		NCBP6R-62.35-020-YG812	NCBP06R6235020T	6.2	35	0.20	0.5	2.95	40.5	63	●
		NCBP6R-62.40-020-YG812	NCBP06R6240020T	6.2	40	0.20	0.5	2.95	45.5	68	●

Boring Tool

BO - Boring with Chip Breaker

NEW





●: Stock item
○: Order made item

KAPR	DCON (mm)	Designation	EDP	Metric (mm)							YG812
				DMIN	LU	RE	CDX	WF	OHX	OAL	
98°	4	NCBO4R-10.06-005-YG812	NCBO04R1006005T	1	6	0.05	0.1	0.45	13	28	○
		NCBO4R-10.06-010-YG812	NCBO04R1006010T	1	6	0.10	0.1	0.45	13	28	●
		NCBO4R-17.09-005-YG812	NCBO04R1709005T	1.7	9	0.05	0.2	0.7	13	28	○
		NCBO4R-17.09-010-YG812	NCBO04R1709010T	1.7	9	0.10	0.2	0.7	13	28	○
		NCBO4R-22.09-005-YG812	NCBO04R2209005T	2.2	9	0.05	0.2	0.95	13	28	○
		NCBO4R-22.09-010-YG812	NCBO04R2209010T	2.2	9	0.10	0.2	0.95	13	28	●
		NCBO4R-22.13-010-YG812	NCBO04R2213010T	2.2	13	0.10	0.2	0.95	18	33	○
		NCBO4R-27.15-005-YG812	NCBO04R2715005T	2.7	15	0.05	0.2	1.2	18	33	○
		NCBO4R-27.15-015-YG812	NCBO04R2715015T	2.7	15	0.15	0.2	1.2	18	33	○
		NCBO4R-32.15-015-YG812	NCBO04R3215015T	3.2	15	0.15	0.2	1.45	18	33	●
		NCBO4R-32.20-005-YG812	NCBO04R3220005T	3.2	20	0.05	0.2	1.45	23	38	○
		NCBO4R-32.20-015-YG812	NCBO04R3220015T	3.2	20	0.15	0.2	1.45	23	38	●
		NCBO4R-42.20-005-YG812	NCBO04R4220005T	4.2	20	0.05	0.3	1.95	23	38	○
		NCBO4R-42.20-015-YG812	NCBO04R4220015T	4.2	20	0.15	0.3	1.95	23	38	●
		NCBO4R-42.25-005-YG812	NCBO04R4225005T	4.2	25	0.05	0.3	1.95	28	43	○
		NCBO4R-42.25-015-YG812	NCBO04R4225015T	4.2	25	0.15	0.3	1.95	28	43	●
	6	NCBO6R-62.15-020-YG812	NCBO06R6215020T	6.2	15	0.20	0.5	2.95	20.5	43	●
		NCBO6R-62.25-020-YG812	NCBO06R6225020T	6.2	25	0.20	0.5	2.95	30.5	53	●
		NCBO6R-62.30-020-YG812	NCBO06R6230020T	6.2	30	0.20	0.5	2.95	35.5	58	●
		NCBO6R-62.35-020-YG812	NCBO06R6235020T	6.2	35	0.20	0.5	2.95	40.5	63	●
		NCBO6R-62.40-020-YG812	NCBO06R6240020T	6.2	40	0.20	0.5	2.95	45.5	68	○

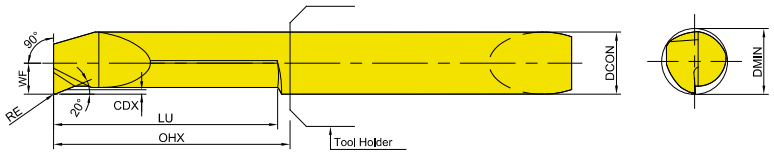
YGTURN

Boring Tool

BF - 90° Boring

NEW





●: Stock item
○: Order made item

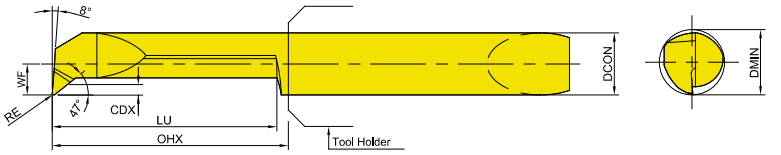
KAPR	DCON (mm)	Designation	EDP	Metric (mm)							YG812
				DMIN	LU	RE	CDX	WF	OHX	OAL	
90°	4	NCBF4R-10.04-010-YG812	NCBF04R1004010T	1	4	0.10	0.1	0.45	13	28	○
		NCBF4R-10.06-010-YG812	NCBF04R1006010T	1	6	0.10	0.1	0.45	13	28	○
		NCBF4R-17.06-010-YG812	NCBF04R1706010T	1.7	6	0.10	0.2	0.7	13	28	○
		NCBF4R-17.09-010-YG812	NCBF04R1709010T	1.7	9	0.10	0.2	0.7	13	28	○
		NCBF4R-22.06-010-YG812	NCBF04R2206010T	2.2	6	0.10	0.2	0.95	13	28	○
		NCBF4R-22.09-010-YG812	NCBF04R2209010T	2.2	9	0.10	0.2	0.95	13	28	○
		NCBF4R-22.13-010-YG812	NCBF04R2213010T	2.2	13	0.10	0.2	0.95	18	33	○
		NCBF4R-27.10-015-YG812	NCBF04R2710015T	2.7	10	0.15	0.2	1.2	13	28	○
		NCBF4R-27.15-015-YG812	NCBF04R2715015T	2.7	15	0.15	0.2	1.2	18	33	○
		NCBF4R-32.10-015-YG812	NCBF04R3210015T	3.2	10	0.15	0.2	1.45	13	28	○
		NCBF4R-32.15-015-YG812	NCBF04R3215015T	3.2	15	0.15	0.2	1.45	18	33	○
		NCBF4R-32.20-015-YG812	NCBF04R3220015T	3.2	20	0.15	0.2	1.45	23	38	○
		NCBF4R-42.10-015-YG812	NCBF04R4210015T	4.2	10	0.15	0.3	1.95	13	28	○
		NCBF4R-42.15-015-YG812	NCBF04R4215015T	4.2	15	0.15	0.3	1.95	18	33	○
		NCBF4R-42.20-015-YG812	NCBF04R4220015T	4.2	20	0.15	0.3	1.95	23	38	○
		NCBF4R-42.25-015-YG812	NCBF04R4225015T	4.2	25	0.15	0.3	1.95	28	43	○
	6	NCBF6R-62.15-020-YG812	NCBF06R6215020T	6.2	15	0.20	0.5	2.95	20.5	43	○
		NCBF6R-62.20-020-YG812	NCBF06R6220020T	6.2	20	0.20	0.5	2.95	25.5	48	○
		NCBF6R-62.25-020-YG812	NCBF06R6225020T	6.2	25	0.20	0.5	2.95	30.5	53	○
		NCBF6R-62.30-020-YG812	NCBF06R6230020T	6.2	30	0.20	0.5	2.95	35.5	58	○
		NCBF6R-62.35-020-YG812	NCBF06R6235020T	6.2	35	0.20	0.5	2.95	40.5	63	○
		NCBF6R-62.40-020-YG812	NCBF06R6240020T	6.2	40	0.20	0.5	2.95	45.5	68	○

Boring Tool

PR - Profiling

NEW





●: Stock item
○: Order made item

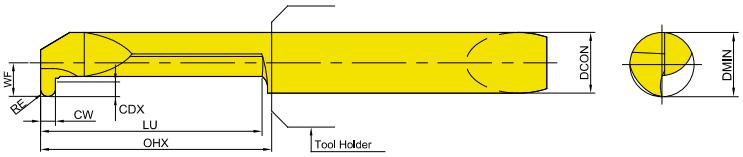
KAPR	DCON (mm)	Designation	EDP	Metric (mm)							YG812
				DMIN	LU	RE	CDX	WF	OHX	OAL	
98°	4	NCPR4R-10.04-010-YG812	NCPR04R1004010T	1	4	0.10	0.1	0.45	13	28	○
		NCPR4R-10.06-010-YG812	NCPR04R1006010T	1	6	0.10	0.1	0.45	13	28	○
		NCPR4R-17.06-010-YG812	NCPR04R1706010T	1.7	6	0.10	0.2	0.7	13	28	○
		NCPR4R-17.09-010-YG812	NCPR04R1709010T	1.7	9	0.10	0.2	0.7	13	28	○
		NCPR4R-22.06-010-YG812	NCPR04R2206010T	2.2	6	0.10	0.2	0.95	13	28	○
		NCPR4R-22.09-010-YG812	NCPR04R2209010T	2.2	9	0.10	0.2	0.95	13	28	○
		NCPR4R-22.13-010-YG812	NCPR04R2213010T	2.2	13	0.10	0.2	0.95	18	33	○
		NCPR4R-27.10-015-YG812	NCPR04R2710015T	2.7	10	0.15	0.2	1.2	13	28	○
		NCPR4R-27.15-015-YG812	NCPR04R2715015T	2.7	15	0.15	0.2	1.2	18	33	○
		NCPR4R-32.10-015-YG812	NCPR04R3210015T	3.2	10	0.15	0.2	1.45	13	28	○
		NCPR4R-32.15-015-YG812	NCPR04R3215015T	3.2	15	0.15	0.2	1.45	18	33	○
		NCPR4R-32.20-015-YG812	NCPR04R3220015T	3.2	20	0.15	0.2	1.45	23	38	○
		NCPR4R-42.10-015-YG812	NCPR04R4210015T	4.2	10	0.15	0.3	1.95	13	28	●
		NCPR4R-42.15-015-YG812	NCPR04R4215015T	4.2	15	0.15	0.3	1.95	18	33	●
		NCPR4R-42.20-015-YG812	NCPR04R4220015T	4.2	20	0.15	0.3	1.95	23	38	●
		NCPR4R-42.25-015-YG812	NCPR04R4225015T	4.2	25	0.15	0.3	1.95	28	43	○
	6	NCPR6R-62.15-020-YG812	NCPR06R6215020T	6.2	15	0.20	0.5	2.95	20.5	43	●
		NCPR6R-62.20-020-YG812	NCPR06R6220020T	6.2	20	0.20	0.5	2.95	25.5	48	●
		NCPR6R-62.25-020-YG812	NCPR06R6225020T	6.2	25	0.20	0.5	2.95	30.5	53	○
		NCPR6R-62.30-015-YG812	NCPR06R6230015T	6.2	30	0.15	0.5	2.95	35.5	58	●
		NCPR6R-62.30-020-YG812	NCPR06R6230020T	6.2	30	0.20	0.5	2.95	35.5	58	○
		NCPR6R-62.35-020-YG812	NCPR06R6235020T	6.2	35	0.20	0.5	2.95	40.5	63	○
		NCPR6R-62.40-020-YG812	NCPR06R6240020T	6.2	40	0.20	0.5	2.95	45.5	68	○

Boring Tool

GR - Grooving Round

NEW





●: Stock item
○: Order made item

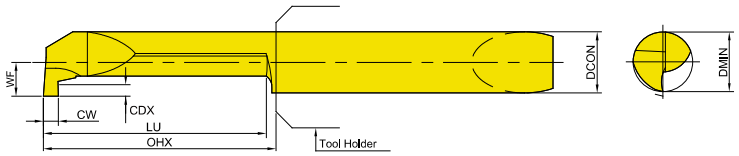
DCON (mm)	Designation	EDP	Metric (mm)								YG812
			DMIN	LU	RE	CW	CDX	WF	OHX	OAL	
4	NCGR4R-42.15-10x08-YG812	NCGR04R4215100T	4.2	15	0.5	1.0	0.8	1.95	18	33	○
	NCGR4R-42.15-12x08-YG812	NCGR04R4215120T	4.2	15	0.58	1.2	0.8	1.95	18	33	○
	NCGR4R-42.15-15x08-YG812	NCGR04R4215150T	4.2	15	0.75	1.5	1	1.95	18	33	○
	NCGR4R-42.15-16x08-YG812	NCGR04R4215160T	4.2	15	0.81	1.6	1	1.95	18	33	○
6	NCGR6R-62.25-10x18-YG812	NCGR06R6225100T	6.2	25	0.5	1.0	1.8	2.95	30.5	53	○
	NCGR6R-62.25-15x18-YG812	NCGR06R6225150T	6.2	25	0.75	1.5	1.8	2.95	30.5	53	○
	NCGR6R-62.25-16x18-YG812	NCGR06R6225160T	6.2	25	0.81	1.6	1.8	2.95	30.5	53	○
	NCGR6R-62.25-20x18-YG812	NCGR06R6225200T	6.2	25	1	2.0	1.8	2.95	30.5	53	○

Boring Tool

GS - Grooving Square

NEW





●: Stock item
○: Order made item

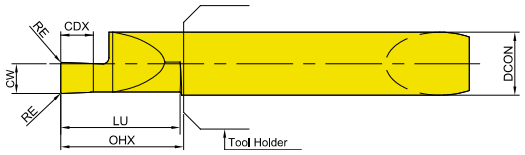
DCON (mm)	Designation	EDP	Metric (mm)							YG812
			DMIN	LU	CW	CDX	WF	OHX	OAL	
4	NCGS4R-42.10-079x08-YG812	NCGS04R4210079T	4.2	10	0.79	0.8	1.95	13	38	○
	NCGS4R-42.15-079x08-YG812	NCGS04R4215079T	4.2	15	0.79	0.8	1.95	18	43	○
	NCGS4R-42.20-079x08-YG812	NCGS04R4220079T	4.2	20	0.79	0.8	1.95	23	48	○
	NCGS4R-42.10-100x08-YG812	NCGS04R4210100T	4.2	10	1.00	0.8	1.95	13	38	●
	NCGS4R-42.15-100x08-YG812	NCGS04R4215100T	4.2	15	1.00	0.8	1.95	18	43	●
	NCGS4R-42.20-100x08-YG812	NCGS04R4220100T	4.2	20	1.00	0.8	1.95	23	48	○
6	NCGS6R-62.10-079x18-YG812	NCGS06R6210079T	6.2	10	0.79	1.8	2.95	15.5	38	○
	NCGS6R-62.15-079x18-YG812	NCGS06R6215079T	6.2	15	0.79	1.8	2.95	20.5	43	○
	NCGS6R-62.25-079x18-YG812	NCGS06R6225079T	6.2	25	0.79	1.8	2.95	30.5	53	○
	NCGS6R-62.35-079x18-YG812	NCGS06R6235079T	6.2	35	0.79	1.8	2.95	40.5	63	○
	NCGS6R-62.10-100x18-YG812	NCGS06R6210100T	6.2	10	1.00	1.8	2.95	15.5	38	○
	NCGS6R-62.15-100x18-YG812	NCGS06R6215100T	6.2	15	1.00	1.8	2.95	20.5	43	●
	NCGS6R-62.25-100x18-YG812	NCGS06R6225100T	6.2	25	1.00	1.8	2.95	30.5	53	●
	NCGS6R-62.35-100x18-YG812	NCGS06R6235100T	6.2	35	1.00	1.8	2.95	40.5	63	○
	NCGS6R-62.10-117x18-YG812	NCGS06R6210117T	6.2	10	1.17	1.8	2.95	15.5	38	○
	NCGS6R-62.15-117x18-YG812	NCGS06R6215117T	6.2	15	1.17	1.8	2.95	20.5	43	○
	NCGS6R-62.25-117x18-YG812	NCGS06R6225117T	6.2	25	1.17	1.8	2.95	30.5	53	○
	NCGS6R-62.35-117x18-YG812	NCGS06R6235117T	6.2	35	1.17	1.8	2.95	40.5	63	○
	NCGS6R-62.10-150x18-YG812	NCGS06R6210150T	6.2	10	1.50	1.8	2.95	15.5	38	●
	NCGS6R-62.15-150x18-YG812	NCGS06R6215150T	6.2	15	1.50	1.8	2.95	20.5	43	●
	NCGS6R-62.25-150x18-YG812	NCGS06R6225150T	6.2	25	1.50	1.8	2.95	30.5	53	●
	NCGS6R-62.35-150x18-YG812	NCGS06R6235150T	6.2	35	1.50	1.8	2.95	40.5	63	○
	NCGS6R-62.10-157x18-YG812	NCGS06R6210157T	6.2	10	1.57	1.8	2.95	15.5	38	○
	NCGS6R-62.15-157x18-YG812	NCGS06R6215157T	6.2	15	1.57	1.8	2.95	20.5	43	○
	NCGS6R-62.25-157x18-YG812	NCGS06R6225157T	6.2	25	1.57	1.8	2.95	30.5	53	○
	NCGS6R-62.35-157x18-YG812	NCGS06R6235157T	6.2	35	1.57	1.8	2.95	40.5	63	○
	NCGS6R-62.10-198x18-YG812	NCGS06R6210198T	6.2	10	1.98	1.8	2.95	15.5	38	○
	NCGS6R-62.15-198x18-YG812	NCGS06R6215198T	6.2	15	1.98	1.8	2.95	20.5	43	○
	NCGS6R-62.25-198x18-YG812	NCGS06R6225198T	6.2	25	1.98	1.8	2.95	30.5	53	○
	NCGS6R-62.30-198x18-YG812	NCGS06R6230198T	6.2	30	1.98	1.8	2.95	35.5	58	○
	NCGS6R-62.10-200x18-YG812	NCGS06R6210200T	6.2	10	2.00	1.8	2.95	15.5	38	●
	NCGS6R-62.15-200x18-YG812	NCGS06R6215200T	6.2	15	2.00	1.8	2.95	20.5	43	●
	NCGS6R-62.25-200x18-YG812	NCGS06R6225200T	6.2	25	2.00	1.8	2.95	30.5	53	●

Boring Tool

FI - Face Grooving Internal

NEW





●: Stock item
○: Order made item

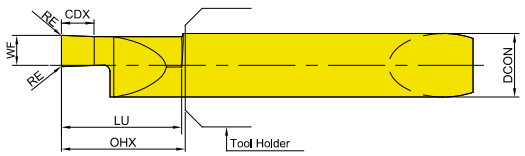
DCON (mm)	Designation	EDP	Metric (mm)								YG812
			DMIN	LU	RE	CW	CDX	WF	OHX	OAL	
6	NCFI6R-62.15-10x20-YG812	NCFI06R6215010T	6.2	15	0.1	1.0	2.0	2.95	20.5	43	●
	NCFI6R-62.15-15x30-YG812	NCFI06R6215015T	6.2	15	0.1	1.5	3.0	2.95	20.5	43	●
	NCFI6R-62.15-20x40-YG812	NCFI06R6215020T	6.2	15	0.1	2.0	4.0	2.95	20.5	43	●
	NCFI6R-62.15-25x50-YG812	NCFI06R6215025T	6.2	15	0.1	2.5	5.0	2.95	20.5	43	●
	NCFI6R-62.15-30x60-YG812	NCFI06R6215030T	6.2	15	0.1	3.0	6.0	2.95	20.5	43	●

Boring Tool

FE - Face Grooving External

NEW





●: Stock item
○: Order made item

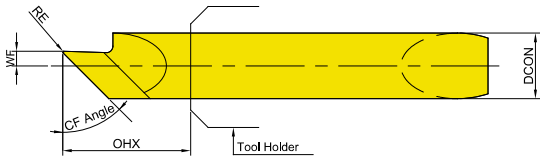
DCON (mm)	Designation	EDP	Metric (mm)								YG812
			DMIN	LU	RE	CW	CDX	WF	OHX	OAL	
6	NCFE6R-62.15-10x20-YG812	NCFE06R6215010T	6.2	15	0.1	1.0	2.0	2.95	20.5	43	●
	NCFE6R-62.15-15x30-YG812	NCFE06R6215015T	6.2	15	0.1	1.5	3.0	2.95	20.5	43	●
	NCFE6R-62.15-20x40-YG812	NCFE06R6215020T	6.2	15	0.1	2.0	4.0	2.95	20.5	43	●
	NCFE6R-62.15-25x50-YG812	NCFE06R6215025T	6.2	15	0.1	2.5	5.0	2.95	20.5	43	●
	NCFE6R-62.15-30x60-YG812	NCFE06R6215030T	6.2	15	0.1	3.0	6.0	2.95	20.5	43	●

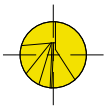
Boring Tool

CH - Chamfering

NEW







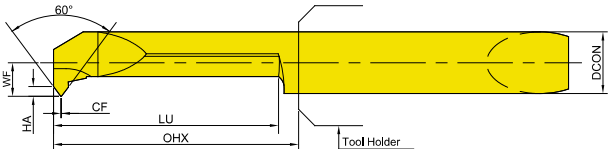
●: Stock item
○: Order made item

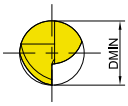
KAPR	DCON (mm)	Designation	EDP	Metric (mm)						YG812
				DMIN	RE	CDX	WF	OHX	OAL	
45°	6	NCCH6R-10.03-45-YG812	NCCH06R103045T	1.0	0.2	3.5	1.1	15.5	38	○
60°		NCCH6R-10.04-60-YG812	NCCH06R103060T	1.0	0.2	4	0.5	15.5	38	○

Boring Tool

TH - Threading NEW







* P-60 : Partial Profile, 60°

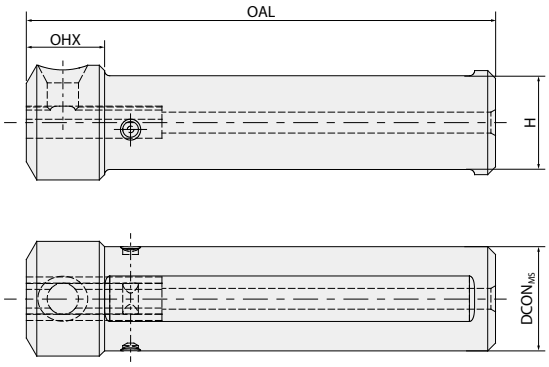
DCON (mm)	Designation	EDP	Metric (mm)									YG812
			DMIN	LU	TPN	TPX	WF	HA	CF	OHX	OAL	
4	NCTH04R-42.15-050-P-60-YG812	NCTV04R4215050T	4.2	15	0.50	0.70	2	0.45	0.06	18	33	○
	NCTH04R-42.15-075-P-60-YG812	NCTV04R4215075T	4.2	15	0.75	1.00	2.35	0.65	0.09	18	33	○
	NCTH04R-42.15-100-P-60-YG812	NCTV04R4215100T	4.2	15	1.00	1.25	2.25	0.8	0.12	18	33	○
6	NCTH06R-62.15-100-P-60-YG812	NCTV06R6215100T	6.2	15	1.00	1.25	2.95	0.8	0.12	20.5	43	○
	NCTH06R-62.15-125-P-60-YG812	NCTV06R6215125T	6.2	15	1.25	1.50	2.3	0.97	0.15	20.5	43	○
	NCTH06R-62.15-150-P-60-YG812	NCTV06R6215150T	6.2	15	1.50	1.75	2.95	1.14	0.18	20.5	43	○

Boring ToolHolder

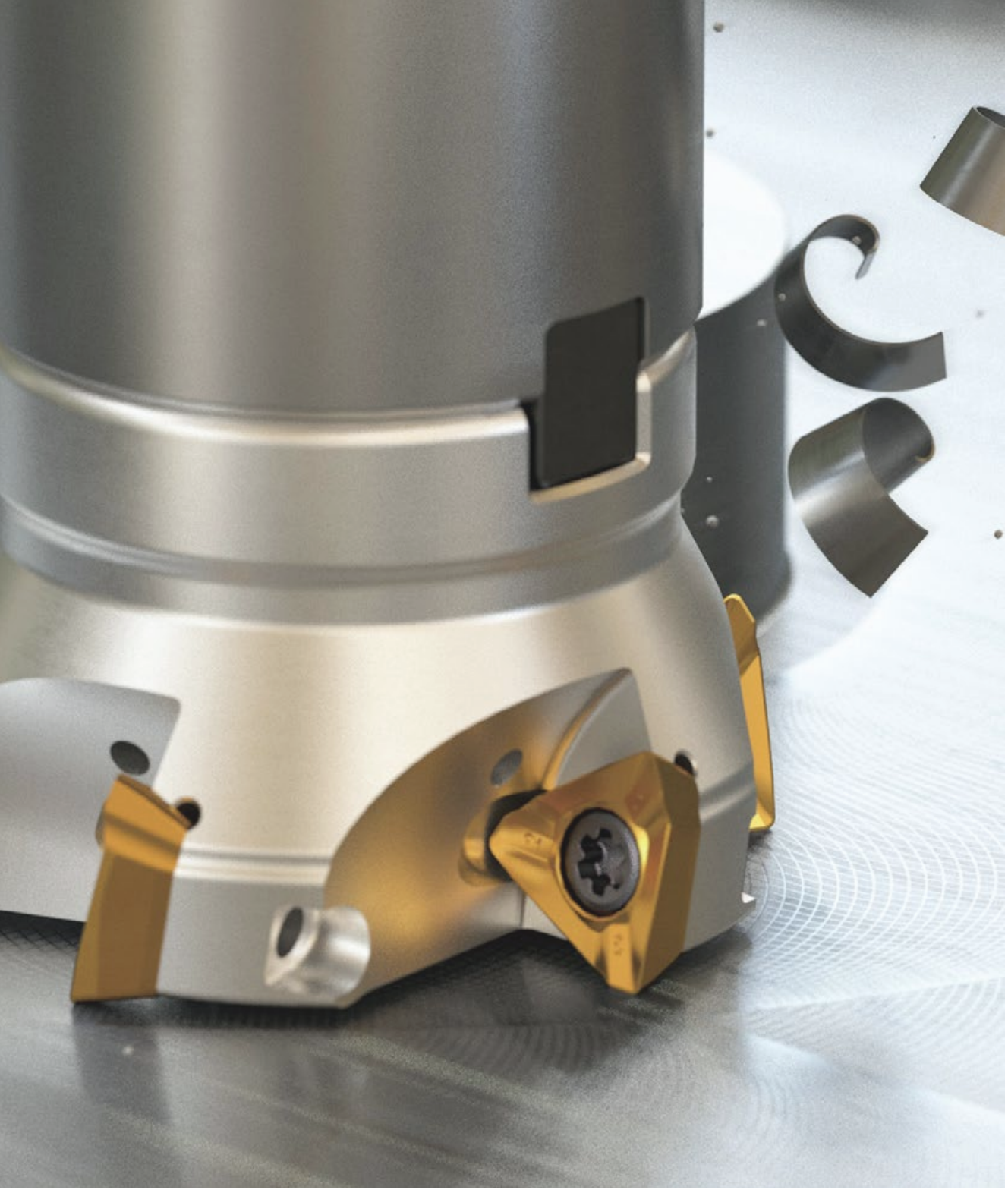
Holder NEW







Scale	Insert Size ($DCON_{WS}$)	Designation	EDP	$DCON_{MS}$	OAL	H	OAH	OHX
Metric (mm)	4	NCHI - 12.4	ZBR0400012	12	70	10	15.5	14
		NCHI - 16.4	ZBR0400016	16	75	14	17.5	
		NCHI - 20.4	ZBR0400020	20	90	18	20	
		NCHI - 22.4	ZBR0400022	22	110	20	22	
		NCHI - 25.4	ZBR0400025	25	110	23	25	
	6	NCHI - 12.6	ZBR0600012	12	70	10	16.5	
		NCHI - 16.6	ZBR0600016	16	75	14	18.5	
		NCHI - 20.6	ZBR0600020	20	90	18	22	
		NCHI - 22.6	ZBR0600022	22	110	20	22	
		NCHI - 25.6	ZBR0600025	25	110	23	25	

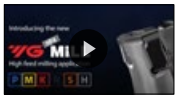


MILLING

Product Overview
Application Guide
Milling Inserts & Cutter Overview
Milling Inserts & Cutter

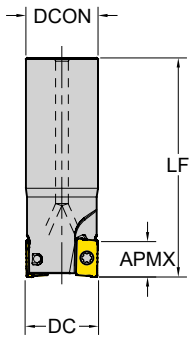


Scan this QR code to see our **YG SM3 Mill** at work.

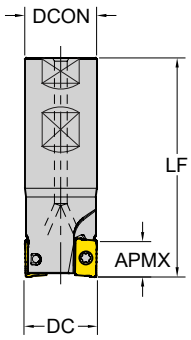


Scan this QR code to see our **YG HF4 Mill** at work.

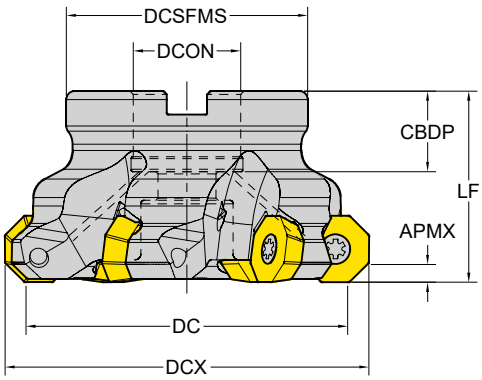
Code Keys - Milling Cutters



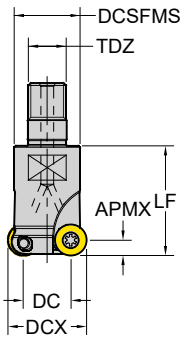
<C> Cylindrical



<W> Weldon



<S> Shellmill



<M> Modular

Entering Cutting Angle
(90˚)

Cutter Diameter
(Ø16)

Connection Type and Size
C - Cylindrical
W - Weldon
S - Shellmill
M - Modular
(Cylindrical Ø16)

* Shank Type Only

E	90	-	APKT10	-	D16	Z2	C16	-	L100
	KAPR				DC or DCX	CICT	DCON or TDZ		LF*

Cutter Type
E - Endmill Type
F - Facemill Type
M - Modular Type

Insert Series
(APKT 10)

Number of Teeth
(Z=2)

Functional Length
(100mm)

Milling - Code System

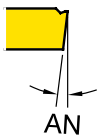
Insert ISO Code System

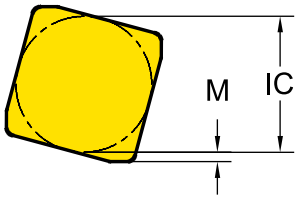
1	2	3	4	5	6	7
A	**P**	**K**	**T**	**16**	**04**	**08**
Shape	Relief Angle (AN)	Tolerance	Clamping & Chipbreaker	Insert Size	Insert Thickness (S)	Corner Radius

1 - Shape

Symbol	Shape	
H	Hexagonal	
O	Octagonal	
P	Pentagonal	
S	Square	
T	Triangular	
W	Trigon	
L	Rectangular	
A	Parallelogram 80°	
R	Round	

2 - Relief Angle (AN)

Symbol	Relief Angle (AN)	
N	No Relief Angle	
B	Relief 5°	
C	Relief 7°	
P	Relief 11°	
D	Relief 15°	
E	Relief 20°	
F	Relief 25°	
O	Special	

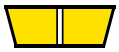
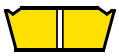


3 - Tolerance Class

Symbol	InnerCircleIC (mm)	Nose Height M (mm)	Thickness S (mm)
C	± 0.025	± 0.013	± 0.025
E	± 0.025	± 0.025	± 0.025
G	± 0.025	± 0.025	± 0.13
H	± 0.013	± 0.013	± 0.025
K*	± 0.05~0.15*	± 0.013	± 0.025
M*	± 0.05~0.15*	± 0.08~0.2*	± 0.13
U*	± 0.08~0.25*	± 0.13~0.38*	±0.13

* Tolerance is different by insert IC size. Please see ISO 1832

4 - Clamping & Chipbreaker

Symbol	Clamping	Chipbreaker	Figure
N	No clamping hole	X	
R		One Face	
W	Screw Hole	X	
T		One Face	
U		Both Faces	
X	Special		

5 - Insert Size

* No Standard for milling insert size

6 - Insert Thickness

* No Standard for milling insert thickness

Milling - Code System

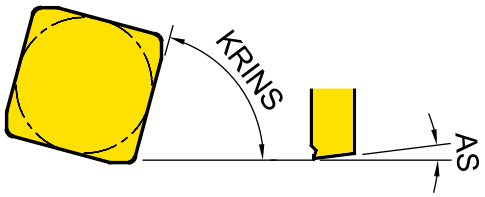
Insert ISO Code System

	page 147		page 146	
(	8	9	10	)
	PDTR	**-TR**	**YG602**	
	Corner Geometry	Chipbreaker	Grade	

7 - Corner Radius (RE)

Symbol	Corner Radius - RE(mm)	Symbol	Corner Radius - RE(mm)
04	0.4	**16**	1.6
08	0.8	**20**	2.0
12	1.2	**24**	2.4

8 - Corner Geometry



8-1	8-2	8-3	8-4
P	**D**	**T**	**R**
Cutting Edge Angle (KRINS)	Wiper Edge Clearance (AS)	Edge Condition	Feed Direction

*Refer to page. 147 for -AL, -ST, -TR… types

8-1 - Cutting Edge Angle (KRINS)

Symbol	Cutting Edge Angle (KRINS)
P	90°
A	45°
D	60°
E	75°
F	85°
Z	Special

8-3 - Edge Condition

Symbol	Edge Condition	
F	Sharp	
E	Round	
T	Chamfer	
S	Chamfer and Round	

8-2 - Wiper Edge Clearance (AS)

Symbol	Wiper Edge Clearance (AS)
N	0°
P	11°
D	15°
E	20°
F	25°
Z	Special

8-4 - Feed Direction

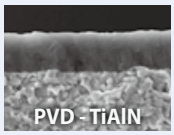
Symbol	Feed Direction	
R	Right-hand Insert	
N	Neutral Insert	
L	Left-hand Insert	

Milling Grades and Chipbreakers

Milling Grades

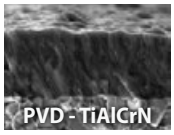
Milling Grades		P Steel	M Stainless steel	K Cast iron	N Non-ferrous	S Super alloys	H Hardened Steel
		P05 P15 P25 P35 P45	M05 M15 M25 M35	K05 K15 K25 K35	N05 N15 N25 N35	S05 S15 S25 S35	H05 H15 H25 H35
PVD	YG012	012					012
PVD	YG712	712					
PVD	YG713	713					
PVD	YG612	612	612			612	
PVD	YG622	622		622			
PVD	YG602	602	602	602		602	
PVD	YG613	613	613				
PVD	YG501			501			
CVD	YG5020			5020			
Uncoated	YG50				50		

NEW
YG012
H10 - H30
P10 - P30



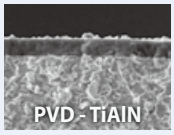
Optimized Milling Grade for Pre-Hardened & Hardened steel
- Applied Extreme Oxidaion PVD layer and Crack-free Substrate
- Excellent Cutting performance for Die & Mold applicaition

YG712
P10 - P30



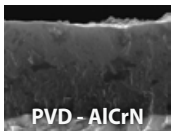
Milling Grade for Medium of Steel Application
- Superior wear resistance and excellent toughness in high speed machining
- Coating layer with high hardness and oxidation resistance

YG713
P15 - P25



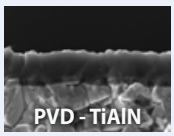
Milling Grade for General Steel Application
- Multi-layer TiAlN structure realizes stronger crater and flank wear resistance
- Fine-grained carbide and balanced substrate

YG622
P20 - P35
K20 - K40



Optimized Grade for High Alloyed or Prehardened Steel
Excellent for High Temperature Hardness and Oxidation Resistance at High Speed

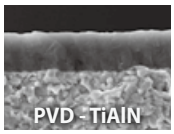
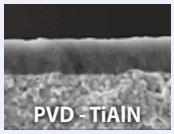
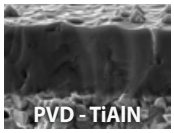
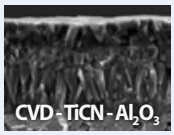
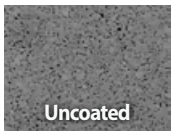
NEW
YG612
P20 - P40
M20 - M40
S20 - S40



Specialized Multi-Nano Coated Grade with high wear resistance and chipping resistance
- Special Multi-Nano coating prevent crack and providing predictible tool life
- Special universal Grade can acheive stable tool life in any workpiece

Milling Grades and Chipbreakers

Milling Grades

YG602 P20 - P35 M20 - M40 K20 - K40 S15 - S25		**Universal grade for General Milling Application** • Ultra Dense PVD Coating with optimal thermal resistance & strength • Sub-Micron substrate designed for demanding application
YG613 P30 - P50 M30 - M40		**Milling Grade for Stainless Steel Application** • New coating layer with lubrication preventing built-up edge on ultra fine grain substrate with high toughness. • The toughest substrate provides excellent cutting performance in stainless steel
YG501 K05- K25		**Hard Milling grade for Cast Iron** • Substrate especially designed for high wear resistance • Excellent wear resistance in cast iron milling application
YG5020 K01-K30		**CVD Milling grade for Cast Iron** • CVD coating for Excellent wear resistance • Improved Toughness for chipping resistance
YG50 N05 – N20		**Uncoated Milling Grade for Aluminium** • Submicron carbide substrate for high wear resistance • Preventing built up edge with shining surface

Milling Chipbreakers

–AL		• For Aluminum • Very Sharp Geometry
–ST		• For Stainless Steel, Super Alloy • Sharp Geometry
-GN **(General Type)**		• First Choice for General Application
–TR		• For Hardened Steels • Reinforced Geometry
...W / ...N		• For Hardened Material and Cast Irons

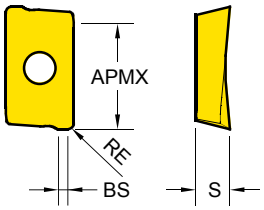
Milling Inserts Overview

Recommended Cutting Conditions : p.223

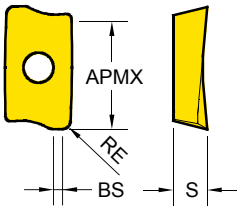
A 2 Corner	 Positive	**ADKT**	ADKT 1505	p. 149
		AOMT	AOMT 1236	p. 149
		APGT	APGT 1003, 1604	p. 150
		APKT	APKT 1003, 1604	p. 151
		APMT	APMT 1135, 1504, 1604	p. 152
E 4 Corner	 Negative	**ENMX**	ENMX 0604 ENMX 0905	p. 153
O Octagon	 Positive	**ODMT / ODMW**	ODMT / ODMW 0605	p. 155
		OFER	OFER 0704	p. 156
		OFMT	OFMT 05T3	
	 Negative	**ONMU / ONHU**	ONMU / ONHU 0806	p. 157
P 10 Corner	 Negative	**PNMU**	PNMU1206	p. 158
R Round	 Positive Round	**RDKT / RDKW**	RDKT 0802, 10T3, 1204, 1604 RDKW 0501, 0702, 0802, 10T3, 1204	p. 159
		RDMT / RDMW	RDMT 0802, 0803, 10T3, 1204 RDMW 0802, 10T3, 1204	p. 160
		RPMT / RPMW	RPMT 08T2, 10T3, 1204 RPMW 1003, 1204	p. 161
S Square	 High Feed	**SDMT / SDMW**	SDMT 1204, SDMW 1204	p. 163
	 Positive	**SDCN (45°) / SDKN**	SDKN, SDCN 1203, 1504	p. 162
		SEGT	SEGT12T3, 1204	p. 164
		SEKR (45°) / SEKN	SEKR, SEKN 1203	p. 167
		SEKT	SEKT 12T3, 1204	p. 165
		SEMT	SEMT1204, 13T3	p. 166
		SPMT	SPMT 1204	p. 170
	 Negative	**SNMX**	SNMX1206	p. 168
	 ISO	**SPCN(75°) / SPKN / SPKR'**	SPKN 1203, 1504 SPKR 1203 SPCN 1203, 1504	p. 169
		SPUN	SPUN 1203	p. 171
T Triangle	NEW  Positive 3 Corner	**TPKT**	TPKT 1104, TPKT 1605	p. 172
	 ISO	**TPCN(90°) / TPKN / TPKR**	TPKN 1603, 2204 TPKR 1603, 2204 TPCN 2204	p. 173
		TPUN	TPUN 1603	p. 174
W Trigon	NEW  Negative 6 Corner	**WNEX**	WNEX0806	p. 175

Milling - Shoulder Milling - Inserts

ADKT / AOMT - Shoulder Milling Positive (2 Corner)



<ADKT>



<AOMT>

Series	APMX	IC	S
ADKT 1505	14	9.7	5.8
AOMT 1236	11	6.6	3.6

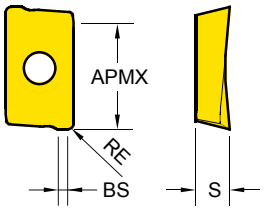
EDP 1200..

●: Stock item ○: Order made item

ADKT	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
					H20 P20	P15	P25	P30 K30	P30 M30 S30	P30 M30	P40 M40 S40	K10	K15
ADKT General 	ADKT 150508 PDTR	0.8	0.05 ~ 0.24	1.87						● 0220			
	ADKT 150516 PDTR	1.6	0.05 ~ 0.24	1.73						● 0755			
	ADKT 150524 PDTR	2.4	0.05 ~ 0.24	1.20						● 0756			
	ADKT 150532 PDTR	3.2	0.05 ~ 0.24	0.30						● 0757			

AOMT	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
AOMT General 	AOMT 123604 PDTR	0.4	0.03 ~ 0.06	1.07						● 0217			
	AOMT 123608 PDTR	0.8	0.03 ~ 0.06	0.91						● 0218	● 0613		

APGT - Shoulder Milling Positive (2 Corner)



Series	APMX	IC	S
APGT 1035	9	6.7	3.6
APGT 1604	14	9.4	5.3

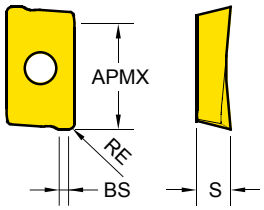
EDP 1200..

●: Stock item ○: Order made item

APGT	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20	P15	P25	P30 K30	P30 M30 S30	P30 M30	P40 M40 S40	K10	N15
					YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG50
NEW -AL Aluminium 	APGT 100305 - AL	0.5	0.05 ~ 0.25	1.4									● 0730
	APGT 160408 - AL	0.8	0.05 ~ 0.25	1.7									● 0428
	APGT 160430 - AL	3.0	0.05 ~ 0.25	0.2									● 0798

Milling - Shoulder Milling - Inserts

APKT - Shoulder Milling Positive (2 Corner)



Series	APMX	IC	S
APKT 1003	9	6.7	3.6
APKT 1604	14	9.4	5.3

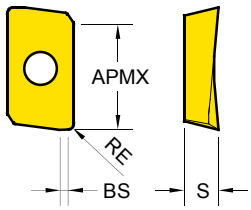
EDP 1200..

●: Stock item ○: Order made item

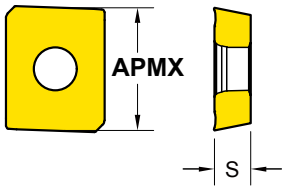
APKT		Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
APKT General		APKT 100305 PDTR	0.5	0.05 ~ 0.24	0.86	● 0749		○ 0638	○ 0429		● 0005	● 0672		
		APKT 100308 PDTR	0.8	0.05 ~ 0.24	0.90	● 0750		○ 0632	○ 0430		● 0004	● 0610		
		APKT 100316 PDTR	1.6	0.05 ~ 0.24	1.03						● 0713	● 0714		
		APKT 160404 PDTR	0.4	0.05 ~ 0.25	1.11			○ 0656			● 0003			
		APKT 160408 PDTR	0.8	0.05 ~ 0.25	1.32	● 0797		○ 0633			● 0001	● 0607		● 0796
		APKT 160412 PDTR	1.2	0.05 ~ 0.25	1.13			○ 0649			● 0002			
		APKT 160416 PDTR	1.6	0.05 ~ 0.25	1.13			○ 0661			● 0006			
		APKT 160424 PDTR	2.4	0.05 ~ 0.25	1.2			○ 0653			● 0255			
		APKT 160432 PDTR	3.2	0.05 ~ 0.25	0.4						● 0738			
-ST Stainless Steel Super Alloy		APKT 100305 - ST	0.5	0.05 ~ 0.12	0.86						● 0278	● 0618		
		APKT 100312 - ST	1.2	0.05 ~ 0.12	1.32							● 0776		
		APKT 100316 - ST	1.6	0.05 ~ 0.12	1.03							● 0719		
		APKT 160408 - ST	0.8	0.05 ~ 0.12	1.32						● 0270	● 0617		
-TR Hardened Steel		APKT 160404 - TR	0.4	0.05 ~ 0.40	2.12				○ 0505		● 0492			
		APKT 160408 - TR	0.8	0.05 ~ 0.40	1.32	● 0746		○ 0637	○ 0337		● 0256			
		APKT 160412 - TR	1.2	0.05 ~ 0.40	2.40				○ 0523		● 0493			
		APKT 160416 - TR	1.6	0.05 ~ 0.40	2.40	● 0747			○ 0524		● 0472			
		APKT 160424 - TR	2.4	0.05 ~ 0.40	1.50	● 0748			○ 0520		● 0494			

Milling - Shoulder Milling - Inserts

APMT - Shoulder Milling Positive (2 Corner)



<APMT>



<APMT 1504>

Series	APMX	IC	S
APMT 1135	9	6.2	3.50
APMT 1604	14	9.2	4.76
APMT 1504	14	12.7	4.76

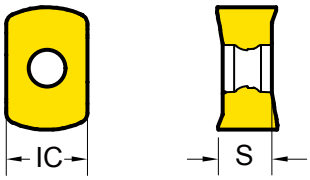
EDP 1200..
●: Stock item ○: Order made item

APMT	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
APMT General	APMT 113504 PDTR	0.4	0.05 ~ 0.24	1.26	● 0752		○ 0655	○ 0400		● 0009			
	APMT 113508 PDTR	0.8	0.05 ~ 0.24	1.07			○ 0654			● 0010	● 0668		
	APMT 160408 PDTR	0.8	0.05 ~ 0.24	1.11	● 0751	● 0423	○ 0642	○ 0399		● 0008	● 0663		● 0464
APMT 1504 General	APMT 1504		0.05 ~ 0.24					○ 0445		● 0276			

Milling - High Feed Milling - Inserts

ENMX - High Feed Negative (4 Corners)

Series	IC	S
ENMX 0604	6.3	4.21
ENMX 0905	9.0	5.40

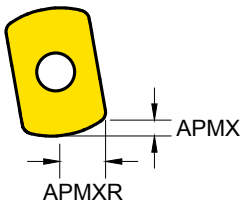


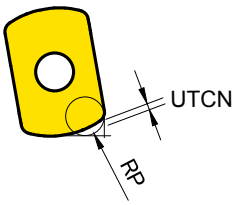
EDP 1200..

●: Stock item ○: Order made item

ENMX		Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
ENMX General		ENMX 0604		0.3 ~ 2.0		● 0734					● 0474	● 0606		
		ENMX 0905		0.3 ~ 2.5		● 0736					● 0702	● 0703		
- ST Stainless Steel		ENMX 0604 - ST		0.1 ~ 0.8							● 0623	● 0625		
		ENMX 0905 - ST		0.2 ~ 1.2							● 0705	● 0706		
- TR Hardened Steel		ENMX 0604 - TR		0.3 ~ 2.5		● 0733	● 0504	○ 0636			● 0459			
		ENMX 0905 - TR		0.3 ~ 3.0		● 0735					● 0600			

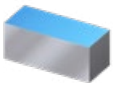
ENMX 0604





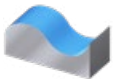
Unit : mm

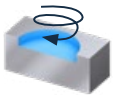
DCX Cutting Diameter Maximum	APMXR Radial AP Max	RP Programmed Corner R	UTCN Uncut Thickness	Overcut
16	3.5	R2.0	0.31	0.00
16~	3.7	R2.5	0.18	0.18
		R3.0	0.07	0.36

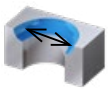

General


Plunging


Ramping

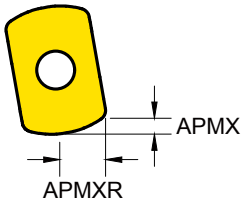

Profiling

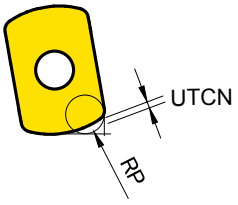

Helical Interpolation


Enlarge Hole

DCX External Cutter Diameter	APMX Maximum Depth of Cut	APMXR Maximum Radial Depth of Cut	RMPX Maximum Ramping Angle(°)	RP Programmed Corner Radius	UTCN Uncut Thickness	Diameter Minimum Cutting Diameter	Diameter Maximum Cutting Diameter	Pitch Helical Interpolation Pitch	Ae Enlarge Width
16	0.9	3.5	2.4°	2.0	0.3	22	32	0.9	12.5
17	0.9	3.5	1.9°	2.0	0.3	24	34	0.9	13.5
20	1	3.7	1.8°	2.0	0.31	29	40	1	16.3
21	1	3.7	1.8°	2.0	0.31	31	42	1	17.3
25	1	3.7	1.2°	2.0	0.31	39	50	1	21.3
26	1	3.7	1.2°	2.0	0.31	41	52	1	22.3
32	1	3.7	0.8°	2.0	0.31	53	64	1	28.3
33	1	3.7	0.8°	2.0	0.31	55	66	1	29.3
40	1	3.7	0.6°	2.0	0.31	69	80	1	36.3
50	1	3.7	0.5°	2.0	0.31	89	98	1	46.3
63	1	3.7	0.4°	2.0	0.31	115	126	1	59.3

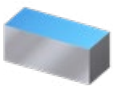
ENMX 0905





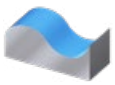
Unit : mm

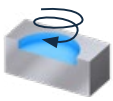
APMXR Radial AP Max	RP Programmed Corner R	UTCN Uncut Thickness	Overcut
4.7	R2.5	0.56	0
	R3.0	0.40	0.10
	R3.5	0.24	0.25
	R4.0	0.10	0.41
	R4.5	0	0.49

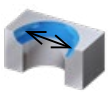

General


Plunging


Ramping


Profiling

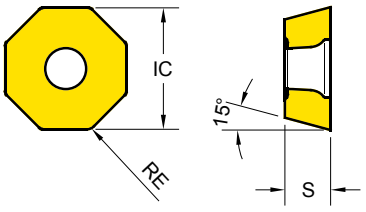

Helical Interpolation


Enlarge Hole

DCX External Cutter Diameter	APMX Maximum Depth of Cut	APMXR Maximum Radial Depth of Cut	RMPX Maximum Ramping Angle(°)	RP Programmed Corner Radius	UTCN Uncut Thickness	Diameter Minimum Cutting Diameter	Diameter Maximum Cutting Diameter	Pitch Helical Interpolation Pitch	Ae Enlarge Width
25	1.5	5	3.8°	2.5	0.56	42	50	1.5	20
26	1.5	5	3.4°	2.5	0.56	44	52	1.5	21
32	1.5	5	2.3°	2.5	0.56	56	64	1.5	27
33	1.5	5	2.2°	2.5	0.56	58	66	1.5	28
40	1.5	5	1.6°	2.5	0.56	72	80	1.5	35
50	1.5	5	1.1°	2.5	0.56	92	100	1.5	45
63	1.5	5	0.8°	2.5	0.56	118	126	1.5	57
80	1.5	5	0.6°	2.5	0.56	152	160	1.5	74

Milling - Face Milling - Inserts

ODMT, ODMW - Face Milling Positive (8 Corners)



Series	IC	S
ODM* 0605	15.9	5.6

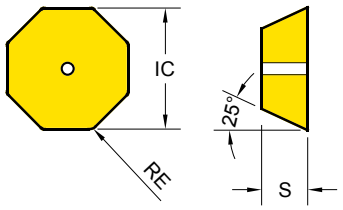
EDP 1200..

●: Stock item ○: Order made item

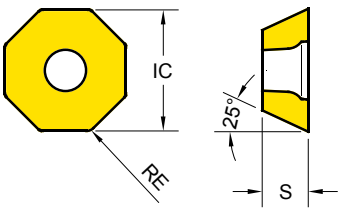
ODMT ODMW	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
ODMT General	ODMT 060508	0.8	0.05 ~ 0.30				○ 0659			● 0030	● 0675		
ODMW Hard Materials	ODMW 060508	0.8	0.05 ~ 0.30							● 0031			

Milling - Face Milling - Inserts

OFER, OFMT - Face Milling Positive (8 Corners)



<OFER>



<OFMT>

Series	IC	S
OFER 0704	18.05	4.78
OFMT 05T3	12.73	4.06

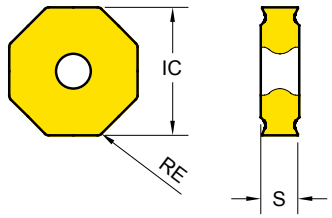
EDP 1200..
●: Stock item ○: Order made item

OFER	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20	P15	P25	P30 K30	P30 M30 S30	P30 M30	P40 M40 S40	K10	K15
					YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
OFER General 	OFER 070405	0.5	0.05 ~ 0.30							● 0209			

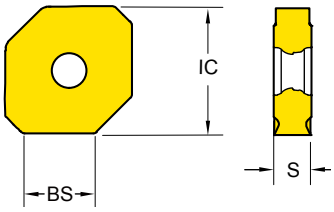
OFMT	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
OFMT General 	OFMT 05T308	0.8	0.05 ~ 0.20							● 0032			

Milling - Face Milling - Inserts

ONHU / ONMU - Face Milling Negative (16 Corners)



<ONMU>



<ONHU>

Series	IC	S
ON*U 0806	20.2	5.8

EDP 1200..

●: Stock item ○: Order made item

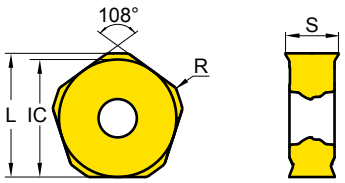
ONMU ONHU	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
ONHU Wiper Insert 	ONHU 080612	1.2	0.08 ~ 0.25	10.6								● 0482	● 0496
ONMU General 	ONMU 080608	0.8	0.05 ~ 0.35			● 0609	○ 0657			● 0233	● 0670	● 0414	
	ONMU 080612	1.2	0.05 ~ 0.35								● 0615	● 0542	
	ONMU 080620	2.0	0.05 ~ 0.35									● 0707	

* Wiper Insert can use 4 corners for right handed cutter and 4 corners for left handed cutter

Milling - Face Milling - Inserts

PNMU - Face Milling Negative (10 Corners)

Series	KRINS	IC	S
PNMU 1206	36	14.0	5.84



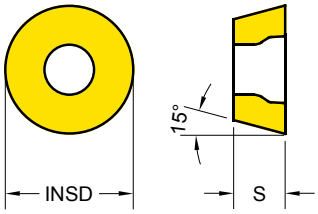
EDP 1200..

●: Stock item ○: Order made item

PNMU		Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501G
PNMU General		PNMU 1206ZNN	0.8	0.05 ~ 0.50	2.10	● 0753	● 0596	○ 0645		● 0826	● 0535	● 0671	● 0534	● 0538
- ST Stainless Steel Super Alloy		PNMU 1206 - ST	0.8	0.05 ~ 0.30	2.10						● 0761	● 0760		

Milling - Profiling - Inserts

RDKT / W- Profiling Positive (Round)



Series	INSD	S	Series	INSD	S
RDK* 0501	5	1.4	RDK* 10T3	10	4.0
RDK* 0702	7	2.4	RDK* 1204	12	4.8
RDK* 0802	8	2.4	RDK* 1604	16	4.8

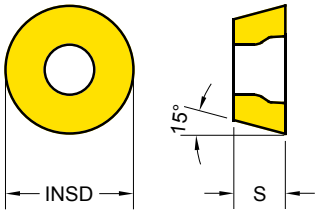
EDP 1200..

●: Stock item ○: Order made item

RDKT RDKW		Designation	Fz (mm/tooth)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
RDKT General		RDKT 0802M0	0.05 ~ 0.25						● 0035			
		RDKT 10T3M0	0.05 ~ 0.30			○ 0651			● 0041			
		RDKT 1204M0	0.05 ~ 0.50			○ 0635			● 0034	● 0678		
		RDKT 1604M0	0.05 ~ 0.50						● 0539			
-ST Stainless Steel Super Alloy		RDKT 0802M0 - ST	0.05 ~ 0.15						● 0292			
		RDKT 10T3M0 - ST	0.05 ~ 0.20						● 0293	● 0620		
		RDKT 1204M0 - ST	0.05 ~ 0.30						● 0294	● 0621		
-TR Hardened Steel		RDKT 0802M0 - TR	0.05 ~ 0.35	● 0745			○ 0339		● 0284			
		RDKT 10T3M0 - TR	0.05 ~ 0.40	● 0744			○ 0338		● 0285			
		RDKT 1204M0 - TR	0.05 ~ 0.60	● 0743		○ 0650	○ 0340		● 0272			
RDKW Hard Materials		RDKW 0501M0	0.05 ~ 0.20				○ 0412		● 0207			
		RDKW 0702M0	0.05 ~ 0.25			○ 0652	○ 0439		● 0208			
		RDKW 0802M0	0.05 ~ 0.30				○ 0440		● 0043			
		RDKW 10T3M0	0.05 ~ 0.40				○ 0441		● 0040			
		RDKW 1204M0	0.05 ~ 0.60			○ 0647	○ 0442		● 0042			
		RDKW 1604M0	0.05 ~ 0.60	● 0817					● 0720			

Milling - Profiling - Inserts

RDMT / W- Profiling Positive (Round)



Series	INSD	S	Series	INSD	S
RDM* 0602	6	2.38	RDM* 10T3	10	3.97
RDM* 0802	8	2.38	RDM* 1204	12	4.76
RDM* 0803	8	3.18			

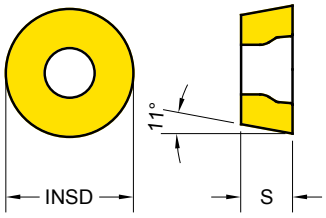
EDP 1200..

●: Stock item ○: Order made item

RDMT RDMW		Designation	Fz (mm/tooth)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
RDMT General		RDMT 0602M0	0.05 ~ 0.20						● 0693			
		RDMT 0802M0	0.05 ~ 0.25						● 0245			
		RDMT 0803M0	0.05 ~ 0.25						● 0225			
		RDMT 10T3M0	0.05 ~ 0.30						● 0246			
		RDMT 1204M0	0.05 ~ 0.50						● 0226			
RDMW Hard Materials		RDMW 0802M0	0.05 ~ 0.30						● 0227			
		RDMW 10T3M0	0.05 ~ 0.40						● 0228			
		RDMW 1204M0	0.05 ~ 0.60						● 0229			

Milling - Profiling - Inserts

RPMT / W - Profiling Positive (Round)



Series	INSD	S	Series	INSD	S
RPM* 08T2	8	2.78	RPM* 10T3	10	3.97
RPM* 1003	10	3.18	RPM* 1204	12	4.76

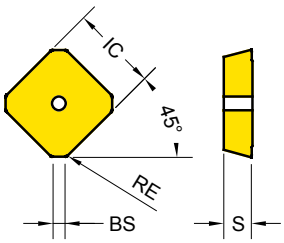
EDP 1200..

●: Stock item ○: Order made item

RPMT RPMW		Designation	Fz (mm/tooth)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
RPMT General		RPMT 08T2M0	0.05 ~ 0.25			○ 0660			● 0038	● 0676		
		RPMT 10T3M0	0.05 ~ 0.30			○ 0644			● 0036	● 0665		
		RPMT 1204M0	0.05 ~ 0.50		● 0415	○ 0643	○ 0401		● 0037	● 0664		● 0462
-ST Stainless Steel Super Alloy		RPMT 1204M0 - ST	0.05 ~ 0.30						● 0230	● 0667		
RPMW Hard Materials		RPMW 1003M0	0.05 ~ 0.40			○ 0646	○ 0402		● 0204			
		RPMW 1204M0	0.05 ~ 0.60			○ 0648			● 0039			

Milling - Face Milling - Inserts

SDCN, SDKN - Face Milling Positive (4 Corners ISO)



Series	IC	S
SD** 1203	12.70	3.18
SD** 1504	15.88	4.76

EDP 1200..
●: Stock item ○: Order made item

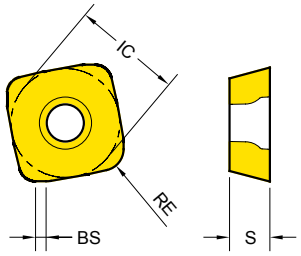
EDP 1200..
●: Stock item ○: Order made item

				H20 / P20	P15	P25	P30 / K30	P30 / M30 / S30	P30 / M30	P40 / M40 / S40	K10	K15
SDCN SDKN		Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
SDCN Ground insert		SDCN 1203 AESN - M	1.0	0.05 ~ 0.20	2.04		● 0135							
		SDCN 1504 AESN - M	1.0	0.05 ~ 0.20	2.19		● 0150							
		SDCN 1504 AESN - MR	1.0	0.05 ~ 0.20	2.19		● 0201							
SDKN Hard Materials		SDKN 1203 AETN	0.5	0.05 ~ 0.30	1.85						● 0058			
		SDKN 1203 AETN - PW	0.4	0.05 ~ 0.30	1.98						● 0253			
		SDKN 1203 AETN - GW	1.3	0.05 ~ 0.30	1.85						● 0251			
		SDKN 1203 AESN - GW	1.3	0.05 ~ 0.30	1.85	● 0762								
		SDKN 1504 AETN	0.45	0.05 ~ 0.30	2.00						● 0059			
		SDKN 1504 AETN - PW	0.4	0.05 ~ 0.30	1.95						● 0288			
		SDKN 1504 AETN - GW	1.3	0.05 ~ 0.30	2.05						● 0286			

- PW : for Improved Surface Roughness
- GW : Ground Wiper
- M : for Mold & Die
- MR : for Mold & Die Roughing

Milling - High Feed Milling - Inserts

SDMT / W - High Feed Positive (4 Corners)



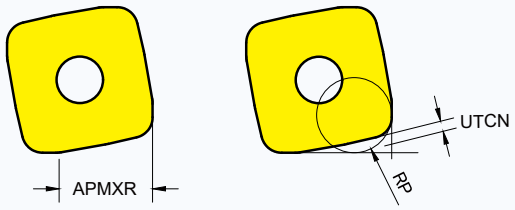
Series	IC	S
SDM* 1204	12.7	4.7

EDP 1200..

●: Stock item ○: Order made item

SDMT SDMW	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
-ST Stainless Steel Super Alloy 	SDMT 120420 - ST	1.9	0.60 ~ 1.20	1.45						● 0274	● 0666		
SDMW Hard Materials 	SDMW 120420	1.9	0.60 ~ 1.40	1.4	● 0737		○ 0634	○ 0341		● 0273	● 0691		

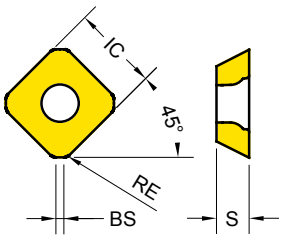
Technical Information



APMXR Radial AP Max	RP Programmed Corner R	UTCN Uncut Thickness
8.6	3.5	0.94

Milling - Face Milling - Inserts

SEGT - Face Milling Positive (4 Corners)



Series	IC	S
SEGT 1204	12.74	4.91
SEGT 12T3	13.40	4.03

EDP 1200..

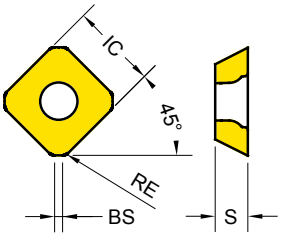
●: Stock item ○: Order made item

SEGT 1204	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20	P15	P25	P30 K30	P30 M30 S30	P30 M30	P40 M40 S40	K10	N15
					YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG50
-AL Aluminium 	SEGT 1204 - AL	1.2	0.05 ~ 0.30	2.01									● 0467

SEGT 12T3	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG50
-AL Aluminium 	SEGT 12T3 - AL	1.2	0.05 ~ 0.30	1.94									● 0468

Milling - Face Milling - Inserts

SEKT - Face Milling Positive (4 Corners)



Series	IC	S
SEKT 1204	12.7	4.9
SEKT 12T3	13.4	4

EDP 1200..

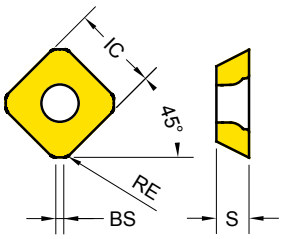
●: Stock item ○: Order made item

SEKT 1204	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
					H20 P20	P15	P25	P30 K30	P30 M30 S30	P30 M30	P40 M40 S40	K10	K15
SEKT 1204 General 	SEKT 1204 AFTN	1.1	0.20 ~ 0.35	1.18				○ 0416		● 0055			
-ST Stainless Steel Super Alloy 	SEKT 1204 - ST	1.1	0.08 ~ 0.30	2.00						● 0257	● 0722		

SEKT 12T3	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
SEKT 12T3 General 	SEKT 12T3 AGTN	1.5	0.05 ~ 0.24	1.30						● 0056			
-ST Stainless Steel Super Alloy 	SEKT 12T3 - ST	1.5	0.05 ~ 0.12	2.00						● 0271	● 0689		

Milling - Face Milling - Inserts

SEMT - Face Milling Positive (4 Corners)



Series	IC	S
SEMT1204	12.92	5.1
SEMT13T3	13.40	4.0

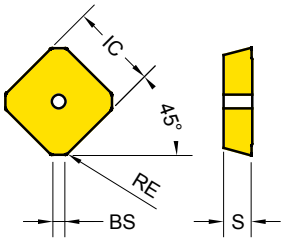
EDP 1200..

●: Stock item ○: Order made item

SEMT	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20	P15	P25	P30 K30	P30 M30 S30	P30 M30	P40 M40 S40	K10	K15
					YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
SEMT 1204 General 	SEMT 1204 AFTN	1.2	0.05 ~ 0.24	1.24						● 0052			
SEMT 13T3 General 	SEMT 13T3 AGSN	1.5	0.05 ~ 0.24	1.31						● 0203			

Milling - Face Milling - Inserts

SEKR / N - Face Milling Positive (4 Corners ISO)



Series	IC	S
SEK* 1203	12.7	3.2

EDP 1200..

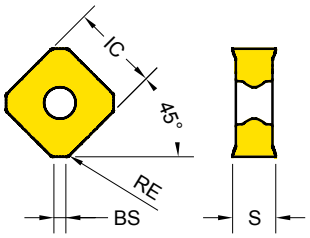
●: Stock item ○: Order made item

SEKR SEKN		Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
SEKR General		SEKR 1203 AFTN	0.4	0.05 ~ 0.23	1.40						● 0051			
		SEKR 1203 AFTN - PW	0.4	0.05 ~ 0.24	2.00						● 0296			
SEKN Hard Materials		SEKN 1203 AFTN	0.4	0.05 ~ 0.30	1.40						● 0054			
		SEKN 1203 AFTN - GW	0.4	0.05 ~ 0.33	2.00	● 0774					● 0304			
		SEKN 1203 AFTN - PW	0.4	0.05 ~ 0.33	2.00						● 0297			

- PW : for Improved Surface Roughness
- GW : Ground Wiper

Milling - Face Milling - Inserts

SNMX - Face Milling Negative (8 Corners)



Series	IC	S
SNMX 1206	12.7	6.25

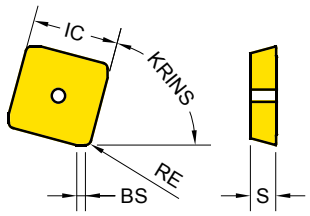
EDP 1200..

●: Stock item ○: Order made item

SNMX	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
SNMX General 	SNMX 1206 ANN	0.8	0.05 ~ 0.24	1.70	● 0754		○ 0658			● 0231	● 0674	● 0460	
	SNMX 1206 QNN	0.8	0.05 ~ 0.24	1.99		● 0732						● 0731	● 0686

Milling - Face Milling - Inserts

SPCN, SPKN / R - Face Milling Positive (4 Corners ISO)



Series	KRINS	IC	S
SP** 1203	75°	12.70	3.18
SP** 1504	75°	15.88	4.76

EDP 1200..

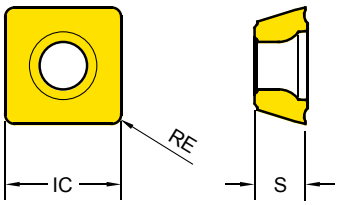
●: Stock item ○: Order made item

SPCN SPKN SPKR		Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
SPCN Ground insert		SPCN 1203 EDSR - M	0.8	0.10 ~ 0.20	1.82		● 0081							
		SPCN 1203 EDSR - MR	0.8	0.10 ~ 0.20	1.77		● 0198							
		SPCN 1504 EDSR - M	0.8	0.10 ~ 0.20	1.92		● 0098							
		SPCN 1504 EDSR - MR	0.8	0.10 ~ 0.20	1.86		● 0199							
SPKN Hard Materials		SPKN 1203 EDTR	0.8	0.05 ~ 0.30	1.40						● 0048			
		SPKN 1203 EDTR - GW	0.6	0.05 ~ 0.38	1.50						● 0280			
		SPKN 1203 EDTR - PW	0.8	0.05 ~ 0.38	1.50						● 0279			
		SPKN 1504 EDTR	0.8	0.05 ~ 0.24	1.30						● 0049			
		SPKN 1504 EDTR - GW	0.8	0.05 ~ 0.38	2.20						● 0305			
		SPKN 1504 EDTR - PW	0.8	0.05 ~ 0.38	2.13						● 0299			
SPKR General		SPKR 1203 EDTR	0.8	0.05 ~ 0.24	1.40						● 0050			
		SPKR 1203 EDTR - PW	0.8	0.05 ~ 0.11	1.54						● 0298			

- PW : for Improved Surface Roughness
- GW : Ground Wiper
- M : for Mold & Die
- MR : for Mold & Die Roughing

Milling - Face Milling - Inserts

SPMT - Universal Positive (4 Corners)



Series	AS	IC	S
SPMT 1204	11°	12.7	4.81

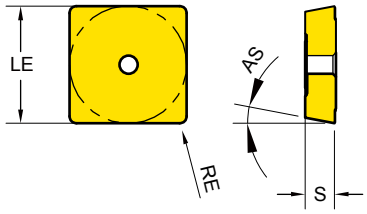
EDP 1200..

●: Stock item ○: Order made item

SPMT	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20	P15	P25	P30 K30	P30 M30 S30	P30 M30	P40 M40 S40	K10	K15
					YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
SPMT General 	SPMT 120408	0.8	0.05 ~ 0.24							● 0223			

Milling - Face Milling - Inserts

SPUN - Universal Positive (4 Corners ISO)



Series	AS	IC	S
SPUN 1203	11°	12.7	3.2

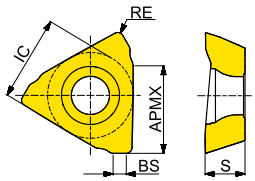
EDP 1200..

●: Stock item ○: Order made item

SPUN	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20	P15	P25	P30 K30	P30 M30 S30	P30 M30	P40 M40 S40	K10	K15
					YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
 **SPUN** General	SPUN 120308	0.8	0.05 ~ 0.29							● 0224			

Milling - Shoulder Milling - Inserts

TPKT - Shoulder Milling Positive (3 Corner ISO)



Series	KRINS	IC	S
TP** 1104	90	7.54	4.28
TP** 1605	90	11.66	5.38

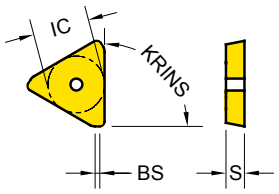
EDP 1200..

●: Stock item ○: Order made item

TPKT	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
NEW TPKT General 	TPKT 110404R-GN	0.4	0.05~0.24	1.60	● 0802	● 0807			● 0801			● 0808	
	TPKT 110408R-GN	0.8	0.05~0.24	1.15	● 0804	● 0811			● 0803			● 0812	
	TPKT 110416R-GN	1.6	0.05~0.24	0.60	● 0806	● 0815			● 0805			● 0816	
	TPKT 160508R-GN	0.8	0.05~0.27	1.79	● 0781	● 0779			● 0718			● 0780	
	TPKT 160516R-GN	1.6	0.05~0.27	1.20	● 0785	● 0786			● 0784			● 0787	
	TPKT 160524R-GN	2.4	0.05~0.27	0.70	● 0789	● 0790			● 0788			● 0791	
NEW -ST Stainless Steel Super Alloy 	TPKT 110404R-ST	0.4	0.05~0.15	1.60					● 0809		● 0810		
	TPKT 110408R-ST	0.8	0.05~0.15	1.15					● 0813		● 0814		
	TPKT 160508R-ST	0.8	0.05~0.15	0.60					● 0758		● 0759		

Milling - Shoulder Milling - Inserts

TPCN / TPKN / KR - Shoulder Milling Positive (3 Corner ISO)



Series	KRINS	IC	S
TP** 1603	90	9.53	3.18
TP** 2204	90	12.7	4.85

EDP 1200..

●: Stock item ○: Order made item

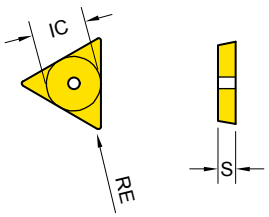
TPCN TPKN TPKR		Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
TPCN Ground insert		TPCN 2204 PDSR - M		0.05 ~ 0.20	1.76		● 0180							
		TPCN 2204 PDSR - MR		0.05 ~ 0.20	1.76		● 0202							
TPKN Hard Materials		TPKN 1603 PDTR		0.05 ~ 0.21	1.2						● 0062			
		TPKN 1603 PDTR - GW		0.05 ~ 0.15	1.6						● 0306			
		TPKN 1603 PDTR - PW		0.05 ~ 0.30	1.2						● 0302			
		TPKN 2204 PDTR		0.05 ~ 0.24	1.7						● 0063			
		TPKN 2204 PDTR - GW		0.05 ~ 0.45	2.5						● 0307			
		TPKN 2204 PDTR - PW		0.05 ~ 0.29	1.7						● 0303			
TPKR General		TPKR 1603 PDTR		0.15 ~ 0.28	1.2						● 0060	● 0690		
		TPKR 1603 PDTR - PW		0.11 ~ 0.20	1.2						● 0300			
		TPKR 2204 PDTR		0.18 ~ 0.35	1.7						● 0061	● 0715		
		TPKR 2204 PDTR - PW		0.18 ~ 0.35	1.7						● 0301			

- PW : for Improved Surface Roughness
- GW : Ground Wiper
- M : for Mold & Die
- MR : for Mold & Die Roughing

Milling - Shoulder Milling - Inserts

TPUN - Universal Positive (3 Corners ISO)

Series	IC	S
TPUN 1603	9.53	3.18



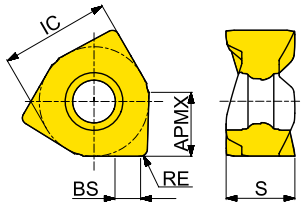
EDP 1200..

●: Stock item ○: Order made item

TPUN	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20	P15	P25	P30 K30	P30 M30 S30	P30 M30	P40 M40 S40	K10	K15
					YG012	YG712	YG713	YG622	YG612	YG602	YG613	YG5020	YG501
TPUN 	TPUN 160308	0.8	0.08 ~ 0.15							● 0064			

Milling - Shoulder Milling - Inserts

WNEX - Shoulder Milling Negative (6 Corners)



Series	IC	S
WNE* 0806	12.9	6.25

EDP 1200..

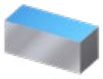
●: Stock item ○: Order made item

WNEX	Designation	RE (mm)	Fz (mm/tooth)	BS (mm)	H20 P20 YG012	P15 YG712	P25 YG713	P30 K30 YG622	P30 M30 S30 YG612	P30 M30 YG602	P40 M40 S40 YG613	K10 YG5020	K15 YG501
NEW WNEX General 	WNEX 080604R-GN	0.4	0.05~0.26	3.2	● 0856	● 0857			● 0855			● 0858	
	WNEX 080608R-GN	0.8	0.05~0.26	2.8	● 0859	● 0792			● 0854		● 0793	● 0794	● 0795
	WNEX 080612R-GN	1.2	0.05~0.26	2.4	● 0877	● 0878			● 0885			● 0879	
	WNEX 080616R-GN	1.6	0.05~0.26	2.0	● 0861	● 0862			● 0860			● 0863	
	WNEX 080620R-GN	2.0	0.05~0.26	1.6	● 0882	● 0883			● 0886			● 0884	
NEW -ST Stainless Steel Super Alloy 	WNEX 080604R-ST	0.4	0.05~0.19	3.6					● 0864		● 0865		
	WNEX 080608R-ST	0.8	0.05~0.19	3.3					● 0866		● 0867		
	WNEX 080612R-ST	1.2	0.05~0.19	2.8					● 0875		● 0876		
	WNEX 080616R-ST	1.6	0.05~0.19	2.4					● 0868		● 0869		
	WNEX 080620R-ST	2.0	0.05~0.19	2.0					● 0880		● 0881		

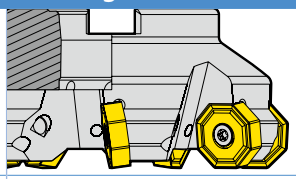
Milling Cutters Overview

Mounting Bolt : p. 197

Face Milling



Negative Octagonal

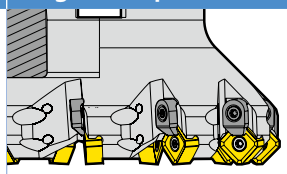




ONMU 0806

APMX	5.5
DC	Ø63~315
page	185

Negative Square

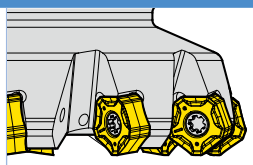




SNMX 1206

APMX	6
DC	Ø50~200
page	192

Negative 10 Corner

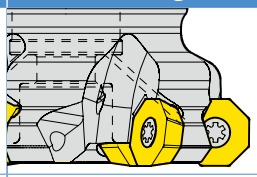




PNMU 1206

APMX	4
DC	Ø50~125
page	186

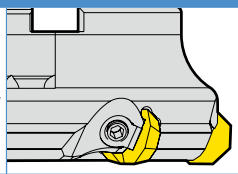
Positive Octagonal





ODMT/ODMW 0605

APMX	3.5
DC	Ø63~125
page	184

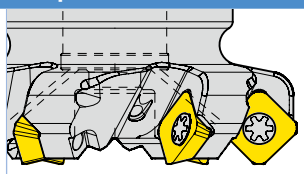




OFER 0704

APMX	5
DC	Ø63~160
page	184

Positive Square





SEKT 1204



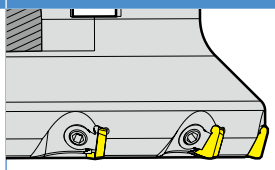
SEKT 12T3



SEGT 1204

APMX	6	6	6
DC	Ø40~160	Ø50~160	Ø50~160
page	190	190	190

ISO





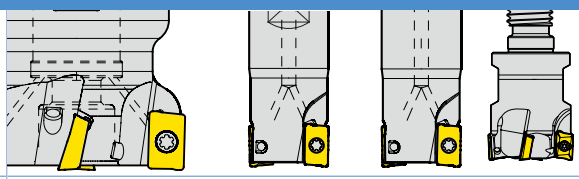
SPKN/SPKR/SPCN 1203

APMX	8
DC	Ø50~200
page	191

Shoulder Milling



2 Corner Positive





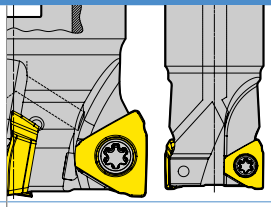
APKT 1003



APKT 1604

APMX	9	14
DC	Ø16~100	Ø25~200
page	178 - 179	180 - 181

3 Corner Positive



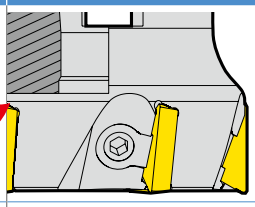


NEW TPKT 1104

NEW TPKT 1605

APMX	7.0	11.0
DC	20~63	32~200
page	194	195

ISO





TPKN/TPKR/TPCN 1603

TPKN/TPKR/TPCN 2204

APMX	12	18
DC	Ø50~125	Ø63~315
page	193	193

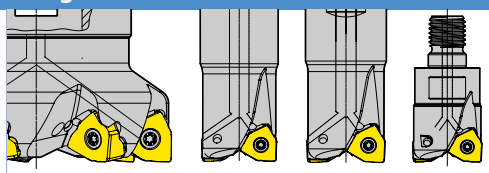
Milling Cutters Overview

Mounting Bolt : p. 197

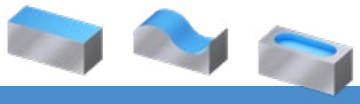
Shoulder Milling



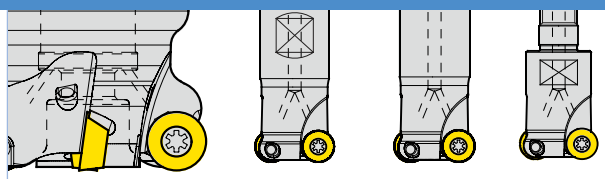
6 Corner Negative

Cutter		 NEW WNEX0806
APMX		7
DC		Ø32~125
page		196

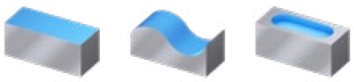
Profiling

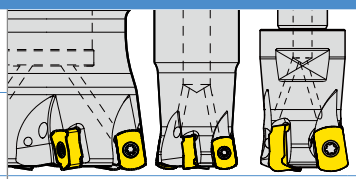
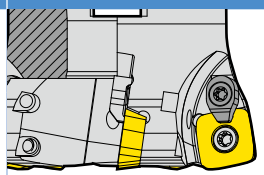


Round Positive

Cutter		 RDKT / RDKW		
APMX		0802 4	10T3 5	1204 6
DCX		Ø16~25	Ø20~63	Ø25~100
page		187	187	188

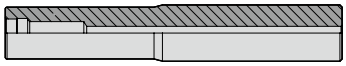
High Feed Milling



	Negative 4 Corner				Positive 4 Corner	
Cutter						
		ENMX 0604	ENMX 0604	ENMX 0905		SDMT/SDMW 1204
APMX		0.9	1	1.5		1.8
DCX		Ø16~18	Ø20~50	Ø25~125		Ø32~100
page		182	182	183		189

Modular Shank

Modular Shank for Modular Head

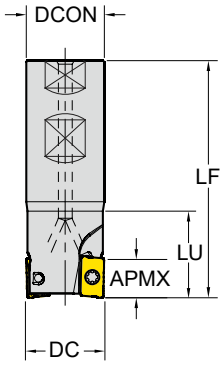
Cutter		M08 ~ M16
page		197

Milling - Shoulder Milling - Cutter

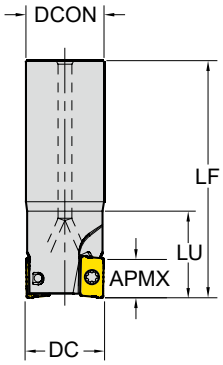
Cutters for APKT

Entering Angle : 90°
2 Corner Positive

<W> Weldon



<C> Cylindrical



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 151

Unit:mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LU	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
APKT 1003	9.0	E90 - APKT10 - D16Z2C16 - L100	0083	16	2	40	100	Cylindrical	16	-	-	-	-	●
		E90 - APKT10 - D16Z2C16 - L120	0532	16	2	30	120		16	-	-	-	-	●
		E90 - APKT10 - D16Z2C16 - L150	0154	16	2	40	150		16	-	-	-	-	●
		E90 - APKT10 - D16Z2C16 - L200	0533	16	2	100	200		16	-	-	-	-	●
		E90 - APKT10 - D20Z2C20 - L250	0534	20	2	150	250		20	-	-	-	-	●
		E90 - APKT10 - D20Z3C20 - L100	0535	20	3	30	100		20	-	-	-	-	●
		E90 - APKT10 - D20Z3C20 - L120	0085	20	3	40	120		20	-	-	-	-	●
		E90 - APKT10 - D20Z3C20 - L150	0536	20	3	50	150		20	-	-	-	-	●
		E90 - APKT10 - D20Z3C20 - L200	0270	20	3	100	200		20	-	-	-	-	●
		E90 - APKT10 - D25Z3C25 - L100	0537	25	3	30	100		25	-	-	-	-	●
		E90 - APKT10 - D25Z3C25 - L120	0186	25	3	40	120		25	-	-	-	-	●
		E90 - APKT10 - D30Z4C25 - L100	0122	30	4	30	100		25	-	-	-	-	●
		E90 - APKT10 - D30Z4C25 - L120	0086	30	4	30	120		25	-	-	-	-	●
		E90 - APKT10 - D32Z4C25 - L100	0538	32	4	35	100		25	-	-	-	-	●
		E90 - APKT10 - D32Z4C25 - L150 - WOC	0539	32	4	35	150		25	-	-	-	-	X
		E90 - APKT10 - D12Z1W16 - L100	0540	12	1	30	100	Weldon	16	-	-	-	-	●
		E90 - APKT10 - D14Z1W16 - L100	0541	14	1	30	100		16	-	-	-	-	●
		E90 - APKT10 - D16Z2W16 - L100	0542	16	2	30	100		16	-	-	-	-	●
		E90 - APKT10 - D16Z2W16 - L85	0082	16	2	-	85		16	-	-	-	-	●
		E90 - APKT10 - D18Z2W16 - L100	0543	18	2	30	100		16	-	-	-	-	●

▶ NEXT PAGE

* Clamping Torque (Nm) 1.2Nm

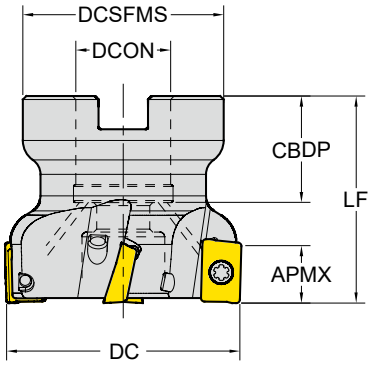
APKT10	Screw (Cutter D16~D20)	Screw (Cutter D20~)	Wrench
Description	TP072505	TP072506	TPWFTP07
EDP	18000016	18000013	18000001

Milling - Shoulder Milling - Cutter

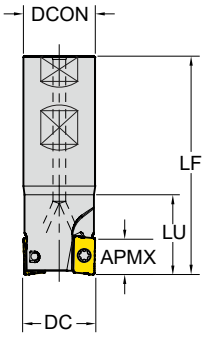
Cutters for APKT

Entering Angle : 90°
2 Corner Positive

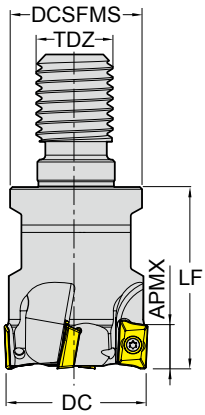
<S> Shellmill



<W> Weldon



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 151

Unit:mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LU	LF	TYPE	DCON /TDZ	CBDP	DCSFMS	PCD1	PCD2	
APKT 1003	9.0	E90 - APKT10 - D20Z3W20 - L100	0461	20	3	30	100	Weldon	20	-	-	-	-	●
		E90 - APKT10 - D20Z3W20 - L90	0084	20	3	40	90		20	-	-	-	-	●
		E90 - APKT10 - D22Z3W20 - L100	0544	22	3	30	100		20	-	-	-	-	●
		E90 - APKT10 - D25Z3W25 - L100	0545	25	3	30	100		25	-	-	-	-	●
		E90 - APKT10 - D25Z4W25 - L100	0546	25	4	30	100		25	-	-	-	-	●
		E90 - APKT10 - D32Z4W32 - L150 - WOC	0547	32	4	50	150		32	-	-	-	-	X
		F90 - APKT10 - D40Z4S16	0087	40	4	-	40	Shellmill	16	18	34	-	-	●
		F90 - APKT10 - D40Z5S16	0472	40	5	-	40		16	20	36	-	-	●
		F90 - APKT10 - D50Z6S22	0215	50	6	-	40		22	22	42	-	-	●
		F90 - APKT10 - D50Z7S22	0088	50	7	-	40		22	20	42	-	-	●
		F90 - APKT10 - D63Z7S22	0548	63	7	-	40		22	22	48	-	-	●
		F90 - APKT10 - D80Z8S27	0549	80	8	-	50		27	25	58	-	-	●
		F90 - APKT10 - D100Z9S32	0550	100	9	-	50		32	26	65	-	-	●
		M90 - APKT10 - D16Z2M08	0551	16	2	-	30	Modular	M08	-	14.75	-	-	●
		M90 - APKT10 - D20Z3M10	0552	20	3	-	30		M10	-	18	-	-	●
		M90 - APKT10 - D25Z3M12	0553	25	3	-	35		M12	-	21	-	-	●
		M90 - APKT10 - D32Z4M16	0554	32	4	-	35		M16	-	29	-	-	●
		M90 - APKT10 - D40Z5M16	0555	40	5	-	43		M16	-	29	-	-	●
		M90 - APKT10 - D42Z5M16	0556	42	5	-	43		M16	-	29	-	-	●

* Clamping Torque (Nm) 1.2Nm

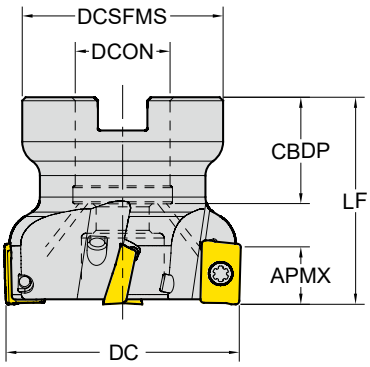
APKT10	Screw (Cutter D16~D20)	Screw (Cutter D20~)	Wrench
Description	TP072505	TP072506	TPWFTP07
EDP	18000016	18000013	18000001

Milling - Shoulder Milling - Cutter

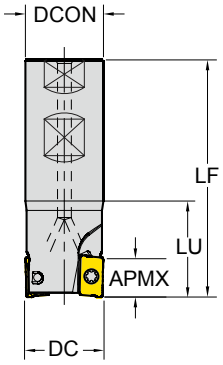
Cutters for APKT

Entering Angle : 90°
2 Corner Positive

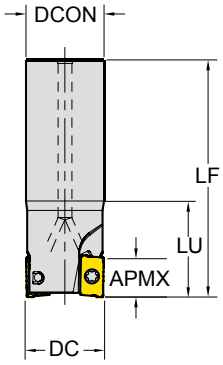
<S> Shellmill



<W> Weldon



<C> Cylindrical



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 151

Unit:mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LU	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
APKT 1604	14.0	E90 - APKT16 - D25Z2C20 - L100	0091	25	2	-	100	Cylindrical	20	-	-	-	-	●
		E90 - APKT16 - D25Z2C20 - L100 - WOC	0243	25	2	35	100		20	-	-	-	-	X
		E90 - APKT16 - D25Z2C25 - L250 - WOC	0557	25	2	100	250		25	-	-	-	-	X
		E90 - APKT16 - D32Z2C32 - L250 - WOC	0558	32	2	100	250		32	-	-	-	-	X
		E90 - APKT16 - D32Z3C25 - L110	0094	32	3	-	110		25	-	-	-	-	●
		E90 - APKT16 - D32Z3C25 - L200	0559	32	3	40	200		25	-	-	-	-	●
		E90 - APKT16 - D32Z3C32 - L150 - WOC	0250	32	3	50	150		32	-	-	-	-	X
		E90 - APKT16 - D32Z3C32 - L250 - WOC	0560	32	3	100	250		32	-	-	-	-	X
		E90 - APKT16 - D40Z4C32 - L150 - WOC	0561	40	4	40	150		32	-	-	-	-	X
		E90 - APKT16 - D25Z2W25 - L100	0562	25	2	35	100	Weldon	25	-	-	-	-	●
		E90 - APKT16 - D25Z2W25 - L110	0092	25	2	-	110		25	-	-	-	-	●
		E90 - APKT16 - D28Z3W25 - L100	0563	28	3	40	100		25	-	-	-	-	●
		E90 - APKT16 - D30Z3W25 - L110	0564	30	3	40	110		25	-	-	-	-	●
		E90 - APKT16 - D32Z3W25 - L110	0093	32	3	-	110		25	-	-	-	-	●
		E90 - APKT16 - D32Z3W32 - L110	0565	32	3	40	110		32	-	-	-	-	●
		E90 - APKT16 - D36Z3W32 - L110	0566	36	3	40	110		32	-	-	-	-	●
		F90 - APKT16 - D40Z4S16	0275	40	4	-	40	Shellmill	16	20	36	-	-	●
		F90 - APKT16 - D50Z5S22	0095	50	5	-	40		22	20	45	-	-	●

▶ NEXT PAGE

* Clamping Torque (Nm) 3.0Nm

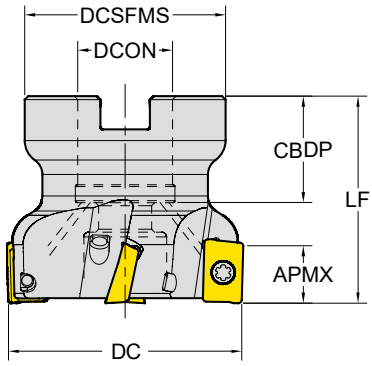
APKT16	Screw	Wrench
Description	TP154008	TPWFTP15
EDP	18000006	18000003

Milling - Shoulder Milling - Cutter

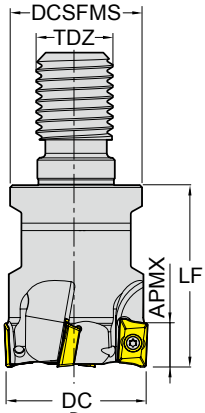
Cutters for APKT

Entering Angle : 90˚
2 Corner Positive

<S> Shellmill



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 151

Unit :mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LU	LF	TYPE	DCON /TDZ	CBDP	DCSFMS	PCD1	PCD2	
APKT 1604	14.0	F90 - APKT16 - D52Z5S22	0567	52	5	-	40	Shellmill	22	22	42	-	-	●
		F90 - APKT16 - D63Z6S22	0096	63	6	-	40		22	20	50	-	-	●
		F90 - APKT16 - D80Z7S27	0097	80	7	-	50		27	23	56	-	-	●
		F90 - APKT16 - D100Z8S32	0181	100	8	-	50		32	26	65	-	-	●
		F90 - APKT16 - D125Z9S40 - WOC	0238	125	9	-	63		40	32	80	-	-	X
		F90 - APKT16 - D160Z10S40 - WOC	0568	160	10	-	63		40	32	110	66.7	-	X
		F90 - APKT16 - D200Z12S60 - WOC	0569	200	12	-	63		60	40	130	101.6	-	X
		M90 - APKT16 - D25Z2M12	0570	25	2	-	43	Modular	M12	-	21	-	-	●
		M90 - APKT16 - D32Z3M16	0571	32	3	-	43		M16	-	29	-	-	●
		M90 - APKT16 - D42Z4M16	0572	42	4	-	43		M16	-	29	-	-	●

* Clamping Torque (Nm) 3.0Nm

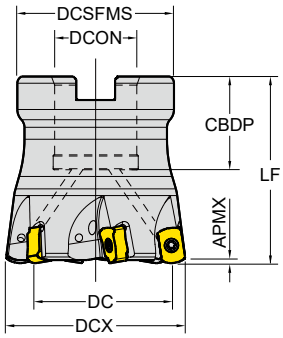
APKT16	Screw	Wrench
Description	TP154008	TPWFTP15
EDP	18000006	18000003

Milling - High Feed Milling - Cutter

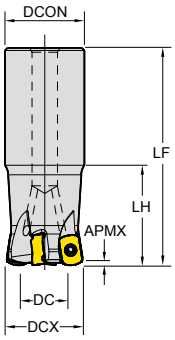
Cutters for ENMX

Entering Angle : 10˚
4 Corner Negative

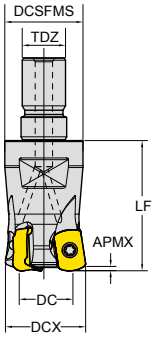
<S> Shellmill



<C> Cylindrical



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 153

Unit : mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	Type	DCON /TDZ	LH	CBDP	DCSFMS	
ENMX 0604	0.9	EHF - ENMX06 - D16Z2C16 - L100	0644	9.0	16	2	100	Cylindrical	16	30	-	-	●
		EHF - ENMX06 - D16Z2C16 - L150	0645	9.0	16	2	150		16	50	-	-	●
		EHF - ENMX06 - D17Z2C16 - L100	0674	10.0	17	2	100		16	20	-	-	●
		EHF - ENMX06 - D17Z2C16 - L150	0473	10.0	17	2	150		16	20	-	-	●
	1	EHF - ENMX06 - D20Z3C20 - L130	0463	12.6	20	3	130	Cylindrical	20	50	-	-	●
		EHF - ENMX06 - D20Z3C20 - L160	0646	12.6	20	3	160		20	80	-	-	●
		EHF - ENMX06 - D21Z3C20 - L150	0475	13.6	21	3	150		20	20	-	-	●
		EHF - ENMX06 - D21Z3C20 - L200	0476	13.6	21	3	200		20	20	-	-	●
		EHF - ENMX06 - D25Z4C25 - L140	0647	17.6	25	4	140		25	60	-	-	●
		EHF - ENMX06 - D25Z4C25 - L180	0464	17.6	25	4	180		25	80	-	-	●
		EHF - ENMX06 - D25Z4C25 - L250	0648	17.6	25	4	250		25	120	-	-	●
		EHF - ENMX06 - D26Z4C25 - L150	0479	18.6	26	4	150		25	30	-	-	●
		EHF - ENMX06 - D26Z4C25 - L200	0480	18.6	26	4	200		25	30	-	-	●
		EHF - ENMX06 - D32Z5C32 - L150	0649	24.6	32	5	150		32	70	-	-	●
		EHF - ENMX06 - D32Z5C32 - L200	0465	24.6	32	5	200		32	100	-	-	●
	0.9	MHF - ENMX06 - D16Z2M08	0691	9.0	16	2	23	Modular	M08		-	13	●
		MHF - ENMX06 - D18Z2M08	0730	11.0	18	2	23		M08		-	13	●
	1	MHF - ENMX06 - D20Z3M10	0692	12.6	20	3	30	Modular	M10		-	18	●
		MHF - ENMX06 - D25Z4M12	0693	17.6	25	4	35		M12		-	21	●
		MHF - ENMX06 - D32Z5M16	0694	24.6	32	5	42		M16		-	29	●
		MHF - ENMX06 - D35Z5M16	0695	27.6	35	5	42		M16		-	29	●
		MHF - ENMX06 - D40Z6M16	0732	32.6	40	6	42		M16		-	29	●
		MHF - ENMX06 - D42Z6M16	0696	34.6	42	6	42		M16		-	29	●
	1	FHF - ENMX06 - D40Z6S16	0482	32.6	40	6	40	Shellmill	16		18	37	●
		FHF - ENMX06 - D50Z6S22	0471	42.6	50	6	50		22		25	42	●

* Clamping Torque (Nm) 1.2Nm

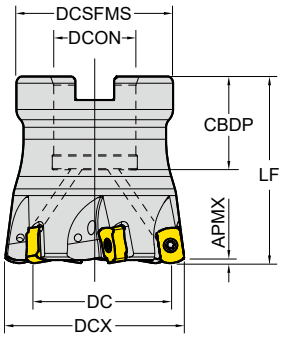
ENMX06	Screw	Wrench	Handle	BIT
Description	TP082507-GS	TPWBTP08	DH-H4	DB-TP08
EDP	18000206	18000218	18000189	18000190

Milling - High Feed Milling - Cutter

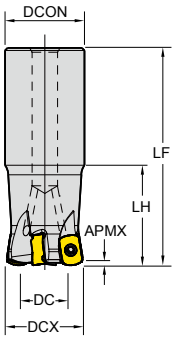
Cutters for ENMX

Entering Angle : 10°
4 Corner Negative

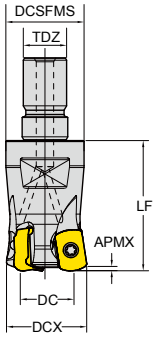
<S> Shellmill



<C> Cylindrical



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 153

Unit :mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	Type	DCON /TDZ	LH	CBDP	DCSFMS	
ENMX 0905	1.5	EHF - ENMX09 - D25Z2C25 - L150	0745	15	25	2	150	Cylindrical	25	70	-	-	●
		EHF - ENMX09 - D26Z2C25 - L200	0746	16	26	2	200		25	30	-	-	●
		EHF - ENMX09 - D26Z3C25 - L200	0747	16	26	3	200		25	30	-	-	●
		EHF - ENMX09 - D32Z3C32 - L160	0748	22	32	3	160		32	70	-	-	●
		EHF - ENMX09 - D33Z3C32 - L200	0749	23	33	3	200		32	30	-	-	●
		EHF - ENMX09 - D33Z4C32 - L200	0750	23	33	4	200		32	40	-	-	●
		EHF - ENMX09 - D40Z5C32 - L180	0751	30	40	5	180		32	40	-	-	●
		FHF - ENMX09 - D50Z3S22	0820	40	50	3	50	Shellmill	22	-	20	42	●
		FHF - ENMX09 - D50Z4S22	0821	40	50	4	50		22	-	20	42	●
		FHF - ENMX09 - D50Z5S22	0752	40	50	5	50		22	-	20	42	●
		FHF - ENMX09 - D63Z4S22	0822	53	63	4	50		22	-	20	48	●
		FHF - ENMX09 - D63Z5S22	0823	53	63	5	50		22	-	20	48	●
		FHF - ENMX09 - D63Z6S22	0753	53	63	6	50		22	-	20	48	●
		FHF - ENMX09 - D63Z7S22	0754	53	63	7	50		22	-	20	48	●
		FHF - ENMX09 - D80Z8S27	0755	70	80	8	50		27	-	23	56	●
		FHF - ENMX09 - D100Z10S32	0824	90	100	10	63		32	-	26	78	●
		FHF - ENMX09 - D125Z12S40	0825	115	125	12	63		40	-	28	89	●

* Clamping Torque (Nm) 2.0Nm

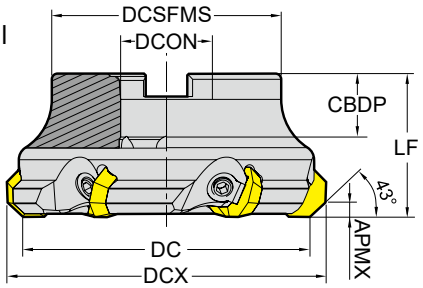
ENMX09	Screw	Wrench	Handle	BIT
Description	TP093510-GS	TPWBTP09	DH-H4	DB-TP09
EDP	18000214	18000216	18000189	18000209

Milling - Face Milling - Cutter

Cutters for OFER

Entering Angle : 43°
8 Corner Positive

<S> Shellmill



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 156

Unit:mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
OFER 0704	5.0	F43 - OFER07 - D63Z4S22 - WOC	0484	65	75	4	45	Shellmill	22	22	48	-	-	X
		F43 - OFER07 - D80Z5S27 - WOC	0485	82	92	5	50		27	25	58	-	-	X
		F43 - OFER07 - D100Z6S32 - WOC	0486	102	112	6	50		32	26	80	-	-	X
		F43 - OFER07 - D125Z8S40 - WOC	0487	127	137	8	63		40	32	85	-	-	X
		F43 - OFER07 - D160Z9S40 - WOC	0488	162	172	9	63		40	32	110	66.7	-	X

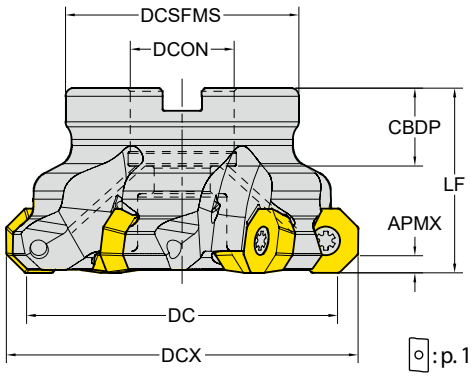
OFER07	Screw	Wrench	Wedge Clamp
Description	YAKV-15-M8x1x20	YAAL-05-4	YACK-11
EDP	18000086	18000062	18000068

Milling - Face Milling - Cutter

Cutters for ODMT, ODMW

Entering Angle : 43°
8 Corner Positive

<S> Shellmill



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 155

Unit :mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
ODMT ODMW 0605	3.5	F43 - ODMT06 - D63Z5S22	0001	63	73	5	40	Shellmill	22	20	50	-	-	●
		F43 - ODMT06 - D80Z6S27	0002	80	90	6	50		27	23	56	-	-	●
		F43 - ODMT06 - D100Z7S32	0003	100	110	7	50		32	26	78	-	-	●
		F43 - ODMT06 - D125Z8S40	0004	125	135	8	63		40	28	89	-	-	●

* Clamping Torque (Nm) 5.3Nm

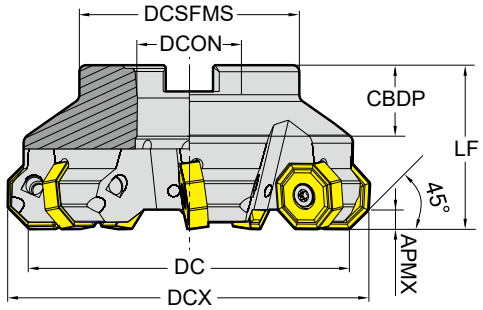
ODMT06	Screw	Wrench
Description	TP205013	TPWFTP20
EDP	18000007	18000004

Milling - Face Milling - Cutter

Cutters for ONMU

Entering Angle: 45°
16 Corner Negative

<S> Shellmill



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 157

Unit:mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
ONMU 0806	5.5	F45 - ONMU08 - D63Z5S22	0493	63	75	5	40	Shellmill	22	22	49	-	-	●
		F45 - ONMU08 - D80Z6S27	0494	80	92	6	50		27	25	58	-	-	●
		F45 - ONMU08 - D100Z7S32	0495	100	112	7	50		32	26	67	-	-	●
		F45 - ONMU08 - D125Z8S40 - WOC	0496	125	137	8	63		40	32	87	-	-	X
		F45 - ONMU08 - D160Z10S40 - WOC	0497	160	172	10	63		40	32	107	66.7	-	X
		F45 - ONMU08 - D200Z12S60 - WOC	0498	200	212	12	63		60	40	130	101.6	-	X
		F45 - ONMU08 - D315Z16S60 - WOC	0499	315	327	16	63		60	40	220	101.6	177.8	X

▶ ONHU is Available for Wiper Insert

* Clamping Torque (Nm) 5.3Nm

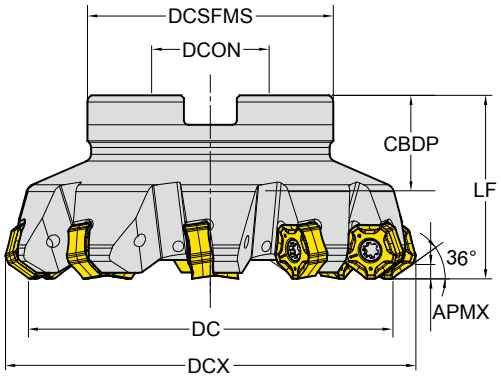
ONMU08	Screw	Wrench
Description	TP205013	TPWFTP20
EDP	18000007	18000004

Milling - Face Milling - Cutter

Cutters for PNMU

Entering Angle : 36°
10 Corner Negative

<S> Shellmill



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 158

Unit:mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
PNMU 1206	4.0	F36 - PNMU12 - D50Z4S22	0774	50	63.6	4	40	Shellmill	22	20	42	-	-	●
		F36 - PNMU12 - D50Z5S22	0785	50	63.6	5	40		22	20	42	-	-	●
		F36 - PNMU12 - D63Z5S22	0775	63	76.6	5	40		22	20	48	-	-	●
		F36 - PNMU12 - D63Z6S22	0483	63	76.6	6	40		22	20	48	-	-	●
		F36 - PNMU12 - D80Z8S27	0466	80	93.6	8	50		27	23	58	-	-	●
		F36 - PNMU12 - D100Z10S32	0467	100	113.6	10	50		32	26	67	-	-	●
		F36 - PNMU12 - D125Z10S40	0786	125	138.6	10	63		40	29	89	-	-	●

* Clamping Torque (Nm) 3.0Nm

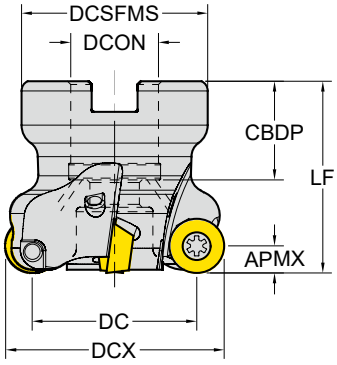
PNMU12	Screw	Wrench	Handle	BIT
Description	TP154008	TPWBTP15	DH-H4	DB-TP15
EDP	18000006	18000217	18000189	18000208

Milling - Profiling - Cutter

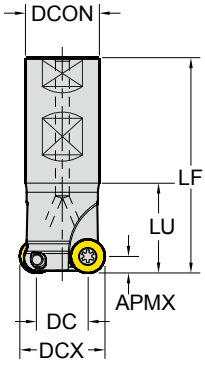
Cutters for RDKT, RDKW

Round Positive

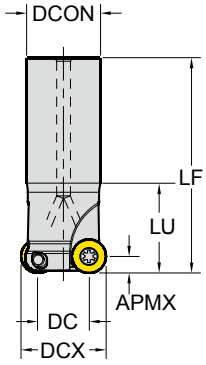
<S> Shellmill



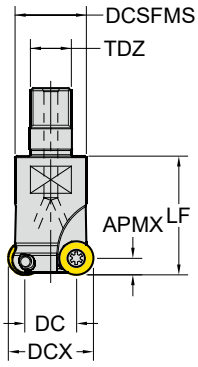
<W> Weldon



<C> Cylindrical



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 159

Unit :mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LU	LF	TYPE	DCON /TDZ	CBDP	DCSFMS	
RDKT RDKW 0802	4.0	E - RDKT08 - D16Z2C16 - L160	0005	8	16	2	-	160	Cylindrical	16	-	-	●
		E - RDKT08 - D20Z2C20 - L180	0007	12	20	2	-	180		20	-	-	●
		E - RDKT08 - D25Z3C20 - L180	0009	17	25	3	-	180		20	-	-	●
		M - RDKT08 - D16Z2M08	0010	8	16	2	-	23	Modular	M08	-	13	●
		M - RDKT08 - D20Z2M10	0011	12	20	2	-	30		M10	-	18	●
		M - RDKT08 - D25Z3M12	0012	17	25	3	-	35		M12	-	21	●
RDKT RDKW 10T3	5.0	E - RDKT10 - D20Z2C20 - L150 - WOC	0576	10	20	2	60	150	Cylindrical	20	-	-	X
		E - RDKT10 - D20Z2C20 - L180	0013	10	20	2	-	180		20	-	-	●
		E - RDKT10 - D25Z2C25 - L150 - WOC	0299	15	25	2	60	150		25	-	-	X
		E - RDKT10 - D25Z2C25 - L180	0015	15	25	2	-	180		25	-	-	●
		E - RDKT10 - D20Z2W20 - L150 - WOC	0577	10	20	2	60	150	Weldon	20	-	-	X
		E - RDKT10 - D25Z2W25 - L150 - WOC	0578	15	25	2	60	150		25	-	-	X
		E - RDKT10 - D32Z3W32 - L150 - WOC	0579	22	32	3	60	150		32	-	-	X
		F - RDKT10 - D40Z5S16	0019	30	40	5	-	40	Shellmill	16	18	34	●
		F - RDKT10 - D50Z5S22	0580	40	50	5	-	50		22	22	42	●
		F - RDKT10 - D50Z6S22	0020	40	50	6	-	50		22	22	42	●
		F - RDKT10 - D63Z6S22	0581	53	63	6	-	50		22	22	48	●
		M - RDKT10 - D20Z2M10	0017	10	20	2	-	30	Modular	M10	-	18	●
		M - RDKT10 - D25Z3M12	0018	15	25	3	-	35		M12	-	21	●

* Clamping Torque (Nm) 1.2Nm

RDKT08	Screw	Wrench
Description	TP082505	TPWFTP08
EDP	18000008	18000002

* Clamping Torque (Nm) 3.0Nm

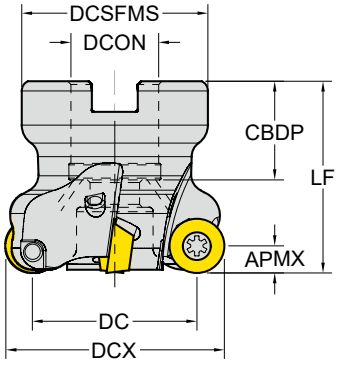
RDKT10	Screw	Wrench
Description	TP154008RD	TPWFTP15
EDP	18000017	18000003

Milling - Profiling - Cutter

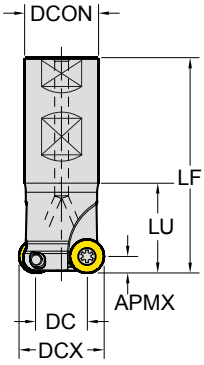
Cutters for RDKT, RDKW

Round Positive

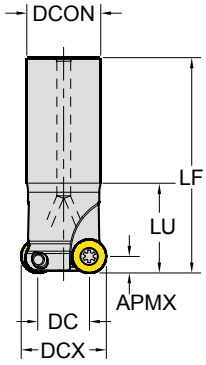
<S> Shellmill



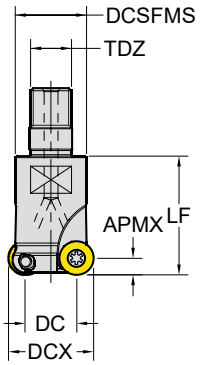
<W> Weldon



<C> Cylindrical



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 159

Unit :mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LU	LF	TYPE	DCON /TDZ	CBDP	DCSFMS	
RDKT RDKW 1204	6.0	E - RDKT12 - D25Z2C25 - L180	0021	13	25	2	80	180	Cylindrical	25	-	-	●
		E - RDKT12 - D32Z2C32 - L200	0023	20	32	2	60	200		32	-	-	●
		E - RDKT12 - D32Z3C32 - L160	0024	20	32	3	60	160		32	-	-	●
		E - RDKT12 - D32Z3C32 - L160 - WOC	0582	20	32	3	70	160		32	-	-	X
		E - RDKT12 - D33Z3C32 - L160 - WOC	0583	21	33	3	70	160		32	-	-	X
		E - RDKT12 - D32Z3W32 - L160 - WOC	0584	20	32	3	50	160	Weldon	32	-	-	X
		F - RDKT12 - D40Z4S16	0028	28	40	4	-	40	Shellmill	16	18	32	●
		F - RDKT12 - D50Z5S22	0029	38	50	5	-	50		22	20	40	●
		F - RDKT12 - D52Z5S22	0585	40	52	5	-	50		22	22	42	●
		F - RDKT12 - D63Z6S22	0030	51	63	6	-	50		22	20	48	●
		F - RDKT12 - D80Z7S27	0586	68	80	7	-	50		27	25	58	●
		F - RDKT12 - D100Z7S32	0587	88	100	7	-	50		32	26	65	●
		F - RDKT12 - D100Z8S32	0588	88	100	8	-	50		32	26	65	●
		M - RDKT12 - D25Z2M12	0026	13	25	2	-	35	Modular	M12	-	21	●
		M - RDKT12 - D32Z3M16	0027	20	32	3	-	42		M16	-	29	●
		M - RDKT12 - D42Z4M16	0589	30	42	4	-	43		M16	-	29	●

* Clamping Torque (Nm) 3.0Nm

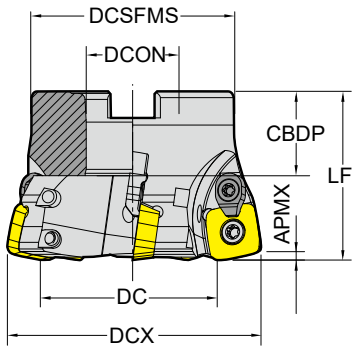
RDKT12	Screw	Wrench	Wedge Clamp
Description	TP154009	TPWFTP15	MTCA - 130813P
EDP	18000010	18000003	18000037

Milling - High Feed Milling - Cutter

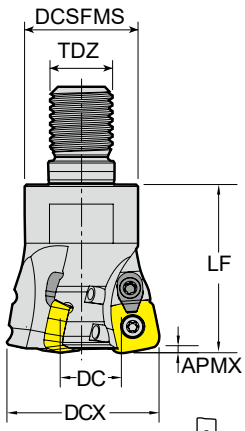
Cutters for SDMT, SDMW

Entering Angle : 10˚
4 Corner Positive

<S> Shellmill



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 163

Unit :mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON /TDZ	CBDP	DCSFMS	
SDMT SDMW 1204	1.8	FHF - SDMW12 - D50Z4S22	0604	32.4	50	4	40	Shellmill	22	22	42	●
		FHF - SDMW12 - D63Z5S22	0605	45.4	63	5	40		22	22	48	●
		FHF - SDMW12 - D80Z6S27	0606	62.4	80	6	50		27	25	58	●
		FHF - SDMW12 - D100Z8S32	0607	82.4	100	8	50		32	26	65	●
		MHF - SDMW12 - D32Z2M16	0608	14.4	32	2	43	Modular	M16	-	29	●
		MHF - SDMW12 - D40Z3M16	0609	22.4	40	3	43		M16	-	29	●

* Clamping Torque (Nm) 3.0Nm

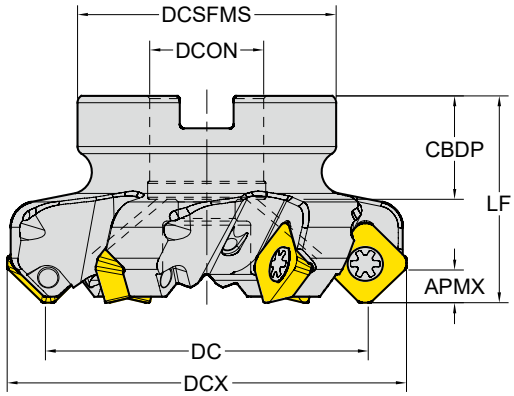
SDMT12	Screw	Wrench	Handle	Wedge Clamp
Description	Y4015-M4x11	Y80-T15	18000167	YACK-15
EDP	18000119	18000167	-	18000069

Milling - Face Milling - Cutter

Cutters for SEGT, SEKT

Entering Angle : 45°
4 Corner Positive

<S> Shellmill



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 164/165

Unit:mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
SEGT SEKT 12T3	6.0	F45 - SE12T3 - D50Z4S22	0500	50	64	4	40	Shellmill	22	22	48	-	-	●
		F45 - SE12T3 - D63Z5S22	0501	63	77	5	40		22	22	48	-	-	●
		F45 - SE12T3 - D80Z6S27	0502	80	94	6	50		27	25	58	-	-	●
		F45 - SE12T3 - D100Z7S32	0503	100	114	7	50		32	26	65	-	-	●
		F45 - SE12T3 - D125Z8S40 - WOC	0504	125	139	8	63		40	32	85	-	-	X
		F45 - SE12T3 - D160Z10S40 - WOC	0505	160	174	10	63		40	32	110	66.7	-	X
SEGT SEKT 1204	6.0	F45 - SEKT12 - D40Z4S16	0031	40	54	4	40	Shellmill	16	18	32	-	-	●
		F45 - SEKT12 - D50Z5S22	0032	50	64	5	40		22	20	48	-	-	●
		F45 - SEKT12 - D63Z4S22	0033	63	77	4	40		22	20	50	-	-	●
		F45 - SEKT12 - D63Z6S22	0034	63	77	6	40		22	20	50	-	-	●
		F45 - SEKT12 - D80Z4S27	0035	80	94	4	50		27	22	56	-	-	●
		F45 - SEKT12 - D80Z7S27	0036	80	94	7	50		27	22	56	-	-	●
		F45 - SEKT12 - D100Z8S32	0037	100	114	8	50		32	25	78	-	-	●
		F45 - SEKT12 - D125Z10S40	0038	125	139	10	63		40	29	90	-	-	●
		F45 - SEKT12 - D160Z12S40	0039	160	174	12	63		40	30	114	-	-	X

* Clamping Torque (Nm) 2.4Nm

SEKT12T3	Screw	Wrench
Description	Y4015-M3.5x11	Y80-T15
EDP	18000118	18000167

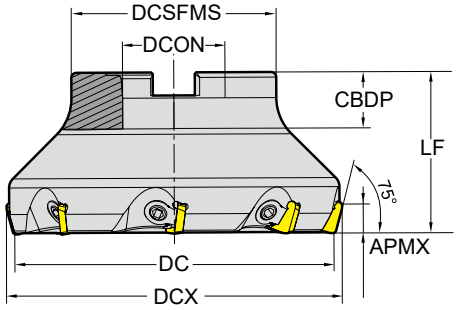
SEKT1204	Screw	Wrench
Description	TP204510	TPWFTP20
EDP	18000011	18000004

Milling - Face Milling - Cutter

Cutters for SPCN, SPKN, SPKR

Entering Angle : 75°
4 Corner Positive ISO

<S> Shellmill



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 169

Unit:mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
SPCN SPKN SPKR 1203	8.0	F75 - SPKN12 - D50Z4S22 - WOC	0611	50	56	4	42	Shellmill	22	22	42	-	-	X
		F75 - SPKN12 - D63Z5S22 - WOC	0612	63	69	5	40		22	22	48	-	-	X
		F75 - SPKN12 - D80Z6S27 - WOC	0613	80	86	6	50		27	25	58	-	-	X
		F75 - SPKN12 - D100Z7S32 - WOC	0614	100	106	7	50		32	26	65	-	-	X
		F75 - SPKN12 - D125Z8S40 - WOC	0615	125	131	8	63		40	32	80	-	-	X
		F75 - SPKN12 - D160Z9S40 - WOC	0616	160	166	9	63		40	32	110	66.7	-	X
		F75 - SPKN12 - D200Z12S60 - WOC	0617	200	206	12	63		60	40	130	101.6	-	X

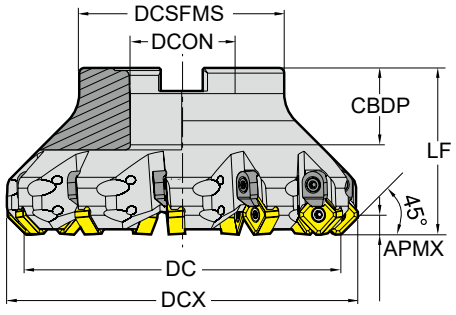
SPKN1203	Screw	Wrench	Wedge Clamp
Description	YAKV-22-M8x1x14	YAAL-05-4	YACK-10
EDP	18000089	18000062	18000067
Description	YAKV-13-M8x1x16	-	-
EDP	18000084	-	-

Milling - Face Milling - Cutter

Cutters for SNMX

Entering Angle : 45°
8 Corner Negative

<S> Shellmill



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 168

Unit:mm

Series	APMX	Designation	EDP 1700..	DC	DCX	CICT	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
SNMX 1206 ANN	6.0	F45 - SNMX12 - D50Z4S22	0506	50	63	4	42	Shellmill	22	22	42	-	-	●
		F45 - SNMX12 - D50Z5S22	0507	50	63	5	42		22	22	42	-	-	●
		F45 - SNMX12 - D63Z6S22	0508	63	76	6	42		22	22	48	-	-	●
		F45 - SNMX12 - D63Z7S22	0509	63	76	7	42		22	22	48	-	-	●
		F45 - SNMX12 - D80Z7S27	0510	80	93	7	52		27	25	58	-	-	●
		F45 - SNMX12 - D80Z8S27	0511	80	93	8	52		27	25	58	-	-	●
		F45 - SNMX12 - D100Z10S32	0512	100	113	10	52		32	26	67	-	-	●
		F45 - SNMX12 - D100Z8S32	0513	100	113	8	52		32	26	67	-	-	●
		F45 - SNMX12 - D125Z11S40 - WOC	0514	125	138	11	65		40	32	80	-	-	X
		F45 - SNMX12 - D160Z12S40 - WOC	0515	160	173	12	65		40	32	110	66.7	-	X
		F45 - SNMX12 - D200Z14S60 - WOC	0516	200	213	14	65		60	40	130	101.6	-	X

* Clamping Torque (Nm) 3.0Nm

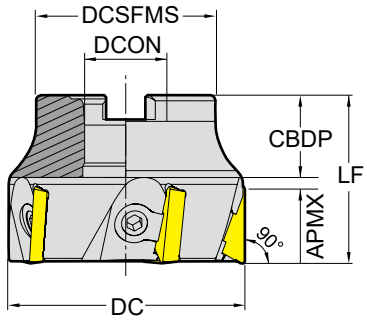
SNMX12	Screw	Wrench	Wedge Clamp
Description	Y4015-M4x11	Y80-T15	Y4015-M4x11
EDP	18000119	18000167	18000119

Milling - Shoulder Milling - Cutter

Cutters for TPCN, TPKN, TPKR

Entering Angle : 90°
3 Corner Positive ISO

<S> Shellmill



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 173

Unit:mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LU	LF	TYPE	DCON	CBDP	DCSFMS	PCD1	PCD2	
TPCN TPKN TPKR 1603	12.0	F90 - TPKN16 - D50Z4S22 - WOC	0618	50	4	-	40	Shellmill	22	22	42	-	-	X
		F90 - TPKN16 - D63Z6S22 - WOC	0619	63	6	-	45		22	22	48	-	-	X
		F90 - TPKN16 - D80Z7S27 - WOC	0620	80	7	-	50		27	25	58	-	-	X
		F90 - TPKN16 - D125Z8S40 - WOC	0621	125	8	-	63		40	32	80	-	-	X
TPCN TPKN TPKR 2204	18.0	F90 - TPKN22 - D63Z5S22 - WOC	0622	63	5	-	45	Shellmill	22	22	48	-	-	X
		F90 - TPKN22 - D80Z6S27 - WOC	0623	80	6	-	50		27	25	58	-	-	X
		F90 - TPKN22 - D100Z7S32 - WOC	0624	100	7	-	50		32	26	65	-	-	X
		F90 - TPKN22 - D125Z8S40 - WOC	0625	125	8	-	63		40	32	80	-	-	X
		F90 - TPKN22 - D160Z9S40 - WOC	0626	160	9	-	63		40	32	110	66.7	-	X
		F90 - TPKN22 - D200Z12S60 - WOC	0627	200	12	-	63		60	40	130	101.6	-	X
		F90 - TPKN22 - D250Z15S60 - WOC	0628	250	15	-	63		60	40	160	101.6	-	X
		F90 - TPKN22 - D315Z18S60 - WOC	0629	315	18	-	63		60	40	220	101.6	177.8	X

TPKN16	Screw	Wrench	Wedge Clamp
Description	YAKV-13-M8x1x16	YAAL-05-4	YACK-10
EDP	18000084	18000062	18000067

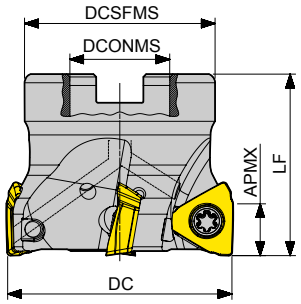
TPKN22	Screw	Wrench	Wedge Clamp
Description	YAKV-14-M8x1x18	YAAL-05-4	YACK-11
EDP	18000085	18000062	18000068

Milling - Shoulder Milling - Cutter

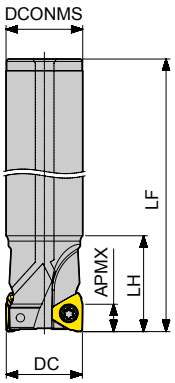
Cutters for TPKT

Entering Angle : 90°
3 Corner Positive

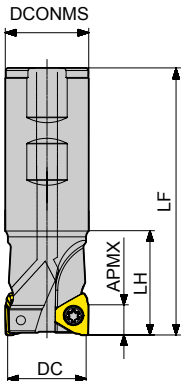
<S> Shellmill



<C> Cylindrical



<W> Weldon



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 172

Unit : mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON /TDZ	LH	CBDP	DCSFMS	
NEW TPKT 1104	7.0	E90 - TP11 - D20Z2C20 - L170	1037	20	2	170	Cylindrical	20	40	-	-	●
		E90 - TP11 - D21Z2C20 - L150	1038	21	2	150		20	40	-	-	●
		E90 - TP11 - D21Z2C20 - L200	1039	21	2	200		20	40	-	-	●
		E90 - TP11 - D25Z3C25 - L200	1026	25	3	200		25	60	-	-	●
		E90 - TP11 - D26Z2C25 - L200	1041	26	2	200		25	40	-	-	●
		E90 - TP11 - D26Z2C25 - L250	1042	26	2	250		25	40	-	-	●
		E90 - TP11 - D26Z3C25 - L150	1043	26	3	150		25	40	-	-	●
		E90 - TP11 - D26Z3C25 - L200	1044	26	3	200		25	40	-	-	●
		E90 - TP11 - D32Z3C32 - L230	1045	32	3	230		32	60	-	-	●
		E90 - TP11 - D33Z3C32 - L200	1047	33	3	200		32	40	-	-	●
		E90 - TP11 - D40Z4C32 - L200	1048	40	4	200		32	60	-	-	●
		E90 - TP11 - D20Z2W20 - L90	0995	20	2	90	Weldon	20	40	-	-	●
		E90 - TP11 - D25Z3W25 - L100	1040	25	3	100		25	40	-	-	●
		E90 - TP11 - D32Z4W32 - L110	1046	32	4	110		32	40	-	-	●
		E90 - TP11 - D40Z5W32 - L115	1049	40	5	115		32	40	-	-	●
		F90 - TP11 - D40Z5S16	1050	40	5	40	Shellmill	16	-	20	38	●
		F90 - TP11 - D50Z6S22	1051	50	6	40		22	-	20	42	●
		F90 - TP11 - D63Z7S22	1052	63	7	40		22	-	20	48	●
		F90 - TP11 - D63Z8S22	1053	63	8	40		22	-	20	48	●

* Clamping Torque (Nm) 1.2Nm

TPKT1104 (D20, D21)	Screw	Wrench	Handle	BIT
Description	TP082562-GS	TPWBTP08	DH-H4	DB-TP08
EDP	18000265	18000218	18000189	18000190

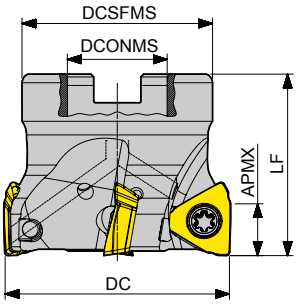
TPKT1104 (over D25)	Screw	Wrench	Handle	BIT
Description	TP082506-GS	TPWBTP08	DH-H4	DB-TP08
EDP	18000259	18000218	18000189	18000190

Milling - Shoulder Milling - Cutter

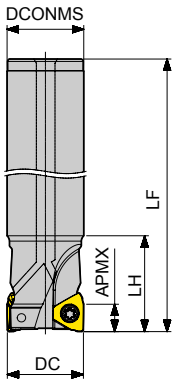
Cutters for TPKT

Entering Angle : 90°
3 Corner Positive

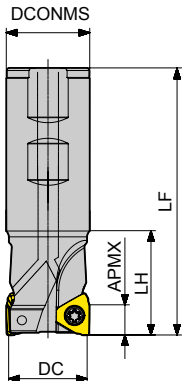
<S> Shellmill



<C> Cylindrical



<W> Weldon



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 172

Unit :mm

Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON /TDZ	LH	CBDP	DCSFMS	
NEW TPKT 1605	11.0	E90 - TP16 - D32Z2C32 - L150	0941	32	2	150	Cylindrical	32	40	-	-	●
		E90 - TP16 - D32Z2C32 - L250	0942	32	2	250		32	80	-	-	●
		E90 - TP16 - D33Z2C32 - L200	0929	33	2	200		32	40	-	-	●
		E90 - TP16 - D33Z2C32 - L250	1010	33	2	250		32	40	-	-	●
		E90 - TP16 - D40Z4C32 - L200	0945	40	4	200		32	40	-	-	●
		E90 - TP16 - D40Z3W32 - L110	0944	40	3	110	Weldon	32	40	-	-	●
		F90 - TP16 - D50Z4S22	0931	50	4	40	Shellmill	22	-	29	42	●
		F90 - TP16 - D63Z5S22	0932	63	5	40		22	-	29	48	●
		F90 - TP16 - D63Z6S22	0947	63	6	40		22	-	29	48	●
		F90 - TP16 - D80Z6S27	0948	80	6	50		27	-	39	56	●
		F90 - TP16 - D80Z7S27	0949	80	7	50		27	-	39	56	●
		F90 - TP16 - D100Z8S32	0950	100	8	50		32	-	39	67	●
		F90 - TP16 - D125Z10S40	0951	125	10	63		40	-	52	89	●
		F90 - TP16 - D125Z12S40	0952	125	12	63		40	-	52	89	●
		F90 - TP16 - D160Z11S40	0953	160	11	63		40	-	52	110	X
		F90 - TP16 - D200Z11S60	0955	200	11	63		60	-	52	160	X

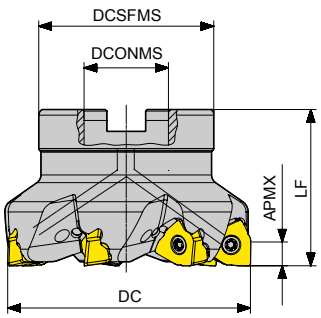
* Clamping Torque (Nm) 5.3Nm

TPKT1605	Screw	Wrench	Handle	BIT
Description	TP2045105	TPWBTP20	DH-H6	DB-TP20
EDP	18000264	18000256	18000210	18000257

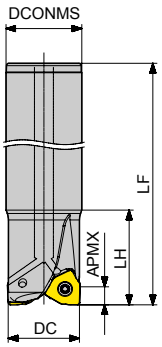
Cutters for WNEX

Entering Angle : 90°
6 Corner Negative

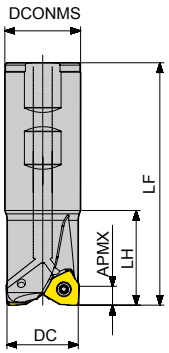
<S> Shellmill



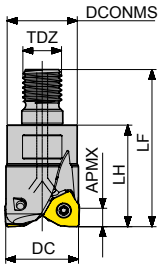
<C> Cylindrical



<W> Weldon



<M> Modular



CICT : Number of Inserts
CBDP : Connection Bore Depth

: p. 175

Unit : mm

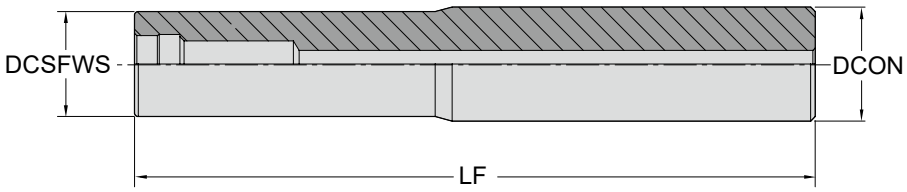
Series	APMX	Designation	EDP 1700..	DC	CICT	LF	TYPE	DCON /TDZ	LH	CBDP	DCSFMS	
		E90 - WN08 - D32Z2W32 - L120	0969	32	2	120		32	40	-	-	●
		E90 - WN08 - D40Z3W32 - L120	0972	40	3	120		32	40	-	-	●
		E90 - WN08 - D40Z4W32 - L120	0973	40	4	120	Weldon	32	40	-	-	●
		E90 - WN08 - D50Z4W32 - L120	0974	50	4	120		32	40	-	-	●
		E90 - WN08 - D50Z5W32 - L120	0990	50	5	120		32	40	-	-	●
		E90 - WN08 - D32Z2C32 - L120	0991	32	2	120		32	40	-	-	●
		E90 - WN08 - D32Z2C32 - L200	0872	32	2	200		32	60	-	-	●
		E90 - WN08 - D33Z2C32 - L200	0873	33	2	200		32	40	-	-	●
		E90 - WN08 - D40Z3C32 - L120	0994	40	3	120		32	40	-	-	●
		E90 - WN08 - D40Z3C32 - L200	0874	40	3	200	Cylindrical	32	40	-	-	●
		E90 - WN08 - D40Z4C32 - L120	0996	40	4	120		32	40	-	-	●
		E90 - WN08 - D50Z4C32 - L120	0997	50	4	120		32	40	-	-	●
		E90 - WN08 - D50Z5C32 - L120	0998	50	5	120		32	40	-	-	●
NEW WNEX 0806	7.0	F90 - WN08 - D50Z4S22	0875	50	4	40		22	-	20	44	●
		F90 - WN08 - D50Z5S22	0976	50	5	40		22	-	20	44	●
		F90 - WN08 - D63Z5S22	0876	63	5	40		22	-	20	48	●
		F90 - WN08 - D63Z6S22	0977	63	6	40		22	-	20	48	●
		F90 - WN08 - D80Z4S27	0999	80	4	50		27	-	20	56	●
		F90 - WN08 - D80Z6S25.4	1000	80	6	50		25.4	-	26.64	56	●
		F90 - WN08 - D80Z7S27	0878	80	7	50		27	-	23	56	●
		F90 - WN08 - D80Z7S25.4	0877	80	7	50	Shellmill	25.4	-	26.64	56	●
		F90 - WN08 - D80Z9S27	0978	80	9	50		27	-	23	56	●
		F90 - WN08 - D100Z8S31.75 - WOC	1002	100	8	50		31.75	-	32	67	X
		F90 - WN08 - D100Z9S32	0979	100	9	50		32	-	26	67	●
		F90 - WN08 - D100Z11S32	0980	100	11	50		32	-	26	67	●
		F90 - WN08 - D125Z10S38.1 - WOC	1003	125	10	63		38.1	-	38	85	X
		F90 - WN08 - D125Z11S40	0981	125	11	63		40	-	29	85	●
		F90 - WN08 - D125Z14S40	0982	125	14	63		40	-	29	85	●
		M90 - WN08 - D32Z2M16	1004	32	2	65		M16	42	-	29	●
		M90 - WN08 - D40Z3M16	1005	40	3	65	Modular	M16	42	-	29	●
		M90 - WN08 - D40Z4M16	0984	40	4	65		M16	42	-	29	●

* Clamping Torque (Nm) 3.0Nm

WNEX0806	Screw	Wrench	Handle	BIT
Description	TP154011-GS	TPWBTP15	DH-H4	DB-TP15
EDP	18000251	18000217	18000189	18000208

Milling - Modular Shank

Modular Shanks



Unit: mm

Series	Designation	EDP 1700..	DCSFWS	LF	TYPE	DCON	
M08	EM - M08 - D13C16 - L100	0634	13	100	Cylindrical	16	●
	EM - M08 - D15C16 - L130	0635	15	130		16	●
M10	EM - M10 - D18C20 - L130	0636	18	130	Cylindrical	20	●
M12	EM - M12 - D23C25 - L150	0637	23	150	Cylindrical	25	●
	EM - M12 - D23C25 - L200	0638	23	200		25	●
	EM - M12 - D23C25 - L250	0639	23	250		25	●
M16	EM - M16 - D30C32 - L150	0640	30	150	Cylindrical	32	●
	EM - M16 - D30C32 - L200	0641	30	200		32	●
	EM - M16 - D30C32 - L250	0642	30	250		32	●
	EM - M16 - D30C32 - L300	0643	30	300		32	●

Mounting Bolt

DCON	Description	EDP
Φ16	YHBM08-L20	18000224
Φ16 HF	YHBM08-L25	18000238
Φ22	YHBM10-L25	18000239
Φ22 HF	YHBM10-L30	18000240
Φ25.4 (Metric O.D)	YHBM12-L30	18000241
Φ27	YHBM12-L30	18000241
Φ31.75 (Metric O.D)	YMBM16-L42	18000242
Φ32	YMBM16-L42	18000242
Φ32 HF	YMBM16-L50	18000258
Φ38.1 (Metric O.D)	YMBM20-L54	18000243
Φ40	YMBM20-L54	18000243
Φ0.5" (Φ12.7)	YHBU250-L25.4	18000244
Φ0.75" (Φ19.05)	YHBU375-L25.4	18000245
Φ0.75" (Φ19.05) HF	YHBU375-L31.75	18000246
Φ1.0" (Φ25.4)	YHBU500-L38.1	18000247
Φ1.25" (Φ31.75)	YMBU625-L52	18000248
Φ1.5" (Φ38.1)	YMBU750-L60	18000249
Φ2.0" (Φ50.8)	YMBU1000-L70	18000250



DRILLING

Drilling Overview

Drill Holder

X-Drill Inserts (SYMX)

Square Drill Inserts (SPMX)

Triagonal Drilling Inserts (WCMX)

Click this QR code!!



Scan this QR code to see our **X-Drill** at work.

Drilling Overview

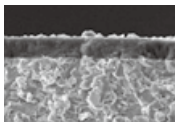
Drilling Grades

Drilling Grades		P Steel					M Stainless steel					K Cast iron				
		P05	P15	P25	P35	P45	M05	M15	M25	M35	M45	K05	K15	K25	K35	K45
PVD	YG713		713					713					713			
	YG602			602					602					602		
	YG613				613					613						

YG713

P15 - P30 | M15 - M30 | K15 - K30 | H20 - H30

PVD - TiAlN



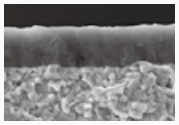
Drilling Grade for General Steel Application

- Multi-layer TiAlN structure realizes stronger crater and flank wear resistance
- Fine-grained carbide and balanced substrate

YG602

P20 - P35 | M20 - M40 | K20 - K40 | S15 - S25

PVD - TiAlN



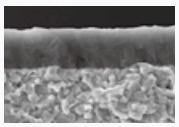
Universal grade for General Drilling Application

- Ultra Dense PVD Coating with optimal thermal resistance & strength
- Sub-Micron substrate designed for demanding application

YG613

P30 - P50 | M30 - M50

PVD - TiAlN



Drilling Grade for Stainless Steel Application

- New coating layer with lubrication preventing built-up edge on ultra fine grain substrate with high toughness.
- The toughest substrate provides excellent cutting performance in stainless steel

Universal Drilling Inserts

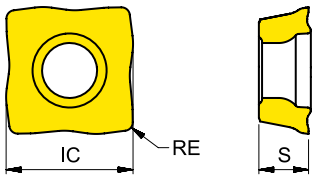
	4 Corner	SYMX Series NEW	SYMX	05, 06, 07, 08
	4 Corner	SPMX Series	SPMX	05, 06, 07, 09, 11, 14
	ISO 3 Corner	WCMX Series	WCMX	03, 04, 05, 06, 08

Drilling Chipbreakers

P	M	K			
	M		–ST		• Sharp Geometry • Sticky Material, Stainless Steel
P	M	K	**General Inserts** **(No Description)**		• First Choice for General Application

X-Drill Inserts (SYMX)

Recommended Cutting Conditions : p.223



Series	IC	S
SYMX 0502	4.97	2.35
SYMX 0602	5.99	2.35
SYMX 07T2	7.01	2.80
SYMX 0803	8.30	3.20

EDP 3200..

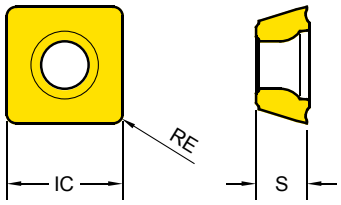
SYMX	Designation	RE (mm)	Fn (mm/rev.)	P25 M25 K30 YG602	P20 M20 K20 YG713	P40 M40 YG613
NEW SYMX General 	SYMX 050204	0.4	0.06 ~ 0.12		● 0097	● 0098
	SYMX 060204	0.4	0.06 ~ 0.12		● 0093	● 0095
	SYMX 07T206	0.6	0.06 ~ 0.12		● 0099	● 0100
	SYMX 080306	0.6	0.08 ~ 0.20		● 0101	● 0102

● : Stock item ○ : Order made item

Drilling - Inserts

Square Drill Inserts (SPMX)

Recommended Cutting Conditions : p.223



Series	IC	S
SPMX 0502	5.00	2.38
SPMX 0602	6.00	2.41
SPMX 07T3	7.94	3.97
SPMX 0904	9.80	4.30
SPMX 1104	11.50	4.80
SPMX 1405	14.30	5.20

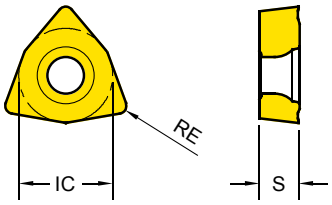
EDP 3200..

SPMX		Designation	RE (mm)	Fn (mm/rev.)	P25 M25 K30 YG602	P20 M20 K20 YG713	P40 M40 YG613
SPMX General		SPMX 050204	0.4	0.07~0.14	● 0005	● 0062	● 0077
		SPMX 060204	0.4	0.08~0.14	● 0006	● 0063	● 0078
		SPMX 07T308	0.8	0.08~0.16	● 0007	● 0064	● 0061
		SPMX 090408	0.8	0.08~0.16	● 0008	● 0065	● 0079
		SPMX 110408	0.8	0.10~0.18	● 0009	● 0066	● 0080
		SPMX 140512	1.2	0.10~0.20	● 0010	● 0067	
-ST Stainless Steel		SPMX 050204 - ST	0.4	0.03~0.10	● 0011		● 0070
		SPMX 060204 - ST	0.4	0.04~0.11	● 0012		● 0071
		SPMX 07T308 - ST	0.8	0.04~0.11	● 0013		● 0068
		SPMX 090408 - ST	0.8	0.05~0.12	● 0014		● 0072
		SPMX 110408 - ST	0.8	0.05~0.12			● 0073
		SPMX 140512 - ST	1.2	0.05~0.16			● 0074

●: Stock item ○: Order made item

Triagonal Drill Inserts (WCMX)

Recommended Cutting Conditions : p.223



Series	IC	S
WCMX 0302	5.56	2.38
WCMX 0402	6.35	2.38
WCMX 0503	7.94	3.18
WCMX 06T3	9.53	3.97
WCMX 0804	12.70	4.76

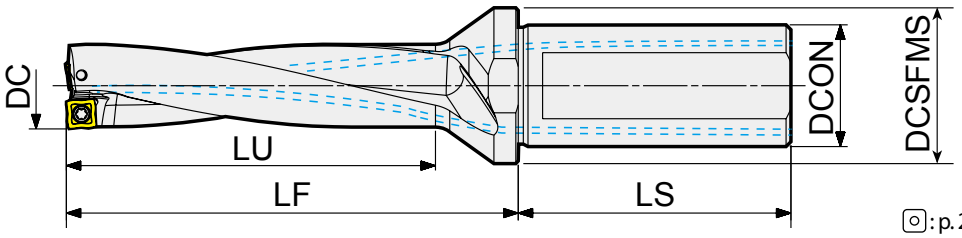
EDP 3200..

WCMX	Designation	RE (mm)	Fn (mm/rev.)	P25 M25 K30 YG602	P20 M20 K20 YG713	P40 M40 YG613
WCMX General 	WCMX 030208	0.8	0.05 ~ 0.12	● 0031	● 0086	
	WCMX 040208	0.8	0.05 ~ 0.12	● 0003	● 0087	
	WCMX 050308	0.8	0.06 ~ 0.14	● 0001	● 0088	
	WCMX 06T308	0.8	0.08 ~ 0.14	● 0002	● 0089	
	WCMX 080412	1.2	0.08 ~ 0.14	● 0004	● 0090	● 0091

● : Stock item ○ : Order made item

Drilling - Drill Holder

X-Drill Holder (SYMX05) (DC 14~16)

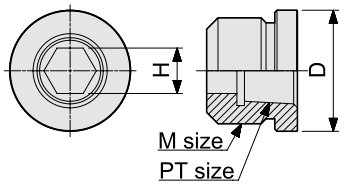


: p. 200

Unit : mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
NEW SYMX 050204	14	28	YGSY2 - 140S20 - 05	1019	46	96.0	20	25	50
		42	YGSY3 - 140S20 - 05	1031	60	110.0			
		56	YGSY4 - 140S20 - 05	1043	74	124.0			
		70	YGSY5 - 140S20 - 05	1055	88	138 .0			
	15	30	YGSY2 - 150S20 - 05	1020	49	99.0			
		45	YGSY3 - 150S20 - 05	1032	64	114.0			
		60	YGSY4 - 150S20 - 05	1044	79	129.0			
		75	YGSY5 - 150S20 - 05	1056	94	144.0			
	16	32	YGSY2 - 160S25 - 05	1021	52	102.0			
		48	YGSY3 - 160S20 - 05	1033	68	118.0			
		64	YGSY4 - 160S20 - 05	1045	84	134.0			
		80	YGSY5 - 160S20 - 05	1057	100	150.0			

PLUG (DCON20)



Designation	EDP No.	DCON	ØD	M size	PT size	H
PLUG M12-1/8	38000001	20	14	M12x1.0	PT 1/8	6

* Plug for turning lathe should be ordered separately.

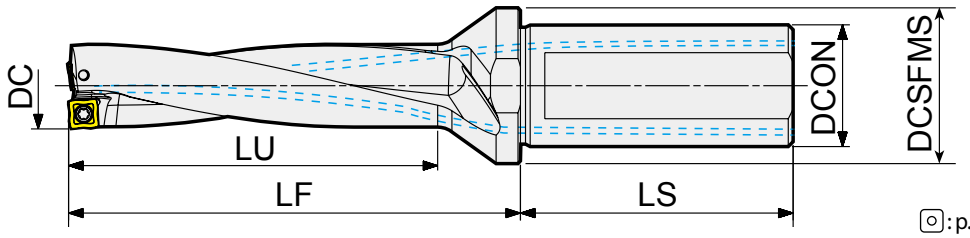
* Clamping Torque (Nm) 0.6Nm

SYMX05	Screw	Wrench
Description	TP062004-GS	TPWFTP06
EDP	18000252	18000262

Plug	DCON	Ø 20	Ø 25	Ø 32
	Description	PLUG M12-1/8	PLUG M14-1/8	PLUG M22-1/4
	EDP	38000001	38000002	38000003

Drilling - Drill Holder

X-Drill Holder (SYMX06) (DC 17~20)

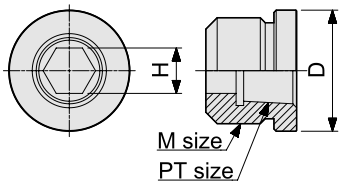


: p. 200

Unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
NEW SYMX 060204	17	34	YGSY2-170S25-06	0851	54	110.0	25	32	56
		51	YGSY3-170S25-06	0855	71	127.0			
		68	YGSY4-170S25-06	0859	88	144.0			
		85	YGSY5-170S25-06	0863	105	161.0			
	18	36	YGSY2-180S25-06	0852	57	113.0			
		54	YGSY3-180S25-06	0856	75	131.0			
		72	YGSY4-180S25-06	0860	93	149.0			
		90	YGSY5-180S25-06	0864	111	167.0			
	19	38	YGSY2-190S25-06	0853	59	115.0			
		57	YGSY3-190S25-06	0857	78	134.0			
		76	YGSY4-190S25-06	0861	97	153.0			
		95	YGSY5-190S25-06	0865	116	172.0			
	20	40	YGSY2-200S25-06	0854	63	119.0			
		60	YGSY3-200S25-06	0858	83	139.0			
		80	YGSY4-200S25-06	0862	103	159.0			
		100	YGSY5-200S25-06	0866	123	179.0			

PLUG (DCON25)



Designation	EDP No.	DCON	ØD	M size	PT size	H
PLUG M14-1/8	38000002	25	16	M14x1.0	PT 1/8	6

* Plug for turning lathe should be ordered separately.

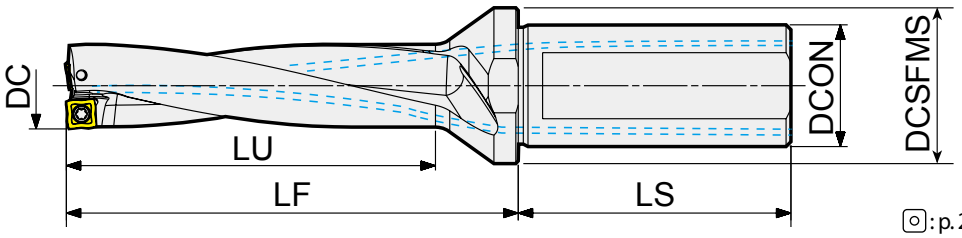
* Clamping Torque (Nm) 0.7Nm

SYMX06	Screw	Wrench
Description	TP072205-GS	TPWFTP07
EDP	18000253	18000001

Plug	DCON	Ø 20	Ø 25	Ø 32
	Description	PLUG M12-1/8	PLUG M14-1/8	PLUG M22-1/4
	EDP	38000001	38000002	38000003

Drilling - Drill Holder

X-Drill Holder (SYMX07) (DC 21~23) NEW

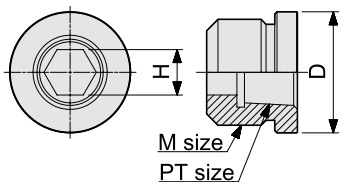


: p. 200

Unit : mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
NEW SYMX 07T206	21	42	YGSY2 - 210S25 - 07	1022	65	121.0	25	32	56
		63	YGSY3 - 210S25 - 07	1034	86	142.0			
		84	YGSY4 - 210S25 - 07	1046	107	163.0			
		105	YGSY5 - 210S25 - 07	1058	128	184.0			
	22	44	YGSY2 - 220S25 - 07	1023	67	123.0			
		66	YGSY3 - 220S25 - 07	1035	89	145.0			
		88	YGSY4 - 220S25 - 07	1047	111	167.0			
		110	YGSY5 - 220S25 - 07	1059	133	189.0			
	23	46	YGSY2 - 230S25 - 07	1024	68	124.0			
		69	YGSY3 - 230S25 - 07	1036	91	147.0			
		92	YGSY4 - 230S25 - 07	1048	114	170.0			
		115	YGSY5 - 230S25 - 07	1060	137	193.0			

PLUG (DCON25)



Designation	EDP No.	DCON	ØD	M size	PT size	H
PLUG M14-1/8	38000002	25	16	M14x1.0	PT 1/8	6

* Plug for turning lathe should be ordered separately.

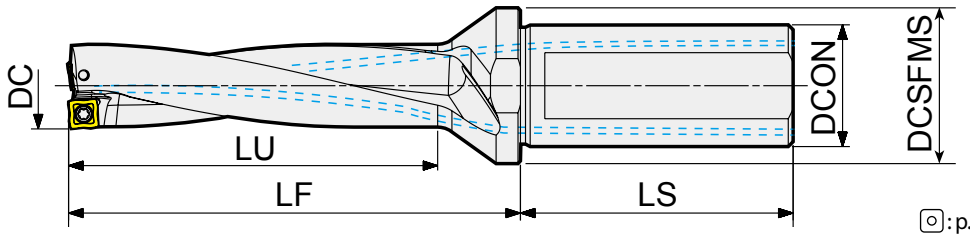
* Clamping Torque (Nm) 0.7Nm

SYMX07	Screw	Wrench
Description	TP072205-GS	TPWFTP07
EDP	18000253	18000001

Plug	DCON	Ø 20	Ø 25	Ø 32
	Description	PLUG M12-1/8	PLUG M14-1/8	PLUG M22-1/4
	EDP	38000001	38000002	38000003

Drilling - Drill Holder

X-Drill Holder (SYMX08) (DC 24~28)

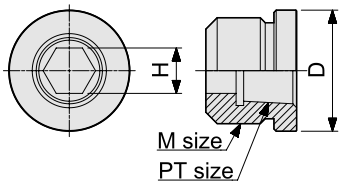


: p. 200

Unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
NEW SYMX 080306	24	48	YGSY2 - 240S32 - 08	1025	70	130.0	32	45	60
		72	YGSY3 - 240S32 - 08	1037	94	154.0			
		96	YGSY4 - 240S32 - 08	1049	118	178.0			
		120	YGSY5 - 240S32 - 08	1061	142	202.0			
	25	50	YGSY2 - 250S32 - 08	1026	72	132.0			
		75	YGSY3 - 250S32 - 08	1038	97	157.0			
		100	YGSY4 - 250S32 - 08	1050	122	182.0			
		125	YGSY5 - 250S32 - 08	1062	147	207.0			
	26	52	YGSY2 - 260S32 - 08	1027	73	133.0			
		78	YGSY3 - 260S32 - 08	1039	99	159.0			
		104	YGSY4 - 260S32 - 08	1051	125	185.0			
		130	YGSY5 - 260S32 - 08	1063	151	211.0			
	27	54	YGSY2 - 270S32 - 08	1028	77	137.0			
		81	YGSY3 - 270S32 - 08	1040	104	164.0			
		108	YGSY4 - 270S32 - 08	1052	131	191.0			
		135	YGSY5 - 270S32 - 08	1064	158	218.0			
	28	56	YGSY2 - 280S32 - 08	1029	79	139.0			
		84	YGSY3 - 280S32 - 08	1041	107	167.0			
		112	YGSY4 - 280S32 - 08	1053	135	195.0			
		140	YGSY5 - 280S32 - 08	1065	163	223.0			

PLUG (DCON32)



Designation	EDP No.	DCON	ØD	M size	PT size	H
PLUG M22-1/4	38000003	32	24	M22x1.25	PT 1/4	10

* Plug for turning lathe should be ordered separately.

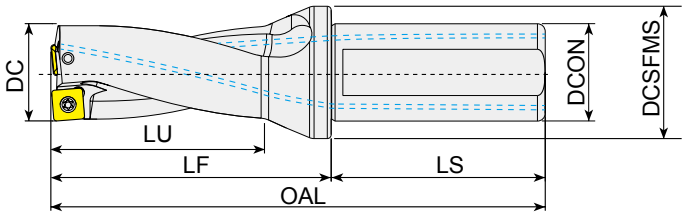
* Clamping Torque (Nm) 1.2Nm

SYMX08	Screw	Wrench
Description	TP072506-GS	TPWFTP07
EDP	18000261	18000001

Plug	DCON	Ø 20	Ø 25	Ø 32
	Description	PLUG M12-1/8	PLUG M14-1/8	PLUG M22-1/4
	EDP	38000001	38000002	38000003

Drilling - Drill Holder

Square Drill Holder (SPMX05) (DC 13~15)



: p. 201

Unit: mm

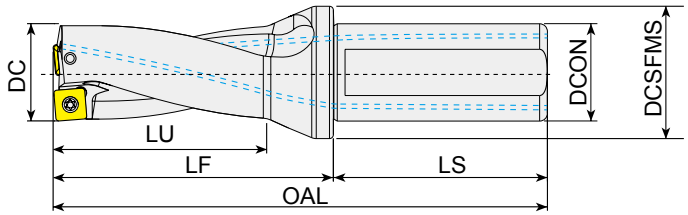
Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
SPMX 050204	13	26	YGSP2 - 13S20F026 - 05	0001	44	94	20	25	50
		39	YGSP3 - 13S20F039 - 05	0004	57	107			
		65	YGSP5 - 13S20F065 - 05	0007	83	133			
	14	28	YGSP2 - 14S20F028 - 05	0002	46	96			
		42	YGSP3 - 14S20F042 - 05	0005	60	110			
		70	YGSP5 - 14S20F070 - 05	0008	88	138			
	15	30	YGSP2 - 15S20F030 - 05	0003	48	98			
		45	YGSP3 - 15S20F045 - 05	0006	63	113			
		75	YGSP5 - 15S20F075 - 05	0009	93	143			

* Call for us DC size increments of 0.5

* Clamping Torque (Nm) 0.6Nm

SPMX05	Screw	Wrench
Description	T062043D	TWFT06
EDP	18000177	18000031

Square Drill Holder (SPMX06) (DC 16~21)



: p. 201

Unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
SPMX 060204	16	32	YGSP2 - 16S25F032 - 06	0010	53	109	25	32	56
		48	YGSP3 - 16S25F048 - 06	0016	69	125			
		80	YGSP5 - 16S25F080 - 06	0022	101	157			
	17	34	YGSP2 - 17S25F034 - 06	0011	55	111			
		51	YGSP3 - 17S25F051 - 06	0017	72	128			
		85	YGSP5 - 17S25F085 - 06	0023	106	162			
	18	36	YGSP2 - 18S25F036 - 06	0012	57	113			
		54	YGSP3 - 18S25F054 - 06	0018	75	131			
		90	YGSP5 - 18S25F090 - 06	0024	111	167			
	19	38	YGSP2 - 19S25F038 - 06	0013	59	115			
		57	YGSP3 - 19S25F057 - 06	0019	78	134			
		95	YGSP5 - 19S25F095 - 06	0025	116	172			
	20	40	YGSP2 - 20S25F040 - 06	0014	62	118			
		60	YGSP3 - 20S25F060 - 06	0020	82	138			
		100	YGSP5 - 20S25F100 - 06	0026	122	178			
	21	42	YGSP2 - 21S25F042 - 06	0015	64	120			
		63	YGSP3 - 21S25F063 - 06	0021	85	141			
		105	YGSP5 - 21S25F105 - 06	0027	127	183			

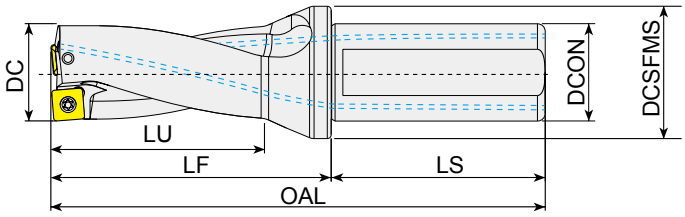
* Call for us DC size increments of 0.5

* Clamping Torque (Nm) 0.7Nm

SPMX06	Screw	Wrench
Description	T072252D	TWFT07
EDP	18000178	18000032

Drilling - Drill Holder

Square Drill Holder (SPMX07) (DC 22~27)



: p. 201

Unit: mm

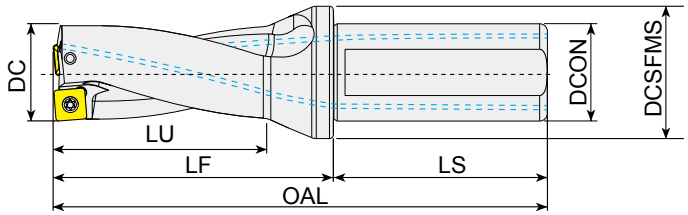
Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
SPMX 07T308	22	44	YGSP2 - 22S32F044 - 07	0028	74	134	32	45	60
		66	YGSP3 - 22S32F066 - 07	0034	96	156			
		110	YGSP5 - 22S32F110 - 07	0040	140	200			
	23	46	YGSP2 - 23S32F046 - 07	0029	76	136			
		69	YGSP3 - 23S32F069 - 07	0035	99	159			
		115	YGSP5 - 23S32F115 - 07	0041	145	205			
	24	48	YGSP2 - 24S32F048 - 07	0030	78	138			
		72	YGSP3 - 24S32F072 - 07	0036	102	162			
		120	YGSP5 - 24S32F120 - 07	0042	150	210			
	25	50	YGSP2 - 25S32F050 - 07	0031	80	140			
		75	YGSP3 - 25S32F075 - 07	0037	105	165			
		125	YGSP5 - 25S32F125 - 07	0043	155	215			
	26	52	YGSP2 - 26S32F052 - 07	0032	82	142			
		78	YGSP3 - 26S32F078 - 07	0038	108	168			
		130	YGSP5 - 26S32F130 - 07	0044	160	220			
	27	54	YGSP2 - 27S32F054 - 07	0033	84	144			
		81	YGSP3 - 27S32F081 - 07	0039	111	171			
		135	YGSP5 - 27S32F135 - 07	0045	165	225			

* Call for us DC size increments of 0.5

* Clamping Torque (Nm) 1.2Nm

SPMX07	Screw	Wrench
Description	T082564D	TWFT08
EDP	18000179	18000033

Square Drill Holder (SPMX09) (DC 28~33)



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Unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
SPMX 090408	28	56	YGSP2 - 28S32F056 - 09	0046	86	146	32	45	60
		84	YGSP3 - 28S32F084 - 09	0052	114	174			
		140	YGSP5 - 28S32F140 - 09	0058	170	230			
	29	58	YGSP2 - 29S32F058 - 09	0047	88	148			
		87	YGSP3 - 29S32F087 - 09	0053	117	177			
		145	YGSP5 - 29S32F145 - 09	0059	175	235			
	30	60	YGSP2 - 30S32F060 - 09	0048	91	151			
		90	YGSP3 - 30S32F090 - 09	0054	121	181			
		150	YGSP5 - 30S32F150 - 09	0060	181	241			
	31	62	YGSP2 - 31S32F062 - 09	0049	93	153			
		93	YGSP3 - 31S32F093 - 09	0055	124	184			
		155	YGSP5 - 31S32F155 - 09	0061	186	246			
	32	64	YGSP2 - 32S32F064 - 09	0050	95	155			
		96	YGSP3 - 32S32F096 - 09	0056	127	187			
		160	YGSP5 - 32S32F160 - 09	0062	191	251			
	33	66	YGSP2 - 33S32F066 - 09	0051	97	157			
		99	YGSP3 - 33S32F099 - 09	0057	130	190			
		165	YGSP5 - 33S32F165 - 09	0063	196	256			

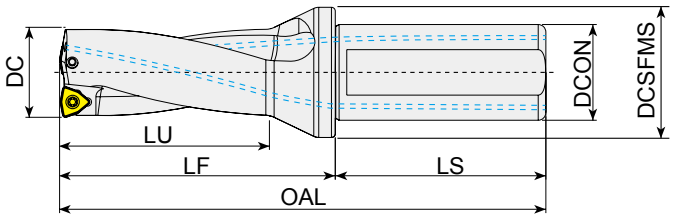
* Call for us DC size increments of 0.5

* Clamping Torque (Nm) 2.4Nm

SPMX09	Screw	Wrench
Description	T103588D	TWFT10
EDP	18000180	18000034

Drilling - Drill Holder

Trigonal Drill Holder (WCMX03) (DC 16~19.5)



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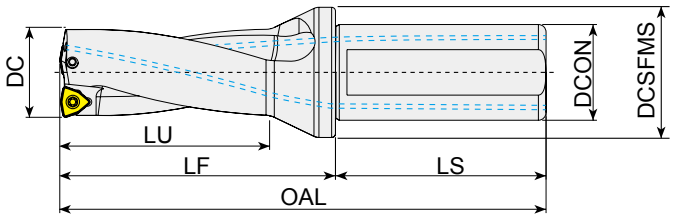
Unit: mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 030208	16	32	YGWC2 - 16S25F032 - 03	0253	54	110	25	34	56
		48	YGWC3 - 16S25F048 - 03	0296	70	126			
		64	YGWC4 - 16S25F064 - 03	0339	86	142			
	16.5	32	YGWC2 - 16.5S25F032 - 03	0780	54	110			
		48	YGWC3 - 16.5S25F048 - 03	0781	70	126			
		64	YGWC4 - 16.5S25F064 - 03	0782	86	142			
	17	34	YGWC2 - 17S25F034 - 03	0254	56	112			
		51	YGWC3 - 17S25F051 - 03	0297	73	129			
		68	YGWC4 - 17S25F068 - 03	0340	90	146			
	17.5	34	YGWC2 - 17.5S25F034 - 03	0783	56	112			
		51	YGWC3 - 17.5S25F051 - 03	0784	73	129			
		68	YGWC4 - 17.5S25F068 - 03	0785	90	146			
	18	36	YGWC2 - 18S25F036 - 03	0255	58	114			
		54	YGWC3 - 18S25F054 - 03	0298	76	132			
		72	YGWC4 - 18S25F072 - 03	0341	94	150			
	18.5	36	YGWC2 - 18.5S25F036 - 03	0786	58	114			
		54	YGWC3 - 18.5S25F054 - 03	0787	76	132			
		72	YGWC4 - 18.5S25F072 - 03	0788	94	150			
	19	38	YGWC2 - 19S25F038 - 03	0256	60	116			
		57	YGWC3 - 19S25F057 - 03	0299	79	135			
		76	YGWC4 - 19S25F076 - 03	0342	98	154			
	19.5	38	YGWC2 - 19.5S25F038 - 03	0789	60	116			
		57	YGWC3 - 19.5S25F057 - 03	0790	79	135			
		76	YGWC4 - 19.5S25F076 - 03	0791	98	154			

* Clamping Torque (Nm) 0.6Nm

WCMX03	Screw	Wrench
Description	T0622557	TWFT06
EDP	18000183	18000031

Trigonal Drill Holder (WCMX04) (DC 20~23.5)



: p. 202 Unit:mm

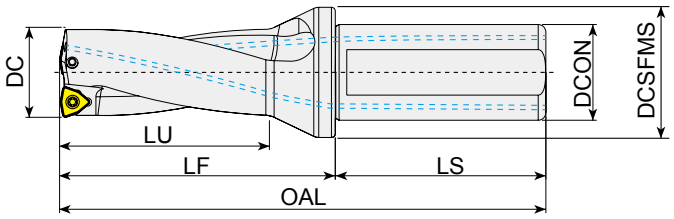
Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 040208	20	40	YGWC2 - 20S25F040 - 04	0257	62	118	25	34	56
		60	YGWC3 - 20S25F060 - 04	0300	82	138			
		80	YGWC4 - 20S25F080 - 04	0343	102	158			
	20.5	40	YGWC2 - 20.5S25F040 - 04	0726	62	118			
		60	YGWC3 - 20.5S25F060 - 04	0727	82	138			
	21	42	YGWC2 - 21S25F042 - 04	0258	64	120			
		63	YGWC3 - 21S25F063 - 04	0301	85	141			
		84	YGWC4 - 21S25F084 - 04	0344	106	162			
	21.5	42	YGWC2 - 21.5S25F042 - 04	0728	64	120			
		63	YGWC3 - 21.5S25F063 - 04	0729	85	141			
	22	44	YGWC2 - 22S25F044 - 04	0259	66	122			
		66	YGWC3 - 22S25F066 - 04	0302	88	144			
		88	YGWC4 - 22S25F088 - 04	0345	110	166			
	22.5	44	YGWC2 - 22.5S25F044 - 04	0730	66	122			
		66	YGWC3 - 22.5S25F066 - 04	0731	88	144			
		88	YGWC4 - 22.5S25F088 - 04	0732	110	166			
	23	46	YGWC2 - 23S25F046 - 04	0260	68	124			
		69	YGWC3 - 23S25F069 - 04	0303	91	147			
		92	YGWC4 - 23S25F092 - 04	0346	114	170			
	23.5	46	YGWC2 - 23.5S25F046 - 04	0733	68	124			
		69	YGWC3 - 23.5S25F069 - 04	0734	91	147			

* Clamping Torque (Nm) 1.2Nm

WCMX04	Screw	Wrench
Description	T072565D	TWFT07
EDP	18000184	18000032

Drilling - Drill Holder

Trigonal Drill Holder (WCMX05) (D2416~29.5)



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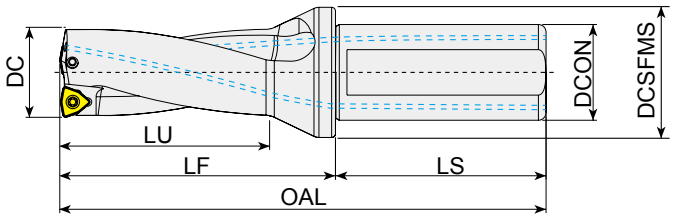
Unit: mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 050308	24	48	YGWC2 - 24S25F048 - 05	0261	70	126	25	34	56
		72	YGWC3 - 24S25F072 - 05	0304	94	150			
		96	YGWC4 - 24S25F096 - 05	0347	118	174			
	24.5	48	YGWC2 - 24.5S25F048 - 05	0735	70	126			
		72	YGWC3 - 24.5S25F072 - 05	0736	94	150			
	25	50	YGWC2 - 25S25F050 - 05	0262	72	128			
		75	YGWC3 - 25S25F075 - 05	0305	97	153			
		100	YGWC4 - 25S25F100 - 05	0251	122	178			
	25.5	50	YGWC2 - 25.5S25F050 - 05	0737	72	128			
		75	YGWC3 - 25.5S25F075 - 05	0738	97	153			
	26	52	YGWC2 - 26S25F052 - 05	0263	74	130			
		78	YGWC3 - 26S25F078 - 05	0306	100	156			
		104	YGWC4 - 26S25F104 - 05	0349	126	182			
	26.5	52	YGWC2 - 26.5S25F052 - 05	0739	74	130			
		78	YGWC3 - 26.5S25F078 - 05	0741	100	156			
		104	YGWC4 - 26.5S25F104 - 05	0742	126	182			
	27	54	YGWC2 - 27S25F054 - 05	0264	76	132			
		81	YGWC3 - 27S25F081 - 05	0307	103	159			
		108	YGWC4 - 27S25F108 - 05	0350	130	186			
	27.5	54	YGWC2 - 27.5S25F054 - 05	0743	76	132			
		81	YGWC3 - 27.5S25F081 - 05	0744	103	159			
	28	56	YGWC2 - 28S25F056 - 05	0265	78	134			
		84	YGWC3 - 28S25F084 - 05	0308	106	162			
		112	YGWC4 - 28S25F112 - 05	0351	134	190			
	28.5	56	YGWC2 - 28.5S25F056 - 05	0745	78	134			
		84	YGWC3 - 28.5S25F084 - 05	0746	106	162			
		112	YGWC4 - 28.5S25F112 - 05	0747	134	190			
	29	58	YGWC2 - 29S25F058 - 05	0266	80	136			
		87	YGWC3 - 29S25F087 - 05	0309	109	165			
		116	YGWC4 - 29S25F116 - 05	0352	138	194			
	29.5	58	YGWC2 - 29.5S25F058 - 05	0748	80	136			
		87	YGWC3 - 29.5S25F087 - 05	0749	109	165			

* Clamping Torque (Nm) 1.6Nm

WCMX05	Screw	Wrench
Description	T693072D	TWFT08
EDP	18000185	18000033

Trigonal Drill Holder (WCMX06) (DC 30~44.5)



: p. 202 Unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 06T308	30	60	YGWC2 - 30S32F060 - 06	0267	87	147	32	44	60
		90	YGWC3 - 30S32F090 - 06	0310	117	177			
		120	YGWC4 - 30S32F120 - 06	0353	147	207			
	30.5	90	YGWC3 - 30.5S32F090 - 06	0750	117	177			
	31	62	YGWC2 - 31S32F062 - 06	0268	89	149			
		93	YGWC3 - 31S32F093 - 06	0311	120	180			
		124	YGWC4 - 31S32F124 - 06	0354	151	211			
	31.5	93	YGWC3 - 31.5S32F093 - 06	0751	120	180			
	32	64	YGWC2 - 32S32F064 - 06	0269	91	151			
		96	YGWC3 - 32S32F096 - 06	0312	123	183			
		128	YGWC4 - 32S32F128 - 06	0252	155	215			
	32.5	96	YGWC3 - 32.5S32F096 - 06	0752	123	183			
	33	66	YGWC2 - 33S32F066 - 06	0753	93	153			
		99	YGWC3 - 33S32F099 - 06	0754	126	186			
		132	YGWC4 - 33S32F132 - 06	0755	159	219			
	33.5	99	YGWC3 - 33.5S32F099 - 06	0756	126	186			
		132	YGWC4 - 33.5S32F132 - 06	0757	159	219			
	34	68	YGWC2 - 34S32F068 - 06	0271	95	155			
		102	YGWC3 - 34S32F102 - 06	0314	129	189			
		136	YGWC4 - 34S32F136 - 06	0357	163	223			
	34.5	102	YGWC3 - 34.5S32F102 - 06	0758	129	189			
	35	70	YGWC2 - 35S32F070 - 06	0272	97	157			
		105	YGWC3 - 35S32F105 - 06	0315	132	192			
		140	YGWC4 - 35S32F140 - 06	0358	167	227			
	35.5	105	YGWC3 - 35.5S32F105 - 06	0759	132	192			
	36	72	YGWC2 - 36S32F072 - 06	0273	99	159			
		108	YGWC3 - 36S32F108 - 06	0316	135	195			
		144	YGWC4 - 36S32F144 - 06	0359	171	231			
	36.5	108	YGWC3 - 36.5S32F108 - 06	0760	135	195			
	37	74	YGWC2 - 37S32F074 - 06	0274	101	161			
		111	YGWC3 - 37S32F111 - 06	0317	138	198			
		148	YGWC4 - 37S32F148 - 06	0360	175	235			

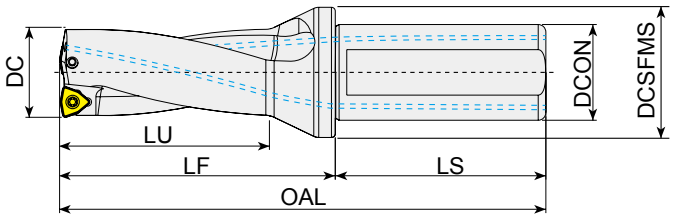
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* Clamping Torque (Nm) 2.4Nm

WCMX06	Screw	Wrench
Description	T103588D	TWFT10
EDP	18000180	18000034

Drilling - Drill Holder

Trigonal Drill Holder (WCMX06) (DC 30~44.5)



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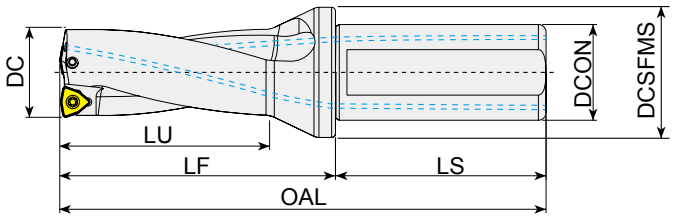
Unit: mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 06T308	37.5	111	YGWC3 - 37.5S32F111 - 06	0761	138	198	32	44	60
	38	76	YGWC2 - 38S32F076 - 06	0275	103	163			
		114	YGWC3 - 38S32F114 - 06	0318	141	201			
		152	YGWC4 - 38S32F152 - 06	0361	179	239			
	38.5	114	YGWC3 - 38.5S32F114 - 06	0762	141	201			
		152	YGWC4 - 38.5S32F152 - 06	0763	179	239			
	39	78	YGWC2 - 39S32F078 - 06	0276	105	165			
		117	YGWC3 - 39S32F117 - 06	0319	144	204			
		156	YGWC4 - 39S32F156 - 06	0362	183	243			
	39.5	117	YGWC3 - 39.5S32F117 - 06	0764	144	204			
	40	80	YGWC2 - 40S32F080 - 06	0277	107	167			
		120	YGWC3 - 40S32F120 - 06	0320	147	207			
		160	YGWC4 - 40S32F160 - 06	0363	187	247			
	40.5	120	YGWC3 - 40.5S32F120 - 06	0765	147	207			
	41	82	YGWC2 - 41S32F082 - 06	0278	109	169			
		123	YGWC3 - 41S32F123 - 06	0321	150	210			
		164	YGWC4 - 41S32F164 - 06	0364	191	251			
	41.5	123	YGWC3 - 41.5S32F123 - 06	0766	150	210			
	42	84	YGWC2 - 42S32F084 - 06	0279	111	171			
		126	YGWC3 - 42S32F126 - 06	0322	153	213			
		168	YGWC4 - 42S32F168 - 06	0365	195	255			
	42.5	126	YGWC3 - 42.5S32F126 - 06	0767	153	213			
	43	86	YGWC2 - 43S32F086 - 06	0280	113	173			
		129	YGWC3 - 43S32F129 - 06	0323	156	216			
		172	YGWC4 - 43S32F172 - 06	0366	199	259			
	43.5	129	YGWC3 - 43.5S32F129 - 06	0768	156	216			
	44	88	YGWC2 - 44S32F088 - 06	0281	115	175			
		132	YGWC3 - 44S32F132 - 06	0324	159	219			
		176	YGWC4 - 44S32F176 - 06	0367	203	263			
	44.5	132	YGWC3 - 44.5S32F132 - 06	0769	159	219			

* Clamping Torque (Nm) 2.4Nm

WCMX06	Screw	Wrench
Description	T103588D	TWFT10
EDP	18000180	18000034

Trigonal Drill Holder (WCMX08) (DC 45~60)



: p. 202 Unit:mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 080412	45	90	YGWC2 - 45S40F090 - 08	0282	122	192	40	54	70
		135	YGWC3 - 45S40F135 - 08	0325	167	237			
		180	YGWC4 - 45S40F180 - 08	0368	212	282			
	45.5	135	YGWC3 - 45.5S40F135 - 08	0770	167	237			
	46	92	YGWC2 - 46S40F092 - 08	0283	124	194			
		138	YGWC3 - 46S40F138 - 08	0326	170	240			
		184	YGWC4 - 46S40F184 - 08	0369	216	286			
	47	94	YGWC2 - 47S40F094 - 08	0284	126	196			
		141	YGWC3 - 47S40F141 - 08	0327	173	243			
		188	YGWC4 - 47S40F188 - 08	0370	220	290			
	48	96	YGWC2 - 48S40F096 - 08	0285	128	198			
		144	YGWC3 - 48S40F144 - 08	0328	176	246			
		192	YGWC4 - 48S40F192 - 08	0371	224	294			
	49	98	YGWC2 - 49S40F098 - 08	0286	130	200			
		147	YGWC3 - 49S40F147 - 08	0329	179	249			
		196	YGWC4 - 49S40F196 - 08	0372	228	298			
	50	100	YGWC2 - 50S40F100 - 08	0287	132	202			
		150	YGWC3 - 50S40F150 - 08	0330	182	252			
		200	YGWC4 - 50S40F200 - 08	0373	232	302			
	51	102	YGWC2 - 51S40F102 - 08	0288	134	204			
		153	YGWC3 - 51S40F153 - 08	0331	185	255			

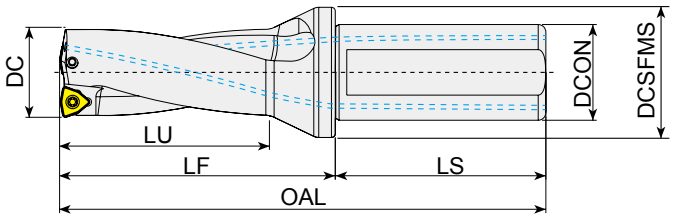
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* Clamping Torque (Nm) 3.0Nm

WCMX08	Screw	Wrench
Description	T154011D	TWFT15
EDP	18000186	18000035

Drilling - Drill Holder

Trigonal Drill Holder (WCMX08) (DC 45~60)



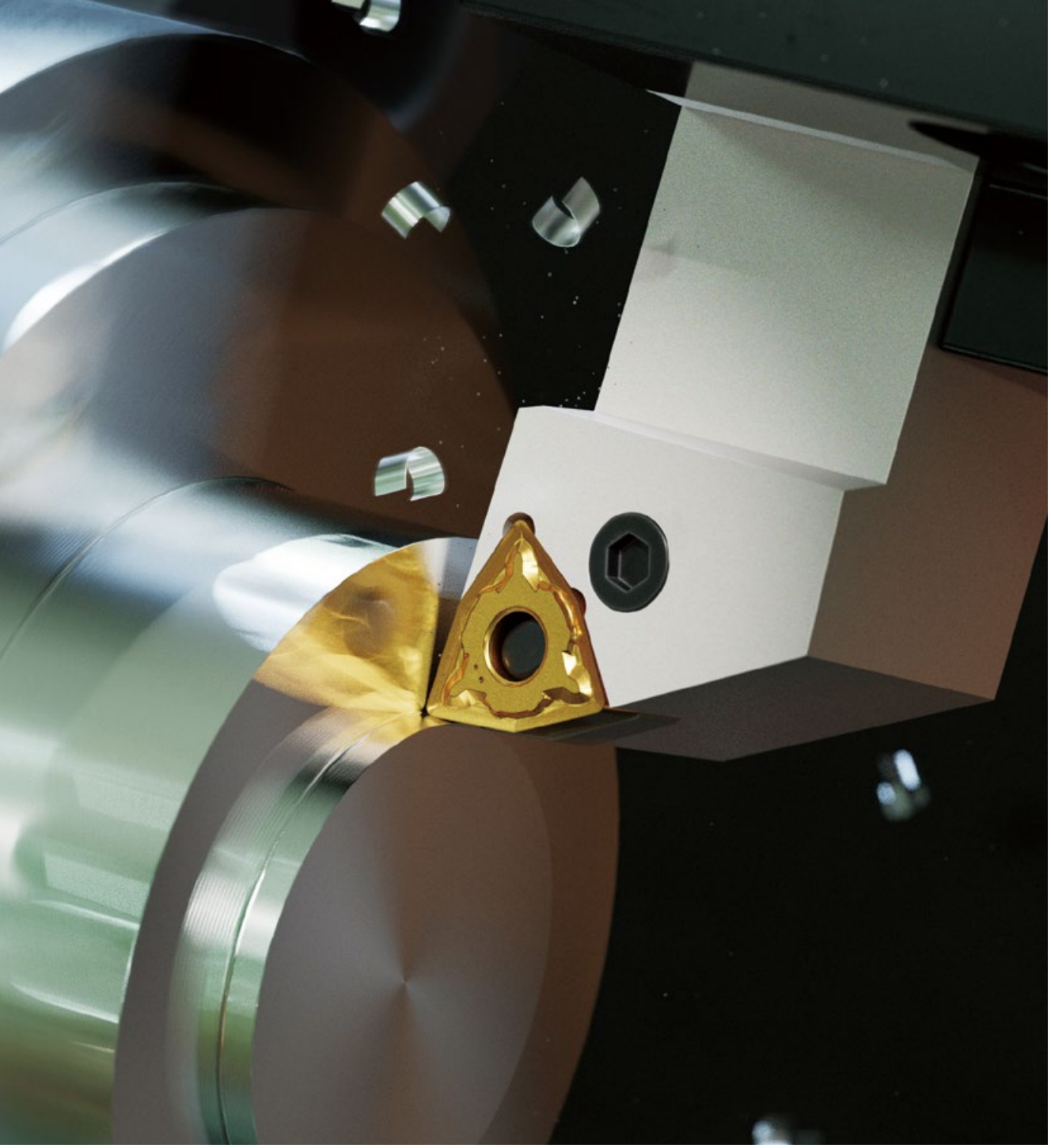
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Unit: mm

Series	DC	LU	Designation	EDP 3700..	LF	OAL	DCON	DCSFMS	LS
WCMX 080412	52	104	YGWC2 - 52S40F104 - 08	0289	136	206	40	54	70
		156	YGWC3 - 52S40F156 - 08	0332	188	258			
	53	106	YGWC2 - 53S40F106 - 08	0290	138	208			
		159	YGWC3 - 53S40F159 - 08	0333	191	261			
	54	108	YGWC2 - 54S40F108 - 08	0291	140	210			
		162	YGWC3 - 54S40F162 - 08	0334	194	264			
	55	110	YGWC2 - 55S40F110 - 08	0292	142	212			
		165	YGWC3 - 55S40F165 - 08	0335	197	267			
	56	112	YGWC2 - 56S40F112 - 08	0293	144	214			
		168	YGWC3 - 56S40F168 - 08	0336	200	270			
	57	114	YGWC2 - 57S40F114 - 08	0294	146	216			
		171	YGWC3 - 57S40F171 - 08	0337	203	273			
	58	116	YGWC2 - 58S40F116 - 08	0295	148	218			
		174	YGWC3 - 58S40F174 - 08	0338	206	276			
	59	118	YGWC2 - 59S40F118 - 08	0771	150	220			
		177	YGWC3 - 59S40F177 - 08	0772	209	279			
	60	120	YGWC2 - 60S40F120 - 08	0773	152	222			
		180	YGWC3 - 60S40F180 - 08	0774	212	282			

* Clamping Torque (Nm) 3.0Nm

WCMX08	Screw	Wrench
Description	T154011D	TWFT15
EDP	18000186	18000035



TECHNICAL INFORMATION

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Technical Information

ISO 13399 Terms

AN	Clearance angle major	**INSD**	Insert diameter
APMX	Maximum depth of cut	**KAPR**	Tool cutting edge angle
AS	Clearance angle wiper edge	**KRINS**	Cutting edge angle major
B	Shank width	**KWW**	Keyway width
BS	Wiper edge length	**L**	Cutting edge length
CBDP	Connection bore depth	**LE**	Cutting edge effective length
CDX	Cutting depth maximum	**LF**	Functional length
CICT	Number of Inserts	**LH**	Head length
CW	Cutting width	**LS**	Shank length
CZC	Connection size code	**LU**	Usable length
DC	Cutting diameter	**LUX**	Usable length maximum
DCON	Connection diameter	**M**	Nose (or Wiper) Height
DCSFMS	Contact surface diameter machine side	**OAL**	Overall length
DCX	Cutting diameter maximum	**RE**	Corner radius
DMIN	Minimum bore diameter	**RMPX**	Maximum ramping angle
DMM	Shank diameter	**RPMX**	Rotational speed maximum
EPSR	Insert included angle	**S**	Insert thickness
H	Shank height	**TDZ**	Thread diameter size
HAND	Hand	**WF**	Functional width
IC	Inscribed circle diameter		

Technical Information

Hardness Conversion Table

HB	HRc	HRB	HV	N/mm²
199	15	93	199	667
203	16	94	201	680
208	17	95	210	696
212	18	95	218	706
216	19	96	222	716
223	20	97	227	755
229	21	98	235	775
233	22	99	241	794
240	23	100	247	824
245	24	100	252	838
250	25	101	255	853
255	26	102	258	870
262	27	103	262	880
264	28	103	271	892
271	29	104	277	941
277	30	105	285	971
290	31	106	292	990
300	32	107	303	1020
308	33	107	311	1035
314	34	108	320	1049
322	35	108	332	1089
331	36	109	342	1118
341	37	109	351	1157
348	38	110	361	1187
360	39	111	376	1236
373	40	111	388	1265
375	41	112	393	1314
388	42	113	406	1363
402	43	114	424	1390
415	44	114	438	1422
419	45	114	448	1447
430	46	115	458	1471
445	47	115	474	1520
456	48	116	490	1569
468	49	117	497	
469	50	117	505	
486	51	118	531	
504	52	118	549	
513	53	119	567	
534	54	120	589	
552	55		649	
572	56		694	
592	57		727	
601	58		746	
613	59			
627	60			
642	61			
658	62			
681	63			
695	64			
HB	HRc	HRB	HV	N/mm²

Technical Information

Formulas

Formulas

Cutting Speed (Vc)	Metric Vc = D × RPM × 0.0031 (m/min.)	Inch Vc = D × RPM × .262 (ft/min.)
	Metric Vc to Inch Vc Inch Vc = Metric Vc × 3.28 (ft/min.)	
	Inch Vc to Metric Vc Metric Vc = Inch Vc × .305 (m/min.)	

Turning Formulas

Spindle Speed (RPM)	Metric RPM = Vc × 318.3 ÷ D (rev./min.)	Inch RPM = Vc × 3.82 ÷ D (rev./min.)
Feed Rate (Vf = Table Feed)	Vf = Fn × RPM (mm/min. or in/min.)	
Feed per Revolution (Fn)	Fn = Vf ÷ RPM (mm/rev. or in/rev.)	
Metal Removal Rate (Q)	Metric Q = Vc × Fn × Ap (cm^3/min.)	Inch Q = Vc × Fn × Ap × 12 (in^3/min.)
Cutting Time	T = L ÷ Vf (min.)	

Milling Formulas

Feed per Revolution (Fn)	Fn = Vf ÷ RPM (mm/rev. or in/rev.) = Fz x Number of tooth (mm/rev. or in/rev.)	
Feed per Tooth (Fz)	Fz = Vf ÷ RPM ÷ Number of tooth (mm/rev. or in/rev.) = Fn ÷ Number of tooth (mm/rev. or in/rev.)	
Metal Removal Rate (Q)	Metric Q = Ap x Ae x Vf ÷ 1000 (cm^3/min.)	Inch Q = Ap x Ae x Vf (in^3/min.)
Cutting Time	T = L ÷ Vf (min.)	
Power Consumption (Pc)	Metric Pc = Ap x Ae x Vf x Kc x 0.000000017 (kW)	Inch Pc = Ap x Ae x Vf x Kc x 0.00000253 (Hp)

Drilling Formulas

Power Consumption (Pc)	Metric Pc = Fn x Vc x D x Kc x 0.0000042 (kW)	Inch Pc = Fn x Vc x D x Kc x 0.0000076 (Hp)
Torque (Mc)	Metric Mc = Pc x 9554.1 ÷ RPM (Nm)	Inch Mc = Pc x 5255 ÷ RPM (lbf ft)
Thrust (T)	T ≒ 0.5 x Kc x DC/2 x Fn x sin KAPR (N)	

Terms

RPM (n)	Spindle Speed (Revolution per minute)
Vc	Cutting Speed
D	Work Diameter
Vf	Feed Rate (Table Feed)
Fn	Feed per Revolution
Ap	Depth of Cut
Q	Metal Removal Rate
L	Length of cut
T	Cutting Time (min.)

Technical Information

Recommended cutting conditions

Turning

Cutting Speed			Vc (m/min.)													
ISO	VDI	Sub Group	YG1010		YG1001		YG3010		YG3015		YG3115		YG3020		YG3030		YG801	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel	-	-	220	480	230	450	200	430	180	500	160	380	130	350	120	200
	6~9	Low-Alloyed Steel	-	-	220	420	180	380	150	350	170	450	140	320	130	280	70	200
	10~11	High-Alloyed Steel	-	-	-	-	60	200	90	180	60	300	60	130	70	110	-	-
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	-	-			-	-			-	-
	14	Austenitic Stainless Steel	-	-	-	-	-	-	-	-			-	-			-	-
K	15~16	Grey Cast Iron	300	450	250	420	120	300	-	-			-	-	-	-	-	-
	17~18	Nodular Cast Iron	120	350	120	300	120	280	-	-			-	-	-	-	-	-
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-			-	-	-	-	-	-
S	31~37	Superalloys & Titanium	-	-	-	-	-	-	-	-			-	-	-	-	-	-
H	38~41	Hard Materials	-	-	-	-	-	-	-	-			-	-	-	-	-	-

Turning

Cutting Speed			Vc (m/min.)													
ISO	VDI	Sub Group	YG2025		YG211		YG213		YG214		YG401		YT100		YG100		YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel			-	-	-	-	-	-	-	-	150	480	-	-	-	-
	6~9	Low-Alloyed Steel			-	-	-	-	-	-	-	-	160	480	-	-	-	-
	10~11	High-Alloyed Steel			-	-	-	-	-	-	-	-	70	180	-	-	-	-
M	12~13	Ferritic & Martensitic	170	220	170	270	120	180	100	150	-	-	150	280	-	-	-	-
	14	Austenitic Stainless Steel	150	200	150	230	40	160	100	150	-	-	130	260	-	-	-	-
K	15~16	Grey Cast Iron			-	-	-	-	-	-	-	-	130	450	-	-	-	-
	17~18	Nodular Cast Iron			-	-	-	-	-	-	-	-	100	400	-	-	-	-
N	21~30	Non-Ferrous Metals (Al)			-	-	-	-	-	-	-	-	-	-	250	1200	250	800
S	31~37	Superalloys & Titanium			30	100	30	70	30	50	30	90	-	-	-	-	-	-
H	38~41	Hard Materials			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Parting & Grooving

Cutting Speed			Vc (m/min.)			
ISO	VDI	Sub Group	YG602G (YG602)		YG603	
			Min	Max	Min	Max
P	1~5	Non-Alloyed Steel	120	180		
	6~9	Low-Alloyed Steel	100	140		
	10~11	High-Alloyed Steel	80	110		
M	12~13	Ferritic & Martensitic	70	160	50	90
	14	Austenitic Stainless Steel	55	140	40	80
K	15~16	Grey Cast Iron	110	185		
	17~18	Nodular Cast Iron	110	140		
N	21~30	Non-Ferrous Metals (Al)	250	440		
S	31~37	Superalloys & Titanium	25	45		
H	38~41	Hard Materials	25	50		

Technical Information

Recommended cutting conditions

Nanocut

YG812 GRADE			Cutting Speed		Feed per Revolution (Fn)	
ISO	VDI	Sub Group	Vc (m/min.) Min	Vc (m/min.) Max	Fn (mm/rev.) Min	Fn (mm/rev.) Max
P	1~5	Non-Alloyed Steel	170	200	0.015	0.025
P	6~9	Low-Alloyed Steel	95	160	0.015	0.025
P	10~11	High-Alloyed Steel	85	95	0.015	0.025
M	12~13	Ferritic & Martensitic	105	140	0.015	0.025
M	14	Austenitic Stainless Steel	95	130	0.015	0.025
K	15~16	Grey Cast Iron	140	190	0.015	0.025
K	17~18	Nodular Cast Iron	140	190	0.015	0.025
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-
S	31~37	Superalloys & Titanium	10	75	0.015	0.025
H	38~41	Hard Materials	-	-	-	-

Milling

Cutting Speed			YG012		YG712		YG713		YG622		YG612		YG602		YG613		YG501(G)		YG5020		YG50	
ISO	VDI	Sub Group	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel	180	280	170	300	200	300	140	400	180	280	180	270	100	210	-	-	-	-	-	-
P	6~9	Low-Alloyed Steel	150	250	180	250	170	270	120	320	150	250	150	240	70	180	-	-	-	-	-	-
P	10~11	High-Alloyed Steel	80	150	100	140	85	145	70	170	70	140	70	130	40	90	-	-	-	-	-	-
M	12~13	Ferritic & Martensitic			-	-	-	-	-	-	120	200	120	180	70	180	-	-	-	-	-	-
M	14	Austenitic Stainless Steel			-	-	-	-	-	-	130	250	30	230	70	200	-	-	-	-	-	-
K	15~16	Grey Cast Iron			-	-	-	-	120	270			120	250	-	-	160	300	200	350	-	-
K	17~18	Nodular Cast Iron			-	-	-	-	130	240			120	220	-	-	130	210	150	300	-	-
N	21~30	Non-Ferrous Metals (Al)			-	-	-	-	-	-			-	-	-	-	-	-	-	-	300	800
S	31~37	Superalloys & Titanium			-	-	-	-	-	-	25	45	5	45	-	-	-	-	-	-	-	-
H	38~41	Hard Materials	70	120	-	-	-	-	40	100					-	-			-	-	-	-

Drilling

Cutting Speed			Vc (m/min.)					
			YG602		YG713		YG613	
ISO	VDI	Sub Group	Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel	180	380	200	300	100	210
P	6~9	Low-Alloyed Steel	120	300	170	270	70	180
P	10~11	High-Alloyed Steel	70	150	85	145	40	90
M	12~13	Ferritic & Martensitic	120	200	-	-	70	180
M	14	Austenitic Stainless Steel	130	250	-	-	70	200
K	15~16	Grey Cast Iron	120	250	-	-	-	-
K	17~18	Nodular Cast Iron	130	220	-	-	-	-
H	38~41	Hard Materials	-	-	-	-	-	-

Technical Information

Material Groups

ISO	VDI 3323	Material Description	Composition / Structure / Heat Treatment		HB	HRc	Examples
P	1	Non-alloyed steel	About 0.15% C	Annealed	125		S15C, C15, 1015
	2		About 0.45% C	Annealed	190	13	S45C, C45, 1045
	3		About 0.45% C	Quenched & Tempered	250	25	
	4		About 0.75% C	Annealed	270	28	SK5, Ck75, 1080
	5		About 0.75% C	Quenched & Tempered	300	32	
	6	Low-alloyed Steel		Annealed	180	10	SCM440, 42CrMo4, 410
	7			Quenched & Tempered	275	29	
	8			Quenched & Tempered	300	32	
	9			Quenched & Tempered	350	38	
	10	High-alloyed steel, and tool steel		Annealed	200	15	SKD, D2
	11			Quenched & Tempered	325	35	SKH, SUH, M42
M	12	Stainless Steel	Ferritic / Martensitic	Annealed	200	15	SUS 420, X40Cr13, 420
	13		Martensitic	Quenched & Tempered	240	23	
	14		Austenitic		180	10	SUS 316, 316, X5CrNiMo 17 12 2
K	15	Grey cast iron	Pearlitic / Ferritic		180	10	FC, GG, EN-GJL-250
	16		Pearlitic (Martensitic)		260	26	
	17	Nodular cast iron	Ferritic		160	3	FCD, GGG, EN-GJS-500-7
	18		Pearlitic		250	25	
	19	Malleable cast iron	Ferritic		130		FCMW, FCMP, GTS, GJMB350-10
	20		Pearlitic		230	21	
N	21	Aluminum-wrought alloy	Not Curable		60		SAE 1000, AlMg 1, 3.3315
	22		Curable	Hardened	100		SAE 7050, AlCuMg 1, 3.1325
	23	Aluminum-cast, alloyed	≤ 12% Si, Not Curable		75		ADC12, G-AlSi12, 3.2581
	24		≤ 12% Si, Curable	Hardened	90		C4BS, G-AlSi10Mg, 3.2381
	25		> 12% Si, Not Curable		130		
	26	Copper and copper alloys (Bronze / Brass)	Cutting Alloys, PB>1%		110		CuZn36Pb 3, 2.0375
	27		CuZn, CuSnZn (Brass)		90		CuZn 15, 2.0240
	28		CuSn, lead-free copper and electrolytic copper		100		G-CuZn40Fe, 2.0590
	29	Non-metallic materials	Duroplastic, Fiber Reinforced Plastic				CFRP
	30		Rubber, Wood, etc.				
S	31	Heat resistant super alloys	Fe Based	Annealed	200	15	X12 NiCrSi 36-16, 1.4864
	32			Aged	280	30	
	33		Ni or Co Based	Annealed	250	25	Inconel 718, NiCr20TiAl, 2.4631
	34			Aged	350	38	NiCu30Al, 2.4375
	35			Cast	320	34	G-X120Mn12, 1.3401
	36	Titanium alloys	Pure Titanium		400 Rm		
	37		Alpha + Beta Alloys	Hardened	1050 Rm		TiAl6V4, 3.7165
H	38	Hardened steel		Hardened	550	55	SK3
	39			Hardened	630	60	
	40	Chilled cast iron		Cast	400	42	
	41	Hardened cast iron		Hardened	550	55	

Technical Information

Material Groups

P	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	1	Non-alloyed steel	About 0.15% C, Annealed	125	

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.0037	STKM 12 C	St 37-2	-	4360 40 B	S235JR	E24-2	1311	Fe 360 B			16D	
1.0038	STKM 12 A	St 37-3	A570.36	4360 40 C	S275J2G3	E28-3	1312	Fe 360 D FF			ST14KP	
1.0045	SM 490 YA	S 355 JR	-	-	S 1207	E36-2	-	Fe 510 BFN				
1.0050	SS 50	St 50-2	A570 Gr. 50	4360 50 B	E 295	A50-2	2172	Fe 490			ST5PS	
1.0060	SM 58	St 60-2	A572 Gr. 65	4360 55 E	-	A60-2	1650	Fe 60-2			ST6PS	
1.0114		S 235 J0	-	En 40C	S 235 J0	E24-3		Fe 360 CFN				
1.0143		S 275 J0	-	-	S 275 J0	E28-3	1414	Fe 430 C				
1.0144	SM41C, SM400	St 44-3 N	A573 Gr. 81	4360 43C	S 275 J2 G3	E28-3	1412	Fe 430 D FF			ST14KP	
1.0149		Ro St 44-2	-	43C	S 275 J0 H	-	1412	Fe430C				
1.0301	S10C	C10	1010	045M10	C10	34C10, XC10		C10	F.1511	G10100	10	
1.0330	SPCC	St 12	-	DC 01	Fe P01	DC 01/Fe P01	1142	Fe P01			15KP	
1.0335	SPHE	D D 13 (StW 24)	A622(1008)	H S 3	D D 13	3C		FeP13			08KP	
1.0338	SPCE	St 4	A620(1008)	14491CR	Fe P04	Fe 14	1147	DC04/FeP04			08JU	
1.0345	SPV 50	P235 GH	A516 Gr. 65	P 235 GH	P 235 GH	A 37 CP	1330	Fe E 235		K02503		
1.0401	S15C	C15	1015	080M15	-	C18RR, XC18	1350	C15, C16	F.1110	G10170	15	
1.0402	S20C	C22	1020	050 A 20	1 C 22	C20	1450	C 20	F.1120	G10200	20	
1.0425	SPV315	P265GH/HII				A42CP	1430	Fe4101KW		K02801	16K	
1.0443	SC 450	GS-45	A2765-35	A1		E23-45M	1305					
1.0539		S355NH				TSE355-4	2134	Fe510B				
1.0545		S355N		4360-50E		E355R	2334	FeE355KG				
1.0546		S355NL		4360-50EE		E355FP	2135	FeE355KT				
1.0547		S355J0H		4360-50C		TSE355-3	2172	Fe510C				
1.0549		S355NLH					2135	Fe510D				
1.0553	SM 520 M	St52-3U	A14880-40	4360-50C		320-560M	1606	Fe510C				
1.0562	SM490A	St E 355	A633 Gr. C	P 355 N		FeE355KGN	2132	Fe E 355 KG		K12000	15GF	
1.0565		W St E 355		P 355 NH		P 355 NH	2106	Fe E 355 KW		K01600		
1.0566	SLA 37	T St E 355		P 355 NL1		P 355 NL1	2107	Fe E 355 KT				
1.0570	SM 50 YA	St 52-3	1	4360-50 C	S355JR	E36-3	2172	Fe 510 B			17G1S	
1.0715	SUM22	9SMn28	1213	230M07		S250	1912	CFSMn28	F.2111	G12130		
1.0718	SUM22L	9SMnPb28	12L13			S250Pb	1914	CF9SMnPb28	F.2112	G12134		
1.0721		10S20	1108	10S20		10S20		CF10S20	F.2121	G11080		
1.0722		10SPb20	11L08			10PbF2		CF10SPb20		G11084		
1.0736	SUM25	9SMn36	1215			S300		CF9Mn36	F.2113	G12150		
1.0737		9SMnPb36	12L14			S300Pb	1926	CF9SMnPb36	F.2114	G12144		
1.0972		S315MC		1501-40F30		E315D						
1.0976		S355MC		1501-43F35		E355D	2642	FeE355TM				
1.0982		S460MC		1501-50F45								
1.0984		S500MC				E490D	2662	FeE490TM				
1.0986		S500MC		1501-60F55		E560D		FeE560TM				
1.1121	S10C	Ck10	1010	040A10		XC10	1265	C10	F.1510	G10100	10	
1.1141	S15	Ck15	1015	040A15	32C	XC15	1370	C15	F.1110	G10150	15	
1.1151	S20C	C22E	1020	055M15		2C22	1450	C20	F.1120	G10230	20	
1.8900	S25C	StE380	A572-60	436055E			2145	FeE390KG				
		St44-2	A36	436043A		NFA35-501E28	1411					
		StE320-3Z		1501160			1421					

Technical Information
Material Groups

P | VDI 3323: 2 | Material Description: Non-alloyed steel | Composition / Structure / Heat Treatment: About 0.45% C, Annealed | HB: 190 | HRc: 13

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.0501	S35C	C35	1035	080A32		1C35	1572	C35	F.113	G10350	35	
1.0503	S45C	C45	1045	060A47		XC42H1TS	1672	C45	F.114	G10450	45	
1.0511	S40C	C40	1040	080M40		1C40		C40	F.114.A	G10400	40	
1.0540	S 50 C	C50					1674	C50		G10500		
1.0551		GS-52	A2770-36	A2		280-480M	1505					
1.0553	SM 520 M	St52-3U	A14880-40	4360-50C		320-560M	1606	Fe510C				
1.0577		S 355 J 2 G 4	A738	Fe 510 D 2 FF		A52FP	2107					
1.0726		35S20	1140	212M36	8M	35MF6	1957			G11400	40	
1.0727		45S20	1146			45MF4	1973			G11460		
1.1157		40Mn4	1039	150M36	15	40M5				G10390	40G	
1.1158	S25C	C25E	1025	070M25		XC25		C25	F.1120	G10250	25	
1.1166	SMn433H	34Mn5	1536						TO.B	G15360		
1.1167	SMn438(H)	36Mn5	1335	150M36		40M5	2120	36Mn6	F.1203	G13350	35G2	
1.1170	SCMn1	28Mn6	1330	150M28	14A	20M5		C28Mn	28Mn6	G13300	30G	
1.1178	S 30 C	C30E		080M30		XC32		C30	2C30	G10300		
1.1180		C35R	1035	080A35		3C35	1572		F.1135	G10350		
1.1181	S35C	C35E	1035	080A35		XC38	1572	C36	F.1130	G10340	35	
1.1191	S45C	Ck45	1045	080A46		XC45	1672	C45	F.1140		45	
1.1206	S 50 C	C50E	1050	080M50		2C50	1674	C50		G10500	50	
1.1213	S50C	Cf53	1050	070M55		XC48HTS	1674	C53		G10500	50	

P | VDI 3323: 3 | Material Description: Non-alloyed steel | Composition / Structure / Heat Treatment: About 0.45% C, Annealed | HB: 250 | HRc: 25

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.0481	SG365	17 Mn 4/P 295 GH	A516 Gr. 70	224-460B	P 295 GH	A 48 CP	2102	Fe E 295	A47RCI	K03501	14G2	
1.0501	S35C	C35	1035	080A32		1C35	1572	C35	F.1130	G10350	35	
1.0503	S45C	C45	1045	060A47		XC42H1TS	1672	C45	F.1140	G10450	45	
1.0614		C76D	1074			XC75				G10750		
1.0616		C86D	1086			XC80		C85		G10860		
1.0618		C92D	1095			XC90				G10950		
1.0726		35S20	1140	212M36	8M	35MF6	1957			G11400	40	
1.1157		40Mn4	1039	150M36	15	40M5				G10390	40G	
1.1165	SMn433H	30Mn5	1036	120M36		35M5		30Mn5	F.8211	K13300	30G2	
1.1167	SMn438(H)	36Mn5	1335	150M36		40M5	2120	36Mn6	F.1203	G13350	35G2	
1.1186	S40C	C40E	1040	060A40		2C40		C40		G10400		
1.1191	S45C	Ck45	1045	080M46		2C45	1672	C45	F.1140		45	
1.1201	S50C	C45R	1049	080M46		3C45	1660	C45	F.1145		38HM	
1.1213	S50C	Cf53	1050	070M55		XC48HTS	1674	C53		G10500	50	
1.7242	SCM 418 H	18CrMo4										
1.7337		16CrMo4-4	A387 Gr.12					A18CrMo45KW		K11564	15C M	
1.7362	SCMV 6	12CrMo195		3606-625		Z10CD5-05		16CrMo205		K41545		
		17MnV6	A572-60	436055E		NFA35-501E36	2142					

Technical Information

Material Groups

P	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	4	Non-alloyed steel	About 0.75% C, Annealed	270	28

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.0603	S 70 C -CSP	C67	107	080A67		XC65		C67		G10700		
1.0605		C75	1075	144980HS				C75		G10740	75	
1.1203	S55C	Ck55	1055	060A57		2C55	1655	C55	F.1150	G10550	55	
1.1209		C55R	1055	070M55		3C55		C55	F.1155	G10550		
1.1221	S58C	Ck60	1060	060A62	43D	2C60	1678	C60	F.1150	G10640	60	
1.1231	S 70 C-CSP	C67E	1070	060A67		XC68	1770	C70	F.5103	G10700	65GA	
1.1248	C 75	C75E	1074	060A78		XC75	1774	C75	F.5107	G10800	75(A)	
1.1269	SK 5 -CSP	C85E	1086			XC90		C90		G10900	85(A)	
1.1274	SUP4	Ck 101	1095	060 A 96	C 100S	XC100	1870	C100	F.5117	G10950		
1.1545	SK 3	C 105 W1	W1	BW 2	C 105U	Y1 105	1880	C 100 KU	F.5118		U10A	
1.1663	SK 2	C125W	W112			Y2120					U13	

P	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	5	Non-alloyed steel	About 0.75% C, Quenched & Tempered	300	32

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.0070		St 70-2	1055	Fe690-2FN	-	A70-2	1655	Fe 690	F.1150		55	
1.0535	S55C	C55	1055	070M55		1C55	1655	C55		J05000	55	
1.0601	S58C	C60	1060	060A62	43D	1C60		C60		G10600	60(G)	
1.1203	S55C	Ck55	1055	060A57		2C55	1655	C55	F.1150	G10550	55	
1.1221	S58C	Ck60	1060	060A62	43D	2C60	1678	C60	F.1150	G10640	60	
1.1274	SUP4	Ck 101	1095	060 A 96	C 100S	XC100	1870	C100	F.5117	G10950		
1.1545	SK 3	C 105 W1	W1	BW 2	C 105U	Y1 105	1880	C 100 KU	F.5118		U10A	
1.1663	SK 2	C125W	W112			Y2120					U13	
1.5120		38MnSi4										
1.5710	SNC236	36NiCr6	3135	640A35	111A	35NC6						
1.7701		51CrMoV4						51CrMoV4				

Technical Information

Material Groups

P	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	6	Low-alloyed Steel	Annealed	180	10

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.0116		St 37-3	A570 Gr. 36	4360-40C	S 235 J2 G3	E24-3	1312	Fe 360 D1(2)	AE235D		ST3KP	
1.0904	SKH 1, SKT 4	55Si7	9255	250A53	45	55S7	2085	55Si8	56Si7	G92550	55S2	
1.0961	SUP 7	60SiCr7	9262			60SC6		60SiCr8	60SiCr8	G92620		
1.2067		100Cr6	L3	BL3		Y100C6			100Cr6			
1.2108		90CrSi5	L1				2092	105WCR5				
1.2210		115CrV3	L2			100C3		107CrV3KU	F.520L		11KHF	
1.2241		51CrV4										
1.2330	SCM435TK	35CrMo4	4135	708A37		34CD4	2234	35CrMo4			35KHM	
1.2419	SKS31	105WCr6		105WC13		105WC13	2140	10WCr6			C WG	
1.2510	SKS3	100MnCrW4	O1	BO1		90 MWCV 5	2140	95 MnWCr 5 KU	F.5220		9KHVG	
1.2542		45WCrV7	S1	BS1			2710	45WCrV8KU			5C W25F	
1.2550		60WCrV7	S1			55WC20	2710	58WCr9KU			5KHV2SF	
1.2713	SKT4	55NiCrMoV6	L6			55NCDV7			F.520S		5C NM	
1.2721		50NiCr13	L6			55NCV6	2550		F.528			
1.2842		90MnCrV8	O2	BO2		90MV8				T31502	9G2F	
1.3501		100Cr2	E50100									
1.3505	SUJ2	100Cr6	52100	2S135	31	100C6	2258	100Cr6	F.1310		SC C 15	
1.5024		46Si7				45S7		46SI7	F.1451			
1.5025		51Si7	9259H		50Si7	51S7	2090	50Si7	F.1450			
1.5026		55Si7			56Si7	55S7	2085	55Si7	F.1440	G92550	55S2	
1.5027		60Si7	9260	251A60	60Si7	60S7		60Si7	F.1441	G92600	60S2	
1.5028	SUP7	65Si7	9260H									
1.5415	STFA 12	15Mo3	A204Gr.A	1503-243B		15D3	2912	16Mo3(KG)	F.2601	K11820		
1.5419	SCPH11	20Mo4	4419	1503-243-430			2512	G20Mo5		G44190		
1.5423	SB450M	16Mo5	4520	1503-245-420				16Mo5(KG)	F.2602	K11522		
1.5622		14Ni6	A350-LF5			16N6		14Ni6(KG)	F.2641			
1.5732	SNC415(H)	14NiICr10	3415			14NC11		16NiCr11				
1.5752	SNC815(H)	14NiCr14	3310	655M13	36A	12NC15					20X2H4A	
1.6511	SUP10	36CrNiMo4	9840	816M40	110	40NCD3		36NiCrMo4(KB)			40C N2MA	
1.6523	SNCM220(H)	21NiCrMo2	8620	805M20	362	20NCD2	2506	20NiCrMo2			20C GNM	
1.6546	SNCM240	40NiCrMo2-2	8740	311-Tyre7				40NiCrMo2(KB)			38C GNM	
1.6566		17NiCrMo6-4										
1.6587		17CrNiMo6		820A16		18NCD6		14NiCrMo13				
1.6657		10NiCrMo13-4						14NiCrMo131				
1.7015	SCr415(H)	10Cr3	5015	523M15		12C3				G50150	15C	
1.7033	SCr430(H)	34Cr4	5132	530A32	18B	32C4		34Cr4(KB)		G51300	35C	
1.7035	SCr440(H)	41Cr4	5140	530M40	18	42C4	2245	41Cr4		G51400	40H	
1.7131	SCR 415	16MnCr5	5115	527M17		16MC5	2511	16MnCr5		G51150	12KHN2	
1.7139		16MnCrS5					2127				18HG	
1.7176	SUP9(A)	55Cr3	5155	527A60	48	55C3	2253	55Cr3			50C GA	
1.7218	SCM420	25CrMo4	4130	CDS110		25CD4	2225	25CrMo4(KB)			20C M	
1.7220	SCM432	34CrMo4	4135	708 A 37		35CD4	2234	34CrMo4			35C M	
1.7223	SNB22-1	41CrMo4	4142					41CrMo4			40C FA	
1.7225	SCM 440 (H)	42CrMo4	4140	708 M 40	42 CrMo 4	42 CD 4	2244	42 CrMo 4	F.1252		38HM	
1.7228		55NiCrMoV6G		823M30	33		2512	653M31				
1.7262	SCM415(H)	15CrMo5				12CD4	2216	12CrMo4				
1.7321		20mOcR4					2625					
1.7335	SCM415(H)	13CrMo4-4	A182-F11	1501-620		15CD4-5	2216	14CrMo45			12C M	
1.7361		32CrMo12		722M24	40B	30CD12	2240	30CrMo12	F.124A			
1.7380		10CrMo9-10	A182F22	1501-622		12CD9-10	2218	12CrMo9			12KH8	

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Material Groups

P	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	6	Low-alloyed Steel	Annealed	180	10

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.7715		14MoV6-3		1503-660-440				13MoCrV6				
1.8159	SUP 10	50CrV4	6150	735A50	47	50CrV4	2230	50CrV4		G61500	50C GFA	
1.8161		58CrV4										
1.8509	SACM 645	41CrAlMo7	A355A	905M39	41B	40CAD6-12	2940	41CrAlMo7				
1.8523		39CrMoV13-9		897M39	40C			36CrMoV12				

P	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	7	Low-alloyed Steel	Quenched & Tempered	275	29

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.5415	STFA 12	15Mo3	A204Gr.A	1503-243B		15D3	2912	16Mo3(KG)	F.2601	K11820		
1.5423	SB450M	16Mo5	4520	1503-245-420				16Mo5(KG)	F.2602	K11522		
1.5622		14Ni6	A350-LF5			16N6		14Ni6(KG)	F.2641			
1.5732	SNC415(H)	14NilCr10	3415			14NC11		16NiCr11				
1.5752	SNC815(H)	14NiCr14	3310	655M13	36A	12NC15					20X2H4A	
1.5755	SNC236	31NiCr14		653M31		18NC13	2534		F.1270			
1.6565	SNCM447	40NiCrMo6	4340	817M40	24	35NCD6	2541	35NiCrMo6(KB)			38C 2N2MA	
1.6587		17CrNiMo6		820A16		18NCD6		14NiCrMo13				
1.6657		10NiCrMo13-4						14NiCrMo131				
1.6957		26NiCrMoV14-5										
1.7015	SCr415(H)	10Cr3	5015	523M15		12C3				G50150	15C	
1.7262	SCM415(H)	15CrMo5				12CD4	2216	12CrMo4				
1.7335	SCM415(H)	13CrMo4-4	A182-F11	1501-620		15CD4-5	2216	14CrMo45			12C M	
1.7380		10CrMo9-10	A182F22	1501-622		12CD9-10	2218	12CrMo9			12KH8	
1.7715		14MoV6-3		1503-660-440				13MoCrV6				
1.7733		24CrMoV55				20CDV6		21CrMoV511				
1.7755		GS-45CrMoV10-4										
1.8070		21CrMoV511						35NiCr9				

P	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	8	Low-alloyed Steel	Quenched & tempered	300	32

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.1730		C45W3	C45W			XC48						
1.2332	SCM(440)	47CrMo4	4142	708M40	19A	42CD4	2244	42CrMo4				
1.5736	SNC 631 (H)	36NiCr10	3435			30NC11						
1.6523	SNCM220(H)	21NiCrMo2	8620	805M20	362	20NCD2	2506	20NiCrMo2			20C GNM	
1.7033	SCr430(H)	34Cr4	5132	530A32	18B	32C4		34Cr4(KB)		G51300	35C	
1.7218	SCM420	25CrMo4	4130	CDS110		25CD4	2225	25CrMo4(KB)			20C M	
1.8515		32CrMo12		722M24	40B	30CD12	2240	32CrMo12	F.124A			

Technical Information

Material Groups

P | VDI 3323: **9** | Material Description: Low-alloyed Steel | Composition / Structure / Heat Treatment: Quenched & Tempered | HB: 350 | HRc: 38

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.0904	SKH 1, SKT 4	55Si7	9255	250A53	45	55S7	2085	55Si8		G92550	55S2	
1.0961	SUP 7	60SiCr7	9262			60SC6		60SiCr8		G92620		
1.2067		100Cr6	L3	BL3		Y100C6		100Cr6				
1.2419	SKS31	105WCr6		105WC13		105WC13	2140	10WCr6			CWG	
1.2542		45WCrV7	S1	BS1			2710	45WCrV8KU			5C W25F	
1.2713	SKT4	55NiCrMoV6	L6			55NCDV7			F.520S		5C NM	
1.4882		X50CrMnNiNbN219				Z50CMNNb21-09						
1.5120		38MnSi4										
1.5710	SNC236	36NiCr6	3135	640A35	111A	35NC6						
1.5755	SNC236	31NiCr14		830m31		18NC13	2534		F.1270			
1.6511	SUP10	36CrNiMo4	9840	816M40	110	40NCD3		36NiCrMo4(KB)			40C N2MA	
1.6546	SNCM240	40NiCrMo2-2	8740	311-Tyre7				40NiCrMo2(KB)			38C GNM	
1.7035	SCr440(H)	41Cr4	5140	530M40	18	42C4	2245	41Cr4		G51400	40H	
1.7176	SUP9(A)	55Cr3	5155	527A60	48	55C3	2253	55Cr3			50C GA	
1.7220	SCM432	34CrMo4	4135	708Aa37		35CD4	2234	34CrMo4			35C M	
1.7223	SNB22-1	41CrMo4	4142					41CrMo4			40C FA	
1.7225	SCM 440 (H)	42CrMo4	4140	708 M 40	42 CrMo 4	42 CD 4	2244	42 CrMo 4	F.1252		38HM	
1.7361		32CrMo12		722M24	40B	30CD12	2240	30CrMo12	F.124A			
1.8159	SUP 10	50CrV4	6150	735A50	47	50CrV4	2230	50CrV4	51CrV4	G61500	50C GFA	
1.8161		58CrV4										
1.8509	SACM 645	41CrAlMo7	A355A	905M39	41B	40CAD6-12	2940	41CrAlMo7				
1.8523		39CrMoV13-9		897M39	40C			36CrMoV12				

P | VDI 3323: **10** | Material Description: High-alloyed steel, and tool steel | Composition / Structure / Heat Treatment: Annealed | HB: 200 | HRc: 15

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.0347	SPCD	RR St 3	A619	CR 3	Fe P03	F 13		DC03/FeP03			08JU	
1.0723	SUM32	15S22		210A15			1922		F.210F			
1.2080	SKD1	X210Cr12	D3	BD3	X210Cr12	Z200C12		X205Cr12KU		T30403	KH12	
1.2162	SCR 420 H	21MnCr5				20MC5						
1.2311		40CrMnMo7				40CMD8		35cRmO8KU				
1.2312		40CrMnMoS8.6	P20+S			40CMD8S						
1.2316		X36CrMo17			X38CrMo16							
1.2343	SKD 6	X38CrMoV5-1	H11	BH11		Z38CDV5		X37CrMoV51KU		T20811	4C 5MFS	
1.2344	SKD61	X40CrMoV5-1	H13	BH13		Z40CDV5	2242	X40CrMoV511KU	F.5318	T20813	4C 5MF1S	
1.2363	SKD12	X100CrMoV5-1	A2	BA2		Z100CDV5	2260	X100CrMoV51KU	F.5227		9KH5VF	
1.2379	SKD11	X155CrVMo121	D2	BD2		Z160CDV12	2310	X165CrMoW12KU		T30402	KH12MF	KRUPP2379
1.2436	SKD 2	X210CrW12	D4(D6)	BD6		Z200CD12	2312	X215CrW121KU	F.5213		KH12	

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Material Groups

P	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	10	High-alloyed steel, and tool steel	Annealed	200	15

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.2510	SKS3	100MnCrW4	O1	BO1		90 MWCV 5	2140	95 MnWCr 5 KU	F.5220		9KHVG	
1.2581	SKD5	X30WCrV9-3	H21	BH21		Z30WCV9		X30WCrV93KU	F.526	T20821	3C 2W8F	
1.2601		X165CrMoV12					2310	X160CrMoV12			KH12MF	
1.2606	SKD 62	X37CrMoW51	H12	BH12		Z35CWDV5		X35CrMoW05KU	F.537	T20812	5C NM	
1.2764		X19NiCrMo4										
1.2767		X45NiCrMo4				45NCD16		40NiCrMoV8KU				
1.2842		90MnCrV8	O2	B02		90MV8		90MnVCr8KU		T31502	9G2F	
1.3243	SKH55	S6-5-2-5	T15			KCV06-05-05-04-02	2723	HS6-5-2-5			R6M5K5	
1.3249	SKH 3	S18-1-2-5	T4	BT4		Z80WKCV18-05-04					R18K5F2	
1.3343	SKH51, SKH9	S6-5-2	M2	BM2		Z85WDCV	2722	HS652	F.5604		R6M5	
1.3348	SKH 58	S2-9-2	M7			Z100DCWV09-04-02	2782	HS292	F.5607			
1.3355	SKH 2	S18-0-1	T1	BT1		Z80WCV18-4-01					R18	
1.4718	SUH1	X45CrSi9-3	HNV3	401S45	52	Z45CS9		X45CrSi8	F.322		40C 9S2	
1.5662	SL9N60(53)	X8Ni9	ASMA353	502-650		9Ni		X10Ni9	F.2645			
1.5680		12Ni19	2515	12Ni19		Z18N5						

P	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	11	High-alloyed steel, and tool steel	Quenched & Tempered	325	35

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.2080	SKD1	X210Cr12	D3	BD3	X210Cr12	Z200C12		X205Cr12KU		T30403	KH12	
1.2344	SKD61	X40CrMoV5-1	H13	BH13		Z40CDV5	2242	X40CrMoV511KU	F.5318	T20813	4C 5MF1S	
1.2363	SKD12	X100CrMoV5-1	A2	BA2		Z100CDV5	2260	X100CrMoV51KU	F.5227		9KH5VF	
1.2436	SKD 2	X210CrW12	D4(D6)	BD6		Z200CD12	2312	X215CrW121KU	F.5213		KH12	
1.2581	SKD5	X30WCrV9-3	H21	BH21		Z30WCV9		X30WCrV93KU	F.526	T20821	3C 2W8F	
1.2601		X165CrMoV12					2310	X160CrMoV12			KH12MF	
1.2714	SKT 4	55NiCrMoV7	6F3/L6			55NiCrMoV7			F.520S		5KHNV	
1.3202		S12-1-4-5		BT15				HS12-1-5-5				
1.3207		S10-4-3-10		BT42		Z130WKCDV						
1.3243	SKH55	S6-5-2-5	T15			KCV06-05-05-04-02	2723	HS6-5-2-5			R6M5K5	
1.3246		S7-4-2-5	M35			Z110WKCDV07-05-04		HS7-4-2-5				
1.3247	SKH 51	S2-10-1-8	M42	BM42		Z110DKCWV09-08-04		HS2-9-1-8			R2AM9K5	
1.3255	SKH 3	S18-1-2-5	T4	BT4		Z80WKCV18-05-04					R18K5F2	
1.3343	SKH51, SKH9	S6-5-2	M2	BM2		Z85WDCV	2722	HS652	F.5604		R6M5	
1.3348	SKH 58	S2-9-2	M7			Z100DCWV09-04-02	2782	HS292	F.5607			
1.3355	SKH 2	S18-0-1	T1	BT1		Z80WCV18-4-01					R18	
1.4718	SUH1	X45CrSi9-3	HNV3	401S45	52	Z45CS9		X45CrSi8	F.322		40C 9S2	
1.4935	SUH 616	X20CrMoWV121	422							S42200		
1.5680		12Ni19	2515	12Ni19		Z18N5						

Technical Information

Material Groups

M | VDI 3323: 12 | Material Description: Stainless steel | Composition / Structure / Heat Treatment: Ferritic / Martensitic, Annealed | HB: 200 | HRc: 15

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.4000	SUS403	X6Cr13	403	403S17		Z6C13	2301	X6Cr13	F.3110	S40300	08C 13	ATI 410S
1.4001		X7Cr14	410 S	403S7		Z8C13	2301		F.8401		08C 13	
1.4002	SUS 405	X6CrAl13	405	405S17		Z6CA13	2302	X6CrAl13		S40500		
1.4005	SUS416	X12CrS13	416	416S21		Z11CF13	2380	X12CrSC13	F.3411	S41600		ATI 416
1.4006	SUS410	X12Cr13	410	410S21	56A	Z10C13	2302	X12Cr13	F.3401	S41000	12C 13	ATI 410
1.4016	SUS430	X6Cr17	430	430S15	X8Cr17	Z8C17	2320	X8Cr17	F3113	S43000	12C 17	ATI 430
1.4027	SCS 2	GX20Cr14		420C29		Z20C13M					20C 13L	
1.4028	SUS420J2	X30Cr13	420	420S45		Z30C13	2304			S42020	20C 13	
1.4034	SUS420J2	X46Cr13		420S45		Z40C14		X40Cr14	F.3405			
1.4057	SUS431	X19CrNi17-2	431	431S29	57	Z15CN16-02	2321	X16CrNi16	F.3427	S43100	20C 17N2	431 (HT)
1.4086		GX120Cr29		452C11								
1.4104	SUS430F	X12CrMoS17	430F	420S37		Z10CF17	2383	X10CrS17	F.3117	S43020		
1.4112	SUS 440 B	X90CrMoV18	440B							S44003	95KH18	
1.4113	SUS434	X6CrMo17	434	434S17		Z8CD17-01	2325	X8CrMo17		S43400		AL 434
1.4313	SCS5	X3CrNi13-4	CA6-NM	425C11		Z4CND13-04M	2385	(G)X6CrNi304		J91540		
1.4340		GX40CrNi274								J92615		
1.4417		X2CrNiM0Si195	S31500				2376			S39215		
1.4418		X4CrNiMo165				Z6CND16-04-01	2387					APX4
1.4510	SUS430LX	X6CrTi17	XM8			Z4CT17		X6CrTi17	F.3115	S43035	08C 17T	430 Ti
1.4511	SUS430LK	X6CrNb17				Z4CNb17		X6CrNb17	F.3122			AXC525
1.4512	SUH409	X6CrTi12	409	LW19		Z3CT12		X6CrTi12		S40900		
1.4720		X20CrMo13										
1.4724	SUS 405	X10CrA113	405	403S17		Z10C13		X10CrA112	F.311		10C 13SJU	
1.4742	SUS430	X10CrA118	430	439S15	60	Z10CAS18		X8Cr17	F.3113	S43000	15C 13SJU	
1.4747	SUH4	X80CrNiSi20	HNV6	443S65	59	Z80CSN20-02		X80CrSiNi20	F.320B	S65006		
1.4749		X18CrN28	446								15KH28	
1.4762	SUH446	X10CrA124	446			Z10CAS24	2322	X16Cr26		S44600		
1.4871	SUH35,SUH36	X53CrMnNiN21-9	EV8	349S54		Z52CMN21-09		X53CrMnNiN219		S63008	55C 20G9AN4	
		X10CrNi15	429									
		X12CrNi18-9	302	302S31		Z10CN18-09	2330					

M | VDI 3323: 13 | Material Description: Stainless steel | Composition / Structure / Heat Treatment: Martensitic, Quenched & Tempered | HB: 240 | HRc: 23

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.4000	SUS403	X6Cr13	403	403S17		Z6C13	2301	X6Cr13	F.3110	S40300	08C 13	ATI 410S
1.4001		X7Cr14	410 S	403S7		Z8C13	2301		F.8401		08C 13	
1.4006	SUS410	X12Cr13	410	410S21	56A	Z10C13	2302	X12Cr13	F.3401	S41000	12C 13	ATI 410
1.4016	SUS430	X6Cr17	430	430S15	X8Cr17	Z8C17	2320	X8Cr17	F.3113	S43000	12C 17	ATI 430
1.4021	SUS 420J1	X20Cr13	420	420S37		Z20C13	2303	14210	F.5261	S42000	20C 13	ATI 420
1.4027	SCS 2	GX20Cr14		420C29		Z20C13M					20C 13L	
1.4031	SUS 420 J2	X40Cr13	420			Z40C14	-2304		F.3404	S42080	40C 13	
1.4034	SUS420J2	X46Cr13		420S45		Z40C14		X40Cr14	F.3405			
1.4057	SUS431	X19CrNi17-2	431	431S29	57	Z15CN16-02	2321	X16CrNi16	F.3427	S43100	20C 17N2	431 (HT)
1.4104	SUS430F	X12CrMoS17	430F	420S37		Z10CF17	2383	X10CrS17	F.3117	S43020		
1.4113	SUS434	X6CrMo17	434	434S17		Z8CD17-01	2325	X8CrMo17		S43400		AL 434
1.4313	SCS5	X3CrNi13-4	CA6-NM	425C11		Z4CND13-04M	2385	(G)X6CrNi304		J91540		
1.4544		A 700	321	S.524		Z 10 CNT 18 11		X6CrNiTi1811		J92630	08C 18N12T	
1.4546		X5CrNiNb18-10	348	347S31				X6CrNiNb1811		J92640		ATI 348
1.4871	SUH35,SUH36	X53CrMnNiN21-9	EV8	349S54		Z52CMN21-09		X53CrMnNiN219		S63008	55C 20G9AN4	
1.4922		X20cRmV12-1					2317	x20cRmOnl1201				
1.4923		X22CrMoV121										Jethete X20

Technical Information

Material Groups

M	VDI 3323 14	Material Description	Composition / Structure / Heat Treatment	HB	HRc
		Stainless steel	Austenitic	180	10

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.4301	SUS 304	X5CrNi18-10	304	304S15		Z5CN18-09	2332		F.3551	S30409	08C 18N10	
1.4305	SUS303	X10CrNiS18-10	303	303S21	58M	Z8CNF18-09	2346	X10CrNiS18.09	F.3508	S30300	30C 18N11	ATI 303
1.4306	SCS19	X2CrNi1911	304L	304C12	X3CrNi1810KD	Z2CN18-09	2352	GX2CrNi1910	F.3503	S30403	03KH18N11	ATI 304L
1.4308	SUS304L	GX6CrNi18-9	CF-8	304C15	58E	Z6CN18-10M	2333					CF-8
1.4310	SUS 301	X10CrNi18-8	301	301S21		Z12CN17-07	2331	X2CrNi1807	F.3517	S30100	07KH16N6	ATI 301
1.4311	SUS304LN	X2CrNiN18 10	304LN	304S62		Z2CN18-10	2371	X2CrNiN1810	F.3541	S30453	03KH18N11	
1.4312	SCS12	GX10CrNi188	305	302C25		Z10CN18-9M					10C 18N9L	ATI 305
1.4350	SUS304	X5CrNi18-9	304	304S15	58E	Z6CN18-09	2332	X5CrNi1810	F.3551	S30400		ATI 304
1.4362		X2CrNiN234	S32304			Z2CN23-04AZ	2327			S32304		ATI 2304TM
1.4371		X3CrMnNiN18887	202	284S16		Z8CMN18-08-05						
1.4401	SUS316	X5CrNiMo17-12-2	316	316S13		Z3CND17-11-01	2347	X5CrNiMo17 12 2	F.3534	S31600	08KH17H13M2T	ATI 316
1.4404	SUS316L	X2CrNiMo17-13-2	316L	316S11		Z2CND17-12	2348	X2CrNiMo1712	F.3533	S31603		ATI 316L
1.4406	SUS316LN	X2CrNiMoN17122	316LN	316S61		Z2CND17-12AZ		X2CrNiMoN1712	F.3542	S31653	07C 18N	ATI 316LN
1.4408	SCS14	GX6CrNiMo18-10	CF-8M	316C16			2343	X7CrNiMo2010	F.8414	J92900	10G2S2MSL	
1.4410	SCS 14 A	GX10CrNiMo18-9				Z5CND20-12M	2328			S32750		
1.4429	SUS316LN	X2CrNiMoN17-13-3	316Ln	316S62		Z2CND17-13AZ	2375	X2CrNiMoN17133	F.3543		03KH16N15M3	
1.4435	SUS316L	X2CrNiMo18143	316L	316S11		Z3CND17-12-03	2375	X2CrNiMo17 13 2	F.3533	S31603	O3C 17N14M3	
1.4436	SUS316	X3CrNiMo17-13-3	316	316S19		Z6CND18-12-03	2343	X5CrNiMo17 12 2	F.3543	S31600		
1.4438	SUS317L	X2CrNiMo18164	317L	317S12		Z2CND19-15-04	2367	X2CrNiMo18 16 4	F.3539	S31703		ATI 317L
1.4439		X2CrNiMoN17135	(s31726)			Z3CND18-14-06AZ						
1.4440		X2CrNiMo18-16										
1.4449	SUS317	X5CrNiMo17133	317	317S16				X5CrNiMo1815		S31700		ATI 317
1.4460	SUS 329 J1	X8CrNiMo275	329				2324			S32900		10RE51
1.4462	SUS329J3L	X2CrNiMoN2253		318S13		Z3CND22-05Az	2377			S31803		ATI 2205TM
1.4500		X7NiCrMoCuNb2520				23NCDU25-20M				J95150		
1.4521	SUS444	X2CrMoTi18-2	443444				2326	X2CrMoTiNb18 2	F.3123			
1.4539		X1NiCrMoCuN25205				Z2NCDU25-20	2562			N08904		ATI 904L
1.4541	SUS321	X14CrNiTi18-10	321	321S31		Z6CNT18-10	2337	X6CrNiTi18 11	F.3523	S32100	06C 18N10T	ATI 321
1.4542	SUS630	X5CrNiCuNb174	630			Z7CNU15-05						UGIMA 4542
1.4545		Z7CNU15.05	15-5PH							S15500		ATI 15-5
1.4547		X1CrNiMoN20187	S31254				2378			S31254		Uranus B25 6Mo
1.4550	SUS347	X6CrNiNb18-10	347	347S17	58F	Z6CNNb18-10	2338	X6CrNiNb18 11	F.3552	S34700	08C 18N12B	ATI 347
1.4552	SCS 21	GX7CrNiNb18-9				Z4CNNb19-10M				J92710		
1.4568	SUS 631	X 7 CrNiAl 17 7		316S111		Z 9 CAN 17-7	2388	Z8CNA17-07		S17700	09C 17NJU1	17-7PH
1.4571	SUS 316Ti	X6CrNiMoTi17-12-2	316Ti	320S31	58J	Z6NDT17-12	2350	X6CrNiMoTi17 12	F.3535		10C 17N13M2T	ATI 316Ti
1.4581	SCS 22	GX5CrNiMoNb18		318C17		Z4CNDNb18-12M						
1.4583		X6CrNiMoNB18-12	318	303S21		Z15CNS20-12		X15CrNiSi2 12				
1.4585		GX7CrNiMoCuNb1818						X6CrNiMoTi17 12		J94651		
1.4821		X20CrNiSi254				Z20CNS25-04				S44635		
1.4823		GX40CrNiSi274								J92605		
1.4828	SCS17	X15CrNiSi20-12	309	309S24	58C	Z15CNS20-12			F.8414	S30900	20C 20N14S2	ATI 309
1.4833	SUS 309 S	X6CrNi2213	309S	309S13		Z15CN24-13				J93400		
1.4845	SUH310	X12CrNi25-21	310S	310S24		Z12CN25-20	2361	X6CrNi2520	F.331	S31008	20C 23N18	ATI 310S
1.4878	SUS321	X12CrNiTi18-9	321	321S20	58B	Z6CNT18-12(B)	2337	X6CrNiTi1811	F.3553	S32100		ACX315
1.4891		X5CrNiNb18-10	Ss30415				2372					
1.4893		X8CrNiNb11	S30815				2368					
1.4948		X6CrNi1811	304H	304S51		Z5CN18-09	2333			S30480		
1.4980		X5NiCrTi2515	660				2570			S66286		Incoloy A 286
		X5NiCrN3525										
		X2CrNiMoN18134	S31753									
		X2CrNiMoN25227										

Technical Information

Material Groups

K | VDI 3323: **15** | Material Description: Grey cast iron | Composition / Structure / Heat Treatment: Pearlitic / Ferritic | HB: 180 | HRc: 10

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
0.6010	FC100	GG10	A48 20 B	Grade 100	GJL-100	Ft 10 D	0100	G10	FG10		Sc 10	
0.6015	FC150	GG15	A48 25 B	Grade 150	GJL-150	Ft 15 D	0115	G15	FG15		Sc 15	
0.6020	FC200	GG20	A48 30 B	Grade 220	GJL-200	Ft 20 D	0120	G20	FG20	W06020	Sc 20	
0.6025	FC250	GG25	A48 40 B	Grade 260	GJL-250	Ft 25 D	0125	G25	FG25		Sc 25	
0.6660		GGL-NiCr 20 2	1050/700/7	Grade F2	GJLA-XNiCr 20-2	L-NC 202	0523	-		F41002		Ni-Resist 2
1.4449	SUS317	X5CrNiMo17133	317	317S16				X5CrNiMo1815		S31700		ATI 317

K | VDI 3323: **16** | Material Description: Grey cast iron | Composition / Structure / Heat Treatment: Pearlitic (Martensitic) | HB: 260 | HRc: 26

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
0.6025	FC250	GG25	A48 40 B	Grade 260	GJL-250	Ft 25 D	0125	G25	FG25		Sc 25	
0.6030	FC300	GG30	A48 45 B	Grade 300	GJL-300	Ft 30 D	0130	G30	FG30		Sc 30	
0.6035	FC350	GG35	A48 50 B	Grade 350	GJL-350	Ft 35 D	0135	G35	FG35		Sc 35	
0.6040	FC400	GG40	A48 60 B	Grade 400	GJL-400	Ft 40 D	0140	G40	FC40		Sc 40	

K | VDI 3323: **17** | Material Description: Nodular cast iron | Composition / Structure / Heat Treatment: Ferritic | HB: 160 | HRc: 3

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
0.7033	FCD350-22L	GGG35.3	-	350/22L40	GJS-350-22-LT	FGS 370-17	0717-15	-				
0.7040	FCD400	GGG40	60-40-18	SNG 420-12	GJS-400-15	FCS 400-12	0717-02	GS 400-12	FG E38-17	F32800	Vc 42-12	
0.7043	FCD 370	GGG40.3	60-40-18	SNG 370-17	GJS-400-18-LT	FGS 370-17	0717-12	GSO 42-17			Vc 42-12	
0.6040	FC400	GG40	A48 60 B	Grade 400	GJL-400	Ft 40 D	0140	G40	FC40		Sc 40	

K | VDI 3323: **18** | Material Description: Nodular cast iron | Composition / Structure / Heat Treatment: Pearlitic | HB: 250 | HRc: 25

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
0.7050	FCD500	GGG50	80-55-06	SNG 500-7	GJS-500-7	FGS 500-7	0727-02	GS 500-7	FG E50-7	F33100	Vc 50-2	
0.7060	FCD600	GGG60	80-55-06	SNG 600-3	GJS-600-3	FGS 600-3	0732-03	GS 600-3	FG E60-2		Vc 60-2	
0.7070	FCD700	GGG70	100-70-03	SNG 700-2	GJS-700-2	FGS 700-2	0737-01	GS 700-2	FG S70-2	F34800	Vc 70-2	
0.7652	FCDA-NiMn 137	GGG NiMn 13-7	-	Grade S6	GJSA-XNiMn 13-7	FGS Ni13 Mn7	0772	-				Nodumag
0.7660		GGG NiCr 20-2	A436 D2	Grade S2	GJSA-XNiCr 20-2	FGS Ni20 Cr2	0776	-				Ni-Resist D-2

Technical Information

Material Groups

K	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	19	Malleable cast iron	Ferritic	130	

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
0.8135	FCMW330	GTS-35	32510	B 340-12	GJMB350-10	MN 35-10	0815	GMN 35	GTS35		Kc 35-10	

K	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	20	Malleable cast iron	Pearlitic	230	21

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
0.8145	FCMW370	GTS-45	A220-40010	P 440-7	GJMB450-6	MN 450	0852	GMN 45				
0.8155	FCMP490	GTS-55	50005	P 510-4	GJMB-550-4	MP 50-5	0854	GMN 55			Kc 60-3	
0.8165	FCMP590	GTS-65	70003	P 570-3	GJMB-650-2	MN 650-3	0856	GMN 65				
0.8170	FCMP690	GTS-70	90001	P 690-2	GJMB-700-2	MN 700-2	0862	GMN 70			Kc 70-2	

Technical Information

Material Groups

N — VDI 3323 21

Material Description	Composition / Structure / Heat Treatment	HB	HRc
Aluminum-wrought alloy	Not Curable	60	

Mat'l No.	JIS	DIN	AISI/ASTM/SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
3.0205		Al99	Al99									
3.0255	(A1050)	Al99.5	1000	L31		A59050C					D1	
3.3315		AlMg1										

N — VDI 3323 22

Material Description	Composition / Structure / Heat Treatment	HB	HRc
Aluminum-wrought alloy	Curable, Hardened	100	

Mat'l No.	JIS	DIN	AISI/ASTM/SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
3.1325		AlCuMg1									AD35	
3.1655	A2011	AlCuSiPb										
3.2315		AlMgSi1									AK9	
3.4345		AlZnMgCuO,5	7050	L86		AZ4GU/9051		811-04				
3.4365	7075	AlZnMgCu1,5	7075	7075		7075		AlZn5.8MgCuCr			B95	

N — VDI 3323 23

Material Description	Composition / Structure / Heat Treatment	HB	HRc
Aluminum-cast, alloyed	≤ 12% Si, Not Curable	75	

Mat'l No.	JIS	DIN	AISI/ASTM/SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
3.2163		G-AlSi9Cu3									VAL8	
3.2382		GD-AlSi10Mg										
3.2383		G-AlSi0Mg(Cu)	A360.2	LM9			4253					
3.2581		G-AlSi12										
3.3561		G-AlMg5										
3.5101		G-MgZn4sE1Zr1	ZE41	MAG5								
3.5103		MgSE3Zn27r1	EZ33	MAG6		G-TR3Z2						
3.5812		G-MgAl8Zn1	AZ81	NMAG1								
3.5912		G-MgAl9Zn1	AZ91	MAG7								
			A356-72	2789		NFA32-201						
	A5052		356.1	LM25			4244				AK7	
		G-AlSi12	A413.2	LM6			4261					
	ADC12	G-AlSi12(Cu)	A413.1	LM20			4260				AK12	
	A6061	GD-AlSi12	A413.0				4247					
	A7075	GD-AlSi8Cu3	A380.1	LM24			4250					

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Material Groups

N	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	24	Aluminum-cast, alloyed	≤ 12% Si, Curable, Hardened	90	

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
2.1871		G-AlCu4TiMg										
3.1754		G-AlCu5Ni1,5										
3.2371		G-AlSi7Mg	4218B								AK8	
3.2373	C4BS	G-AlSi9MGWA	SC64D			A-S7G	4251				AK9	
3.2381		G-AlSi10Mg									AK12	
3.5106		G-MgAg3SE2Zr1	QE22	mag12								
		G-ALMG5	GD-AlSi12	LM5		A-SU12	4252					

N	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	26	Copper and Copper Alloys (Bronze / Brass)	Cutting alloys, PB>1%	110	

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
2.0375		CuZn36Pb3									LS60-2	
2.1090		G-CuSn75pb	C93200			U-E7Z5pb4						
2.1096		G-CuSn5ZnPb	c83600	LG2								
2.1098		G-CuSn2Znpb	C83600									
2.1182		G-CuPb15Sn	C23000	LB1		U-pb15E8						

N	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	27	Copper and copper alloys (Bronze / Brass)	CuZn, CuSnZn (Brass)	90	

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
2.0240	C2300	CuZn15									L90	
2.0321		CuZn37	C27200	cz108		CuZn36,CuZn37		C2700			L63	
2.0590		G-CuZn40Fe										
2.0592		G-CuZn35Al1	C86500	U-Z36N3		HTB1						
2.0596		G-CuZn34Al2	C86200	HTB1		U-Z36N3					LTs23AD	
2.1293		CuCrZr	C18200	CC102		U-Cr0-8Zr						

N	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	28	Copper and copper alloys (Bronze / Brass)	CuSn, lead-free copper and electrolytic copper	100	

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
2.0060		E-Cu57										
2.0966		CuAl10Ni5Fe4	C63000	Ca104		U-A10N					BrAD	
2.0975		G-CuAl10Ni	B-148-52									
2.1050		G-CuSn10	c90700	CT1								
2.1052		G-CuSn12	C90800	pb2		UE12P						
2.1292		G-CuCrF35	C81500	CC1-FF								

Technical Information

Material Groups

S — VDI 3323 31

Material Description: Heat resistant super alloys
Composition / Structure / Heat Treatment: Fe Based, Annealed
HB: 200
HRc: 15

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.4558	NCF 800 TB	X2NiCrAlTi3220	N08800	NA15								
1.4562		X1NiCrMoCu32287	N08031									
1.4563		X1NiCrMoCuN31274	N08028			Z1NCDU31-27-03	2584				EK77	
1.4864	SUH330	X12NiCrSi36-16	330	NA17		Z12NCS37-18				N08330		
1.4865	SCH15	GX40NiCrSi38-18		330C40				XG50NiCr3919		J94605		
1.4958		X5NiCrAlTi3120										

S — VDI 3323 32

Material Description: Heat resistant super alloys
Composition / Structure / Heat Treatment: Fe Based, Aged
HB: 280
HRc: 30

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.4977		X40CoCrNi2020				Z42CNKDWNb						

S — VDI 3323 33

Material Description: Heat resistant super alloys
Composition / Structure / Heat Treatment: Ni or Co Based, Annealed
HB: 250
HRc: 25

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
2.4360		NiCu30Fe		NA13		NU30				N04400		Monel400
2.4603		NiCr 30 FeMo	5390A			NC22FeD						Hastelloy G-30
2.4610		NiMo16cR16Ti								N26455		HastelloyC-4
2.4630		NiCr20Ti		HR5,203-4		NC20T				N06075		Nimonic75
2.4631	NCF 80A	NiCr20TiAl		Hr40		NC20TA				N07080	KHN77TYuR	Nimonic 80A
2.4642	NCF 690	NiC29Fe				Nnc30Fe				N06690		Inconel 690
2.4856		NiCr22Mo9Nb		NA21		NC22FeDNb				N06625		Inconel 625
2.4858		NiCr21Mo		NA16		NC21FeDU				N08825	KHN38VT	Incoloy 825

S — VDI 3323 34

Material Description: Heat resistant super alloys
Composition / Structure / Heat Treatment: Ni or Co Based, Aged
HB: 350
HRc: 38

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
2.4375		NiCu30Al	4676	NA18		NU30AT				N05500		Monelk500
2.4662		NiFe35Cr14MoTi	5660			ZSNCDT42				N09901		Incoloy 901
2.4668		NiCr19Fe19NbMo	5383	HR8		NC19eNB				N07718		Inconel 718
2.4670		S-NiCr13A16MoNb	5391	Mar-46		NC12AD						Nimocast 713
2.4694		NiCr16fE7TiAl								N07751		Inconel 751
2.4955		NiFe25Cr20NbTi										
2.4964		CoCr20W15Ni	5772			KC20WN						Haynes 25
		CoCr22W14Ni	AMS 5772			KC22WN						

Technical Information

Material Groups

S	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	35	Heat resistant super alloys	Ni or Co Based, Cast	320	34

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
2.4669		NiCr15Fe7TiAl				NC15TNbA				N07750		Inconel X750
2.4685		G-NiMo28								N10665		Hastelloy B
2.4810		G-NiMo30										Hastelloy C
2.4973		NiCr19Co11MoTi	AMS 5399			NC19KDT					VT5-1	
3.7115		TiAl5Sn2								R54520	VT1-00	ATI Grade 6

S	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	36	Titanium alloys	Pure Titanium	400 Rm	

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
2.4674		NiCo15Cr10MoAlTi	AMS 5397							N13100		IN 100
3.7025		Ti1	R50250	2TA1						R50250		ATI 30 CP Gr. 1
3.7225		Ti1pd	R52250	TP1						R52250		

S	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc
	37	Titanium alloys	Alpha + Beta Alloys, Hardened	1050 Rm	

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
3.7124		TiCu2		2TA21-24								
3.7145		TiAl6Sn2Zr4Mo2Si	R54620							R54620		
3.7165		TiAl6V4	AMS R56400	TA10-13		T-A6V					VT6	
3.7185		TiAl4Mo4Sn2		TA45-51								
3.7195		TiAl3V2.5								R56320		ATI 3-2.5
		TiAl4Mo4Sn4Si0.5										
		TiAl5Sn2.5	AMS R54520	TA14/17		T-A5E						
		Ti6Al4VELI	AMS R56401	TA11								

Technical Information

Material Groups

H | VDI 3323: **38** | Material Description: Hardened steel | Composition / Structure / Heat Treatment: Hardened | HB: 550 | HRc: 55

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
1.1231	S 70 C-CSP	Ck 67	1070	060 A 67	C 67S	XC 68	1770	C 70	F.5103		70	
1.1248	C 75	Ck 75	1078, 1080	060 A 78	C 75S	XC 75	1774	C 75	F.5107		75	
1.1274	SUP 4	Ck 101	1095	060 A 96	C 100S	XC100	1870	C100	F.5117			
1.1545	SK 3	C 105 W1	W1	BW 2	C 105U	Y1 105	1880	C 100 KU	F.5118		U10A	
1.2762		75CrMoNiW67	-	-	-	-	-	-				
1.3401	SCMnH1	GX120Mn12	A128(A)			Z120M12	2183	GX120Mn12	F.8251		110G13L	
1.4021	SUS 420 J1	X 20 Cr 13	420	420 S 37	X 20 Cr 13	Z 20 C 13	2303	X 20 Cr 13	F.5261		20KH13	ATI 420
1.4109	SUS 440 A	X 65 CrMo 14	440 A	-	X 70 CrMo 15	Z 70 D 14	-	-				ATI 440A
1.4112	SUS 440 B	X 90 CrMoV 18	440 B	409 S 19	X 90 CrMoV 18	Z 2 CND 18 05	2327	X CrTi 12				
1.4125	SUS 440 C	X 105 CrMo 17	440 C	-	X 105 CrMo 17	Z 100 CD 17	-	X 105 CrMo 17			95KH18	ATI 440C
1.6746		32NiCrMo14-5	-	832M31	32nlcRmO145	35NCD14	-	-				
1.7176	SUP9(A)	55Cr3	5155	527A60	48	55C3	2253	55Cr3				
1.7225	SCM 440 (H)	42CrMo4	4140	708 M 40	42 CrMo 4	42 CD 4	2244	42 CrMo 4	F.1252		38HM	

H | VDI 3323: **40** | Material Description: Chilled cast iron | Composition / Structure / Heat Treatment: Cast | HB: 400 | HRc: 42

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
0.9620		GX260NiCr42	A532 IB	Grade 2 A	GJN-HV520	FB Ni4 Cr2 BC	0512	-		F45001		Ni-Hard2
0.9625		GX330NiCr42	A532 IA	Grade 2 B	GJN-HV550	FB Ni4 Cr2 HC	0513	-		F45000		Ni-Hard1
0.9630		GX300 CrNiSi 9 5 2	A532 ID	Grade 2 C	GJN-HV600	FB Cr9 Ni5	0457	-		F45003		Ni-Hard 4
0.9640		GX300CrMoNi1521	-	-	-	-	-	-		F45005		
0.9650		GX260Cr27	-	Grade 3 D		-	0466	-				
0.9655		GX300CrNMo271	-	Grade 3 E		-	-	-			20C 25N20S2	
1.4841	SUH 310	X15CrNiSi25-20	310	314S31	X 15 CrNiSi 25 20	Z15CNS25-20	-	-		S31400		Cronifer 2520

H | VDI 3323: **41** | Material Description: Hardened cast iron | Composition / Structure / Heat Treatment: Hardened | HB: 550 | HRc: 55

Mat'l No.	JIS	DIN	AISI/ASTM/ SAE	BS	EN	AFNOR	SS	UNI	UNE / IHA	UNS	GOST	Brands
0.9635		GX300 CrMo 15 3	-	-	-	-	-	-				
0.9645		GX260 CrMoNi 20 21	-	-	-	-	-	-		F45007		

Application Guide

Steel Guide

Grade Recommendation based on Workpiece Material Condition

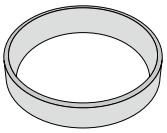
HARD

YG3115

YG3020

YG3030

TOUGH



Pre Machined Condition

No Outer Skin

Uniform hardness on material

Has stable machining condition

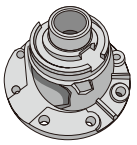


Welded Condition

Soft / No Outer Skin

Weld Bead Could be of Different Hardness than Actual Part

Stock on Part could even except weld Seam during Machining causing shock loads

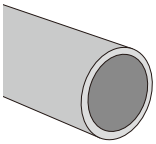


Cast Condition

Hard Outer Skin

Could have Sand Inclusion,- if Green Sand Cast

Component could have uneven Stock during machining



Hot Rolled Condition

Soft / No Outer Skin

Usually heat treated before machine to reduce Hardness

Component could have uneven Stock During Machining



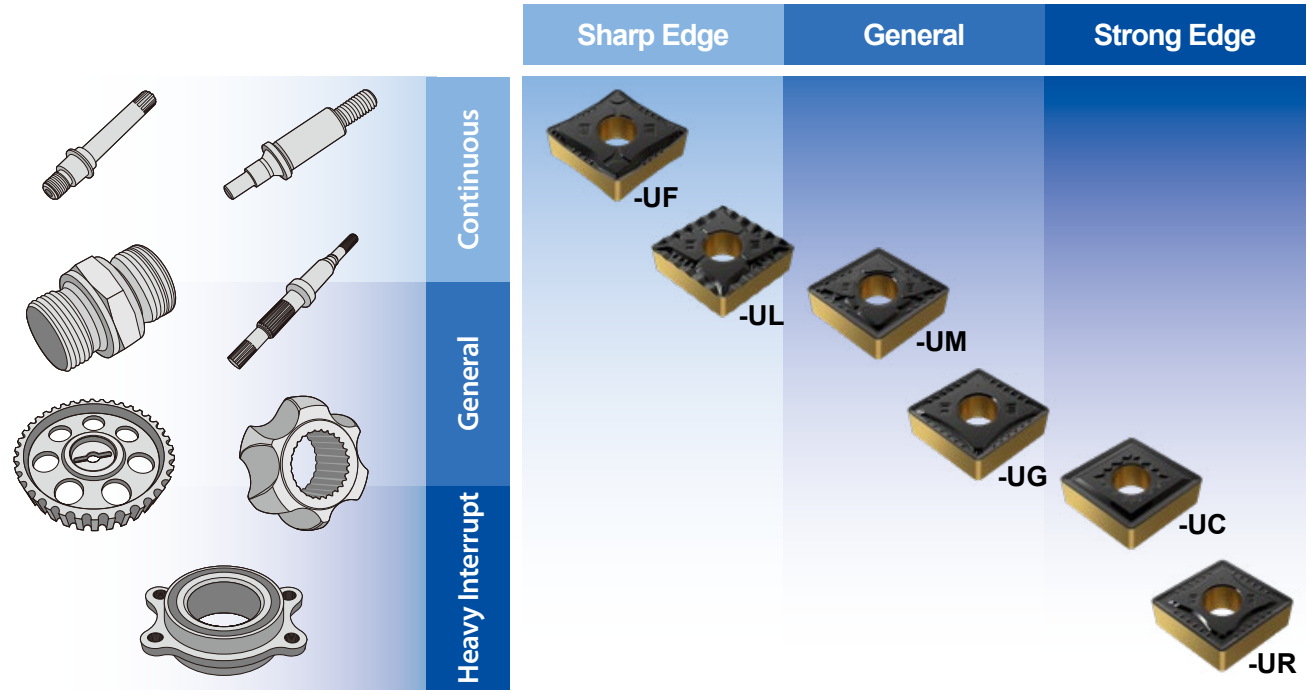
Forged Condition

Soft Outer Skin

Usually heat treated before machine to reduce Hardness

Component could have uneven Stock during machining

Chipbreaker, Feed Rate and Depth of Cut

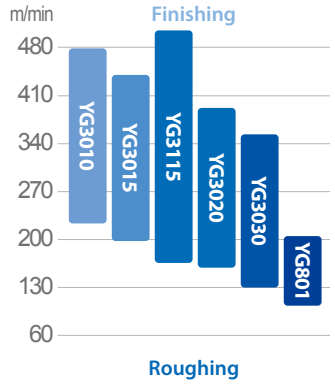


Application Guide

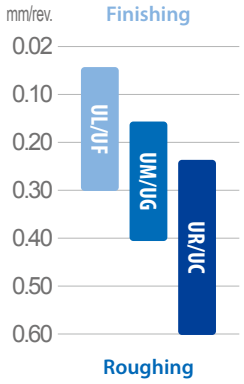
Steel Guide

P	Non Alloy Steel, About 0.15% C (Low Carbon Steel)									
VDI	JIS	DIN	Mat'l No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
1	S15C	CK15	1.0401	1015	1350	XC18	C15	F.1110	080M15	15

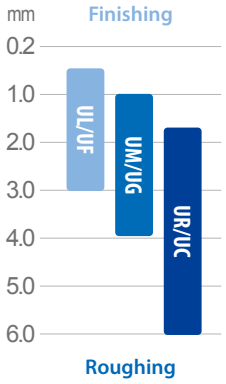
Cutting Speed (Vc)



Feed Rate (Fn)



Depth of Cut (Ap)

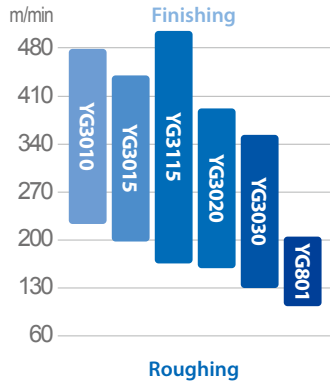


First Choice Grade and Value

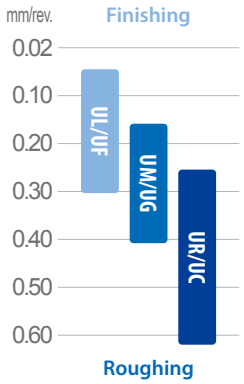
YG3030 - Vc 280m/min

P	Non Alloy Steel, About 0.45% C (Medium Carbon Steel)									
VDI	JIS	DIN	Mat'l No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
2~3	S45C	C45	1.0503	1045	1672	XC42H1TS	C45	F.1140	060A47	45

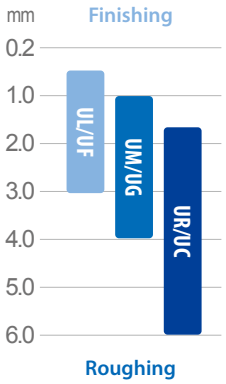
Cutting Speed (Vc)



Feed Rate (Fn)



Depth of Cut (Ap)



First Choice Grade and Value

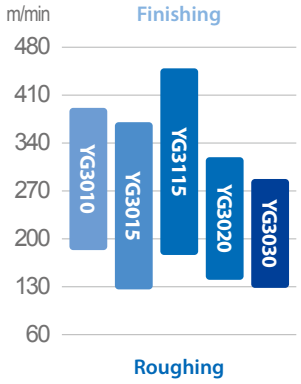
YG3115 - Vc 330m/min

Application Guide

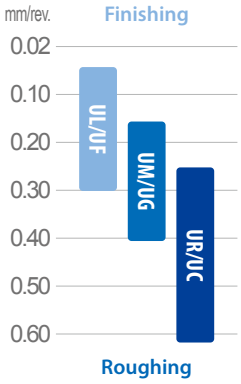
Steel Guide

P	Low-alloyed Steel									
VDI	JIS	DIN	Mat'l No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
6~9	SCM440	42CrMo4	1.7225	4140	2244	42 CD 4	42CrMo4	F.1252	708M40	38HM

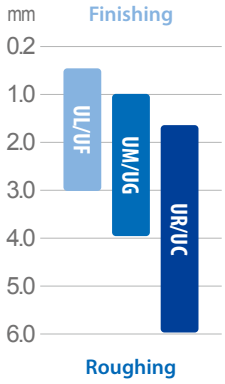
Cutting Speed (Vc)



Feed Rate (Fn)



Depth of Cut (Ap)

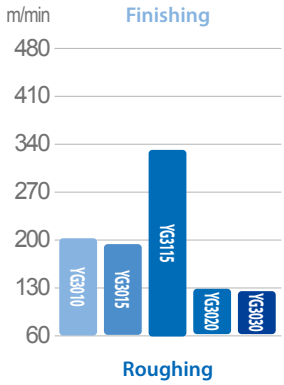


First Choice Grade and Value

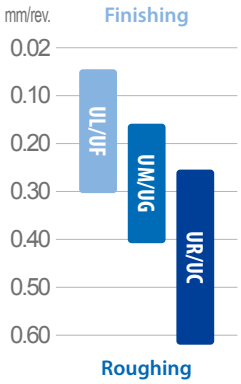
YG3020 - Vc 240m/min

P	High Alloyed Steel, and Tool Steel									
VDI	JIS	DIN	Mat'l No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
10~11	SKD11	X155CrVMo121	1.2379	D2	2310	Z160CDV12	X165CrMoW12KU	F.5318	BD2	KH12MF

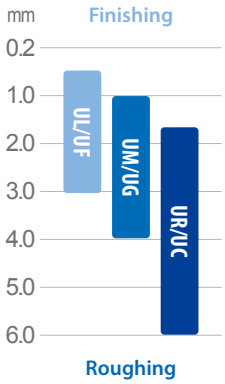
Cutting Speed (Vc)



Feed Rate (Fn)



Depth of Cut (Ap)



First Choice Grade and Value

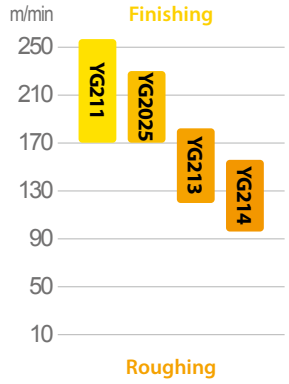
YG3115 - Vc 150m/min

Application Guide

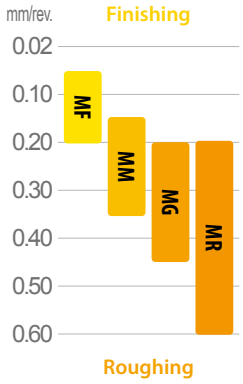
Stainless steel Guide

M	Ferritic / Martensitic Stainless									
VDI	JIS	DIN	Mat'l No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
12~13	SUS430	X6Cr17	1.4016	430	2320	Z8C17	Z8C17	F.3113	430S15	12C17

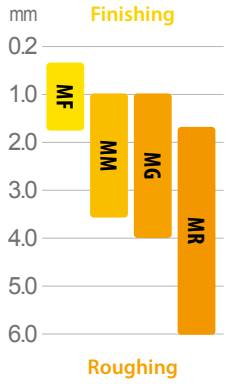
Cutting Speed (Vc)



Feed Rate (Fn)



Depth of Cut (Ap)



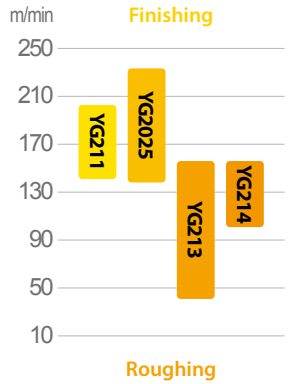
First Choice Grade and Value

Ferritic Stainless steel
YG213 - Vc 160m/min
YG2025 - Vc 190m/min

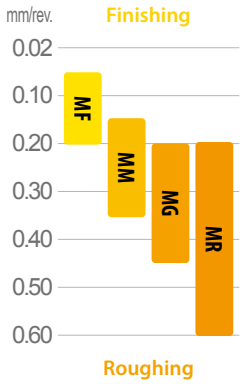
Martensitic
YG213 - Vc 130m/min
YG2025 - Vc 160m/min

M	Austenitic Stainless steel									
VDI	JIS	DIN	Mat'l No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
14	SUS304	X5CrNi18 9	1.4350	304	2332	Z6CN18 09	X5CrNi18 10	F.3551	304S15	03KH18N11

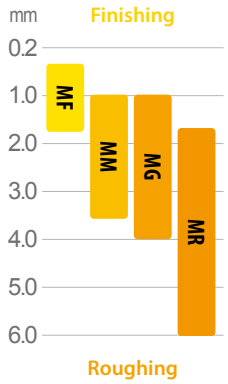
Cutting Speed (Vc)



Feed Rate (Fn)



Depth of Cut (Ap)



First Choice Grade and Value

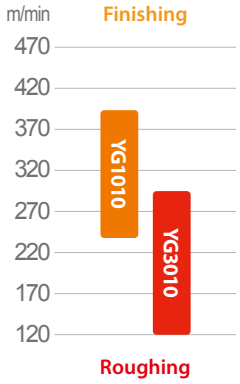
YG2025 - Vc 190m/min

Application Guide

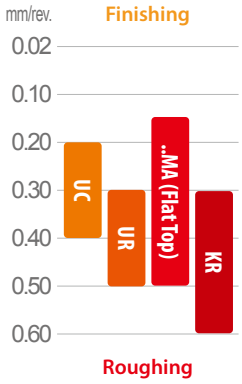
Cast iron Guide

K	Grey cast iron									
VDI	JIS	DIN	Mat'l No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
15~16	FC250	GG25	0.6025	A48 40 B	0125	Ft 25 D	G25	FG25	Grade 260	Sc 25

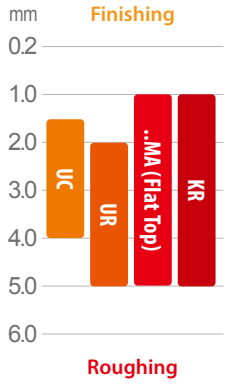
Cutting Speed (Vc)



Feed Rate (Fn)



Depth of Cut (Ap)

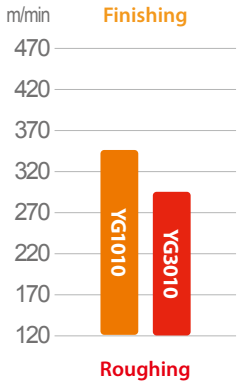


First Choice Grade and Value

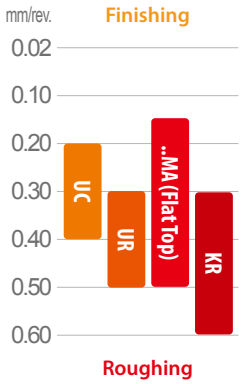
YG1010 - Vc 320m/min

K	Nodular cast iron									
VDI	JIS	DIN	Mat'l No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
17~18	FCD500	GGG50	0.7050	80-55-06	0.7050	FGS 500-7	GS 500-7	FG E50-7	SNG 500-7	Vc 50-2

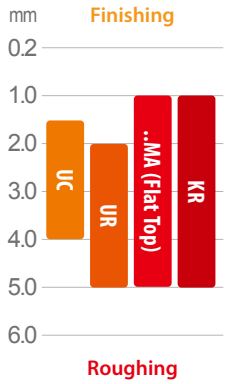
Cutting Speed (Vc)



Feed Rate (Fn)



Depth of Cut (Ap)



First Choice Grade and Value

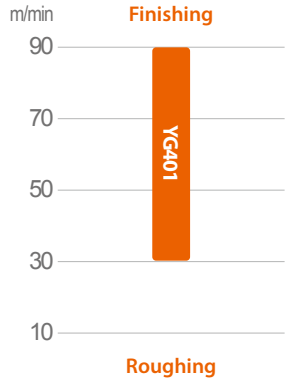
YG1010 - Vc 230m/min

Application Guide

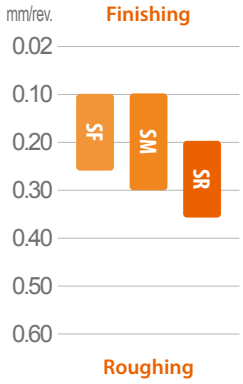
HRSA Guide

S	Superalloys & Titanium Alloys									
VDI	DIN	Mat'l No.	AISI/ASTM	AFNOR	BS	UNS	Brands	UNE	BS	GOST
31~37	NiCr19Fe19NbMo	2.4668	5383	NC19eNB	HR8	N07718	Inconel 718	F.3113	430S15	12C17

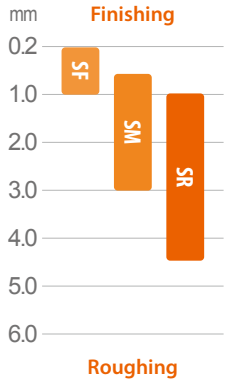
Cutting Speed (Vc)



Feed Rate (Fn)



Depth of Cut (Ap)



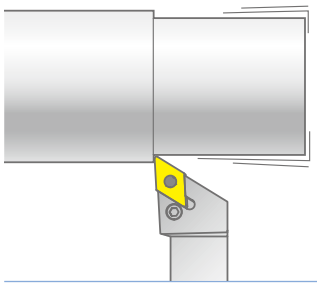
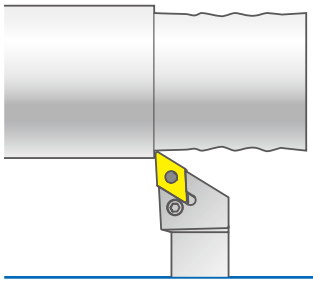
First Choice Grade and Value

YG401 - Vc 50m/min

Application Guide

Surface Roughness Guide

Trouble Shooting

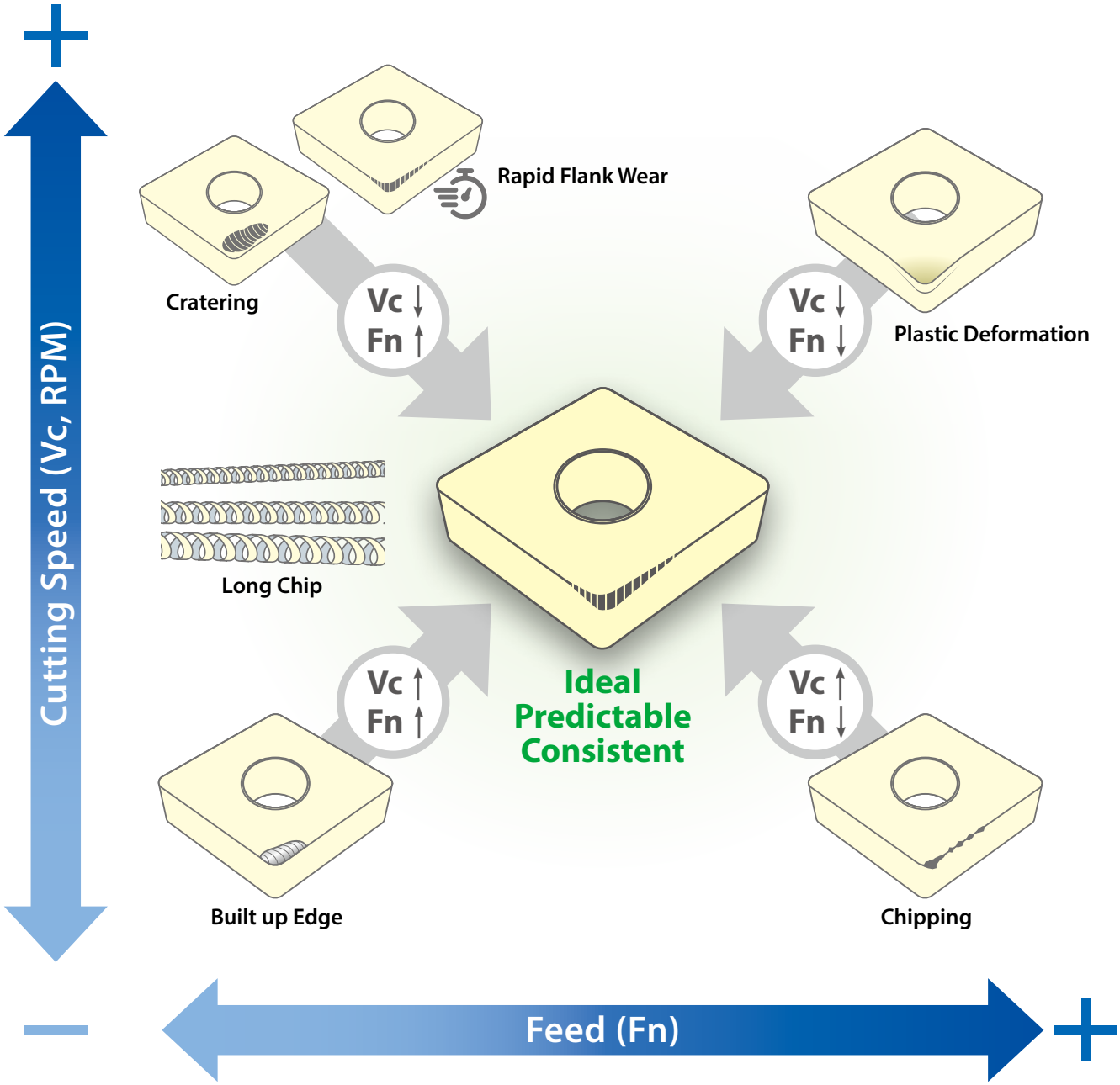
Pattern	Reasons	Solutions
Vibration		
	- High radial or tangential force - Unstable condition	- Lower depth of cut (ap) - Use sharper chipbreaker - Check stability, and position of tool and workpiece - Reduce the overhang (bigger and shorter tool)
Bad Surface		
	- Work material is damaged by chips - Feed is too high for corner radius	- Different chipbreaker - Lower depth of cut (ap) - Lower feed - Larger corner radius

Theoretical Surface Roughness

Ra / Rz µm	Insert Corner Radius Code ISO					
	02	04	08	12	16	24
	Feed Rate mm/rev					
0.4 / 1.6	0.05	0.07	0.1	0.12	0.14	0.18
1.6 / 6.3	0.1	0.14	0.2	0.25	0.28	0.35
3.2 / 12.5	0.14	0.2	0.28	0.35	0.4	0.49
6.3 / 25	-	0.28	0.4	0.49	0.57	0.69
8 / 32	-	-	0.45	0.55	0.64	0.78

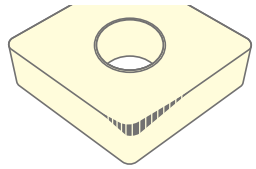
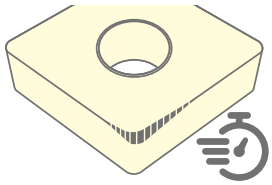
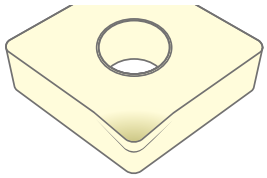
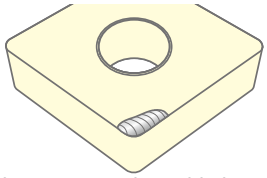
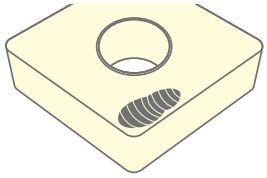
Trouble Shooting

Trouble Shooting Guide map



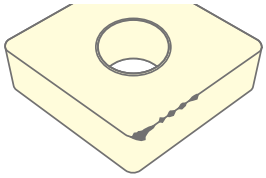
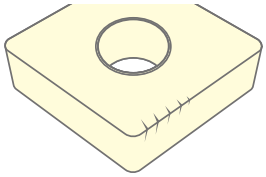
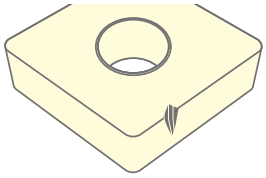
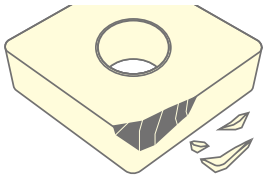
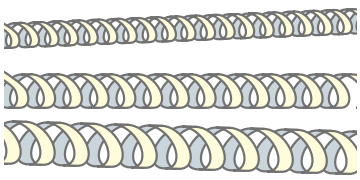
Application Guide

Trouble Shooting

Pattern	Reasons	Solutions
General Flank Wear  Flank face near by corner is abrased	- The most ideal wear - Consistent and predictable - General wear behavior when machining condition is normal	
Rapid Flank Wear  Looks same as general flank wear, but happens quickly	**Grade** - Not enough wear resistance - Too tough grade **Heat** - Cutting speed is too high - Not enough coolant	- More wear resistant grade - Reduce the cutting speed (Vc, SFM, RPM or SFPM) - Optimize coolant - Increase Feed (Fn) if feed is low
Plastic Deformation  Deformed Edge	- Excess thermal load - Excess mechanical load	- Reduce cutting temperature - More wear resistant grade - Reduce the cutting speed (Vc, SFM, RPM or SFPM) - Lower feed (Fn) - Lower depth of cut (ap) - Optimize coolant
Built up Edge  Workpiece material is welded on the cutting edge	- Sticky materials (low carbon steel, Stainless steel, non-ferrous metal, heat resistant super alloys) - Too low cutting speed	- Increase cutting speed - Lower feed rate - Sharper chipbreaker & geometry - Use high pressure coolant - Use PVD grade - Use Positive Insert
Cratering 	**Heat** - Cutting speed is too high - Too tough grade	- Reduce cutting temperature - Lower cutting speed (Vc, SFM, RPM or SFPM) - Adjust Feed (Fn) - Harder grade

Application Guide

Trouble Shooting

Pattern	Reasons	Solutions
Chipping 	- Unstable machining condition (Vibration) - Grade is too hard / brittle - Cutting edge is too sharp	- Focus on stabilizing cutting condition - Reduce overhang (shorter and bigger tool) - Tougher grade - Tougher chipbreaker
Thermal Crack 	- Thermal stress due to rapid change of temperature	- Tougher grade - Lower cutting speed (Vc, SFM, RPM or SFPM) - Lower feed (Fn) - Sharper chipbreaker - Change coolant / dry cut
Notching 	- Improved edge strength work piece has hardened skin	- More wear resistant grade - Reduce the cutting speed (Vc, SFM, RPM or SFPM) - Adjust Feed (Fn) - Lower depth of cut (ap) - Optimize coolant - Go for tougher chipbreaker
Breakage (Mechanical Fracture) 	- Mechanical load is too heavy (feed or depth is too high) - Heavy interrupted cut - Grade is too hard for work material - Unstable machining (vibration) - Cutting speed is too low - Impurities in work material	- Lower feed (Fn)or depth of cut (ap) - Tougher grade - Reduce overhang and check stability of tool and work material - Higher cutting speed (Vc, SFM, RPM or SFPM)
Long Chip 	- Feed is too low for chip breaking - Depth of cut is too shallow for corner radius - Chip area (Fn x Ap) too low	- Higher feed - Sharper chipbreaker - Higher depth of cut - Select a smaller corner radius

Technical Information

Comparison Chart - Turning Chipbreakers

Please visit globalyg1.com/mat for material search

Negative Inserts

ISO	Application	YG-1	SANDVIK	ISCAR	KENNAMETAL	Seco	Walter	Mitsubishi	Kyocera	Tungaloy	Sumitomo	Taegutec	Korloy
P	Super Finish	SF	-	SF	FF (G-class), WF, UF	FF1, FF2	FP5, FV5	PK (G-class), FY, FH, FS	DP (G-class), GP WQ	01, TF	FA, FL, FB	FA	VL
	Finish	UF	QF	F3P, NF	FN	MF2	NF4, NF3	FP, C	PP, GP DP, XF, XP	TS, TSF, ZF, 11, NS, NM, CB	LU, FE, SU	FLP, FA, FS, GG-FU, FX, FLP, FG, FM	VF, VB
	Semi Finish	PSF	XF	NF, TF	FN	MF2	MP3	FP, FH	HQ	TSF	NSU	FG, FM	VQ
		UL	PF, XF		FN, MN	MF3	NS6	C (Cermet)	CQ, VC, PP	AS	SE	MLP, FC, FT	VQ, VC
		UM			-	MF5	MP3	SH, SA, LP	PQ, CJ, VF, XQ	ZM, AM	SX		LP
	Medium	UG	PM, QM, XM	PP, TF, M3P, M4PW	MN	M3, M5, MR3	NM4, MP5, MU5, NM6	MA, MH, MP MV	GS, PS, PG	TM AM, DM, ZM	GU (□UG□), GE, UX	MLP, MC, MGP, PC, MM	VM, MP
	Rough	UC	PR	GN	MR, RP	MR4, M5, M6	MG-	MG-, None C/B	XS	TH, THS	UZ	MT, MGP, MG-	B25
		UR	XMR	R3P, NR	RN	MR3, MR6	NR4, RP5, RP7	RP, GH	PT, GT, PH	TU, TRS, TUS	MU, ME, MX	RGP, RT, RX	HR, GR
	Wiper	PWM	WF, WR WMX, WM	WF, WG	FW, MW, RW	W-M3, W-MF2, W-MF5, M6, W-R4	NF, NM	SW, MW	WP, WF, WQ, WE	AFW, FW, ASW, SW	LUW, SEW, GUW	WS, WA, WT	VW, LW
M	Finish	MF	MF	SF, F3M, NF	FF, FP	MF1	NF4, FM5	SH, LM	MQ, SQ	SF, SA	SU, EF	EA, SF	VP2, MP
	Medium	MM	MM	M3MW, TF, M3M	MP, UP	MF4	MM5(NM4)	MS, GM	TK, MS	SM, SS	GU	EM, ML	HS, MM
		MG		VL, PP	MR		RM5, NR4	MM, ES	SG, SX	S, TA	EX, EG		
	Rough	MR	MR, XMR, MRR	GN, R3M, NR	P, RP	M5, M6 MR7, RR6	NRS	GH, RM	MU	TH, SH, TU	MU, HM, EM	ET	GS, RM
K	Finish	UC	KF,	M3P, GN	T-20, FN, MT	MF3, MF5, M4	NM, MK5	LK, MA	None C/B, C	CF	UZ	MT	MP
	Medium	UG	KM,	GN, A	UN(RP), T-20	M5	NM5, RK5	MK, GK	KQ, KG	CM, None C/B	GZ	MG-	B25, MK
	Rough	..MA	KR, KRR	NR, A	MR, S-20, … MA, T-20	MR7	MV7, RK7	RK, -MA	-MA, GC, KH, ZS	CH	(□UX□)	KT, RT	-MA, RK
S	Super Finish	SF	SF	SF	FS (G-class) LF (G-class)	MF1	NF4	FJ(G-class)	MQ	-	EF	EA, SF	VP1
	Medium	SM	NGP, SM	PP, TF, VL	MS, GP, P, UN	MF4	NMS, NMT	MJ(G-class), MS	SQ, MS, MU, TK	HRM HMM	EX	EM MGS, MP, MK	VP3
	Rough	SR	SR, SMR	MR	RP	MR3, MR4	NRS, NRT	RS, GJ	SG, SX	SA	MU	ET	VP4

Positive Inserts

ISO	Application	YG-1	SANDVIK	ISCAR	KENNAMETAL	Seco	Walter	Mitsubishi	Kyocera	Tungaloy	Sumitomo	Taegutec	Korloy
P	Finish	PF	PF	PF, F3P	FP	FF1	FP4	SV, FP	GP	PSF, PF	FB, LU	FA, FG	VL, VF
		UF	PF, UF UM	PF, F3P SM, 14	11, UF	F1	FP4, PS5	SMG(G-class), FV, LP	CF, PF, DP, PP, VF	01, TSF	FP, SU, SC	FX, GT-SL, GT-SA, GT-SM	VL
	Medium	PM	SM, M3P	MF	MF2, F2	MP4	MV	HQ, GK	PSS, PS	SU, SC	FM, PC, MT	MP	
		UG	PM, XM, XF	SM, M3P	LF, FP (Posi)	M5	FP6, PM5, E47	MP	XQ, XP	PM, TM 23, 24	MU, LB, SF	MT, PMR-	HMP
M	Finish	MF	MF, MMC	PF, SM, M3M, 14	11, UF, GT-LF, FP	F1, F2	FM4	FM, LM	MQ	PSF, PSS, PS	FC, SI LU, SU	FG, SA	VP1
	Medium	MM	MM	M3M, SM	MP, MF	M3	MM4, RM4	MM		PM	MU		VL
K	Medium	UG	KM, KR	SM, 14	MT, T-20, MP, C	M5	F2, FK6, MK4, RK6	MK, None C/B	None C/B	CM, None C/B	MU, None C/B	PC, MT	MP, C25
S	Super Finish	SF	GT-UM		GT-HP, LF	GT-F1	GT-PF2	FS(G-class) LS(G-class)				GT-FGS, SA	VP1
	Finish	SM	MF, UM	SM,PF,F3M,14	FP, LF	F1, F2	PF4, PS5	FS-P(G-class) LS-P(G-class)	MQ	PSF	SI	FG	VL
	Medium	SR	MM	M3M, SM		MF2	PM5	LS, MS		PSS, PS		PC	MP
N	Finish	AL	AL	AS	HP	AL	MN2	AZ	AP, AH	AL, PP	AG	GT-SA, FL	AK, AR

Technical Information

Comparison Chart - Turning Grades

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CVD Coated

ISO	YG-1	ISCAR	SANDVIK	SECO	PRAMET	KENNAMETAL	TUNGALOY	MITSUBISHI	WALTER	TAEGUTEC	KORLOY	SUMITOMO	KYOCERA
P	**YG3010**	IC8150 IC9150 IC9015	GC4415 GC4305 GC4315	TP0501 TP1500 TP1501	T9310 T9315	KCP05B KCP05 KCPK05 KCP10B KCP10	T9205 T9105 T9215 T9115	UE6105 UE6110 MY5015 MC6015	WPP10G WPP01 WPP05S WPP10S	TT8105B TT8115B TT8105 TT8115	NC3215	AC8015P AC810P AC700G	CA510 CA515 CA5505 CA5515
	YG3115	IC8150 IC9150	GC4315 GC4415	TP1501 TP1500	T9315	KCP10 KCP10B	T9115 T9215	MC9015 MC6115 UE6110	WPP10 WPP10S	TT8115 TT8115B	NC3215	AC8015P AC8020P AC810P	CA515 CA5515
	YG3020	IC8250 IC9250	GC4425 GC4325	TP2500 TP2501	T9325	KCP25 KCP25B	T9225 T9125	MC6025 UE6020	WPP20G WPP20S WMP20S	TT8125B TT8125 LC225P	NC3120 NC3225	AC8025P AC820P	CA025P CA525 CA5525
	YG3030	IC8350 IC9350	GC4235 GC2135 GC4035	TP3500 TP3501	T9335	KCP30B KCP30 KCP40B KCP40	T9235 T9135	MC6035 UE6035 UH6400	WPP30G WPP30S WKP30S		NC3030 NC5330	AC8035P AC830P	CA530 CA5535
M	**YG3030**	IC6015 IC6025 IC9300 IC520M IC4050 IC635	GC2015 GC2025 GC2035 GC235	TM1501 TM2501 TM3501	T7325 T7330 T7335	KCM15B KCM15 KCM25B KCM25 KCM35B KCM35	T6120 T6020 T6130 T6030	MC7015 MC7025 US7020 US735 UH6400	WMP20S	TT9215 TT9225 TT9235	NC9115 NC9125 NC9135 NC5330	AC6020M AC610M AC6030M AC630M AC6040M AC830P	CA6515 CA6525
	YG2025	IC9025 IC9325	GC2220	TM2501 TM2000		KCM25	T6120 T9125	MC7025 US7020		TT9225 TT5100		AC6020M AC6030M	CA6525
K	**YG1010** **YG1001**	IC5005 IC5010 IC4028 IC8150	GC3205 GC3210 GC3215	TK0501 TK1501	T5305 T5315	KCK05 KCK05B KCK15 KCK15B KCK20 KCK20B KCPK05	T5105 T515 T5115 T1215 T1115 T5125 T5020	MC5005 UC5105 MC5015 UC5115 MY5015	WKK10S WKK20S WAK30 WKP30S WKK10 WKK20	TT3005 TT7005 TT7310 TT7015	NC6310 NC6315 NC5330	AC4010K AC405K AC4015K AC415K AC420K AC8025P	CA310 CA315 CA320 CA4505 CA4515

PVD Coated

P	**YG801**	IC807 IC830 IC507 IC908	GC1025	TP1030 TP1020	T6310 T8430 T8345	KU10T KCU10 KT315 KU25T KC5010	AH330 AH725 AH730 SH725 SH730	VP10RT MS6015 VP15TF VP20MF VP20RT UP20M	WTA43 WTA41	TT4410 TT9020 TT4430 TT9080 TT8080	PC5300 PC5400 PC3035	AC1030U	PR930 PR1225 PR1535 PR1725
M	**YG211**	IC3028 IC907	GC1105 GC1115 GC2015	TS2000 TS2050	T6310 T8315	KCU10 KCU5010	AH120 AH140 AH630 AH645	VP10RT	WSM21 WSM01 WSM10S	TT5030	PC8105 PC8110	SC520U AC1030U	
	YG401	IC807						MP9005		TT5080	PC8115	AC5005S	
	YG213	IC908	GC2025	CP200 CP500	T8330 M6330	KCU25 KCU5025	SH725 AH7025	VP15TF VP20MF VP20RT UP20M MP7025	WSM20S	TT9080	PC5300 PC8120 PC9030	AC530U	PR930 PR1225 PR1535 PR1725
	YG214	IC330 IC830	GC2035	CP600	T8430		SH730 GH330 GH730 AH4035		WSM30S	TT8080 TT8020	PC5400		
S	**YG401**	IC804 IC806 IC830 IC807 IC908	GC1025 GC1105 GC1125	TS2000 TS2050 TS2500 TH1000 CP200	M6330 T6310	KCS10 KCU10 KCU25 KC5010 KC5025	AH110 AH120	MP9005 VP05RT MP9015 VP10RT MP9025 VP20RT	WSM01 WSM10S WSM20S WSM21 WSM30S	TT3010 TT3020 TT5080 TT5030	PC8105 PC8110 PC8115 PC5300 PC5400	AC5015S SC5025S AC510U AC520U	PR005S PR015S PR1535 PR1125 PR1305 PR1310

Non Coated

N	**YG10**	IC20		KX		K313		HTi10	WK1		H01 H05	H1	KW10

Cermet

P10	**YT100**	IC30N	CT5005 CT5015 CT525 GC1525	TP1030 CMP CM	TT010 TT310	KT5020 KT125 KT150	GT730 GT530 NS520 NS720	UP35N	TN60 TN610 TN620 TN90	CT3000	CN1500 CN2500 CC125	T1500A T1000A T2500Z	TN60 TN610 TN620 TC40N

Technical Information

Comparison Chart - Milling Grades

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ISO	YG-1	SANDVIK	SECO	KENNAMETAL	ISCAR	WALTER	TUNGALOY	MITSUBISHI	TAEGUTEC	KORLOY	SUMITOMO	KYOCERA	HITACHI	DIJET
P	**YG712**	GC4220 GC1130	T250M MP3000	KC715M KC522M KC635M		WKP25S WKP25 WAM10	T3130 GH330	MP8010 MP6120 MP6130 MP9120	TT7070 TT7080 TT7030	PC3700 PC3600 PC3500	ACP2000 ACZ310	PR730	CY9020 JP4020 TB6045	JC5003
	YG713	GC4230 GC4330	T350M F25M	KC525M	IC950 IC1008	WAM20 WAM30	AH710 AH120 T3225			PC210F	ACP200 ACZ330	PR830 PR630	JP4120 CY250	JC5015
	YG602	GC1030 GC4240	F30M	KC725M KC735M	IC900 IC808 IC908 IC330	WKP35G WKP35S	T3130 AH3035 AH110	VP15TF VP20RT MP9130	TT9030 TT9080	NC5330 PC5300 NCM325 NC5350	ACP3000	PR1025 PR1225	PTH30E JS4060 JP4160	JC5030 JC5040
	YG613	GC4340 GC1040	F40M T60M	KCPM20 KC935M KCPM40	IC830 IC928	WKP45S WKP45X WSP45S	AH725 AH730 GH330 AH130 AH140	FH7020 VP30RT F7030	TT8020 TT8025 TT8080	NC5340 PC5400 NCM335	ACP300 ACZ350	PR1525 PR1230 PR660	JM4160 PTH40H	
M	**YG602**	GC2030 GC1030	F25M	KC635M KC522M KC725M	IC330	WAM30 WXM35 WSM35	AH725 AH120 GH110 AH730	VP15TF MP7130 MP7030	TT9030 TT9080	PC210F PC5300 NCM325 NC5350	XCU2500 ACM100 ACP200 ACM300	PR1025 PR1225 PR1525 PR630	JX1015 TB6020 CY250 GX2160 JX1045	JC5003 JC5015 JC5030
	YG613	GC2040	F30M F40M	KC722	IC928 IC328	WSP45	AH140 GH340	MP9030 MP7140 VP30RT	TT8080 TT8020	PC9530 NCM335 PC5400	ACP300 ACZ350 ACP400	PR660 PR1535 PR660	TB6045 JX1060 TB6060	JC5040
K	**YG5020**	GC3220 GC1020	MK1500 MP1500	KC915M	DT7150 IC5100 IC418	WAK15	T1015	VP15TF	TT6290 TT7515 TT6800	NC5330 PC8110	XCK2000	PR1510 PR510		JC5003
	YG501	GC3040	MK2050 MK2000	KCK15 KC520M	IC910 IC810	WKK25S WKP25	T1115 T1215 AH120	MP8010 MC5020	TT6080 TT6030	PC6510 NC5340	ACK200 ACZ310	PR1210 PR905		JC5015
	YG622		MK3000			WKP35	GH110	VP20RT		NC5350 PC5300	ACK300	CA420M		
S	**YG602**	GC1025 GC1040	F40M MM4500	KC510M KCU30M	IC328 IC408	WSM35S		VP15TF VP30RT	TT9030 TT8020 TT9540	PC5300 PC5400 PC9540	AC520U	CA6535 PR620	ACS05E	
	YG613	S30T S40T	MS2500	KC725M	IC903	WSM45S WSM45X		MP9130	TT8080 TT3540	UPC845		PR660 PR1535		
	YG012	GC1130 GC1030	MP1500 MP3000		IC1008			VP15TF						

ISO ↔ ANSI

ISO	ANSI
CC.. 060201	CC.. 21.50
CC.. 060202	CC.. 21.50.5
CC.. 060204	CC.. 21.51
CC.. 060208	CC.. 21.52
CC.. 09T301	CC.. 32.50
CC.. 09T302	CC.. 32.50.5
CC.. 09T304	CC.. 32.51
CC.. 09T308	CC.. 32.52
CC.. 120402	CC.. 430.5
CC.. 120404	CC.. 431
CC.. 120408	CC.. 432
CC.. 120412	CC.. 433
CN.. 090308	CN.. 322
CN.. 090312	CN.. 323
CN.. 090408	CN.. 332
CN.. 090412	CN.. 333
CN.. 120401	CN.. 430
CN.. 120402	CN.. 430.5
CN.. 120404	CN.. 431
CN.. 120408	CN.. 432
CN.. 120412	CN.. 433
CN.. 120416	CN.. 434
CN.. 160608	CN.. 542
CN.. 160612	CN.. 543
CN.. 160616	CN.. 544
CN.. 190608	CN.. 642
CN.. 190612	CN.. 643
CN.. 190616	CN.. 644
CN.. 190624	CN.. 646
CN.. 250924	CN.. 866
DC.. 070202	DC.. 21.50.5
DC.. 070204	DC.. 21.51
DC.. 070208	DC.. 21.52
DC.. 11T301	DC.. 32.50

ISO	ANSI
DC.. 11T302	DC.. 32.50.5
DC.. 11T304	DC.. 32.51
DC.. 11T308	DC.. 32.52
DC.. 11T312	DC.. 32.53
DN.. 110404	DN.. 331
DN.. 110408	DN.. 332
DN.. 150404	DN.. 431
DN.. 150408	DN.. 432
DN.. 150412	DN.. 433
DN.. 150604	DN.. 441
DN.. 150608	DN.. 442
DN.. 150612	DN.. 443
SC.. 09T304	SC.. 32.51
SC.. 09T308	SC.. 32.52
SC.. 120408	SC.. 432
SD.. 1203	SD.. 42
SC.. 120412	SC.. 433
SD.. 120420	SD.. 435
SD.. 1504	SD.. 53
SE.. 1203	SE.. 42
SN.. 090304	SN.. 321
SN.. 090308	SN.. 322
SN.. 120404	SN.. 431
SN.. 120408	SN.. 432
SN.. 120412	SN.. 433
SN.. 120416	SN.. 434
SN.. 150612	SN.. 543
SN.. 190612	SN.. 643
SN.. 190616	SN.. 644
SN.. 190624	SN.. 646
SN.. 250724	SN.. 856
SN.. 250924	SN.. 866
SP.. 1203	SP.. 42
SP.. 120308	SP.. 422

ISO ↔ ANSI

ISO	ANSI
SP.. 1504	SP.. 53
TC.. 110204	TC.. 21.51
TC.. 110208	TC.. 21.52
TC.. 16T302	TC.. 32.50.5
TC.. 16T304	TC.. 32.51
TC.. 16T308	TC.. 32.52
TN.. 160404	TN.. 331
TN.. 160408	TN.. 332
TN.. 160412	TN.. 333
TN.. 220404	TN.. 431
TN.. 220408	TN.. 432
TN.. 220412	TN.. 433
TN.. 220416	TN.. 434
TP.. 1603	TP.. 32
TP.. 160308	TP.. 322
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VB.. 110301	VB.. 220
VB.. 110302	VB.. 220.5
VB.. 110304	VB.. 221
VB.. 110308	VB.. 222
VB.. 160402	VB.. 330.5
VB.. 160404	VB.. 331
VB.. 160408	VB.. 332
VC.. 110301	VC.. 220
VC.. 110302	VC.. 220.5
VC.. 110304	VC.. 221
VC.. 110308	VC.. 222
VC.. 160402	VC.. 330.5
VC.. 160404	VC.. 331
VC.. 160408	VC.. 332
VN.. 160404	VN.. 331
VN.. 160408	VN.. 332
VN.. 160412	VN.. 333
WN.. 060404	WN.. 331

ISO	ANSI
WN.. 060408	WN.. 332
WN.. 060412	WN.. 333
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