

ISO TURNING

Product Overview

Application Guide

Turning Holders Overview

Turning Holders

Turning Inserts Overview

Turning Inserts

Turning - Name Code System

External Turning Holder Code (Metric)

*Metric

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	 Pin & Top Clamp (Straight Clamping Hole Insert)
P	 Lever Lock (Straight Clamping Hole Insert)
S	 Screw (Screw Clamping Hole Insert)
T (D, A)	 Hole Clamp (Straight Clamping Hole Insert)

2, 4 — Insert Compatibility *



* Related to Insert Designation to check compatibility

3 - Tool Style

Approach Angle (KAPR)	Side Direction		End Direction
	Straight Shank	Offset Shank	
45°	D 	S 	
60°		T 	
63°	N 		
72.5°	V 		
75°	B 		K
90°	A 	G 	F
93°		J 	U
95°		L (Both Direction) 	
107.5°		H 	

Turning - Name Code System

External Turning Holder Code (Metric)

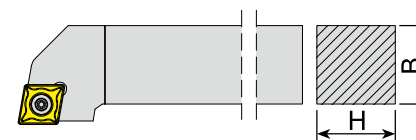
*Metric

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

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



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
M	150	U	350
P	170	V	400

9 - Insert Size *

Examples	is Compatible with...
PCLNR 2525M 12	CNMG 120408
SCLCR 2020K 09	CCMT 09T308
TWLNR 2525M 08	WNMG 080408

* Related to Insert Designation to check compatibility

(10 - Optional Clamp)

Symbol	Optional Clamp
C	Included

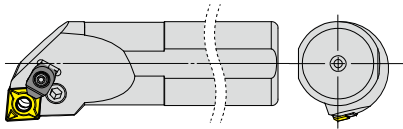
Internal Turning Holder Code (Metric)

*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

2 - Shank Diameter (DCON)

3 - Length (LF)

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

4 - Clamping System

Symbol	System
C	<p>Top Clamp (No Clamping Hole Insert)</p>
M	<p>Pin & Top Clamp (Straight Clamping Hole Insert)</p>
P	<p>Lever Lock (Straight Clamping Hole Insert)</p>
S	<p>Screw (Screw Clamping Hole Insert)</p>
T (D, A)	<p>Hole Clamp (Straight Clamping Hole Insert)</p>

Internal Turning Holder Code (Metric)

*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

5 - Tool Style

Approach Angle (KAPR)	Side Direction	End Direction
	Offset Shank	
75°		K
90°		F
93°	J	U
95°	L (Both Direction)	
107.5°		Q

8 - Hand Direction

Symbol	Hand Direction
R	Right Hand
L	Left Hand
N	Neutral

9 - Insert Size *

Examples	is Compatible with...
PCLNR 2525M 12	CNMG 120408
SCLCR 2020K 09	CCMT 09T308
TWLNR 2525M 08	WNMG 080408

* Related to Insert Designation to check compatibility

5, 7 - Insert Compatibility *


* Related to Insert Designation to check compatibility

(10 - Optional Clamp)

Symbol	Optional Clamp
C	Included

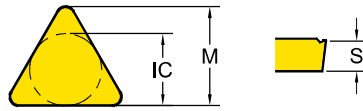
Insert ISO Code System

*Metric : According to ISO 1832

1	2	3	4	5	6	7	8	9
C	N	M	G	12	04	08	-UG	YG3020
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	



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	

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	

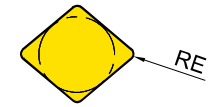
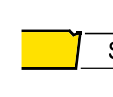
Insert ISO Code System

*Inch

1	2	3	4	5	6	7	8	9
C	N	M	G	4	3	2	-UG	YG3020
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							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		16					15.875	5
19		19					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	0
02	0.2	0.5
04	0.4	1
08	0.8	2
12	1.2	3
16	1.6	4
20	2.0	5
24	2.4	6

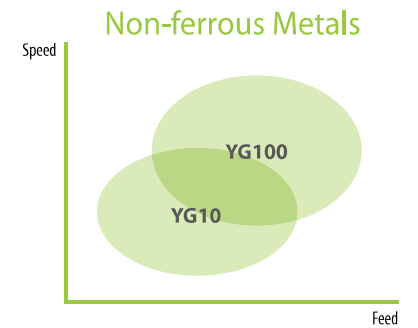
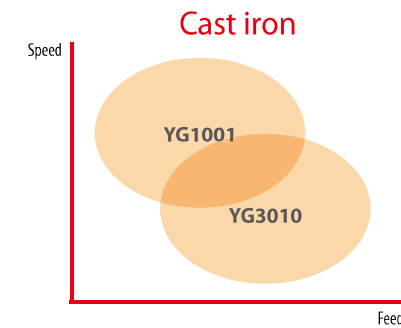
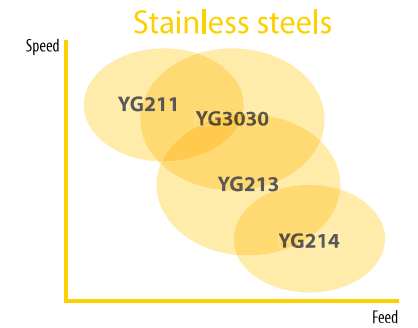
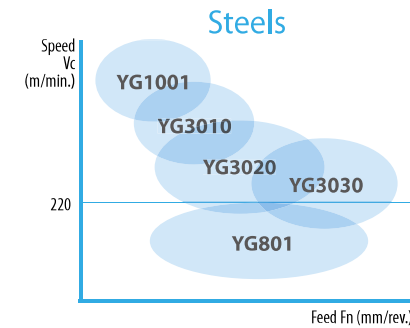
Product Overview Turning Grades

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	YG1001	1001						1001						
	YG3010	3010						3010						
	YG3020		3020											
	YG3030			3030										
PVD	YG801	801												
	YG211				211								211	
	YG213					213								213
	YG214						214							214
DLC	YG100										100			
-	YG10										10			

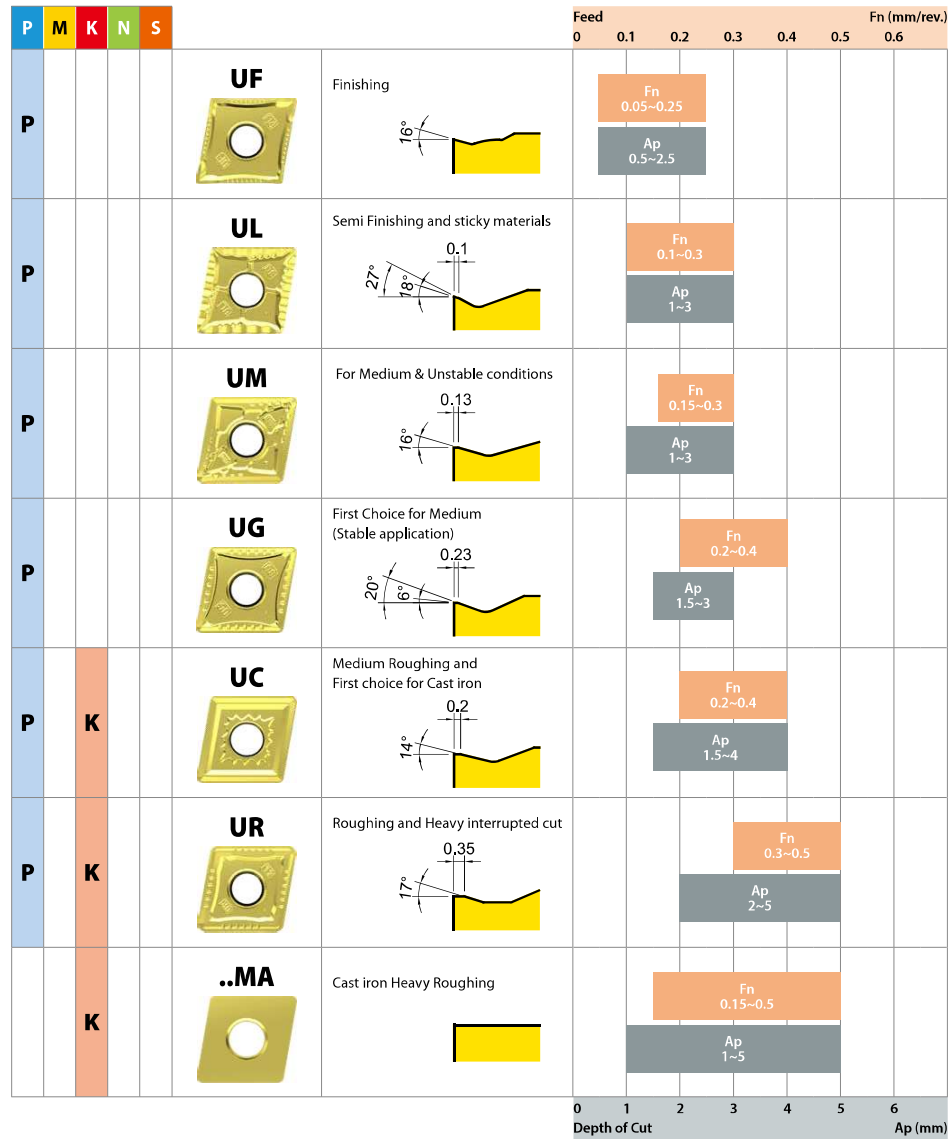
YG1001 P01 - P10 K10 - K25	 CVD TiCN - Al ₂ O ₃	First choice for stable machining of Cast iron <ul style="list-style-type: none"> Substrate especially designed for high wear resistance Thick Al₂O₃ layer ensures good wear resistance at high cutting speeds including dry machining
YG3010 P05 - P20 K15 - K35	 CVD TiCN - Al ₂ O ₃	First choice for Finishing Steels, and Ductile Cast iron <ul style="list-style-type: none"> Finishing and light machining of steel under in stable condition New Al₂O₃ coating technology and excellent surface smoothness increase wear resistance and chipping resistance
YG3020 P15 - P30	 CVD TiCN - Al ₂ O ₃	First Choice grade for general Steel application <ul style="list-style-type: none"> Substrate especially designed for good toughness Excellent surface smoothness increases wear resistance and reliability
YG3030 P20 - P35 M10 - M30	 CVD TiCN - Al ₂ O ₃	Interrupted cut of Steel and Stainless steel <ul style="list-style-type: none"> Heavy interrupted cut for Steel High cutting speed for Stainless steel
YG801 P10 - P30	 PVD - TiAlN	for Carbon Steel with Low cutting speed <ul style="list-style-type: none"> Recommended for mild steel and boring application Substrate and special PVD coating for excellent wear resistance
YG100 N05 - N25	 DLC	First Choice grade for aluminum with DLC coating <ul style="list-style-type: none"> 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	Uncoated Grade for General Aluminum <ul style="list-style-type: none"> Substrate consisted of submicron carbide for high wear resistance Shining surface to prevent built up edge

Product Overview Turning Grade Map

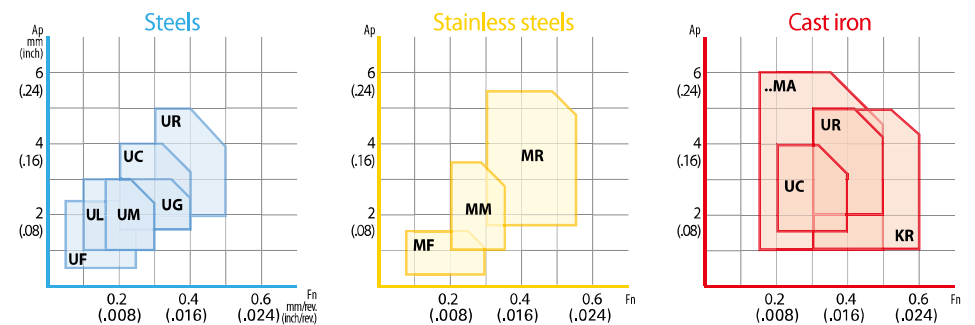
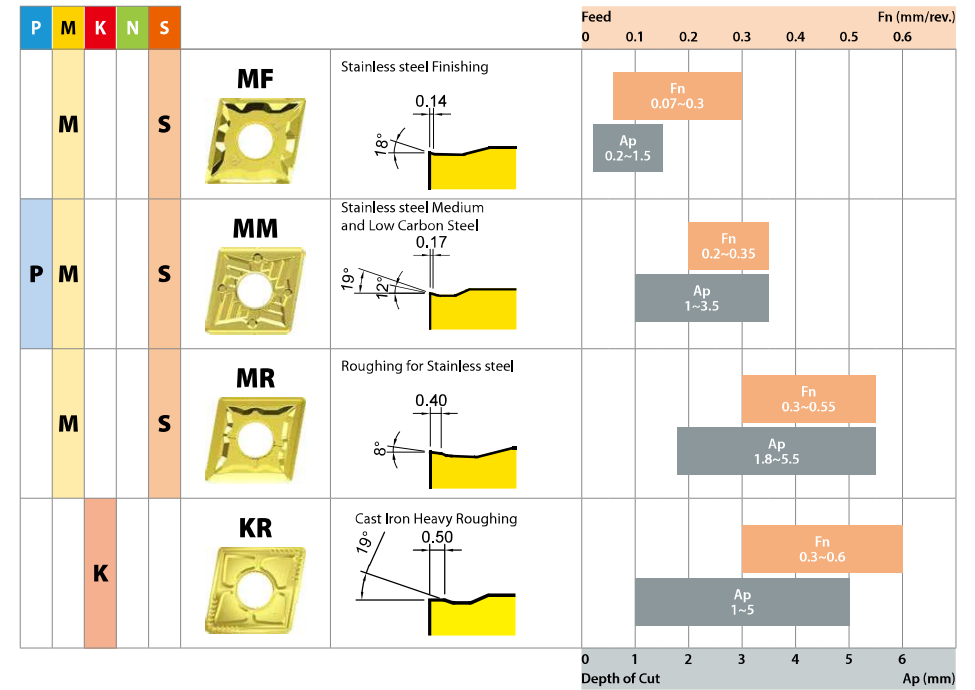
YG211 M05 - M25 S05 - S20		High wear resistance grade for Super alloys and Stainless steel <ul style="list-style-type: none"> Finishing Stainless steel Finishing Super alloys and Titanium
YG213 M20 - M35 S15 - S25		First Choice Grade on low cutting speed of Stainless steel <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> For Heavy Interrupted cut on Stainless steel Minimize risk of Mechanical fracture or Chipping



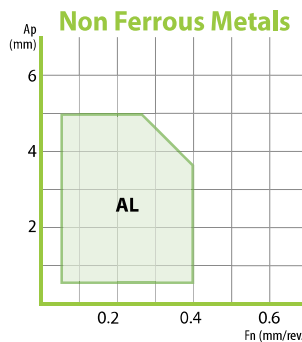
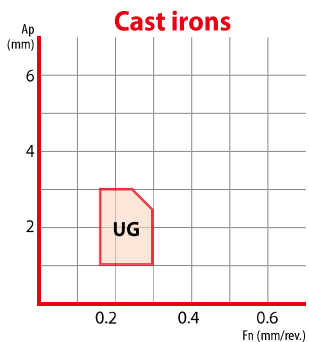
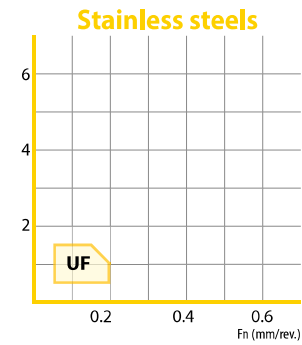
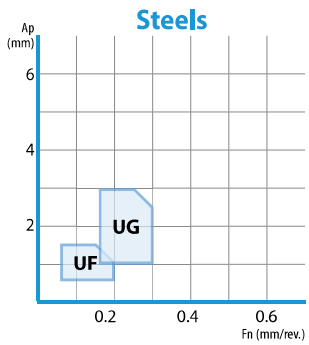
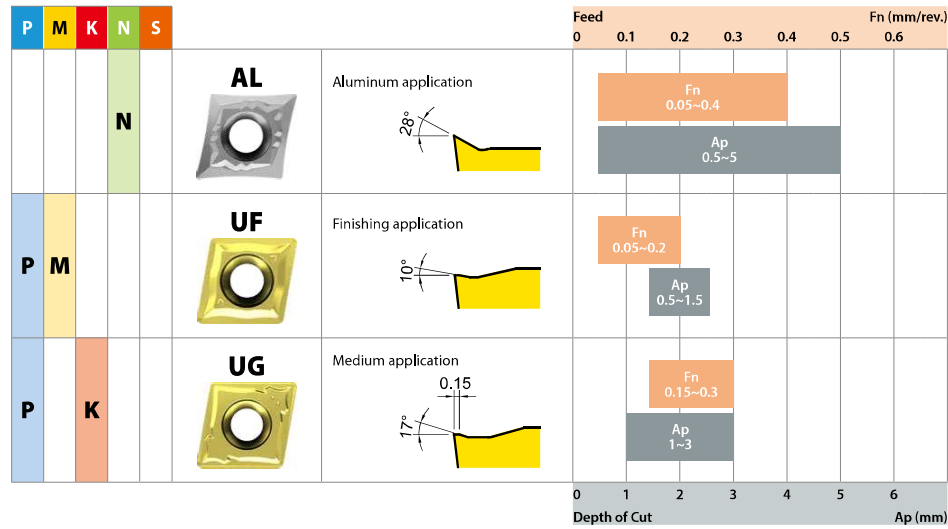
Product Overview
Turning Chipbreakers - Negative



Product Overview
Turning Chipbreakers - Negative



Product Overview
Turning Chipbreakers - Positive



Application Guide
Steel Guide

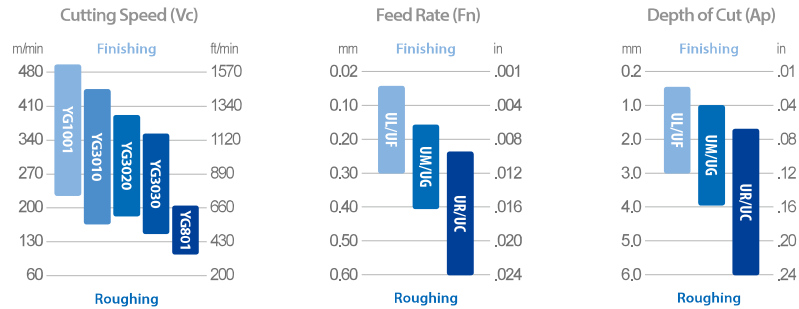
Grade Recommendation based on Workpiece Material Condition

	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

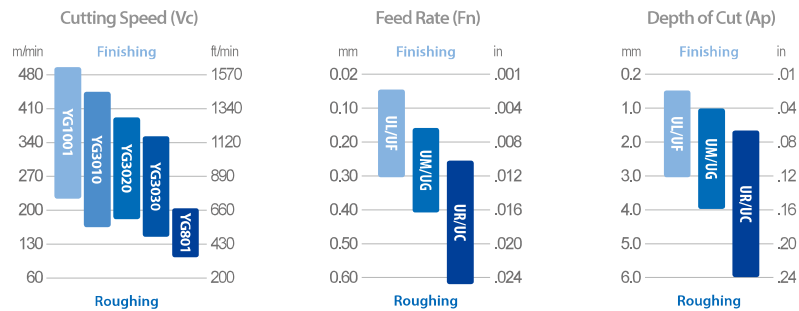
		Sharp Edge	General	Strong Edge
	Continuous	-UF	-UL, -UM	
	General			-UG, -UC
	Heavy Interrupt			-UR

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



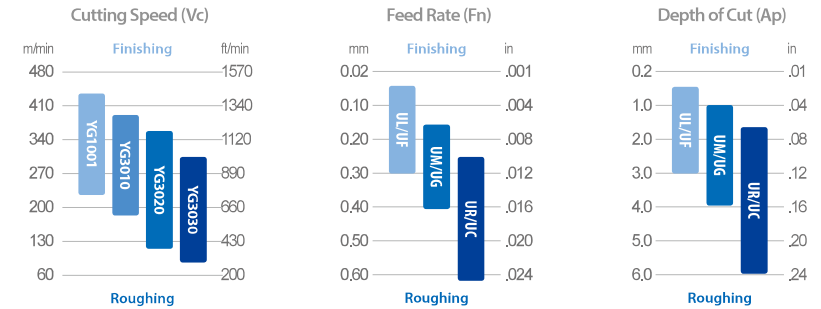
First Choice Grade and Value
 YG3010 - Vc 330m/min (1,080ft/min)
 YG801 - Vc 170m/min (560ft/min)

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



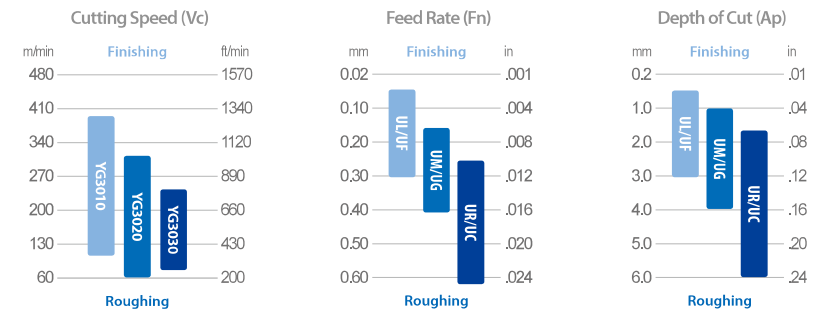
First Choice Grade and Value
 YG3010 - Vc 330m/min (1,080ft/min)
 YG801 - Vc 170m/min (560ft/min)

Low-alloyed Steel										
P	JIS	DIN	Matl 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



First Choice Grade and Value
 YG3020 - Vc 240m/min (790ft/min)

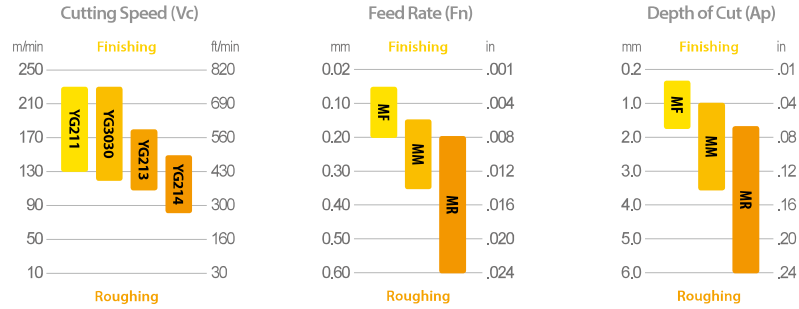
High Alloyed Steel, and Tool Steel										
P	JIS	DIN	Matl No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
10-11	SKD11	X155CrVMo121	1.2379	D2	Z310	Z160CDV12	X165CrMoW12KU	F5318	BD2	KH12MF



First Choice Grade and Value
 YG3020 - Vc 230m/min (750ft/min)

Application Guide Stainless steel Guide

M	Ferritic / Martensitic Stainless									
VDI	JIS	DIN	Matl No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
12-13	SUS430	X6Cr17	1.4016	430	2320	Z8C17	Z8C17	F3113	430S15	12C17



First Choice Grade and Value

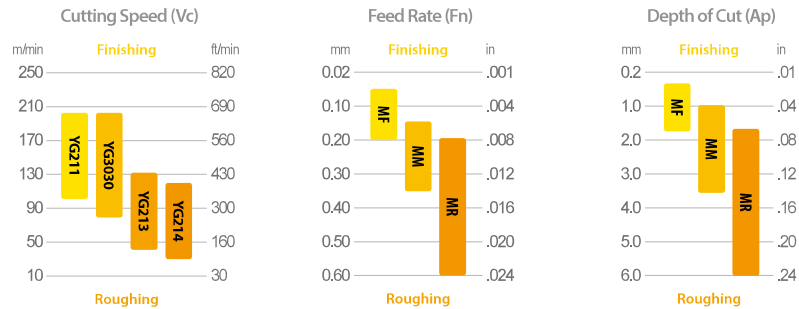
Ferritic Stainless steel

YG3030 - Vc 200m/min (660ft/min)
YG213 - Vc 160m/min (520ft/min)

Martensitic

YG3030 - Vc 160m/min (520ft/min)
YG213 - Vc 130m/min (430ft/min)

M	Austenitic Stainless steel									
VDI	JIS	DIN	Matl No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
14	SUS304	X5CrNi18 9	1.4350	304	2332	Z6CN18 09	X5CrNi18 10	F3551	304S15	03KH18N11



First Choice Grade and Value

YG3030 - Vc 180m/min (590ft/min)
YG213 - Vc 140m/min (460ft/min)

Application Guide Cast iron Guide

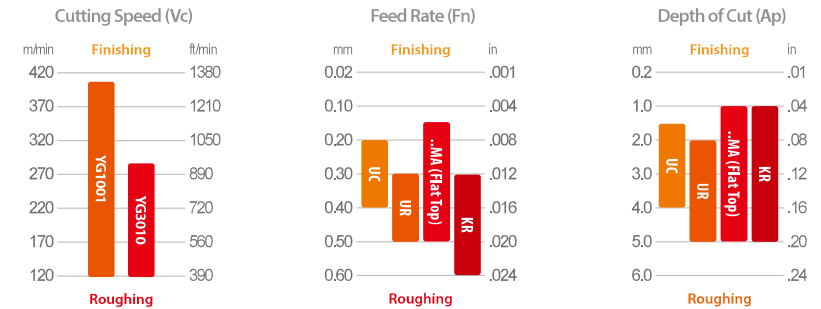
K	Grey cast iron									
VDI	JIS	DIN	Matl No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
15-16	FC250	GG25	0.6025	A48 40 B	0125	FL 25 D	G25	FG25	Grade 260	Sc 25



First Choice Grade and Value

YG1001 - Vc 350m/min (1,150ft/min)

K	Nodular cast iron									
VDI	JIS	DIN	Matl No.	AISI/ASTM	SS	AFNOR	UNI	UNE	BS	GOST
17-18	FCD500	GGG50	0.7050	80-65-06	0.7050	FGS 500-7	GS 500-7	FGES0-7	SNG 500-7	Vc 50-2



First Choice Grade and Value

YG3010 - Vc 220m/min (720ft/min)

Formulas

Cutting Speed (Vc)	Metric $Vc = D \times RPM \times 0.0031$ (m/min)
	Inch $Vc = D \times RPM \times .262$ (ft/min)
	Metric Vc to Inch Vc $Inch\ Vc = Metric\ Vc \times 3.28$ (ft/min)
	Inch Vc to Metric Vc $Metric\ Vc = Inch\ Vc \times .305$ (m/min)
Spindle Speed (RPM)	Metric $RPM = Vc \times 318.3 \div D$ (rev/min)
	Inch $RPM = Vc \times 3.82 \div D$ (rev/min)
Feed Rate (Vf = Table Feed)	$Vf = Fn \times RPM$ (mm/min or in/min)
Feed per Revolution (Fn)	$Fn = Vf \div RPM$ (mm/min or in/min)
Metal Removal Rate (Q)	Metric $Q = Vc \times Fn \times Ap$ (cm ³ /min)
	Inch $Q = Vc \times Fn \times Ap \times 12$ (in ³ /min)
Cutting Time	$T = L \div Vf$ (min)

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)

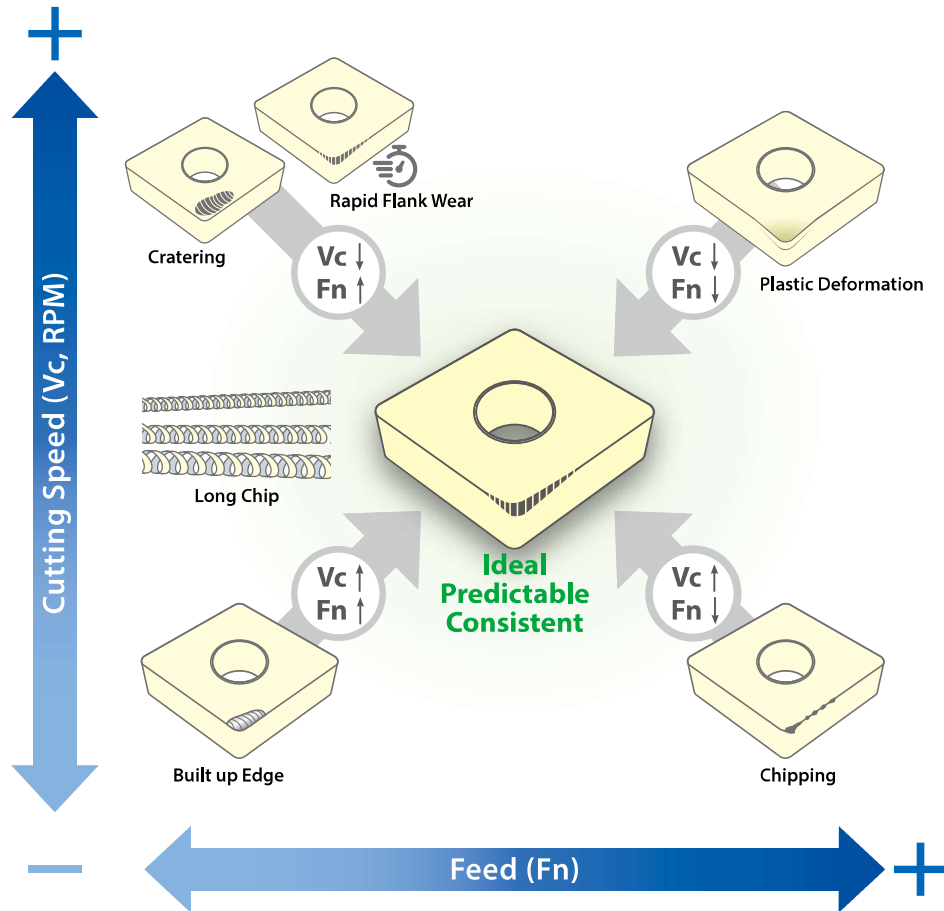
Trouble Shooting

Pattern	Reasons	Solutions
Vibration 	<ul style="list-style-type: none"> - High radial or tangential force - Unstable condition 	<ul style="list-style-type: none"> - 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 	<ul style="list-style-type: none"> - Work material is damaged by chips - Feed is too high for corner radius 	<ul style="list-style-type: none"> - Different chipbreaker - Lower depth of cut (ap) - Lower feed - Bigger corner radius

Theoretical Surface Roughness

Ra / Rz μm (μ inch)	Insert Corner Radius Code ISO (ANSI)					
	02 (0)	04 (1)	08 (2)	12 (3)	16 (4)	24 (6)
Feed Rate mm/rev (inch/rev)						
0.4 / 1.6 (16 / 64)	0.05 (.002)	0.07 (.003)	0.1 (.004)	0.12 (.005)	0.14 (.006)	0.18 (.007)
1.6 / 6.3 (64 / 256)	0.1 (.004)	0.14 (.006)	0.2 (.008)	0.25 (.010)	0.28 (.011)	0.35 (.014)
3.2 / 12.5 (128 / 512)	0.14 (.006)	0.2 (.008)	0.28 (.011)	0.35 (.014)	0.4 (.016)	0.49 (.019)
6.3 / 25 (250 / 1000)	-	0.28 (.011)	0.4 (.016)	0.49 (.019)	0.57 (.022)	0.69 (.027)
8 / 32 (320 / 1280)	-	-	0.45 (.018)	0.55 (.022)	0.64 (.025)	0.78 (.031)

Trouble Shooting Guide map



Pattern	Reasons	Solutions
<p>General Flank Wear</p> <p>Flank face near by corner is abraded</p>	<ul style="list-style-type: none"> - The most ideal wear - Consistent and predictable - General wear behavior when machining condition is normal 	
<p>Rapid Flank Wear</p> <p>Looks same as general flank wear, but happens quickly</p>	<p>Grade</p> <ul style="list-style-type: none"> - Not enough wear resistance - Too tough grade <p>Heat</p> <ul style="list-style-type: none"> - Cutting speed is too high - Not enough coolant 	<ul style="list-style-type: none"> - More wear resistant grade - Reduce the cutting speed (Vc, SFM, RPM or SFPM) - Optimize coolant - Increase Feed (Fn) if feed is low
<p>Plastic Deformation</p> <p>Deformed Edge</p>	<ul style="list-style-type: none"> - Excess thermal load - Excess mechanical load 	<ul style="list-style-type: none"> - 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
<p>Built up Edge</p> <p>Workpiece material is welded on the cutting edge</p>	<ul style="list-style-type: none"> - Sticky materials (low carbon steel, Stainless steel, non-ferrous metal, heat resistant super alloys) - Too low cutting speed 	<ul style="list-style-type: none"> - Increase cutting speed - Lower feed rate - Sharper chipbreaker & geometry - Use high pressure coolant - Use PVD grade - Use Positive Insert
<p>Cratering</p>	<p>Heat</p> <ul style="list-style-type: none"> - Cutting speed is too high - Too tough grade 	<ul style="list-style-type: none"> - Reduce cutting temperature - Lower cutting speed (Vc, SFM, RPM or SFPM) - Adjust Feed (Fn) - Harder grade

Pattern	Reasons	Solutions
Chipping 	<ul style="list-style-type: none"> - Unstable machining condition (Vibration) - Grade is too hard / brittle - Grade is too sharp 	<ul style="list-style-type: none"> - Focus on stabilizing cutting condition - Reduce overhang (shorter and bigger tool) - Tougher grade - Tougher chipbreaker
Thermal Crack 	<ul style="list-style-type: none"> - Thermal stress due to rapid change of temperature 	<ul style="list-style-type: none"> - Tougher grade - Lower cutting speed (Vc, SFM, RPM or SFPM) - Lower feed (Fn) - Sharper chipbreaker - Change coolant / dry cut
Notching 	<ul style="list-style-type: none"> - Improved edge strength work piece has hardened skin 	<ul style="list-style-type: none"> - 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) 	<ul style="list-style-type: none"> - 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 	<ul style="list-style-type: none"> - 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 	<ul style="list-style-type: none"> - Feed is too low for chipbreaker - Depth of cut is too shallow for corner radius - Chip area (Fn x Ap) too low 	<ul style="list-style-type: none"> - Higher feed - Sharper chipbreaker - Higher depth of cut - Select a smaller corner radius

Series	Turning Holder				
 CCGT CCMT p. 78	 SCACR/L Screw p. 29	 SCLCR/L Screw p. 29			
 CNMA CNMG p. 60	 PCBNR/L Lever p. 30	 PCLNR/L Lever (+Clamp) p. 30	 TCLNR/L Hole Clamp p. 30		
 DCGT DCMT p. 79	 SDNCN Screw p. 31	 SDJCR/L Screw p. 31			
 DNMA DNMG p. 63	 TDHNR/L Hole Clamp p. 32	 PDNNN Lever (+Clamp) p. 32	 TDNNT Hole Clamp p. 32	 TDJNR/L Hole Clamp p. 32	 PDJNR/L Lever (+Clamp) p. 32
 KNUX p. 66	 CKJNR/L Top Clamp p. 33				
 RCMT p. 80	 SRGCR/L Screw p. 34	 SRDCN Screw p. 34			
 SCMT p. 81	 SSDCN Screw p. 35	 SSSCR/L Screw p. 35			

Turning - Holder - External

External Holders Overview


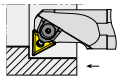
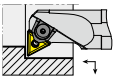
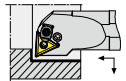
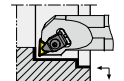

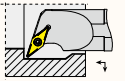
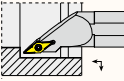
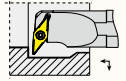

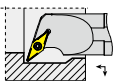
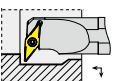

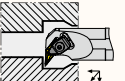

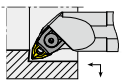
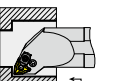
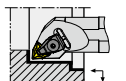
Series	Turning Holder														
SNMA SNMG	PSDNN Lever (+Clamp)	TSDNN Hole Clamp	PSSNR/L Lever (+Clamp)	TSSNR/L Hole Clamp	PSBNR/L Lever (+Clamp)	TSKNR/L Hole Clamp	PSKNR/L Lever (+Clamp)	p. 67	p. 36	p. 36	p. 36	p. 36	p. 36	p. 36	p. 36
TCGT TCMT	STFCR/L Screw	STGCR/L Screw	STJCR/L Screw	STUCR/L Screw				p. 82	p. 37	p. 37	p. 37	p. 37			
TNMA TNMG TNUX	PTTNR/L Lever (+Clamp)	PTFNR/L Lever (+Clamp)	PTGNR/L Lever (+Clamp)	TTGNR/L Hole Clamp	MTJNR/L Pin + Clamp	PTJNR/L Lever (+Clamp)	TTJNR/L Hole Clamp	p. 69	p. 38	p. 38	p. 38	p. 38	p. 39	p. 39	p. 39
VBMT	SVHBR/L Screw	SVVBN Screw	SVJBR/L Screw					p. 83	p. 40	p. 40	p. 40				
VCGT VCMT	SVHCR/L Screw	SVVCN Screw	SVJCR/L Screw					p. 84	p. 41	p. 41	p. 41				
VNMA VNMG	TVVNN Hole Clamp	TVJNR/L Hole Clamp						p. 73	p. 42	p. 42					
WNMA WNMG	MWLNR/L Pin + Clamp	PWLNR/L Lever (+Clamp)	TWLNR/L Hole Clamp					p. 75	p. 43	p. 43	p. 43				

Turning - Holder - Internal

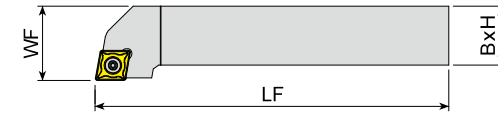
Internal Holders Overview


Series	Turning Holder								
CCGT CCMT	..SCFCR/L Screw	..SCLCR/L Screw	E..SCLCR/L Screw	p. 78	p. 44	p. 45	p. 45		
CNMA CNMG	..PCLNR/L Lever (+Clamp)	..TCLNR/L Hole Clamp		p. 60	p. 46	p. 46			
DCGT DCMT	..SDQCR/L Screw	..SDUCR/L Screw	E..SDUCR/L Screw	p. 79	p. 47	p. 48	p. 48		
DNMA DNMG	..PDQNR/L Lever (+Clamp)	..TDQNR/L Hole Clamp	..PDUNR/L Lever (+Clamp)	..TDUNR/L Hole Clamp	p. 63	p. 49	p. 49	p. 49	p. 49
SNMA SNMG	..PSKNR/L Lever (+Clamp)			p. 67	p. 50				
TCGT TCMT	..STFCR/L Screw	..STUCR/L Screw		p. 82	p. 51	p. 51			

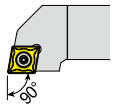
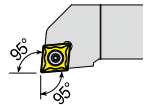
Turning - Holder - Internal
Internal Holders Overview

Series	Turning Holder			
 <p>TNMA TNMG TNUX</p> <p>p. 69</p>	 <p>..-MTFNR/L Pin + Clamp</p> <p>p. 52</p>	 <p>..-MTUNR/L Pin + Clamp</p> <p>p. 52</p>	 <p>..-PTUNR/L Lever (+Clamp)</p> <p>p. 53</p>	 <p>..-TTUNR/L Hole Clamp</p> <p>p. 53</p>
 <p>VBMT</p> <p>p. 83</p>	 <p>..-SVQBR/L Screw</p> <p>p. 54</p>	 <p>..-SVJBR/L Screw</p> <p>p. 54</p>	 <p>..-SVUBR/L Screw</p> <p>p. 54</p>	
 <p>VCGT VCMT</p> <p>p. 84</p>	 <p>..-SVQCR/L Screw</p> <p>p. 55</p>	 <p>..-SVUCR/L Screw</p> <p>p. 55</p>		
 <p>VNMA VNMG</p> <p>p. 73</p>	 <p>..-TVUNR/L Hole Clamp</p> <p>p. 56</p>			
 <p>WNMA WNMG</p> <p>p. 75</p>	 <p>..-MWLNR/L Pin + Clamp</p> <p>p. 57</p>	 <p>..-PWLNR/L Lever (+Clamp)</p> <p>p. 57</p>	 <p>..-TWLNR/L Hole Clamp</p> <p>p. 58</p>	

Turning - Holder - External
External Holders for CC Insert**



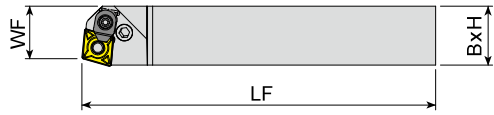
: p.78 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 <p>SCACR/L (Screw Type 90°)</p>	SCACR/L 0808E 06	0675	0676	08	08	10	70	CC0602
	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		
 <p>SCLCR/L (Screw Type 95°)</p>	SCLCR/L 1212F 09	0089	0090	12	12	16	80	CC09T3
	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	Size	Screw	Shim	Shim Screw	Torx Key
SCACR/L	..06	Y4008-M2.5x6	-	-	Y80-T08
	..06	Y4008-M2.5x6	-	-	Y80-T08
	..1010..09	Y4015-M3x9	-	-	Y80-T15
SCLCR/L	..1212..09	Y4015-M3.5x11	-	-	Y80-T15
	..1616~2525..09	Y4015-M3.5x14	YAACN-2-0001	YAAV-06-M3.5x11	Y80-T15
	..1616..12	Y1020-M5x11	-	-	Y80-T20
	..2020~2525..12	Y1020-M4.5x16	YAACN-2-0003	YAAV-07-M4.5x13	Y80-T20

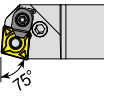
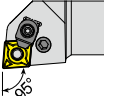
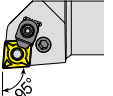
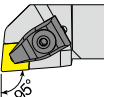
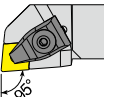
Turning - Holder - External

External Holders for CN** Insert



* 'C' Letter at Last : Optional Clamp Included

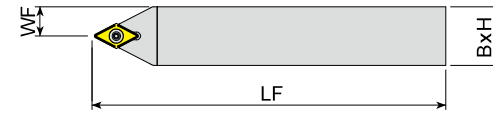
☐: p.60 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 PCBNR/L (Lever Type 75°)	PCBNR/L 2525M 16C	0444	0445	25	25	22	150	CN1606
	PCBNR/L 3232P 16C	0446	0447	32	32	27	170	
	PCBNR/L 3232P 19C	0448	0449	32	32	37	170	CN1906
	PCBNR/L 4040S 19C	0450	0451	40	40	37	250	
 PCLNR/L (Lever Type 95°)	PCLNR/L 1616H 12	0464	0465	16	16	20	100	CN1204
	PCLNR/L 2020K 12C	0466	0467	20	20	25	125	
	PCLNR/L 2525M 12C	0468	0469	25	25	32	150	CN1606
	PCLNR/L 3232P 12C	0470	0471	32	32	40	170	
 PCLNR/L (Lever Type 95°)	PCLNR/L 2525M 16C	0472	0473	25	25	32	150	CN1606
	PCLNR/L 3232P 16C	0474	0475	32	32	40	170	
	PCLNR/L 2525M 19C	0476	0477	25	25	32	150	CN1906
	PCLNR/L 3232P 19C	0478	0479	32	32	40	170	
 TCLNR/L (Hole Clamp Type 95°)	PCLNR/L 4040S 19C	0480	0481	40	40	50	250	CN1906
	TCLNR/L 2020K 12	0482	0483	20	20	25	125	
	TCLNR/L 2525M 12	0484	0485	25	25	32	150	CN1204
	TCLNR/L 3232P 12	0486	0487	32	32	40	170	
 TCLNR/L (Hole Clamp Type 95°)	TCLNR/L 2525M 16	0492	0493	25	25	32	150	CN1606
	TCLNR/L 3232P 16	0494	-	32	32	40	170	

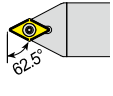
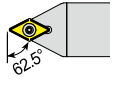
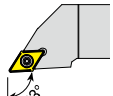
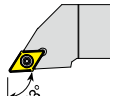
Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Shim Pin	Allen Key
PCBNR/L	..16C	YAPL-04	YALV-04-M8x22	YACK-09	YAAV-05-M6x15	-	-	YAACN-3-0002	-	YAAV-03	YAAL-03-3
	..19C	YAPL-05	YALV-05-M10x27	YACK-09	YAAV-05-M6x15	-	-	YAACN-3-0003	-	YAAV-04	YAAL-05-4
	..12	YAPL-02	YALV-03-M8x19	-	-	-	-	YAACN-3-0001	-	YAAV-02	YAAL-03-3
PCLNR/L	..2020~3232..12C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	YAACN-3-0001	-	YAAV-02	YAAL-03-3
	..16C	YAPL-04	YALV-04-M8x22	YACK-09	YAAV-05-M6x15	-	-	YAACN-3-0002	-	YAAV-03	YAAL-03-3
	..19C	YAPL-05	YALV-05-M10x27	YACK-09	YAAV-05-M6x15	-	-	YAACN-3-0003	-	YAAV-04	YAAL-05-4
TCLNR/L	..12	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAACN-3-0001	YAAV-02-M5x12	-	YAAL-03-3
	..16	-	-	YATK-04	YAKV-19-M7x25	YABPL-02	-	YAACN-3-0002	YAAV-05-M6x15	-	YAAL-05-4

Turning - Holder - External

External Holders for DC** Insert

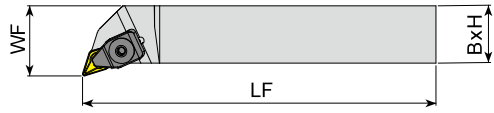


☐: p.79 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 SDNCN (Screw Type 62.5°)	SDNCN 0808E 07	0723		08	08	4	70	DC0702
	SDNCN 1010E 07	0724		10	10	5	70	
	SDNCN 1212F 07	0123		12	12	6	80	DC11T3
	SDNCN 1616H 07	0725		16	16	8	100	
 SDNCN (Screw Type 62.5°)	SDNCN 1616H 11	0124		16	16	8	100	DC11T3
	SDNCN 2020K 11	0125		20	20	10	125	
	SDNCN 2525M 11	0126		25	25	12.5	150	DC0702
	SDNCN 3232P 11	0726		32	32	16	170	
 SDJCR/L (Screw Type 93°)	SDJCR/L 0808E 07	0713	0714	08	08	10	70	DC0702
	SDJCR/L 1010E 07	0715	0716	10	10	12	70	
	SDJCR/L 1212F 07	0113	0114	12	12	16	80	DC11T3
	SDJCR/L 1616H 07	0717	0718	16	16	20	100	
 SDJCR/L (Screw Type 93°)	SDJCR/L 1616H 11	0117	0118	16	16	20	100	DC11T3
	SDJCR/L 2020K 11	0119	0120	20	20	25	125	
	SDJCR/L 2525M 11	0719	0720	25	25	32	150	
SDJCR/L 3232P 11	0721	0722	32	32	40	170		

Series	Size	Screw	Shim	Shim Screw	Torx Key
SDNCN	..07	Y4008-M2.5x6	-	-	Y80-T08
	..11	Y4015-M3.5x14	YAADN-2-0001	YAAV-06-M3.5x11	Y80-T15
SDJCR/L	..07	Y4008-M2.5x6	-	-	Y80-T08
	..11	Y4015-M3.5x14	YAADN-2-0001	YAAV-06-M3.5x11	Y80-T15

Turning - Holder - External
External Holders for DN Insert**



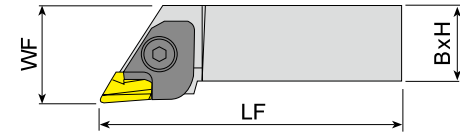
* 'C' Letter at Last : Optional Clamp Included

☐: p.63 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 TDHNR/L (Hole Clamp Type 107.5°)	TDHNR/L 2020K 15	0495	0496	20	20	25	125	DN1506
	TDHNR/L 2525M 15	0497	0498	25	25	32	150	
 PDNNN (Lever Type 62.5°)	PDNNN 2020K 15C	0515		20	20	10	125	DN1506
	PDNNN 2525M 15C	0516		25	25	12.5	150	
	PDNNN 3232P 15C	0517		32	32	16	170	
 TDNNN (Hole Clamp Type 62.5°)	TDNNN 2020K 15	0518		20	20	10	125	DN1506
	TDNNN 2525M 15	0519		25	25	12.5	150	
	TDNNN 3232P 15	0520		32	32	16	170	
 PDJNR/L (Lever Type 93°)	PDJNR/L 2020K 15C	0500	0501	20	20	25	125	DN1506
	PDJNR/L 2525M 15C	0502	0503	25	25	32	150	
	PDJNR/L 3232P 15C	0504	0505	32	32	40	170	
	PDJNR/L 4040S 15C	-	0506	40	40	50	250	
 TDJNR/L (Hole Clamp Type 93°)	TDJNR/L 2020K 15	0507	0508	20	20	25	125	DN1506
	TDJNR/L 2525M 15	0509	0510	25	25	32	150	
	TDJNR/L 3232P 15	0511	0512	32	32	40	170	
	TDJNR/L 4040S 15	0513	0514	40	40	50	250	

Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Shim Pin	Allen Key
TDHNR/L	..15	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAADN-3-0001	YAAV-02-M5x12	-	YAAL-03-3
PDNNN	..15C	YAPL-03	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	YAADN-3-0001	-	YAAV-02	YAAL-03-3
TDNNN	..15	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAADN-3-0001	YAAV-02-M5x12	-	YAAL-03-3
PDJNR/L	..15C	YAPL-03	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	YAADN-3-0001	-	YAAV-02	YAAL-03-3
TDJNR/L	..15	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAADN-3-0001	YAAV-02-M5x12	-	YAAL-03-3

Turning - Holder - External
External Holders for KN Insert**



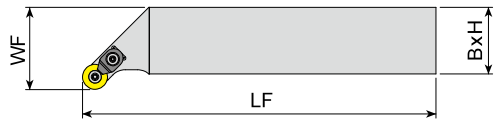
☐: p.66 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 CKJNR/L (Top Clamp Type 93°)	CKJNR/L 2525M 16	0152	0153	25	25	31.5	150	KNUX1604
	CKJNR/L 3232P 16	0154	0155	32	32	40	170	

Series	Size	Clamp	Clamp Screw	Spring	Upper Ring	Shim	Shim Screw	Allen Key
CKJNR	..16	YACK-01-R	YAKV-06-M6x20	YAKY-02	YABPL-01	YAKS-16-R	YAAV-01-M3x10	YAAL-05-4
CKJNL	..16	YACK-01-L	YAKV-06-M6x20	YAKY-02	YABPL-01	YAKS-16-L	YAAV-01-M3x10	YAAL-05-4

Turning - Holder - External

External Holders for RC** Insert



* 'C' Letter at Last : Optional Clamp Included

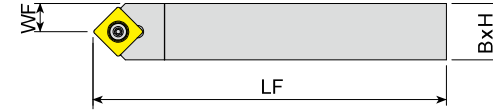
□: p.80 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
SRGCR/L (Screw Type 90°)	SRGCR/L 1616H 06	0739	0740	16	16	20	100	RC0602
	SRGCR/L 2020K 06	0741	0742	20	20	25	125	
	SRGCR/L 1616H 08C	0743	0744	16	16	32	100	RC0803
	SRGCR/L 2020K 08C	0745	0746	20	20	25	125	
	SRGCR/L 2525M 08C	0747	0748	25	25	32	150	RC10T3
	SRGCR/L 1616H 10C	0749	0750	16	16	20	100	
	SRGCR/L 2020K 10C	0751	0752	20	20	25	125	RC1204
	SRGCR/L 2525M 10C	0753	0754	25	25	32	150	
	SRGCR/L 3232P 10C	0755	0756	32	32	40	170	RC1204
	SRGCR/L 2020K 12C	0757	0758	20	20	25	125	
SRDCN (Screw Type 90°)	SRDCN 1616H 06	0162		16	16	8	100	RC0602
	SRDCN 2020K 06	0163		20	20	10	125	
	SRDCN 2525M 06	0164		25	25	12.5	150	RC0803
	SRDCN 1616H 08C	0727		16	16	8	100	
	SRDCN 2020K 08C	0728		20	20	10	125	RC10T3
	SRDCN 2525M 08C	0729		25	25	12.5	150	
	SRDCN 1616H 10C	0730		16	16	8	100	RC1204
	SRDCN 2020K 10C	0731		20	20	10	125	
	SRDCN 2525M 10C	0732		25	25	12.5	150	RC1204
	SRDCN 3232P 10C	0733		32	32	16	170	
SRDCN 2020K 12C	0734		20	20	10	125		
SRDCN 2525M 12C	0735		25	25	12.5	150		
SRDCN 3232P 12C	0736		32	32	16	170		

Series	Size	Clamp	Clamp Screw	Screw	Torx Key
SRGCR/L	..06	-	-	Y3008-M2.5x6	Y80-T08
	..1616..08C	YACK-15	Y4015-M3.5x11	Y3008-M3x8	Y80-T08
	..10C	YACK-15	Y4015-M3.5x11	Y3008-M3x8	Y80-T15
	..12C	YACK-05	Y4015-M4x11	Y4015-M3.5x11	Y80-T15
SRDCN	..06	-	-	Y3008-M2.5x6	Y80-T08
	..08C	YACK-15	Y4015-M3.5x11	Y3008-M3x8	Y80-T08
	..10C	YACK-15	Y4015-M3.5x11	Y4015-M3.5x11	Y80-T15
	..12C	YACK-05	Y4015-M4x11	Y4015-M3.5x11	Y80-T15

Turning - Holder - External

External Holders for SC** Insert



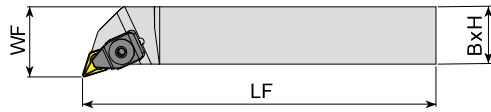
□: p.81 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
SSDCN (Screw Type 45°)	SSDCN 1212F 09	0148		12	12	6	80	SC09T3
	SSDCN 1616H 09	0149		16	16	8	100	
	SSDCN 2020K 09	0770		20	20	10	125	SC1204
	SSDCN 1616H 12	0771		16	16	8	100	
	SSDCN 2020K 12	0150		20	20	10	125	SC1204
	SSDCN 2525M 12	0151		25	25	12.5	150	
SSSCR/L (Screw Type 45°)	SSSCR/L 1212F 09	0772	0773	12	12	16	80	SC09T3
	SSSCR/L 1616H 09	0774	0775	16	16	20	100	
	SSSCR/L 2020K 09	0776	0777	20	20	25	125	SC1204
	SSSCR/L 1616H 12	0778	0779	16	16	20	100	
	SSSCR/L 2020K 12	0780	0781	20	20	25	125	SC1204
	SSSCR/L 2525M 12	0782	0783	25	25	32	150	

Series	Size	Screw	Shim	Shim Screw	Torx Key
SSDCN	..1212..09	Y4015-M3.5x11	-	-	Y80-T15
	..1616~2020..09	Y4015-M3.5x14	YAASN-2-0001	YAAV-06-M3.5x11	Y80-T15
	..1616..12	Y4020-M4.5x12	YAASN-2-0004	YAAV-10-M4.5x8	Y80-T20
	..2020~2525..12	Y1020-M4.5x16	YAASN-2-0004	YAAV-07-M4.5x13	Y80-T20
SSSCR/L	..1212..09	Y4015-M3.5x11	-	-	Y80-T15
	..1616~2020..09	Y4015-M3.5x14	YAASN-2-0001	YAAV-06-M3.5x11	Y80-T15
	..1616..12	Y4020-M4.5x12	YAASN-2-0004	YAAV-10-M4.5x8	Y80-T20
	..2020~2525..12	Y1020-M4.5x16	YAASN-2-0004	YAAV-07-M4.5x13	Y80-T20

Turning - Holder - External

External Holders for SN** Insert



* 'C' Letter at Last : Optional Clamp Included

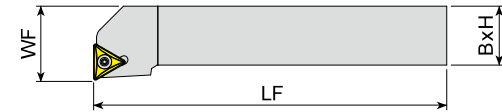
☐: p.67 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert	
		R	L						
 PSDNN (Lever Type 45°)	PSDNN 2020K 12C	0530		20	20	10	125	SN1204	
	PSDNN 2525M 12C	0531		25	25	12.5	150		
	PSDNN 3232P 12C	0532		32	32	16	170		
 TSDNN (Hole Clamp Type 45°)	TSDNN 1616H 12	0533		16	16	8	100	SN1204	
	TSDNN 2020K 12	0534		20	20	10	125		
	TSDNN 2525M 12	0535		25	25	12.5	150		
 TSDNN 3232P 12	TSDNN 3232P 12	0536		32	32	16	170		
	 PSSNR/L (Lever Type 45°)	PSSNR/L 2020K 12C	0548	0549	20	20	25	125	SN1204
		PSSNR/L 2525M 12C	0550	0551	25	25	32	150	
PSSNR/L 3232P 12C		0552	0553	32	32	40	170		
 TSSNR/L (Hole Clamp Type 45°)	TSSNR/L 2020K 12	0554	0555	20	20	25	125	SN1204	
	TSSNR/L 2525M 12	0556	0557	25	25	32	150		
	TSSNR/L 3232P 12	0558	0559	32	32	40	170		
 PSBNR/L (Lever Type 75°)	PSBNR/L 2020K 12	0430	0525	20	20	17	125	SN1204	
	PSBNR/L 2525M 12C	0526	0527	25	25	22	150		
 PSKNR/L (Lever Type 75°)	PSKNR/L 2020K 12C	0537		20	20	25	125	SN1204	
	PSKNR/L 2525M 12C	0538	0539	25	25	32	150		
	PSKNR/L 3232P 12C	0540	0541	32	32	40	170		
 TSKNR/L (Hole Clamp Type 75°)	TSKNR/L 2020K 12	0542	0543	20	20	25	125	SN1204	
	TSKNR/L 2525M 12	0544	0545	25	25	32	150		
	TSKNR/L 3232P 12	0546	0547	32	32	40	170		

Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Shim Pin	Allen Key
PSDNN	..12C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	YAASN-3-0004	-	YAAY-02	YAAL-03-3
TSDNN	..12	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAASN-3-0004	YAAV-02-M5x12	-	YAAL-03-3
PSSNR/L	..12C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	YAASN-3-0004	-	YAAY-02	YAAL-03-3
TSSNR/L	..12	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAASN-3-0004	YAAV-02-M5x12	-	YAAL-03-3
PSBNR/L	..12	YAPL-02	YALV-03-M8x19	-	-	-	-	YAASN-3-0004	-	YAAY-02	YAAL-03-3
PSKNR/L	..12C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	YAASN-3-0004	-	YAAY-02	YAAL-03-3
TSKNR/L	..12	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAASN-3-0004	YAAV-02-M5x12	-	YAAL-03-3

Turning - Holder - External

External Holders for TC** Insert

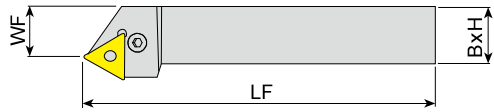


☐: p.82 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 STFCR/L (Screw Type 90°)	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	
 STFCR/L 2020K 16	STFCR/L 2020K 16	0107	0108	20	20	25	125	TC16T3
	STFCR/L 2525M 16	0109	0110	25	25	32	150	
	STFCR/L 3232P 16	0784	0785	32	32	40	170	
 STGCR/L (Screw Type 90°)	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	
 STGCR/L 2020K 16	STGCR/L 2020K 16	0434	0791	20	20	25	125	TC16T3
	STGCR/L 2525M 16	0792	0793	25	25	32	150	
	STGCR/L 3232P 16	0794	0795	32	32	40	170	
 STJCR/L (Screw Type 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	
 STJCR/L 2020K 16	STJCR/L 2020K 16	0802	0803	20	20	25	125	TC16T3
	STJCR/L 2525M 16	0804	0805	25	25	32	150	
	STJCR/L 3232P 16	0806	0807	32	32	40	170	
 STUCR/L (Screw Type 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	
 STUCR/L 2525M 16	STUCR/L 2525M 16	0814	0815	25	25	32	150	TC16T3
	STUCR/L 3232P 16	0816	0817	32	32	40	170	

Series	Size	Screw	Shim	Shim Screw	Torx Key
STFCR/L	..11	Y4008-M2.5x6	-	-	Y80-T08
	..16	Y4015-M3.5x14	YAATN-2-0001	YAAV-06-M3.5x11	Y80-T15
STGCR/L	..11	Y4008-M2.5x6	-	-	Y80-T08
	..16	Y4015-M3.5x14	YAATN-2-0001	YAAV-06-M3.5x11	Y80-T15
STJCR/L	..11	Y4008-M2.5x6	-	-	Y80-T08
	..16	Y4015-M3.5x14	YAATN-2-0001	YAAV-06-M3.5x11	Y80-T15
STUCR/L	..11	Y4008-M2.5x6	-	-	Y80-T08
	..16	Y4015-M3.5x14	YAATN-2-0001	YAAV-06-M3.5x11	Y80-T15

Turning - Holder - External
External Holders for TN Insert**



* 'C' Letter at Last : Optional Clamp Included

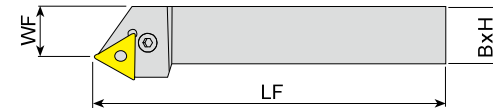
☐ : p.69 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 PTTNR/L (Lever Type 60°)	PTTNR/L 2020K 16	0429	0621	20	20	17	125	TN1604
	PTTNR/L 2525M 16	0622	0623	25	25	21.5	150	TN2204
	PTTNR/L 2525M 22C	0626	0627	25	25	20.5	150	
	PTTNR/L 3232P 22C	0628	0629	32	32	29	170	
 PTFNR/L (Lever Type 90°)	PTFNR/L 1616H 16	0560	0561	16	16	20	100	TN1604
	PTFNR/L 2020K 16	0049	0050	20	20	25	125	
	PTFNR/L 2525M 16	0051	0052	25	25	32	150	
	PTFNR/L 3232P 16	0562	0563	32	32	40	170	TN2204
 PTGNR/L (Lever Type 90°)	PTGNR/L 1616H 16	0568	0569	16	16	20	100	TN1604
	PTGNR/L 2020K 16	0055	0056	20	20	25	125	
	PTGNR/L 2525M 16	0057	0058	25	25	32	150	
	PTGNR/L 2525M 22C	0570	0571	25	25	32	150	TN2204
 TTGNR/L (Hole Clamp Type 90°)	PTGNR/L 3232P 22C	0572	0573	32	32	40	170	TN1604
	TTGNR/L 2020K 16	0574	0575	20	20	25	125	
	TTGNR/L 2525M 16	0576	0577	25	25	32	150	
	TTGNR/L 3232P 16	0578	0579	32	32	40	170	TN2204
	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	

▶ NEXT PAGE

Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Shim Screw	Shim Pin	Allen Key
PTTNR/L	..16	YAPL-01	YALV-02-M6x17	-	-	-	-	-	YAATN-3-0025	-	YAAY-01	YAAL-02-2.5
	..22C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	-	YAATN-3-0015	-	YAAY-02	YAAL-03-3
PTFNR/L	..16	YAPL-01	YALV-02-M6x17	-	-	-	-	-	YAATN-3-0025	-	YAAY-01	YAAL-02-2.5
	..22C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	-	YAATN-3-0015	-	YAAY-02	YAAL-03-3
PTGNR/L	..16	YAPL-01	YALV-02-M6x17	-	-	-	-	-	YAATN-3-0025	-	YAAY-01	YAAL-02-2.5
	..22C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	-	YAATN-3-0015	-	YAAY-02	YAAL-02-2.5
TTGNR/L	..16	-	-	YATK-01	YAKV-01-M5x22	YABPL-01	-	-	YAATN-2-0002	YAAY-03-M5x12	-	YAAL-03-3
	..22	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	-	YAATN-3-0015	YAAY-02-M5x12	-	YAAL-03-3

Turning - Holder - External
External Holders for TN Insert**

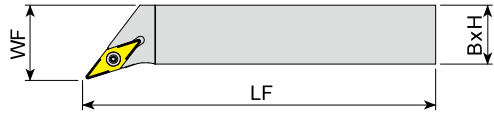


* 'C' Letter at Last : Optional Clamp Included

☐ : p.69 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 MTJNR/L (Pin + Top Clamp Type 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	
 PTJNR/L (Lever Type 93°)	MTJNR/L 4040S 22	0595	0596	40	40	50	250	TN1604
	PTJNR/L 1616H 16	0597	0598	16	16	20	100	
	PTJNR/L 2020K 16	0599	0600	20	20	25	125	
	PTJNR/L 2525M 16	0601	0602	25	25	32	150	
	PTJNR/L 3232P 16	0603	0604	32	32	40	170	
 TTJNR/L (Hole Clamp Type 93°)	PTJNR/L 2525M 22C	0605	0606	25	25	32	150	TN2204
	PTJNR/L 3232P 22C	0607	0608	32	32	40	170	
	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	

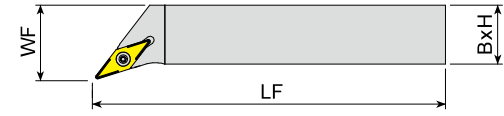
Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Shim Screw	Shim Pin	Allen Key
MTJNR/L	..16	-	-	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-01	YAATN-2-0002	-	-	YAAL-03-3
	..22	-	-	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-02	YAATN-3-0015	-	-	YAAL-03-3
PTJNR/L	..16	YAPL-01	YALV-02-M6x17	-	-	-	-	-	YAATN-3-0025	-	YAAY-01	YAAL-02-2.5
	..22C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	-	YAATN-3-0015	-	YAAY-02	YAAL-03-3
TTJNR/L	..16	-	-	YATK-01	YAKV-01-M5x22	YABPL-01	-	-	YAATN-2-0002	YAAY-03-M5x12	-	YAAL-03-3
	..22	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	-	YAATN-3-0015	YAAY-02-M5x12	-	YAAL-03-3

External Holders for VB Insert**


□: p.83 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 SVHBR/L (Screw Type 107.5°)	SVHBR/L 2020K 16	0818	0819	20	20	25	125	VB1604
	SVHBR/L 2525M 16	0820	0821	25	25	32	150	
	SVHBR/L 3232P 16	0822	0823	32	32	40	170	
 SVVBN (Screw Type 72.5°)	SVVBN 2020K 16	0131		20	20	10	125	VB1604
	SVVBN 2525M 16	0132		25	25	12.5	150	
	SVVBN 3232P 16	0827		32	32	16	170	
 SVJBR/L (Screw Type 93°)	SVJBR/L 1616H 16	0824	0825	16	16	20	100	VB1604
	SVJBR/L 2020K 16	0127	0128	20	20	25	125	
	SVJBR/L 2525M 16	0129	0130	25	25	32	150	
	SVJBR/L 3232P 16	0436	0826	32	32	40	170	

Series	Size	Screw	Shim	Shim Screw	Torx Key
SVHBR/L	..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
SVVBN	..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
SVJBR/L	..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15

External Holders for VC Insert**


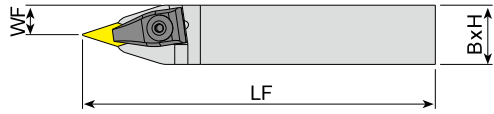
□: p.84 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 SVHCR/L (Screw Type 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 (Screw Type 72.5°)	SVVCN 2525M 16	0147		25	25	12.5	150	VC1604
	SVVCN 3232P 16	0838		32	32	16	170	
 SVJCR/L (Screw Type 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	

Series	Size	Screw	Shim	Shim Screw	Torx Key
SVHCR/L	..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
SVVCN	..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
SVJCR/L	..1212..16	Y4015-M3.5x11	-	-	Y80-T15
	..2020-3232..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15

Turning - Holder - External

External Holders for VN** Insert



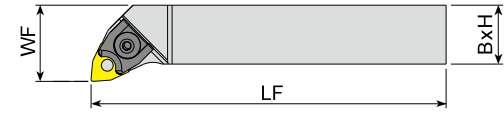
: p.73 unit:mm

Series	Designation	EDP 2700..		H	B	WF	LF	Insert
		R	L					
 TVVNN (Hole Clamp Type 72.5°)	TVVNN 2020K 16	0642		20	20	10	125	VN1604
	TVVNN 2525M 16	0643		25	25	12.5	150	
	TVVNN 3232P 16	0644		32	32	16	170	
 TVJNR/L (Hole Clamp Type 93°)	TVJNR/L 2020K 16	0636	0637	20	20	25	125	VN1604
	TVJNR/L 2525M 16	0638	0639	25	25	32	150	
	TVJNR/L 3232P 16	0640	0641	32	32	40	170	

Series	Size	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Allen Key
TVVNN	.16	YATK-03	YAKV-30-M6x22	YABPL-01	YAS-01	YAAVN-2-0002	YAAV-04-M5x12	YAAL-03-3
TVJNR/L	.16	YATK-03	YAKV-30-M6x22	YABPL-01	YAS-01	YAAVN-2-0002	YAAV-04-M5x12	YAAL-03-3

Turning - Holder - External

External Holders for WN** Insert



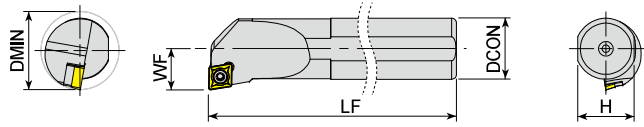
: p.75 unit:mm

* 'C' Letter at Last : Optional Clamp Included

Series	Designation	EDP 2700..		H	B	WF	LF	Insert	
		R	L						
 MWLNR/L (Pin + Top Clamp Type 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		
 MWLNR/L (Lever Type 95°)	MWLNR/L 2525M 08	0027	0028	25	25	32	150	WN0804	
	MWLNR/L 3232P 08	0029	0030	32	32	40	170		
	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			
 PWLNR/L (Lever Type 95°)	PWLNR/L 2020K 08C	0655	0656	20	20	25	125	WN0804	
	PWLNR/L 2525M 08C	0657	0658	25	25	32	150		
	PWLNR/L 3232P 08C	0659	0660	32	32	40	170		
	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			

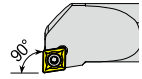
Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Shim Screw	Shim Pin	Allen Key
MWLNR/L	.06	-	-	YAMK-01	YAKV-04-M5x17	-	-	YAPM-08	-	-	-	YAAL-03-3
	.08	-	-	YAMK-05	YAKV-03-M6x22	YABPL-01	YAS-01	YAPM-02	YAAVN-3-0001	-	-	YAAL-03-3
PWLNR/L	.06	YAPL-01	YALV-02-M6x17	-	-	-	-	-	YAAVN-SW317	-	YAAV-01	YAAL-02-25
	.08	YAPL-02	YALV-03-M8x19	-	-	-	-	-	YAAVN-3-0001	-	YAAV-02	YAAL-03-3
TWLNR/L	.08C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	-	YAAVN-3-0001	-	YAAV-02	YAAL-03-3
	.06	-	-	YATK-01	YAKV-01-M5x22	YABPL-01	-	-	YAAVN-SW317	YAAV-01-M3x10	-	YAAL-03-3
TWLNR/L	.08	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	-	YAAVN-3-0001	YAAV-02-M5x12	-	YAAL-03-3

Turning - Holder - Internal
Internal Holders for CC Insert**



: p.78 unit:mm

Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert
	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	
	S12K-SCFCR/L 09	1108 1109	16	12	11	9	125	CC09T3
X	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	CC1204
X	S25S-SCFCR/L 12	1116 -	32	25	23	17	250	

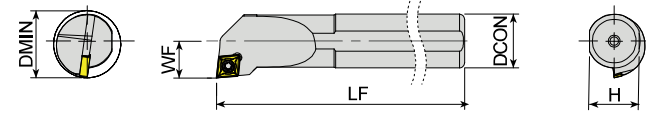


..SCFCR/L
 (Screw Type 90°)

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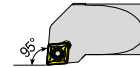
Series	Size	Screw	Shim	Shim Screw	Torx Key
..SCFCR/L	..06	Y4008-M2.5x6	-	-	Y80-T08
	..12..09	Y4015-M3.5x8	-	-	Y80-T15
	..16~20..09	Y4015-M3.5x9	-	-	Y80-T15
	..25..09	Y4015-M3.5x12	YAACN-2-0001	YAAV-08-M3.5x8	Y80-T15
	..12	Y4020-M4.5x12	YAACN-2-0003	YAAV-10-M4.5x8	Y80-T20

Turning - Holder - Internal
Internal Holders for CC Insert**

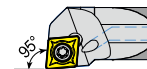


: p.78 unit:mm

Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert
	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	
	S08H-SCLCR/L 06	1133 1134	11	08	7.3	6	100	CC0602
X	S10K-SCLCR/L 06	1135 1136	13	10	9	7	125	
	S12K-SCLCR/L 06	1137 1138	16	12	11	9	125	
	S16P-SCLCR/L 06	1139 1140	20	16	14.8	11	170	CC09T3
	A16M-SCLCR/L 09	1123 1124	20	16	14.8	11	150	
●	A20P-SCLCR/L 09	1125 1126	25	20	18.3	13	170	
	A25R-SCLCR/L 09	1127 1128	32	25	23	17	200	CC09T3
	A32S-SCLCR/L 09	1129 1130	40	32	30	22	250	
	S12K-SCLCR/L 09	1141 1142	16	12	11	9	125	
	S16P-SCLCR/L 09	- 1143	20	16	14.8	11	170	CC09T3
X	S20R-SCLCR/L 09	1144 1145	25	20	18.3	13	200	
	S25S-SCLCR/L 09	1146 1147	32	25	23	17	250	
	S32T-SCLCR/L 09	1148 1149	40	32	30	22	300	CC1204
●	A25R-SCLCR/L 12	1131 1132	32	25	23	17	200	
	S25S-SCLCR/L 12	1150 1151	32	25	23	17	250	
X	S32T-SCLCR/L 12	1152 1153	40	32	30	22	300	CC1204
	S40U-SCLCR/L 12	1154 1155	50	40	37.5	27	350	
	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	



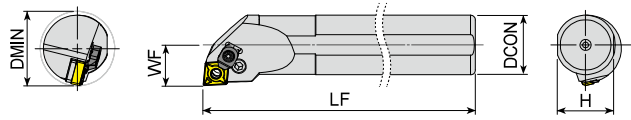
..SCLCR/L
 (Screw Type 95°)



E..SCLCR/L
 (Screw Type 95°
 Carbide)

Series	Size	Screw	Shim	Shim Screw	Torx Key
..SCLCR/L	..06	Y4008-M2.5x6	-	-	Y80-T08
	..12..09	Y4015-M3.5x8	-	-	Y80-T15
	..16~20..09	Y4015-M3.5x9	-	-	Y80-T15
	..25~32..09	Y4015-M3.5x12	YAACN-2-0001	YAAV-08-M3.5x8	Y80-T15
	..25~32..12	Y4020-M4.5x12	YAACN-2-0003	YAAV-10-M4.5x8	Y80-T20
	..40..12	Y1020-M4.5x16	YAACN-2-0003	YAAV-07-M4.5x13	Y80-T20
E..SCLCR/L	..06	Y4008-M2.5x6	-	-	Y80-T08
	..09	Y4015-M3.5x9	-	-	Y80-T15

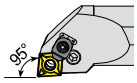
Turning - Holder - Internal
Internal Holders for CN Insert**



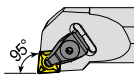
* 'C' Letter at Last : Optional Clamp Included

□: p.60 unit:mm

Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert	
●	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		
	S25S-PCLNR/L 12C	0863 0864	32	25	23	17	250		
	S32T-PCLNR/L 12C	0865 0866	40	32	30	22	300		
	S40U-PCLNR/L 12C	0867 0868	50	40	37.5	27	350		
	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			
S32T-PCLNR/L 16C	0871 0872	40	32	30	22	300			
X	S40U-PCLNR/L 16C	0873 0874	50	40	37.5	27	350	CN1906	
X	S50V-PCLNR/L 16C	0875 0876	63	50	47	35	400		
●	A40T-PCLNR/L 19C	0853 0854	50	40	37.5	27	300		
●	A50U-PCLNR/L 19C	0855 0856	63	50	47	35	350	CN1906	
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		
●	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		
	S32T-TCLNR/L 16	0889 0890	40	32	30	22	300		
	S40U-TCLNR/L 16	0891 0892	50	40	37.5	27	350		CN1606
S50V-TCLNR/L 16	0893 0894	63	50	47	35	400			



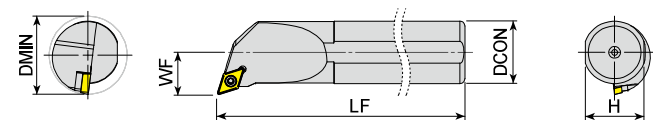
..PCLNR/L
(Lever Type 95°)



..TCLNR/L
(Hole Clamp Type 95°)

Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Shim Pin	Allen Key
..PCLNR/L	..25..12C	YAPL-02	YALV-08-M8x16	YACK-05	YA015-M4x11	-	-	YAACN-3-0001	-	YAAY-02	YAAL-03-3
	..32~50..12C	YAPL-02	YALV-03-M8x19	YACK-05	YA015-M4x11	-	-	YAACN-3-0001	-	YAAY-02	YAAL-03-3
	..16C	YAPL-04	YALV-04-M8x22	YACK-09	YAAV-05-M6x15	-	-	YAACN-3-0002	-	YAAY-03	YAAL-03-3
	..19C	YAPL-05	YALV-05-M10x27	YACK-09	YAAV-05-M6x15	-	-	YAACN-3-0003	-	YAAY-04	YAAL-05-4
..TCLNR/L	..25..12	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAACN-3-0001	YAAV-13-M5x8	-	YAAL-03-3
	..32~50..12	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAACN-3-0001	YAAV-02-M5x12	-	YAAL-03-3
	..16	-	-	YATK-04	YAKV-19-M7x25	YABPL-02	-	YAACN-3-0002	YAAV-05-M6x15	-	YAAL-05-4
		-	-	YATK-04	YAKV-19-M7x25	YABPL-02	-	YAACN-3-0002	YAAV-05-M6x15	-	YAAL-05-4

Turning - Holder - Internal
Internal Holders for DC Insert**



□: p.79 unit:mm

Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert	
●	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		
	S10K-SDQCR/L 07	1188 1189	13	10	9	7	125		
	S12K-SDQCR/L 07	1190 1191	16	12	11	9	125		
	S16P-SDQCR/L 07	1192 1193	20	16	14.8	11	170		
	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			
S16P-SDQCR/L 11	1196 1197	20	16	14.8	11	170			
S20R-SDQCR/L 11	1198 1199	25	20	18.3	13	200			
X	S25S-SDQCR/L 11	1200 1201	32	25	23	17	250	DC11T3	
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		



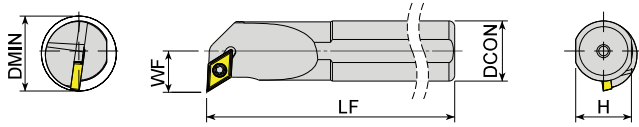
..SDQCR/L
(Screw Type 107.5°)

▶ NEXT PAGE

Series	Size	Screw	Shim	Shim Screw	Torx Key
..SDQCR/L	..07	Y4008-M2.5x6	-	-	Y80-T08
	..16..11	Y4015-M3.5x9	-	-	Y80-T15
	..20..11	Y4015-M3.5x11	-	-	Y80-T15
	..25..11	Y4015-M3.5x12	YAADN-2-0001	YAAV-08-M3.5x8	Y80-T15
	..32..11	Y4015-M3.5x14	YAADN-2-0001	YAAV-06-M3.5x11	Y80-T15

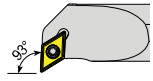
Turning - Holder - Internal

Internal Holders for DC** Insert

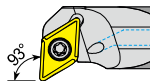


: p.79 unit:mm

Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert	
DC0702	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		
	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		
	A20P-SDUCR/L 11	1216 1217	25	20	18.3	13	170		
DC11T3	A25R-SDUCR/L 11	1218 1219	32	25	23	17	200	DC11T3	
	A32S-SDUCR/L 11	1220 1221	40	32	30	22	250		
	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		
	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			



..SDUCR/L
(Screw Type 93°)

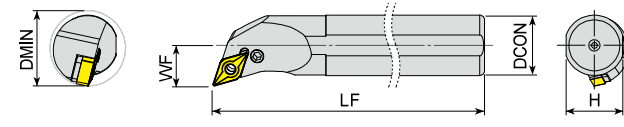


E..SDUCR/L
(Screw Type 93° Carbide)

Series	Size	Screw	Shim	Shim Screw	Torx Key
..SDUCR/L	..07	Y4008-M2.5x6	-	-	Y80-T08
	..16.11	Y4015-M3.5x9	-	-	Y80-T15
	..20.11	Y4015-M3.5x11	-	-	Y80-T15
	..25.11	Y4015-M3.5x12	YAADN-2-0001	YAAV-08-M3.5x8	Y80-T15
	..32.11	Y4015-M3.5x14	YAADN-2-0001	YAAV-06-M3.5x11	Y80-T15
E..SDUCR/L	..07	Y4008-M2.5x6	-	-	Y80-T08
	..11	Y4015-M3.5x9	-	-	Y80-T15

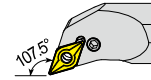
Turning - Holder - Internal

Internal Holders for DN** Insert

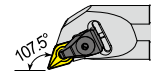


: p.63 unit:mm

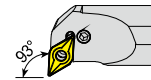
Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert
..PDQNR/L (Lever Type 107.5°)	A32S-PDQNR/L 1504	0895 -	40	32	30	22	250	DN1504
	A40T-PDQNR/L 1504	0896 -	50	40	37.5	27	300	
	S32T-PDQNR/L 1504	0903 -	40	32	30	22	300	
	S40U-PDQNR/L 1504	0904 -	50	40	37.5	27	350	
	S50V-PDQNR/L 1504	0905 -	63	50	47	35	400	
..TDQNR/L (Hole Clamp Type 107.5°)	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	
	S32T-PDQNR/L 15	0906 0907	40	32	30	22	300	
	S40U-PDQNR/L 15	0908 0909	50	40	37.5	27	350	
..PDUNR/L (Lever Type 93°)	S50V-PDQNR/L 15	0910 0911	63	50	47	35	400	DN1506
	S25S-TDQNR/L 15	0912 0913	32	25	23	17	250	
	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 (Hole Clamp Type 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	
	S32T-PDUNR/L 15	0936 0937	40	32	30	22	300	
	S40U-PDUNR/L 15	0938 0939	50	40	37.5	27	350	
..TDUNR/L (Hole Clamp Type 93°)	S50V-PDUNR/L 15	0940 0941	63	50	47	35	400	DN1506
	S25S-TDUNR/L 15	0942 0943	34	25	23	17	250	
	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	



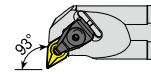
..PDQNR/L
(Lever Type 107.5°)



..TDQNR/L
(Hole Clamp Type 107.5°)



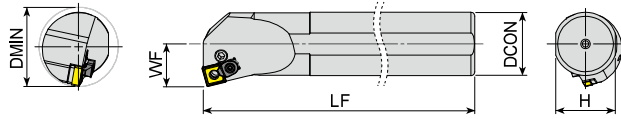
..PDUNR/L
(Lever Type 93°)



..TDUNR/L
(Hole Clamp Type 93°)

Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Shim	Shim Screw	Shim Pin	Allen Key
..PDQNR/L	..15	YAPL-03	YALV-03-M8x19	-	-	-	-	YAADN-3-0001	-	YAAY-02	YAAL-03-3
	..1504	YAPL-03	YALV-03-M8x19	-	-	-	-	YAADN-2-0003	-	YAAY-02	YAAL-03-3
..PDUNR/L	..25.15	YAPL-03	YALV-08-M8x16	-	-	-	-	YAADN-3-0001	-	YAAY-02	YAAL-03-3
	..32-50.15	YAPL-03	YALV-03-M8x19	-	-	-	-	YAADN-3-0001	-	YAAY-02	YAAL-03-3
..TDQNR/L	..25.15	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	-	YAADN-3-0001	YAAV-13-M5x8	-	YAAL-03-3
	..32-50.15	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAADN-3-0001	YAAV-02-M5x12	-	YAAL-03-3
..TDUNR/L	..25.15	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAADN-3-0001	YAAV-13-M5x8	-	YAAL-03-3
	..32-50.15	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	YAADN-3-0001	YAAV-02-M5x12	-	YAAL-03-3

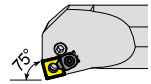
Turning - Holder - Internal
Internal Holders for SN Insert**



* 'C' Letter at Last : Optional Clamp Included

☐ : p.67 unit:mm

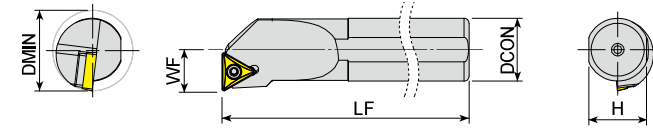
Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert
X	S255-PSKNR/L 12C	0958 0959	32	25	23	17	250	SN1204
	S32T-PSKNR/L 12C	0960 0961	40	32	30	22	300	



..PSKNR/L
 (Lever Type 75°)

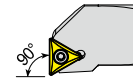
Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Shim	Shim Pin	Allen Key
..PSKNR/L	..25..12C	YAPL-02	YALV-08-M8x16	YACK-05	Y4015-M4x11	YAASN-3-0004	YAAY-02	YAAL-03-3
	..32..12C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	YAASN-3-0004	YAAY-02	YAAL-03-3

Turning - Holder - Internal
Internal Holders for TC Insert**

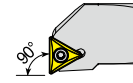


☐ : p.82 unit:mm

Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert	
X	S12K-STFCR/L 11	1264 1265	17	12	11	9	125	TC1102	
	S16P-STFCR/L 11	1266 1267	20	16	14.8	11	170		
	S20R-STFCR/L 11	1268 1269	25	20	18.3	13	200		
	X	S16P-STFCR/L 16	1270 1271	20	16	14.8	11	170	TC16T3
		S20R-STFCR/L 16	1272 1273	25	20	18.3	13	200	
		S255-STFCR/L 16	1274 1275	32	25	23	17	250	
S32T-STFCR/L 16		1276 1277	40	32	30	22	300		
S40U-STFCR/L 16	1278 -	50	40	37.5	27	350			
X	S12K-STUCR/L 11	1279 1280	17	12	11	9	125	TC1102	
	S16P-STUCR/L 11	1281 1282	20	16	14.8	11	170		
	S20R-STUCR/L 11	1283 1284	25	20	18.3	13	200		
	X	S16P-STUCR/L 16	1285 1286	20	16	14.8	11	170	TC16T3
		S20R-STUCR/L 16	1287 1288	25	20	18.3	13	200	
		S255-STUCR/L 16	1289 1290	32	25	23	17	250	
S32T-STUCR/L 16		1291 1292	40	32	30	22	300		
S40U-STUCR/L 16	1293 1294	50	40	37.5	27	350			



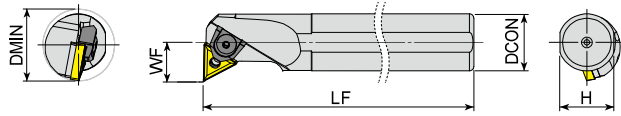
..STFCR/L
 (Screw Type 90°)



..STUCR/L
 (Screw Type 93°)

Series	Size	Screw	Shim	Shim Screw	Torx Key
..STFCR/L	..12~20..11	Y4008-M2.5x6	-	-	Y80-T08
	..16..16	Y4015-M3.5x9	-	-	Y80-T15
	..20..16	Y4015-M3.5x11	-	-	Y80-T15
	..25..16	Y4015-M3.5x14	YAATN-2-0001	YAAV-08-M3.5x8	Y80-T15
	..32~40..16	Y4015-M3.5x14	YAATN-2-0001	YAAV-06-M3.5x11	Y80-T15
..STUCR/L	..11	Y4008-M2.5x6	-	-	Y80-T08
	..16..16	Y4015-M3.5x9	-	-	Y80-T15
	..20..16	Y4015-M3.5x11	-	-	Y80-T15
	..25..16	Y4015-M3.5x14	YAATN-2-0001	YAAV-08-M3.5x8	Y80-T15
	..32~40..16	Y4015-M3.5x14	YAATN-2-0001	YAAV-06-M3.5x11	Y80-T15

Internal Holders for TN Insert**



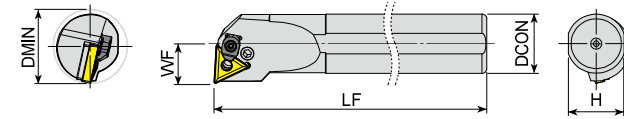
: p.69 unit:mm

Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert
 ..-MTFNR/L (Pin + Top Clamp Type 90°)	X S20R - MTFNR/L 16	0972 -	25	20	18.3	14	200	TN1604
	S25S - MTFNR/L 16	0973 0974	32	25	23	17	250	
	X 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	
 ..-MTUNR/L (Pin + Top Clamp Type 93°)	X S40U - MTFNR/L 22	0981 0982	50	40	37.5	27	350	TN2204
	S50V - MTFNR/L 22	0983 -	63	50	47	35	400	
	S20R - MTUNR/L 16	0998 0999	25	20	18.3	13	200	TN1604
	X 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		

▶ NEXT PAGE

Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Shim Screw	Shim Pin	Allen Key
..MTFNR/L	..20-16	-	-	YAMK-02	YAKV-17-M5x15	-	-	YAPM-03	-	-	-	YAAL-03-3
	..25-16	-	-	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-14	YAATN-2-0002	-	-	YAAL-03-3
	..32-40-16	-	-	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-01	YAATN-2-0002	-	-	YAAL-03-3
	..22	-	-	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-02	YAATN-3-0015	-	-	YAAL-03-3
..MTUNR/L	..20-16	-	-	YAMK-02	YAKV-17-M5x15	-	-	YAPM-03	-	-	-	YAAL-03-3
	..25-16	-	-	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-14	YAATN-2-0002	-	-	YAAL-03-3
	..32-50-16	-	-	YAMK-04	YAKV-30-M6x22	YABPL-01	YAS-01	YAPM-01	YAATN-2-0002	-	-	YAAL-03-3

Internal Holders for TN Insert**

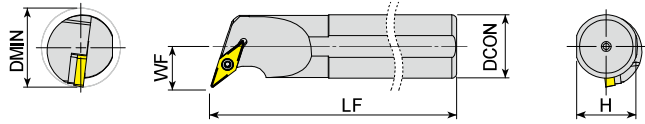


: p.69 unit:mm


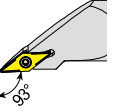

* 'C' Letter at Last : Optional Clamp Included

Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert
 ..-PTUNR/L (Lever Type 93°)	S16P - PTUNR/L 16	1014 1015	20	16	14.8	11	170	TN1604
	X S20R - PTUNR/L 16	1016 1017	25	20	18.3	13	200	
	S25S - PTUNR/L 16C	1018 1019	32	25	23	17	250	
	X S32T - PTUNR/L 16C	1020 1021	40	32	30	22	300	
	S40U - PTUNR/L 16C	1022 1023	50	40	37.5	27	350	
 ..-TTUNR/L (Hole Clamp Type 93°)	X S32T - PTUNR/L 22C	1024 1025	40	32	30	22	300	TN2204
	S40U - PTUNR/L 22C	1026 1027	50	40	37.5	27	350	
	S50V - PTUNR/L 22C	1028 1029	63	50	47	35	400	
	X S25S - TTUNR/L 16	1030 1031	32	25	23	17	250	TN1604
	S32T - TTUNR/L 16	1032 1033	40	32	30	22	300	
 ..-TTUNR/L (Hole Clamp Type 93°)	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	

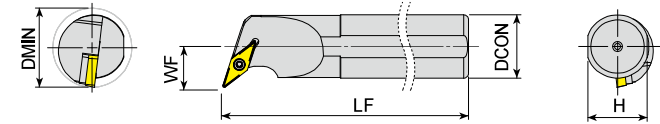
Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Shim Screw	Shim Pin	Allen Key
..PTUNR/L	..16-16	YAPL-08	YALV-07-M6x13	-	-	-	-	-	-	-	YAAV-07	YAAL-02-25
	..20-16	YAPL-01	YALV-01-M6x14	-	-	-	-	-	YAATN-3-0025	-	YAAV-01	YAAL-02-25
	..16C	YAPL-01	YALV-02-M6x17	YACK-05	Y4015-M4x11	-	-	-	YAATN-3-0025	-	YAAV-01	YAAL-02-25
	..22C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	-	YAATN-3-0015	-	YAAV-02	YAAL-03-3
..TTUNR/L	..16	-	-	YATK-01	YAKV-01-M5x22	YABPL-01	-	-	YAATN-2-0002	YAAV-03-M5x12	-	YAAL-03-3
	..22	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	-	YAATN-3-0015	YAAV-02-M5x12	-	YAAL-03-3

Internal Holders for VB Insert**


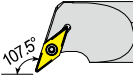
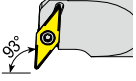
□: p.83 unit:mm

Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert
 ..SVQBR/L (Screw Type 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	
	S25S-SVQBR/L 16	1305 1306	32	25	23	17	250	
	X 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 (Screw Type 93°)	S25S-SVJBR/L 16	1295 1296	32	25	23	17	250	VB1604
	X S32T-SVJBR/L 16	1297 1298	40	32	30	22	300	
 ..SVUBR/L (Screw Type 93°)	● A20Q-SVUBR/L 16	1311 -	30	20	18.3	20	180	VB1604
	A32S-SVUBR/L 16	1312 1313	40	32	30	22	250	
	S25S-SVUBR/L 16	1314 1315	32	25	23	19	250	
	X S32T-SVUBR/L 16	1316 1317	40	32	30	22	300	
	S40U-SVUBR/L 16	1318 1319	50	40	37.5	27	350	

Series	Size	Screw	Shim	Shim Screw	Torx Key
..SVJBR/L	..16	Y4015-M3.5x12	YAAVN-2-0002	YAAV-08-M3.5x8	Y80-T15
	..20..16	Y4015-M3.5x11	-	-	Y80-T15
..SVQBR/L	..25..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
	..25..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-08-M3.5x8	Y80-T15
	..32~40..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
..SVUBR/L	..20..16	Y4015-M3.5x11	-	-	Y80-T15
	..25~40..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15

Internal Holders for VC Insert**


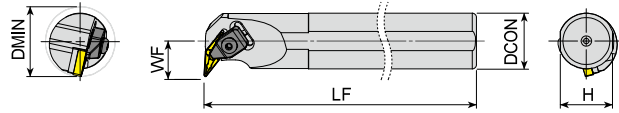
□: p.84 unit:mm

Series	Designation	EDP 2700.. R L	DMIN	DCON	H	WF	LF	Insert
 ..SVQCR/L (Screw Type 107.5°)	S25S-SVQCR/L 16	1320 1321	32	25	23	17	250	VC1604
	X S32T-SVQCR/L 16	1322 1323	40	32	30	22	300	
	S40U-SVQCR/L 16	1324 1325	50	40	37.5	27	350	
 ..SVUCR/L (Screw Type 93°)	● A25R-SVUCR/L 16	1326 -	32	25	23	19	200	VC1604
	S25S-SVUCR/L 16	1327 1328	32	25	23	19	250	
	X S32T-SVUCR/L 16	1329 1330	40	32	30	22	300	
	S40U-SVUCR/L 16	1331 1332	50	40	37.5	27	350	

Series	Size	Screw	Shim	Shim Screw	Torx Key
..SVQCR/L	..25..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-08-M3.5x8	Y80-T15
	..32~40..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15
..SVUCR/L	..16	Y4015-M3.5x14	YAAVN-2-0002	YAAV-06-M3.5x11	Y80-T15

Turning - Holder - Internal

Internal Holders for VN** Insert



: p.73 unit:mm

Series	Designation	EDP 2700..		DMIN	DCON	H	WF	LF	Insert
		R	L						
..TVUNR/L (Hole Clamp Type 93°) X	S255-TVUNR/L 16	1042	1043	36	25	23	20	250	VN1604
	S32T-TVUNR/L 16	1044	1045	40	32	30	22	300	
	S40U-TVUNR/L 16	1046	1047	50	40	37.5	27	350	



..TVUNR/L
(Hole Clamp Type 93°)

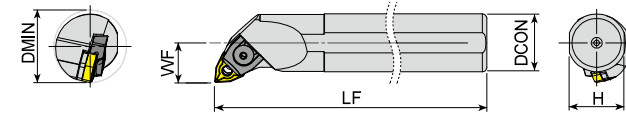
X

VN1604

Series	Size	Clamp	Clamp Screw	Upper Ring	Shim	Shim Screw	Allen Key
..TVUNR/L	..16	YATK-01	YAKV-01-M5x22	YABPL-01	YAAVN-2-0002	YAAV-04-M5x12	YAAL-03-3

Turning - Holder - Internal

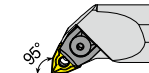
Internal Holders for WN** Insert



: p.75 unit:mm

* 'C' Letter at Last : Optional Clamp Included

Series	Designation	EDP 2700..		DMIN	DCON	H	WF	LF	Insert
		R	L						
..MWLNR/L (Pin + Top Clamp Type 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	
	S25S-MWLNR/L 06	1068	1069	32	25	23	17	250	
	X S25S-MWLNR/L 08	1070	1071	32	25	23	17	250	
	X S32T-MWLNR/L 08	1072	1073	40	32	30	22	300	
S40U-MWLNR/L 08	1074	1075	50	40	37.5	27	350	WN0804	
..PWLNR/L (Lever Type 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	
	S20R-PWLNR/L 06	1076	1077	25	20	18.3	13	200	
	X S25S-PWLNR/L 06	1078	1079	32	25	23	17	250	
	S32T-PWLNR/L 06	1080	1081	40	32	30	22	300	
	A25R-PWLNR/L 08C	1054	1055	32	25	23	17	200	
	● 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	
..PWLNR/L (Lever Type 95°) X	S25S-PWLNR/L 08C	1082	1083	32	25	23	17	250	WN0804
	X S32T-PWLNR/L 08C	1084	1085	40	32	30	22	300	
	S40U-PWLNR/L 08C	1086	1087	50	40	37.5	27	350	
	S50V-PWLNR/L 08C	1088	1089	63	50	47	35	400	



..MWLNR/L
(Pin + Top Clamp Type 95°)

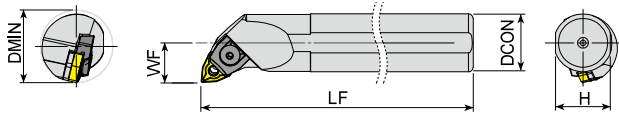


..PWLNR/L
(Lever Type 95°)

Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Shim Screw	Shim Pin	Allen Key
..MWLNR/L	..16..06	-	-	YAMK-01	YAKV-17-M5x15	-	-	YAPM-09	-	-	-	-
	..20..06	-	-	YAMK-01	YAKV-04-M5x17	-	-	YAPM-10	-	-	-	-
	..25..06	-	-	YAMK-01	YAKV-04-M5x17	-	-	YAPM-08	-	-	-	-
	..25..08	-	-	YAMK-05	YAKV-27-M6x20	YABPL-01	YAS-01	YAPM-04	YAAWN-3-0001	-	-	YAAL-03-3
	..32-40..08	-	-	YAMK-05	YAKV-03-M6x22	YABPL-01	YAS-01	YAPM-02	YAAWN-3-0001	-	-	YAAL-03-3
..PWLNR/L	..20..06	YAPL-01	YALV-01-M6x14	-	-	-	-	-	YAAWN-SW317	-	YAAV-01	YAAL-02-2.5
	..25-32..06	YAPL-01	YALV-02-M6x17	-	-	-	-	-	YAAWN-SW317	-	YAAV-01	YAAL-02-2.5
	..08C	YAPL-02	YALV-03-M8x19	YACK-05	Y4015-M4x11	-	-	-	YAAWN-3-0001	-	YAAV-02	YAAL-03-3

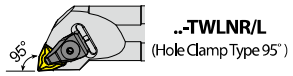
Turning - Holder - Internal

Internal Holders for WN Insert**



□: p. 75 unit:mm

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



Series	Size	Lever	Lever Screw	Clamp	Clamp Screw	Upper Ring	Lower Ring	Pin	Shim	Shim Screw	Shim Pin	Allen Key
..TWLNRL/L	..06	-	-	YATK-01	YAKV-01-M5x22	YABPL-01	-	-	YAAWN-SW317	YAAV-01-M3x10	-	YAAL-03-3
	..25..08	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	-	YAAWN-3-0001	YAAV-13-M5x8	-	YAAL-03-3
	..32~50..08	-	-	YATK-02	YAKV-30-M6x22	YABPL-01	YAS-01	-	YAAWN-3-0001	YAAV-02-M5x12	-	YAAL-03-3

Turning Inserts Overview

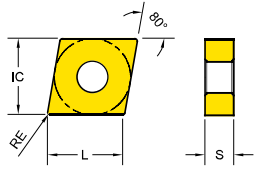
Negative Inserts

Shape	Series	Size				Page
C	CNMA	12	16	19	60	
	CNMG	12	16	19		
D	DNMA	1504	1506		63	
	DNMG	1504	1506			
K	KNUX	16			66	
S	SNMA	12	15		67	
	SNMG	12				
T	TNMA	16			69	
	TNMG	16	22			
	TNMX	16				
V	VNMA	16			73	
	VNMG	16				
W	WNMA		08		75	
	WNMG	06	08			

Positive Inserts

Shape	Series	Size				Page
C	CCGT		09	12	78	
	CCMT	06	09	12		
D	DCGT		11		79	
	DCMT	07	11			
R	RCMT	06	08	10	12	80
S	SCMT	09	12			81
T	TCGT		16			82
	TCMT	11	16			
V	VBMT	16				83
	VCGT / VCMT	16				

Turning Inserts - Negative
CNMG / CNMA (80° Negative)



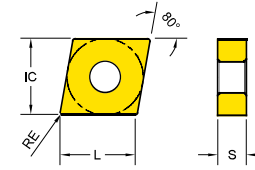
Series	L	IC	S
CN** 1204	12	12.7	4.76
CN** 1606	16	15.88	6.35
CN** 1906	19	19.05	6.35

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

CNMA CNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	P05		P10		P20		P30		M15		M30		M40		N20		N20		
					K10	K20	K10	K20	K10	K20	K10	K20	S10	S20	S30	N20	N20	N20	N20				
..MA Cast iron	CNMA 120404	0.4	0.15~0.5	0.5~2.5	●	●																	
	CNMA 120408	0.8	0.15~0.5	1~3.5	●	●																	
	CNMA 120412	1.2	0.15~0.5	1.5~5	●	●																	
	CNMA 160612	1.2	0.15~0.5	1.5~5	●	●																	
	CNMA 160616	1.6	0.15~0.5	2~5	●	●																	
	CNMA 190616	1.6	0.15~1	3~10	●	●																	
-UF Finishing	CNMG 120404 - UF	0.4	0.05~0.25	0.5~1.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120408 - UF	0.8	0.05~0.25	1~2.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
-UL Light Machining and Sticky Material	CNMG 120404 - UL	0.4	0.1~0.3	0.5~2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120408 - UL	0.8	0.1~0.3	1~3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120412 - UL	1.2	0.1~0.3	1.5~3.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
-UM Medium Machining Unstable condition	CNMG 120404 - UM	0.4	0.15~0.3	0.5~1.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120408 - UM	0.8	0.15~0.3	0.5~2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120412 - UM	1.2	0.15~0.3	1.5~3.0	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Cutting Speed			Vc (m/min.)										
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180	
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative
CNMG / CNMA (80° Negative)



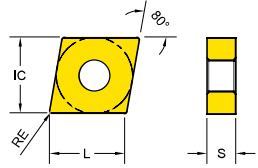
Series	L	IC	S
CN** 1204	12	12.7	4.76
CN** 1606	16	15.88	6.35
CN** 1906	19	19.05	6.35

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

CNMA CNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	P05		P10		P20		P30		M15		M30		M40		N20		N20	
					K10	K20	K10	K20	K10	K20	K10	K20	S10	S20	S30	N20	N20	N20	N20			
-UG Medium Machining at stable condition	CNMG 120404 - UG	0.4	0.2~0.4	0.5~2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120408 - UG	0.8	0.2~0.4	1~3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120412 - UG	1.2	0.2~0.4	1.5~4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 160608 - UG	0.8	0.20~0.40	1.5~5.0	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 160612 - UG	1.2	0.2~0.4	1.5~5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 160616 - UG	1.6	0.2~0.4	1.8~5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
-UC Cast iron and Medium roughing	CNMG 120404 - UC	0.4	0.2~0.4	0.5~2.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120408 - UC	0.8	0.2~0.4	1~4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120412 - UC	1.2	0.2~0.4	1.5~4.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
-UR Roughing	CNMG 120408 - UR	0.8	0.3~0.5	1~4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120412 - UR	1.2	0.3~0.5	1.5~5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 120416 - UR	1.6	0.3~0.5	2~5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 160612 - UR	1.2	0.3~0.5	1.5~5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 160616 - UR	1.6	0.3~0.5	2~5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 190608 - UR	0.8	0.3~0.8	3.0~9.0	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
-UR	CNMG 190612 - UR	1.2	0.3~0.8	3~9	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	CNMG 190616 - UR	1.6	0.3~0.8	3.0~9.0	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Cutting Speed			Vc (m/min.)										
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180	
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative CNMG / CNMA (80° Negative)



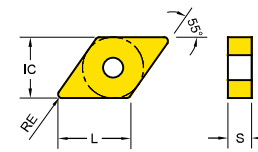
Series	L	IC	S
CN** 1204	12	12.7	4.76
CN** 1606	16	15.88	6.35
CN** 1906	19	19.05	6.35

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

	Designation	RE	Fn (mm/rev.)	Ap (mm)	P05		P10		P20		P30		M15		M30		M40		N20		N20	
					K10	K20	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	S10	S20	S30	N20	N20	
-MF Stainless steel Finishing	CNMG 120404 - MF	0.4	0.07 ~ 0.3	0.2 ~ 1.5																		
	CNMG 120408 - MF	0.8	0.07 ~ 0.3	0.2 ~ 1.5										● 0609	● 0613							
-MM Stainless steel Medium	CNMG 120404 - MM	0.4	0.2 ~ 0.35	0.5 ~ 3																		
	CNMG 120408 - MM	0.8	0.2 ~ 0.35	1 ~ 3.5										● 0547	● 0548							
	CNMG 120412 - MM	1.2	0.2 ~ 0.35	1.5 ~ 3.5			● 0360	● 0188	● 0187	● 0494	● 0495	● 0607										
-MR Stainless steel Roughing	CNMG 120408 - MR	0.8	0.3 ~ 0.55	1.2 ~ 5.5								● 0594	● 0540	● 0541	● 0608							
	CNMG 120412 - MR	1.2	0.3 ~ 0.55	1.5 ~ 5.5									● 0610	● 0614	● 0628							
-KR Cast Iron Heavy Roughing	CNMG 120408 - KR	0.8	0.30 ~ 0.60	1.0 ~ 5.0																	● 0718	
	CNMG 120412 - KR	1.2	0.30 ~ 0.60	1.5 ~ 5.0																	● 0719	

Cutting Speed		Vc (m/min.)											
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	120	230	110	180	80	150
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative DNMG / DNMA (55° Negative)



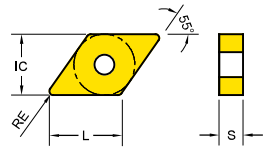
Series	L	IC	S
DN** 1504	14	12.7	4.76
DN** 1506	14	12.7	6.35

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

	Designation	RE	Fn (mm/rev.)	Ap (mm)	P05		P10		P20		P30		M15		M30		M40		N20		N20	
					K10	K20	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	S10	S20	S30	N20	N20	
..MA Cast iron	DNMA 150408	0.8	0.15 ~ 0.5	1 ~ 3																		
	DNMA 150412	1.2	0.15 ~ 0.5	1.5 ~ 4										● 0573	● 0574							
	DNMA 150608	0.8	0.15 ~ 0.5	1 ~ 3										● 0575	● 0576							
	DNMA 150612	1.2	0.15 ~ 0.5	1.5 ~ 4										● 0091	● 0092							
-UF Finishing	DNMG 150404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 1.5										● 0363	● 0364	● 0365	● 0016					
	DNMG 150604 - UF	0.4	0.05 ~ 0.25	1 ~ 2										● 0225	● 0226	● 0227	● 0018					
	DNMG 150608 - UF	0.8	0.05 ~ 0.25	1.5 ~ 3.5										● 0231	● 0232	● 0233						
-UL Light Machining and Sticky Material	DNMG 150404 - UL	0.4	0.10 ~ 0.3	0.5 ~ 3.0										● 0686	● 0687	● 0708						
	DNMG 150408 - UL	0.8	0.10 ~ 0.3	1.0 ~ 3.0										● 0489	● 0504	● 0505						
	DNMG 150412 - UL	1.2	0.10 ~ 0.3	1.5 ~ 3.0										● 0709								
	DNMG 150604 - UL	0.4	0.1 ~ 0.3	0.5 ~ 2										● 0369	● 0370							
-UM Medium Machining Unstable condition	DNMG 150608 - UL	0.8	0.1 ~ 0.3	1.5 ~ 3										● 0237	● 0238	● 0239						
	DNMG 150612 - UL	1.2	0.10 ~ 0.3	1.5 ~ 3.0										● 0246								
	DNMG 150408 - UM	0.8	0.15 ~ 0.3	1.0 ~ 3.0										● 0688	● 0689	● 0701						
-UM Medium Machining Unstable condition	DNMG 150412 - UM	1.2	0.15 ~ 0.3	1.5 ~ 4										● 0512	● 0488	● 0705						
	DNMG 150608 - UM	0.8	0.15 ~ 0.3	0.5 ~ 2										● 0240	● 0241	● 0242						
	DNMG 150612 - UM	1.2	0.15 ~ 0.3	1.5 ~ 3.0											● 0695	● 0706						

Cutting Speed		Vc (m/min.)											
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	120	230	110	180	80	150
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative DNMG / DNMA (55° Negative)



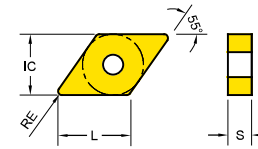
Series	L	IC	S
DN** 1504	14	12.7	4.76
DN** 1506	14	12.7	6.35

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

DNMA DNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	P05		P10		P20		P30		M15		M30		M40		N20		N20		
					K10	K20	K10	K20	K10	K20	K10	K20	S10	S20	S30	N20	N20						
-UG Medium Machining at stable condition	DNMG 150404 - UG	0.4	0.2~0.4	0.5~3.0																			
	DNMG 150408 - UG	0.8	0.2~0.4	1~2.5	0452	0366	0367	0368	0017														
	DNMG 150412 - UG	1.2	0.2~0.4	1.5~3	0703		0487	0704															
	DNMG 150604 - UG	0.4	0.2~0.4	0.5~2		0228	0229	0230															
	DNMG 150608 - UG	0.8	0.2~0.4	1~3	0453	0234	0235	0236	0019														
	DNMG 150612 - UG	1.2	0.2~0.4	1.5~3.5	0454	0243	0244	0245															
-UC Cast iron and Medium roughing	DNMG 150408 - UC	0.8	0.2~0.4	1~3	0577	0578		0700															
	DNMG 150412 - UC	1.2	0.2~0.4	1.5~3.5	0579	0580		0702															
	DNMG 150608 - UC	0.8	0.2~0.4	1~3	0090	0121	0104	0122															
	DNMG 150612 - UC	1.2	0.2~0.4	1.5~3.5	0098	0123	0105	0124															
-UR Roughing	DNMG 150408 - UR	0.8	0.3~0.5	1~3.5		0585																	
	DNMG 150412 - UR	1.2	0.3~0.5	1.5~4		0581																	
	DNMG 150608 - UR	0.8	0.3~0.5	1.0~5.0	0691	0692	0693																
DNMG 150612 - UR	1.2	0.3~0.5	1.5~4		0371	0372	0373	0020															

Cutting Speed			Vc (m/min.)										
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	120	230	110	180	80	150
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative DNMG / DNMA (55° Negative)



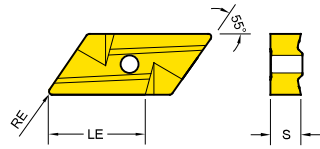
Series	L	IC	S
DN** 1504	14	12.7	4.76
DN** 1506	14	12.7	6.35

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

DNMA DNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	P05		P10		P20		P30		M15		M30		M40		N20		N20	
					K10	K20	K10	K20	K10	K20	K10	K20	S10	S20	S30	N20	N20					
-MF Stainless steel Finishing	DNMG 150404 - MF	0.4	0.07~0.3	0.2~1.5																		
	DNMG 150408 - MF	0.8	0.07~0.3	0.2~1.5																		
	DNMG 150604 - MF	0.4	0.07~0.3	0.2~1.5																		
	DNMG 150608 - MF	0.8	0.07~0.3	0.2~1.5																		
-MM Stainless steel Medium	DNMG 150404 - MM	0.4	0.2~0.35	0.5~3																		
	DNMG 150408 - MM	0.8	0.2~0.35	1~3.5																		
	DNMG 150412 - MM	1.2	0.2~0.35	1.5~3.5																		
	DNMG 150604 - MM	0.4	0.2~0.35	0.5~3																		
	DNMG 150608 - MM	0.8	0.2~0.35	1~3.5																		
-MR Stainless steel Roughing	DNMG 150408 - MR	0.8	0.3~0.55	2.0~5.5																		
	DNMG 150412 - MR	1.2	0.3~0.55	2.0~5.5																		
	DNMG 150608 - MR	0.8	0.3~0.55	2.0~5.5																		
DNMG 150612 - MR	1.2	0.3~0.55	2.0~5.5																			

Cutting Speed			Vc (m/min.)										
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	120	230	110	180	80	150
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative
KNUX (55° - 2 Corners Single Side)



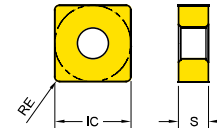
Series	LE	S
KN** 1604	15	4.76

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

KNUX	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..													
					YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10				
..UX Left	KNUX 160405 L	0.5	0.1 ~ 0.4	0.5 ~ 6	● 0249	● 0250	● 0251	● 0079										
	KNUX 160405 R	0.5	0.1 ~ 0.4	0.5 ~ 6	● 0252	● 0253	● 0254	● 0080										

Cutting Speed		Vc (m/min.)									
ISO	VDI Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10
		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	220 480	170 450	180 380	150 350	120 200	- -	- -	- -	- -	- -
	6~9 Low-Alloyed Steel	220 420	180 380	110 350	90 300	70 200	- -	- -	- -	- -	- -
	10~11 High-Alloyed Steel	- -	100 330	60 300	70 250	- -	- -	- -	- -	- -	- -
M	12~13 Ferritic & Martensitic	- -	- -	- -	120 230	110 180	80 150	- -	- -	- -	- -
	14 Austenitic Stainless Steel	- -	- -	80 200	- -	100 200	40 130	30 120	- -	- -	
K	15~16 Grey Cast Iron	170 420	120 300	- -	- -	- -	- -	- -	- -	- -	- -
	17~18 Nodular Cast Iron	120 410	120 280	- -	- -	- -	- -	- -	- -	- -	
N	21~30 Non-Ferrous Metals (Al)	- -	- -	- -	- -	- -	- -	- -	350 1200	250 800	
S	31~37 Superalloys & Titanium	- -	- -	- -	35 80	- -	30 90	20 40	20 40	- -	
H	38~41 Hard Materials	- -	- -	- -	- -	- -	- -	- -	- -	- -	

Turning Inserts - Negative
SNMG / SNMA (90° Negative)



Series	IC	S
SN** 1204	12.7	4.76
SN** 1506	15.875	6.35

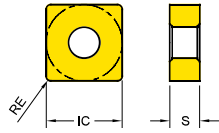
EDP 2200.. ●: Stock item ○: Order made item

SNMA SNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..												
					YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10			
..MA Cast iron	SNMA 120408	0.8	0.15 ~ 0.5	1 ~ 3.5	● 0027												
	SNMA 120412	1.2	0.15 ~ 0.5	1.5 ~ 5	● 0028												
	SNMA 150612	1.2	0.15 ~ 0.5	1.5 ~ 5	● 0729												
-UF Finishing	SNMG 120404 - UF	0.4	0.05 ~ 0.25	0.5 ~ 1.5						● 0029							
-UL Light Machining and sticky material	SNMG 120404 - UL	0.4	0.10 ~ 0.30	0.5 ~ 3.0			● 0747										
	SNMG 120408 - UL	0.8	0.1 ~ 0.3	1 ~ 3	● 0389	● 0390	● 0391										
-UM For Medium & Unstable conditions	SNMG 120408 - UM	0.8	0.15 ~ 0.30	1.0 ~ 3.0	● 0739	● 0784	● 0740										
-UG Medium Machining at stable condition	SNMG 120408 - UG	0.8	0.2 ~ 0.4	1 ~ 3	● 0141	● 0142	● 0143	● 0030									
	SNMG 120412 - UG	1.2	0.2 ~ 0.4	1.5 ~ 4	● 0258	● 0259	● 0260										
	SNMG 120416 - UG	1.6	0.2 ~ 0.40	2.0 ~ 3.0	● 0744												
-UC Cast iron and Medium roughing	SNMG 120408 - UC	0.8	0.2 ~ 0.4	1 ~ 4	● 0073	● 0125	● 0106	● 0126									
	SNMG 120412 - UC	1.2	0.2 ~ 0.4	1.5 ~ 4.5	● 0074		● 0128										

Cutting Speed		Vc (m/min.)									
ISO	VDI Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10
		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	220 480	170 450	180 380	150 350	120 200	- -	- -	- -	- -	- -
	6~9 Low-Alloyed Steel	220 420	180 380	110 350	90 300	70 200	- -	- -	- -	- -	- -
	10~11 High-Alloyed Steel	- -	100 330	60 300	70 250	- -	- -	- -	- -	- -	- -
M	12~13 Ferritic & Martensitic	- -	- -	- -	120 230	110 180	80 150	- -	- -	- -	- -
	14 Austenitic Stainless Steel	- -	- -	- -	80 200	- -	100 200	40 130	30 120	- -	- -
K	15~16 Grey Cast Iron	170 420	120 300	- -	- -	- -	- -	- -	- -	- -	- -
	17~18 Nodular Cast Iron	120 410	120 280	- -	- -	- -	- -	- -	- -	- -	
N	21~30 Non-Ferrous Metals (Al)	- -	- -	- -	- -	- -	- -	- -	- -	350 1200	250 800
S	31~37 Superalloys & Titanium	- -	- -	- -	35 80	- -	30 90	20 40	20 40	- -	- -
H	38~41 Hard Materials	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

Turning Inserts - Negative SNMG / SNMA (90° Negative)

Series	IC	S
SN** 1204	12.7	4.76



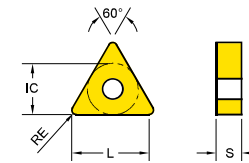
EDP 2200.. ●: Stock item ○: Order made item

SNMA SNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..																		
					P05		P10		P20		P30		M15		M30		M40		N20		N20		
					K10	K20	K10	K20	K10	K20	K10	K20	S10	S20	S30	S10	S20	S30	N20	N20	N20	N20	
YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10														
-UR Roughing	SNMG 120408 - UR	0.8	0.3 ~ 0.5	1 ~ 4.5	●	●	●	●															
	SNMG 120412 - UR	1.2	0.3 ~ 0.5	1.5 ~ 5		●	●	●	●														
-MF Stainless steel Finishing	SNMG 120408 - MF	0.8	0.07 ~ 0.3	0.2 ~ 1.5				●	●	●	●												
	SNMG 120412 - MF	1.2	0.07 ~ 0.3	0.2 ~ 1.5				●	●	●	●												
-MM Stainless steel Medium	SNMG 120408 - MM	0.8	0.2 ~ 0.35	1 ~ 3.5							●	●											
	SNMG 120412 - MM	1.2	0.2 ~ 0.35	1.5 ~ 3.5							●	●											
-MR Stainless steel Roughing	SNMG 120408 - MR	0.8	0.3 ~ 0.55	0.15 ~ 5.5							●	●	●										
	SNMG 120412 - MR	1.2	0.3 ~ 0.55	0.15 ~ 5.5							●	●	●										
-KR Cast Iron Heavy Roughing	SNMG 120416 - KR	1.6	0.30 ~ 0.60	2.0 ~ 5.0	●																		

Cutting Speed			Vc (m/min.)												
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10			
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max			
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200			
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200			
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-			
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180			
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130		
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-			
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-			
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	-	350	1200	250	800
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	-	-	-

Turning Inserts - Negative TNMG / TNMA (60° Negative)

Series	L	IC	S
TN** 1604	15.7	9.53	4.76
TN** 2204	22	12.7	4.76

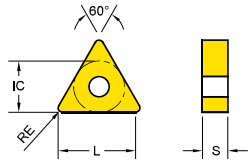


EDP 2200.. ●: Stock item ○: Order made item

TNMA TNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..																		
					P05		P10		P20		P30		M15		M30		M40		N20		N20		
					K10	K20	K10	K20	K10	K20	K10	K20	S10	S20	S30	S10	S20	S30	N20	N20	N20	N20	
YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10														
..MA Cast iron	TNMA 160408	0.8	0.15 ~ 0.5	1 ~ 3	●																		
	TNMA 160412	1.2	0.15 ~ 0.5	1.5 ~ 4	●																		
-UF Finishing	TNMG 160404 - UF	0.4	0.05 ~ 0.25	1 ~ 2		●	●	●	●														
	TNMG 160408 - UF	0.8	0.05 ~ 0.25	1.5 ~ 3.5				●	●	●	●												
	TNMG 160412 - UF	1.2	0.05 ~ 0.25	1.5 ~ 3.5				●	●	●	●												
	TNMG 220404 - UF	0.4	0.1 ~ 0.35	1 ~ 4																			
-UL Light Machining and sticky material	TNMG 160408 - UL	0.8	0.1 ~ 0.3	1 ~ 3							●	●											
	TNMG 160412 - UL	1.2	0.1 ~ 0.3	1.5 ~ 3.5							●	●											
-UM Medium Machining Unstable condition	TNMG 160408 - UM	0.8	0.15 ~ 0.3	0.5 ~ 2							●	●	●										
	TNMG 160412 - UM	1.2	0.15 ~ 0.3	1.5 ~ 3							●	●	●										

Cutting Speed			Vc (m/min.)												
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10			
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max			
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200			
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200			
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-			
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180			
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130		
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-			
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-			
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	-	350	1200	250	800
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	-	-	-

Turning Inserts - Negative TNMG / TNMA (60° Negative)



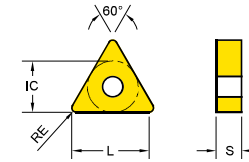
Series	L	IC	S
TN** 1604	15.7	9.53	4.76
TN** 2204	22	12.7	4.76

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

TNMA TNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	P05		P10		P20		P30		M15		M30		M40		N20		N20	
					K10	K20	K10	K20	K10	K20	K10	K20	S10	S20	S30	N20	N20					
-UG Medium Machining at Stable condition	TNMG 160404 - UG	0.4	0.2~0.4	0.5~2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	TNMG 160408 - UG	0.8	0.2~0.4	1~3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	TNMG 160412 - UG	1.2	0.2~0.4	1.5~3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	TNMG 220408 - UG	0.8	0.25~0.6	1~4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
-UC Cast iron and Medium roughing	TNMG 160404 - UC	0.4	0.2~0.4	0.5~2.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	TNMG 160408 - UC	0.8	0.2~0.4	1~3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	TNMG 160412 - UC	1.2	0.2~0.4	1.5~3.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
-UR Roughing	TNMG 160408 - UR	0.8	0.30~0.50	1.0~5.0	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	TNMG 160412 - UR	1.2	0.3~0.5	1.5~3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	TNMG 220412 - UR	1.2	0.30~0.65	1.5~4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TNMG 220416 - UR	1.6	0.3~0.65	2~4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Cutting Speed			Vc (m/min.)										
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	120	230	110	180	80	150
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative TNMG / TNMA (60° Negative)



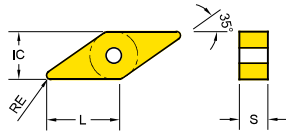
Series	L	IC	S
TN** 1604	15.7	9.53	4.76
TN** 2204	22	12.7	4.76

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

TNMA TNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	P05		P10		P20		P30		M15		M30		M40		N20		N20	
					K10	K20	K10	K20	K10	K20	K10	K20	S10	S20	S30	N20	N20					
-MF Stainless steel Finishing	TNMG 160404 - MF	0.4	0.05~0.3	0.2~1.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	TNMG 160408 - MF	0.8	0.05~0.3	0.15~1.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
-MM Stainless steel Medium	TNMG 160404 - MM	0.4	0.2~0.35	0.5~3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	TNMG 160408 - MM	0.8	0.15~0.3	1~3.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	TNMG 160412 - MM	1.2	0.15~0.3	1.5~3.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
-MR Stainless steel Roughing	TNMG 160408 - MR	0.8	0.30~0.55	2.0~5.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	TNMG 160412 - MR	1.2	0.30~0.55	2.0~5.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Cutting Speed			Vc (m/min.)										
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	120	230	110	180	80	150
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative VNMG (35° Negative)



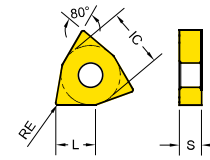
Series	L	IC	S
VN** 1604	15.8	9.53	4.76

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

VNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..															
					YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10						
-UC Cast iron and Medium roughing	VNMG 160404 - UC	0.4	0.2~0.4	0.5~2.5	●															
	VNMG 160408 - UC	0.8	0.2~0.4	1~3	○	○	○	○												
-UR Roughing	VNMG 160412 - UR	1.2	0.3~0.5	1.2~3		●	●	●	●	○										
	VNMG 160408 - MF	0.8	0.05~0.3	0.2~1.5				●		●										
-MM Stainless steel Medium	VNMG 160404 - MM	0.4	0.2~0.35	0.5~3.5							●	●								
	VNMG 160408 - MM	0.8	0.2~0.35	0.5~3.5							●	●								
-MR Stainless steel Roughing	VNMG 160408 - MR	0.8	0.30~0.55	2.0~5.5							●									

Cutting Speed			Vc (m/min.)										
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180	
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative WNMG / WNMA (80° Trigonal Negative)



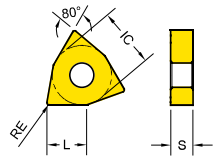
Series	L	IC	S
WN** 0604	5.7	9.53	4.76
WN** 0804	7.8	12.7	4.76

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

WNMA WNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..															
					YG1001	YG3010	YG3015	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10					
..MA Cast iron	WNMA 080404	0.4	0.15~0.5	0.5~2.5	○															
	WNMA 080408	0.8	0.15~0.5	1~3.5	○	○														
	WNMA 080412	1.2	0.15~0.5	1.5~5	○	○														
-UF Finishing	WNMG 060404 - UF	0.4	0.05~0.2	0.5~1.5		●			●	●	●	●								
	WNMG 080404 - UF	0.4	0.05~0.25	0.5~2					●	●	●	●								
	WNMG 080408 - UF	0.8	0.05~0.25	1~2.5					●	●	●	●								
-UL Light Machining and sticky material	WNMG 060408 - UL	0.8	0.1~0.3	1~2.5		●			●	●	●	●								
	WNMG 080408 - UL	0.8	0.1~0.3	1~3		●			●	●	●	●								
-UM Medium Machining at unstable condition	WNMG 060404 - UM	0.4	0.15~0.30	1.0~2.5							●	●								
	WNMG 060408 - UM	0.8	0.15~0.3	1~2							●	●								
	WNMG 080404 - UM	0.4	0.15~0.30	0.5~3.0							●	●								
	WNMG 080408 - UM	0.8	0.15~0.3	1~3							●	●								
	WNMG 080412 - UM	1.2	0.15~0.3	1.5~3							●	●								
	WNMG 080416 - UM	1.6	0.15~0.3	2~3.5							●	●								

Cutting Speed			Vc (m/min.)										
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180	
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative
WNMG / WNMA (80° Trigonal Negative)



Series	L	IC	S
WN** 0604	5.7	9.53	4.76
WN** 0804	7.8	12.7	4.76

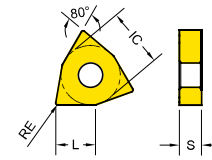
EDP 2200.. ●: Stock item ○: Order made item

WNMA WNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	P05	P10	P15	P20	P30	P20	M15	M30	M40	N20	N20
					K10	K20	M20	S10	S20	S30	N20	N20			
-UG Medium Machining at stable condition	WNMG 060408 - UG	0.8	0.2~0.4	1~2.5	● 0697				● 0438	● 0059					
	WNMG 080404 - UG	0.4	0.2~0.4	1.5~2.5	● 0318			● 0319	● 0320						
	WNMG 080408 - UG	0.8	0.2~0.4	1~3.5	● 0463	● 0147	● 0582	● 0148	● 0149	● 0056					
	WNMG 080412 - UG	1.2	0.2~0.4	1.5~3.5	● 0466	● 0503		● 0490							
	WNMG 080416 - UG	1.6	0.2~0.4	2~4				● 0583							
-UC Cast iron and Medium roughing	WNMG 080404 - UC	0.4	0.25~0.4	0.5~3.5	● 0097	● 0133		● 0110	● 0134						
	WNMG 080408 - UC	0.8	0.2~0.4	1~4	● 0077	● 0135	● 0733	● 0111	● 0136						
	WNMG 080412 - UC	1.2	0.2~0.4	1.5~4.5	● 0078	● 0137	● 0630	● 0112	● 0138						
-UR Roughing	WNMG 080408 - UR	0.8	0.3~0.5	1.2~5	● 0464	● 0465		● 0471	● 0472						
	WNMG 080412 - UR	1.2	0.3~0.5	1.5~5	● 0467	● 0442	● 0631	● 0443	● 0444	● 0057					
	WNMG 080416 - UR	1.6	0.3~0.5	2~5	● 0468	● 0469		● 0725	● 0714						

* YG3015 = Vc 90~430 m/min

Cutting Speed		Vc (m/min.)											
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180	
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Negative
WNMG / WNMA (80° Trigonal Negative)



Series	L	IC	S
WN** 0604	5.7	9.53	4.76
WN** 0804	7.8	12.7	4.76

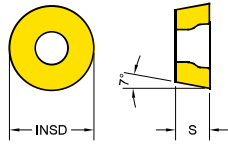
EDP 2200.. ●: Stock item ○: Order made item

WNMA WNMG	Designation	RE	Fn (mm/rev.)	Ap (mm)	P05	P10	P15	P20	P30	P20	M15	M30	M40	N20	N20
					K10	K20	M20	S10	S20	S30	N20	N20			
-MF Stainless steel Finishing	WNMG 060404 - MF	0.4	0.07~0.30	0.2~1.5											
	WNMG 080404 - MF	0.4	0.07~0.3	0.15~1.5					● 0834				● 0667	● 0668	
	WNMG 080408 - MF	0.8	0.07~0.3	0.2~1.5									● 0617	● 0618	
-MM Stainless steel Medium	WNMG 080404 - MM	0.4	0.2~0.35	0.5~3.5									● 0571	● 0572	
	WNMG 080408 - MM	0.8	0.2~0.35	1~3.5					● 0491				● 0497	● 0498	
	WNMG 080412 - MM	1.2	0.2~0.35	1.5~3.5									● 0612	● 0615	
-MR Stainless steel Roughing	WNMG 060412 - MR	1.2	0.2~0.5	1.2~4											● 0616
	WNMG 080408 - MR	0.8	0.30~0.55	2.0~5.5									● 0619	● 0620	● 0835
	WNMG 080412 - MR	1.2	0.30~0.55	2.0~5.5					● 0837				● 0665	● 0666	● 0836
-KR Cast Iron Heavy Roughing	WNMG 080408 - KR	0.8	0.30~0.60	1.0~5.0											● 0720
	WNMG 080412 - KR	1.2	0.30~0.60	1.5~5.0											● 0522

* YG3015 = Vc 90~430 m/min

Cutting Speed		Vc (m/min.)											
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200	
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200	
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-	
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180	
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	100	200	40	130
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-	
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-	
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200	
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	30	90	20	40
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-	

Turning Inserts - Positive RCMT (Round Positive)

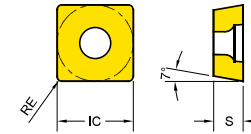


Series	INSD	S
RC** 0602	6	2.38
RC** 0803	8	3.18
RC** 10T3	10	3.97
RC** 1204	12	4.76

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

RCMT	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..																		
					P05	P10	P20	P30	P20	M15	M30	M40	N20	N20									
					K10	K20	M20	S10	S20	S30	N20	N20											
 General	RCMT 0602M0	3	0.05~0.25	0.2~1.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	RCMT 0803M0	4	0.05~0.3	0.5~1.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	RCMT 10T3M0	5	0.1~0.35	0.5~2.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	RCMT 1204M0	6	0.15~0.45	0.5~3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Turning Inserts - Positive SCMT (Square Positive)



Series	IC	S
SC** 09T3	9.53	3.97
SC** 1204	12.7	4.76

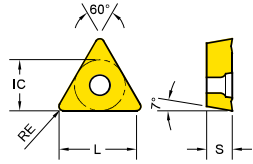
EDP 2200.. ●: Stock item ○: Order made item

SCMT	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..																		
					P05	P10	P20	P30	P20	M15	M30	M40	N20	N20									
					K10	K20	M20	S10	S20	S30	N20	N20											
 Finishing	SCMT 09T304 - UF	0.4	0.05~0.25	0.5~2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	SCMT 09T304 - UG	0.4	0.15~0.3	1~2.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
 General	SCMT 09T308 - UG	0.8	0.15~0.3	1~2.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	SCMT 120408 - UG	0.8	0.15~0.35	1~3.5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Cutting Speed		Vc (m/min.)										
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	-	100	200
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	-	30	90
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	20	40

Cutting Speed		Vc (m/min.)										
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	-	100	200
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	-	30	90
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	20	40

Turning Inserts - Positive
TCMT / TCGT (Triangle Positive)



Series	L	IC	S
TC** 1102	10.3	6.35	2.38
TC** 16T3	15.6	9.53	3.97

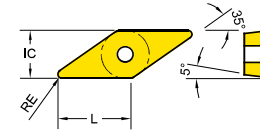
EDP 2200.. ●: Stock item ○: Order made item

P05	P10	P20	P30	P20	M15	M30	M40	N20	N20
K10	K20	M20	S10	S20	S30	N20	N20		

TCGT TCMT	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..												
					YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10			
-AL 	TCGT 16T302-AL	0.2	0.02~0.05	0.5~1												●	●
	TCGT 16T304-AL	0.4	0.05~0.25	0.5~2												●	●
	TCGT 16T308-AL	0.8	0.1~0.35	1~3												●	●
-UF 	TCMT 110204-UF	0.4	0.05~0.2	0.5~2		●	●										
	TCMT 16T304-UF	0.4	0.05~0.25	0.5~3		●	●		●								
	TCMT 16T308-UF	0.8	0.05~0.25	0.8~3		●	●										
-UG 	TCMT 110204-UG	0.4	0.15~0.25	0.5~1.5		●					●						
	TCMT 110208-UG	0.8	0.15~0.25	0.8~2		●	●										
	TCMT 16T304-UG	0.4	0.15~0.3	0.5~2		●	●										
	TCMT 16T308-UG	0.8	0.15~0.3	0.8~3		●	●		●	●							

Cutting Speed			Vc (m/min.)									
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	-	100	200
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	-	30	90
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-

Turning Inserts - Positive
VBMT (35° Positive)



Series	L	IC	S
VB** 1604	15.8	9.53	4.76

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

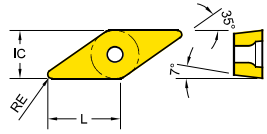
P05	P10	P20	P30	P20	M15	M30	M40	N20	N20
K10	K20	M20	S10	S20	S30	N20	N20		

VBMT	Designation	RE	Fn (mm/rev.)	Ap (mm)	EDP 2200..												
					YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10			
-UF 	VBMT 160404-UF	0.4	0.05~0.25	0.5~2													
	VBMT 160408-UF	0.8	0.05~0.25	0.5~3													
-UG 	VBMT 160404-UG	0.4	0.15~0.30	0.5~2.5		●	●										
	VBMT 160408-UG	0.8	0.2~0.4	1~3		●	●										

Cutting Speed			Vc (m/min.)									
ISO	VDI	Sub Group	YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel	220	480	170	450	180	380	150	350	120	200
	6~9	Low-Alloyed Steel	220	420	180	380	110	350	90	300	70	200
	10~11	High-Alloyed Steel	-	-	100	330	60	300	70	250	-	-
M	12~13	Ferritic & Martensitic	-	-	-	-	-	-	120	230	110	180
	14	Austenitic Stainless Steel	-	-	-	-	80	200	-	-	100	200
K	15~16	Grey Cast Iron	170	420	120	300	-	-	-	-	-	-
	17~18	Nodular Cast Iron	120	410	120	280	-	-	-	-	-	-
N	21~30	Non-Ferrous Metals (Al)	-	-	-	-	-	-	-	-	350	1200
S	31~37	Superalloys & Titanium	-	-	-	-	35	80	-	-	30	90
H	38~41	Hard Materials	-	-	-	-	-	-	-	-	-	-

Turning Inserts - Positive VCMT / VCGT (35° Positive)

Series	L	IC	S
VC** 1604	15.8	9.53	4.76



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

VCMT VCGT	Designation	RE	Fn (mm/rev.)	Ap (mm)	Material											
					YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10		
-AL Aluminum	VCMT 160402 - AL	0.2	0.02~0.05	0.5~1											●	●
	VCMT 160404 - AL	0.4	0.05~0.25	0.5~2											●	●
	VCMT 160408 - AL	0.8	0.1~0.35	1~3											●	●
-UF Finishing	VCMT 160404 - UF	0.4	0.05~0.25	0.5~3		●	●									
	VCMT 160408 - UF	0.8	0.15~0.30	1~3												
-UG General	VCMT 160404 - UG	0.4	0.15~0.30	0.5~2.5											●	●
	VCMT 160408 - UG	0.8	0.15~0.30	1~3			●								●	●

Cutting Speed		Vc (m/min.)											
ISO	VDI	Sub Group		YG1001	YG3010	YG3020	YG3030	YG801	YG211	YG213	YG214	YG100	YG10
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
P	1~5	Non-Alloyed Steel		220	480	170	450	180	380	150	350	120	200
	6~9	Low-Alloyed Steel		220	420	180	380	110	350	90	300	70	200
	10~11	High-Alloyed Steel		-	-	100	330	60	300	70	250	-	-
M	12~13	Ferritic & Martensitic		-	-	-	-	120	230	-	-	130	230
	14	Austenitic Stainless Steel		-	-	-	-	80	200	-	-	100	200
K	15~16	Grey Cast Iron		170	420	120	300	-	-	-	-	-	-
	17~18	Nodular Cast Iron		120	410	120	280	-	-	-	-	-	-
N	21~30	Non-Ferrous Metals (Al)		-	-	-	-	-	-	-	-	350	1200
S	31~37	Superalloys & Titanium		-	-	-	-	35	80	-	-	30	90
H	38~41	Hard Materials		-	-	-	-	-	-	-	-	20	40