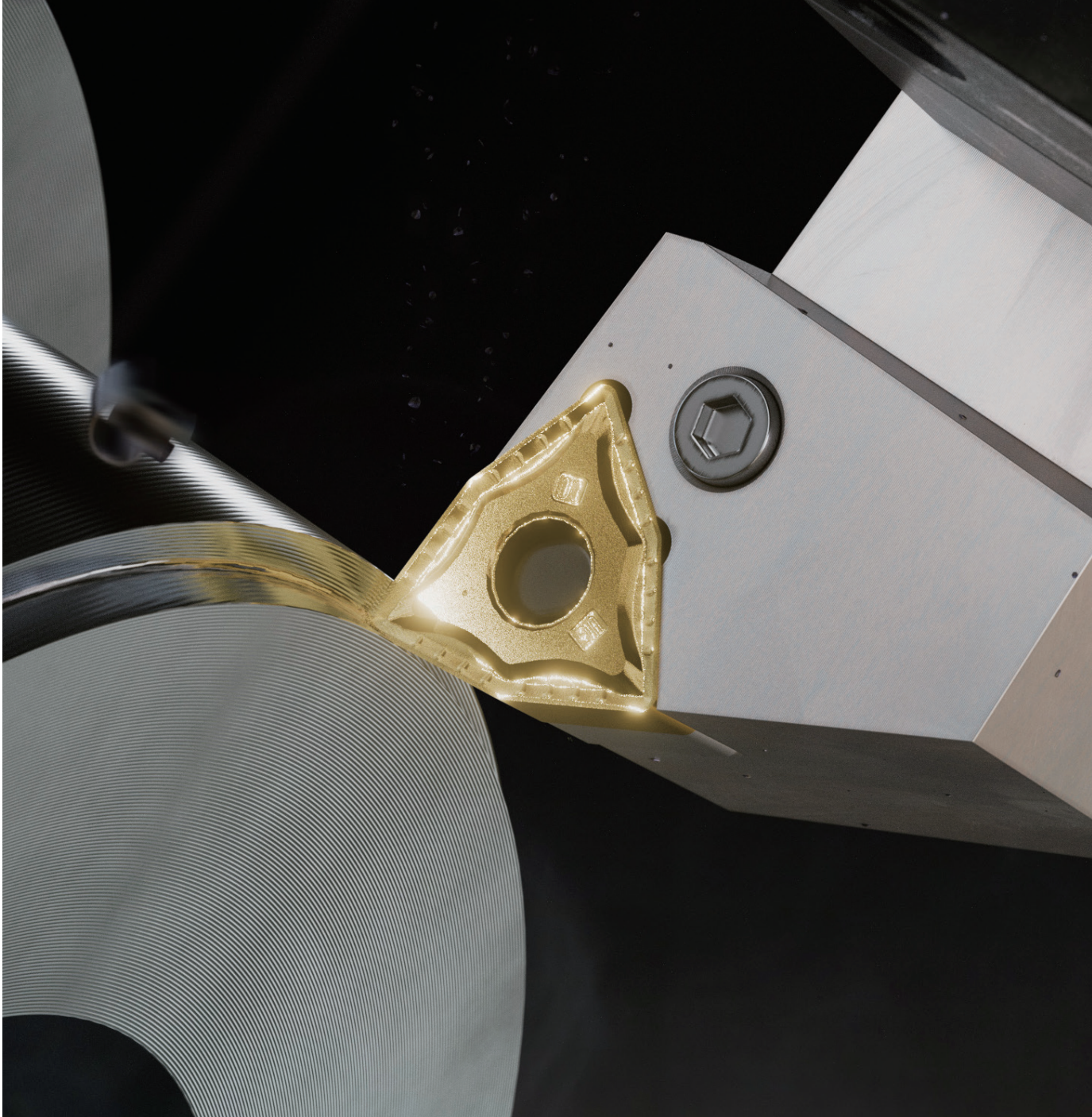




ISO TURNING

Product Overview

Application Guide

Turning Inserts Overview

Turning Inserts

Turning Holders Overview

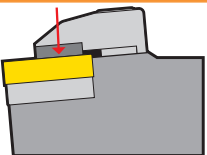
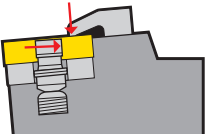
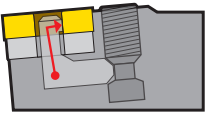
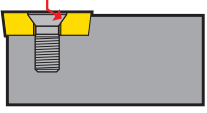
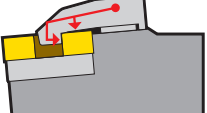
Turning Holders

External Turning Holder Code (Inch)

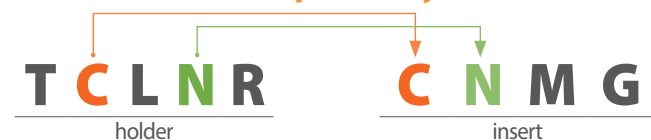
*Inch

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

1 - Clamping System

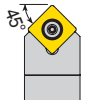
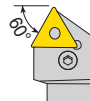
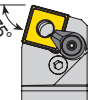
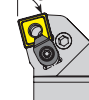
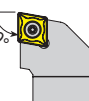
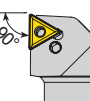
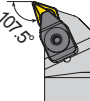
Symbol	System
C	 Top Clamp (No Clamping Hole Insert)
M	 Multi lock (Straight Clamping Hole Insert)
P	 Lever Lock (Straight Clamping Hole Insert)
S	 Screw Clamp (Screw Clamping Hole Insert)
D	 Double Clamp (Straight Clamping Hole Insert)

2, 4 — Insert Compatibility *



* Related to Insert Designation to check compatibility

3 - Tool Style

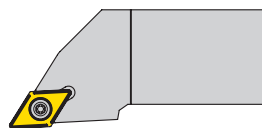
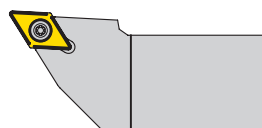
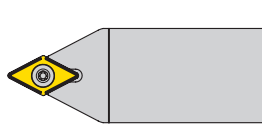
Approach Angle (KAPR)	Side Direction		End Direction
	Straight Shank	Offset Shank	
45°	D 	S 	
60°		T 	
62.5°	N 		
72.5°	V 		
75°	B 		K 
90°	A 	G 	F 
93°		J 	U
95°		L (Both Directions) 	
107.5°		H 	

External Turning Holder Code (Inch)

*Inch

1	2	3	4	5	6	7	8
M	W	L	N	R	16	3	D
Clamping System	Insert Shape (1st Letter of Insert)	Tool Style	Insert Clearance (2nd Letter of Insert)	Tool Hand	Shank Width(B) & Height(H)	Insert Size	Length (LF)

5 - Hand Direction

Symbol	Hand Direction
R	Right Hand 
L	Left Hand 
N	Neutral 

7 - Insert Size *

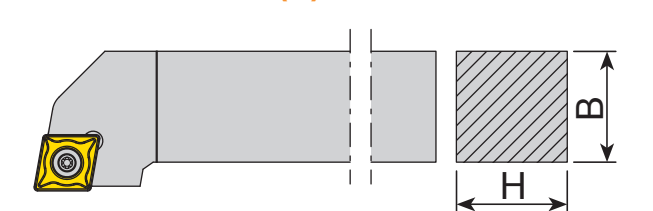
Example	is Compatible with...
MCLNR 12 4B	CNMG432
MTJNR 16 3B	TNMG331

* Related to Insert Designation to check compatibility

8 - Length (LF)

Symbol	Length (Inch)	Symbol	Length (Inch)
A	4.000	M	4.000
B	4.500	N	4.500
C	5.000	P	5.000
D	6.000	R	6.000
E	7.000	S	7.000
F	8.000	T	8.000
G	5.500	U	5.500
H	5.625	V	3.500
J	5.300	W	3.500
K	14.000	Y	3.750
L	6.800	X	Special

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



Number	Hight (H)	Width (B)	Number	Hight (H)	Width (B)
05	.3125	.3125	24	1.500	1.500
06	.375	.375	32	2.000	2.000
08	.500	.500	64	1.000	.750
10	.625	.625	66	1.500	1.750
12	.750	.750	85	1.250	1.000
16	1.000	1.000	86	1.500	1.000
20	1.250	1.250	91	1.500	1.250

Insert ISO Code System

*Metric : According to ISO 1832

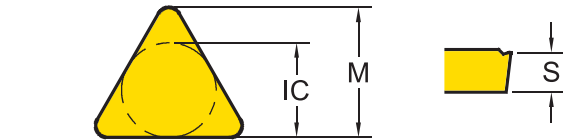
1	2	3	4	5	6	7	8	9
C	N	M	G	12	04	08	-UG	YG3115
Shape	Clearance	Tolerance	Clamping & Chipbreaker	Insert Size	Insert Thickness	Corner Radius	Chipbreaker Geometry	Grade

1 - Shape

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

2 - Relief Angle (AN)

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



3 - Tolerance Class

Symbol	Inner Circle IC (inch)	Nose Height M (inch)	Thickness S (inch)
C	±.0010	±.0005	±.0010
E	±.001	±.0010	±.001
G	±.001	±.0010	±.005
H	±.0005	±.0005	±.0010
K*	±.002~.006*	±.0005	±.005
M*	±.002~.006*	±.003~.010*	±.005
U*	±.003~.010*	±.005~.015*	±.005

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

4 - Clamping & Chip breaker

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

Insert ISO Code System

*Inch

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

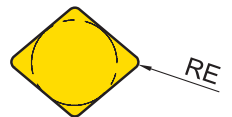
5 - Insert Size

Metric							Inner Circle IC (inch)	Inch
06	11	06	07	11			1/4	2
07	13	08	09	13	15		5/16	2.5
09	16	09	11	16	06	09 (00)	3/8	3
12	22	12	15	22	08	12 (00)	1/2	4
15	27	16	19	27	10		5/8	5
19	33	19	23	33	13		3/4	6
25		25					1	8
						06 (M0)	.236	
						08 (M0)	.315	
						10 (M0)	.394	
						12 (M0)	.472	
						16 (M0)	.630	



6 - Insert Thickness (S)

Metric	Thickness - S (inch)	Inch
T1	5/64	1.2
02	3/32	1.5
03	1/8	2
T3	5/32	2.5
04	3/16	3
05	7/32	3.5
06	1/4	4
07	5/16	5
09	3/8	6



7 - Corner Radius (RE)

Metric	Corner Radius - RE (inch)	Inch
01	.004	0
02	.008	.5
04	1/64	1
08	1/32	2
12	3/64	3
16	1/16	4
20	5/64	5
24	3/32	6

Grade Naming System

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

1 - YG Brand

2 - Workpiece Material

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

3 - Grade Version

4 & 5 - Application Range

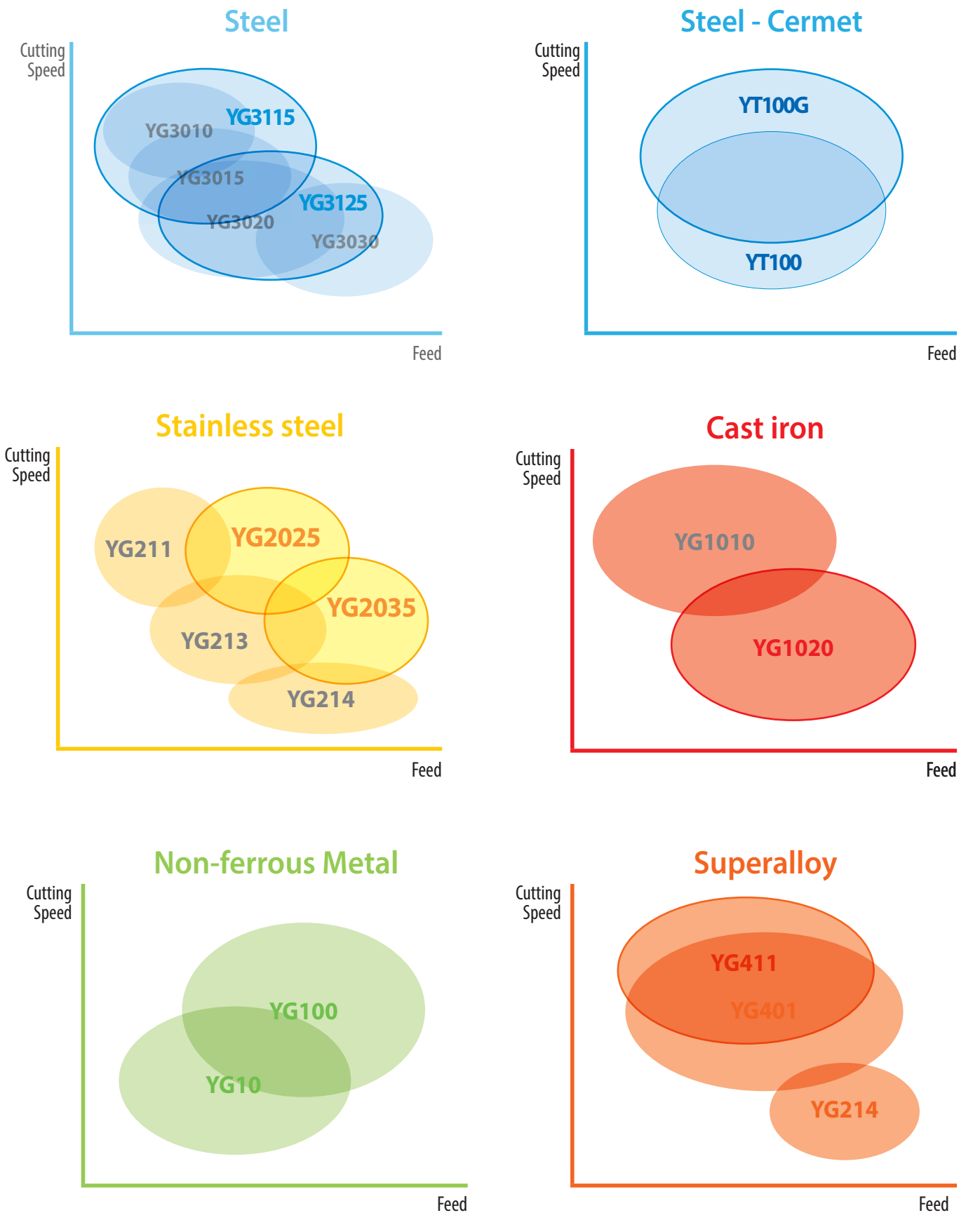
Symbol	
05	Stable Wear Resistant Grade Stable Application Continuous Cut Finishing
10	
15	
20	
25	
30	General Balanced Grade High Versatility General Application
35	
40	
45	
	Unstable Tougher Grade Unstable Application Interrupted Cut Chipping Resistance Roughing

(6) - (Minor Variation)

G - Gold Coated Version

Product Overview

Turning Grades Map

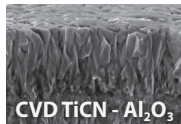


Product Overview
Turning Grades

Turning Grades		P Steel				M Stainless steel			K Cast iron			N Non-ferrous		S Superalloys	
		P10	P20	P30	P40	M10	M20	M30	K10	K20	K30	N10	N20	S10	S20
CVD	YG1010								1010						
	YG1001	1001							1001						
	YG1020								1020						
	YG3010	3010							3010						
	YG3015	3015													
	YG3115	3115													
	YG3125		3125												
	YG3020		3020												
	YG3030		3030												
	YG2025					2025									
PVD	YG2035							2035							
	YG801	801													
	YG211					211									
	YG213						213								
	YG214							214							214
	YG401													401	
Cermet	YG411													411	
	YT100	YT100				YT100			YT100						
DLC	YT100G	YT100G				YT100G			YT100G						
	YG100											100			
-	YG10											10			

YG1010

K05 - K15



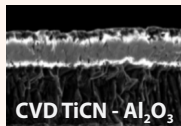
First Choice for Cast Iron

- Effective coating structure enables high speed machining
- Special post treatment for improved chipping resistance

YG1001

P01 - P10

K10 - K25

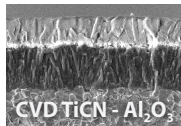


Stable Machining of Cast Iron

- Substrate especially designed for high wear resistance
- Thick Al₂O₃ layer ensures good wear resistance at high cutting speeds including dry machining

NEW YG1020

K15 - K25



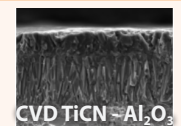
First choice for ductile cast iron

- Excellent wear and fracture resistance when machining ductile cast iron
- New coating ensures outstanding resistance to abrasion wear

YG3010

P05 - P20

K15 - K35

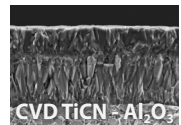


First choice for Finishing Steels, and Ductile Cast iron

- Finishing and light machining of steel under in stable condition
- New Al₂O₃ coating technology and excellent surface smoothness increase wear resistance and chipping resistance

YG3015

P10 - P25

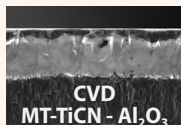


Balanced Productivity for Continuous cut

- High wear resistance and improved toughness ensures high productivity with less trouble

YG3115

P15 - P25

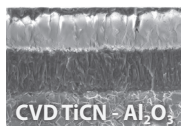


First choice grade for high cutting speed in Steels

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

NEW YG3125

P20 - P30



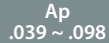
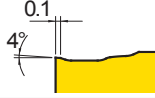
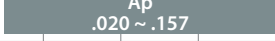
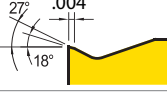
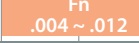
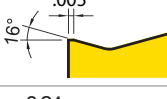
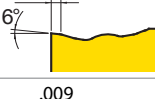
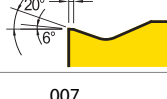
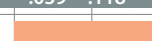
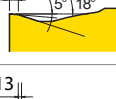
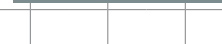
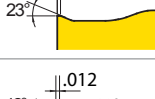
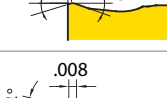
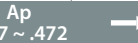
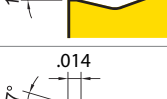
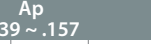
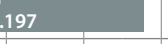
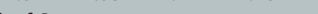
Recommended first grade for steel

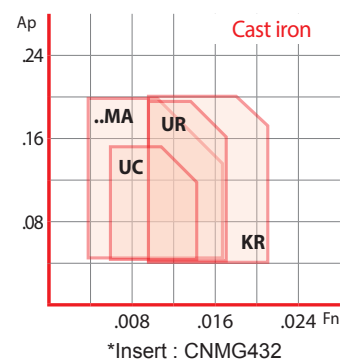
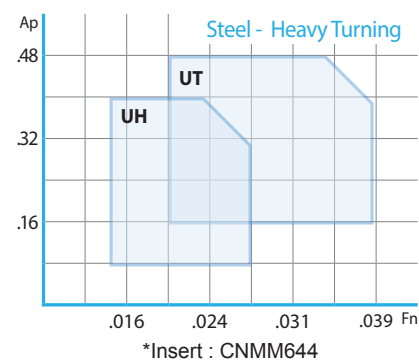
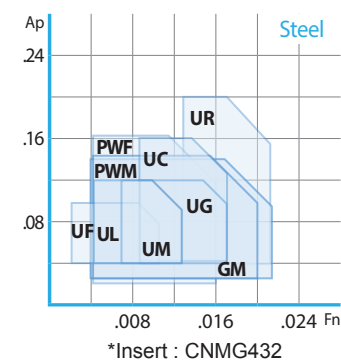
- New substrates with a unique combination of good toughness and plastic deformation resistance
- General Machining on steel

Product Overview
Turning Grades

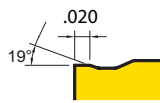
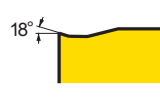
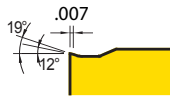
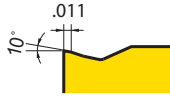
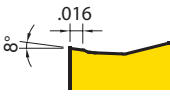
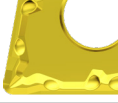
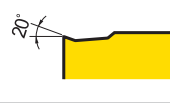
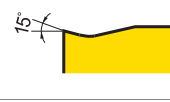
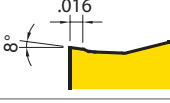
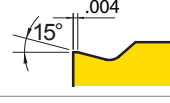
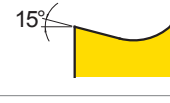
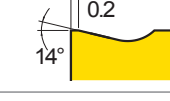
YG3020 P15 - P30		First Choice Grade for General Steel Application • Substrate especially designed for good toughness • Excellent surface smoothness increases wear resistance and reliability
YG3030 P20 - P35		Interrupted Cutting of Steel and Stainless steel • Substrate for heavy roughing in mild steel and low carbon alloy steel • New Al₂O₃ technology and optimized surface treatment achieves a good balance between wear resistance and chipping resistance
YG801 P10 - P30		for Carbon Steel with Low Cutting Speed • Recommended for mild steel and boring application • Substrate and special PVD coating for excellent wear resistance
YG2025 M15 - M35		CVD grade for High Cutting Speed for Stainless steel • Utilizing a new carbide substrate and new coating • Excellent combination of wear resistance and chipping resistance • Minimized built up edge due to post surface treatment
NEW YG2035 M30 - M40		CVD Coated Grade for stainless steel at Low Cutting Speed • Substrate withstands heavy interruption, while the coating provides the wear resistance needed for a long tool life • Smooth surface resists build-up edge, even at low cutting speeds
YG211 M05 - M25		High wear Resistance Grade for Stainless steel • Finishing Stainless steel
YG213 M20 - M35		First Choice Grade on Low Cutting Speed of Stainless steel • First choice on Stainless steel for Low cutting speed • For Medium to low cutting speed
YG214 M30 - M40 S25 - S30		Heavy Interrupted cut for Stainless steel • For Heavy Interrupted cut on Stainless steel • Minimize risk of Mechanical fracture or Chipping
YG401 S10 - S20		PVD Turning Grade for HRSA • Highly heat-resistant TiAlSiN structure for excellent wear resistance • Greatly improved film coating realizes excellent boundary defect resistance • Top coating layer provides a smooth surface and lubricant effect
NEW YG411 S05 - S15		PVD Turning Grade on High Cutting Speed for HRSA • Specialized cemented carbide substrate with excellent resistance to plastic deformation • Strong edge stability provides reliable tool life when machining heat-resistant alloys at high speeds • High-Al content coating provides superior oxidation resistance when machining heat-resistant alloys
YT100 P10 - P20 M10 - M20 K10 - K20		New Generation Cermet Grade • Enhanced wear resistance & chipping resistance • Excellent fracture resistance • Superior surface finish with special edge preparation
NEW YT100G P5 - P20 M5 - M20 K5 - K20		PVD-coated Cermet grade for turning • Outstanding wear resistance and a low coefficient of friction enable high-speed turning of steels, stainless steels, and cast irons with extended tool life
YG100 N05 - N25		First Choice Grade for Aluminum with DLC Coating • Submicron carbide for high wear resistance • DLC coating minimizes Built Up Edge tendency. • Improve tool life in sticky non-ferrous alloy
YG10 N05 - N25		Uncoated Grade for General Aluminum • Substrate consisted of submicron carbide for high wear resistance • Shining surface to prevent built up edge

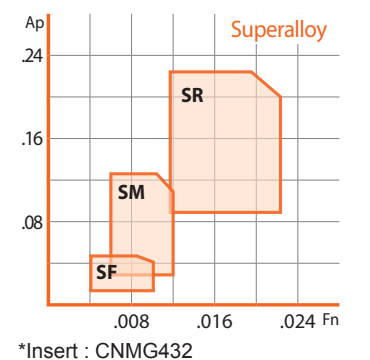
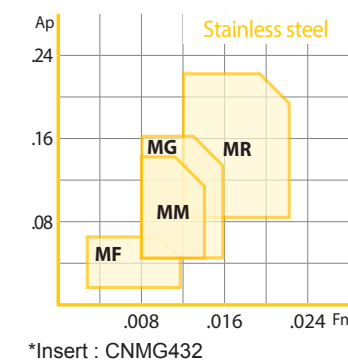
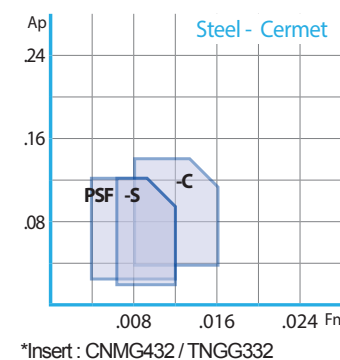
Turning Chipbreakers - Negative

P	M	K	N	S			Feed	Fn (inch/rev.)							
								0	.004	.008	.012	.016	.020	.024	
P					UF		Finishing 								
P					NEW PWF		Wiper-Finishing 								
P					UL		Semi Finishing and sticky materials 								
P					UM		Medium & Unstable conditions 								
P					NEW GM		Medium machining for steel & Stainless steel 								
P					UG		First Choice for Medium (Stable conditions) 								
P					PWM		Wiper-Medium 								
P					UH		Low cutting force 								
P					UT		Heavy roughing 								
P		K			UC		Medium Roughing and First choice for Cast iron 								
P		K			UR		Roughing and Heavy interrupted cut 								
		K			..MA		Cast iron Heavy Roughing 								
								0	.04	.08	.12	.16	.20	.24	
								Depth of Cut						Ap (inch)	

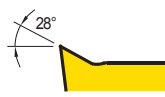
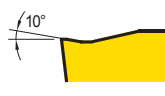
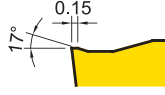
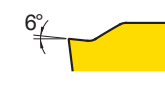
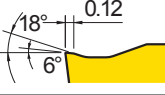
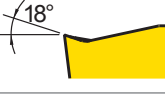
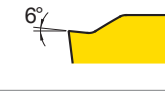
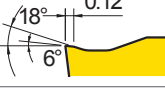


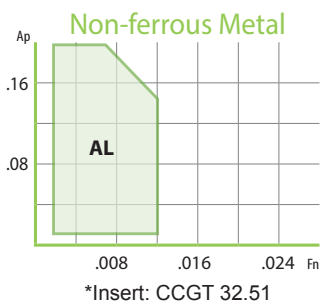
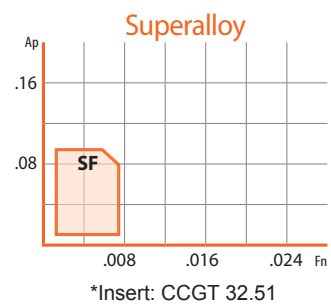
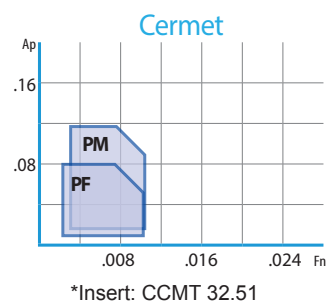
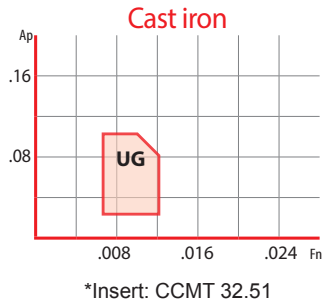
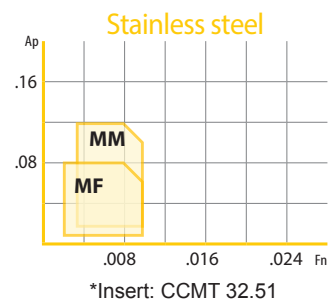
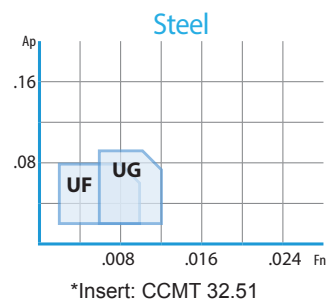
Turning Chipbreakers - Negative

P	M	K	N	S				Feed	Fn (inch/rev.)								
									0	.004	.008	.012	.016	.020	.024		
		K			KR		Cast Iron Heavy Roughing					Fn .012 ~ .024					
									Ap .039 ~ .197								
	M			S	MF		Stainless steel Finishing			Fn .003 ~ .012							
									Ap .008 ~ .059								
P	M			S	MM		Stainless steel Medium and Low Carbon Steel				Fn .008 ~ .014						
									Ap .039 ~ .138								
	M			S	MG		Stainless steel General				Fn .008 ~ .016						
									Ap .039 ~ .157								
	M			S	MR		Stainless steel Roughing				Fn .012 ~ .022						
									Ap .079 ~ .217								
				S	SF		HRSA Finishing			Fn .004 ~ .010							
									Ap .008 ~ .039								
				S	SM		HRSA Medium				Fn .006 ~ .012						
									Ap .020 ~ .118								
				S	SR		Roughing for HRSA				Fn .012 ~ .022						
									Ap .079 ~ .217								
P	M	K			PSF		Cermet Finishing to Semi medium			Fn .004 ~ .012							
									Ap .024 ~ .118								
P	M	K			NEW -S		Cermet Finishing			Fn .004 ~ .008							
									Ap .016 ~ .079								
P	M	K			-C		Cermet Medium				Fn .008 ~ .016						
									Ap .039 ~ .138								
									0	.04	.08	.12	.16	.20	.24		
									Depth of Cut							Ap (inch)	



Product Overview
Turning Chipbreakers - Positive

P	M	K	N	S			Feed						Fn (inch/rev.)
							0	.004	.008	.012	.016	.020	.024
			N		AL	Aluminum application 	Fn .001 ~ .012		Ap .004 ~ .197				
P	M				UF	Finishing application 	Fn .002 ~ .010		Ap .020 ~ .079				
P		K			UG	Medium application 	Fn .006 ~ .012		Ap .020 ~ .098				
	M				MF	Stainless steel Finishing 	Fn .002 ~ .012		Ap .004 ~ .079				
	M				MM	Stainless steel Medium 	Fn .002 ~ .014		Ap .010 ~ .118				
				S	SF	HRSA Finishing 	Fn .001 ~ .008		Ap .004 ~ .098				
P	M	K			PF	Finishing 	Fn .002 ~ .010		Ap .004 ~ .079				
P	M	K			PM	Medium 	Fn .003 ~ .010		Ap .010 ~ .118				
						Depth of Cut	0	.04	.08	.12	.16	.20	.24
							Ap (inch)						



Turning Inserts Overview

Negative Inserts

Recommended Cutting Conditions : p.190

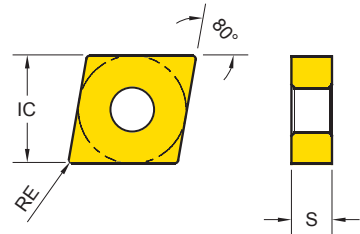
Shape	Series	Size & Thickness							Page
		32	33	43	54	64	85	86	
C	CNMA			43	54	64			26
	CNMG	32	33	43	54	64		86	
	CNGG			43					
	CNMM			43	54	64	85	86	
D	DNMA			43	44				31
	DNMG		33	43	44				
	DNGG			43	44				
	DNMM				44				
	DNUX			43	44				36
K	KNUX				1604 (mm)				37
S	SNMA			43	54	64			38
	SNMG	32		43	54	64		86	
	SNMM				54	64	85	86	
T	TNMA		33						42
	TNMG		33	43					
	TNGG		33						
	TNMM		33	43					
	TNUX		33						48
V	VNMA		33						49
	VNMG		33						
	VNGG		33						
W	WNMA		33	43					51
	WNMG		33	43					
	WNGG			43					

Positive Inserts

Shape	Series	Size & Thickness							Page
		21.5		32.5		43			
C	CCGT	21.5		32.5		43			55
	CCMT	21.5		32.5		43			
D	DCGT	21.5		32.5					58
	DCMT	21.5		32.5					
R	RCMT	0602	0803		10T3	1204	1606		60
	RCMX				1606	2006	2507	3209	61
S	SCGT			32.5					62
	SCMT			32.5			43		
T	TCGT	21.5		32.5					64
	TCMT	1.81	21.5	32.5					
V	VBGT / VBMT		22		33				66
	VCGT / VCMT		22		33				67

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

Refer to
Turning holder
p. 87



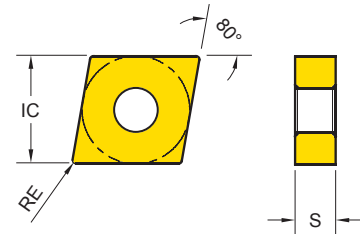
Series	IC	S	Series	IC	S
CN.. 32	.375	.125	CN.. 54	.625	.250
CN.. 33	.375	.187	CN.. 64	.750	.250
CN.. 43	.500	.187			

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

CNMA CNMG	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
..MA Cast iron	CNMA431	.016	.006 ~ .020	.020 ~ .197	●	○	●	○																	
	CNMA432	.031	.006 ~ .020	.039 ~ .197	●	○	●	○																	
	CNMA433	.047	.006 ~ .020	.059 ~ .197	●	○	●	○																	
	CNMA434	.063	.006 ~ .020	.079 ~ .197	●	○	●	○																	
	CNMA543	.047	.006 ~ .020	.059 ~ .197	●	○	●	○																	
	CNMA544	.063	.006 ~ .020	.079 ~ .197	●	○	●	○																	
	CNMA643	.047	.006 ~ .020	.059 ~ .354	●	○	●	○																	
	CNMA644	.063	.006 ~ .039	.118 ~ .394	●	○	●	○																	
-UF Finishing	CNMG431-UF	.016	.002 ~ .010	.020 ~ .098			○			●	●	●	○												
	CNMG432-UF	.031	.002 ~ .010	.039 ~ .098			○			●	●	●	○												
	CNMG433-UF	.047	.002 ~ .010	.059 ~ .098			○			●	●	●	○												
NEW -PWF Wiper-Finishing	CNMG431-PWF	.016	.003 ~ .012	.012 ~ .157	●					●	●		●												
	CNMG432-PWF	.031	.004 ~ .016	.020 ~ .157	●					●	●		●												
-UL Light Machining and Sticky Material	CNMG322-UL	.031	.004 ~ .012	.039 ~ .098			○			●	●	●	●												
	CNMG323-UL	.047	.004 ~ .012	.059 ~ .098			○			●	●	●	●												
	CNMG332-UL	.031	.004 ~ .012	.039 ~ .098			○			●	●	●	●												
	CNMG333-UL	.047	.004 ~ .012	.059 ~ .098			○			●	●	●	●												
	CNMG431-UL	.016	.004 ~ .012	.020 ~ .118			○			●	●	●	●												
	CNMG432-UL	.031	.004 ~ .012	.039 ~ .118			○			●	●	●	●												
	CNMG433-UL	.047	.004 ~ .012	.059 ~ .118			○			●	●	●	●												
	CNMG431-UM	.016	.006 ~ .012	.020 ~ .118	●	○				●	●	●	●												
-UM Medium Machining Unstable condition	CNMG432-UM	.031	.006 ~ .012	.039 ~ .118	●	○				●	●	●	●												
	CNMG433-UM	.047	.006 ~ .012	.059 ~ .118	●	○				●	●	●	●												
	CNMG431-GM	.016	.004 ~ .016	.000 ~ .000						●	●														
NEW -GM Medium machining for steel & Stainless steel	CNMG432-GM	.031	.004 ~ .020	.000 ~ .000						●	●														
	CNMG433-GM	.047	.008 ~ .022	.039 ~ .000						●	●														

Turning Inserts - Negative CNMG (80° Rhombic)

Refer to
Turning holder
p. 87



Series	IC	S	Series	IC	S
CN.. 43	.500	.187	CN.. 64	.750	.250
CN.. 54	.625	.250	CN.. 86	1.000	.375

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

CNMG	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-UG Medium Machining at stable condition	CNMG431-UG	.016	.008 ~ .016	.020 ~ .118	●	○	●	○																	
	CNMG432-UG	.031	.008 ~ .016	.039 ~ .118	●	○	●	○																	
	CNMG433-UG	.047	.008 ~ .016	.059 ~ .118	●	○	●	○																	
	CNMG542-UG	.031	.008 ~ .016	.039 ~ .197	●	○	●	○																	
	CNMG543-UG	.047	.008 ~ .016	.059 ~ .197	●	○	●	○																	
	CNMG544-UG	.063	.012 ~ .020	.079 ~ .197	●	○	●	○																	
	CNMG642-UG	.031	.008 ~ .024	.039 ~ .236	●	○	●	○																	
	CNMG643-UG	.047	.008 ~ .024	.059 ~ .236	●	○	●	○																	
-PWM Wiper-Medium	CNMG431-PWM	.016	.004 ~ .020	.020 ~ .138	●	○				●	●	●	●												
	CNMG432-PWM	.031	.004 ~ .020	.031 ~ .138	●	○				●	●	●	●												
	CNMG433-PWM	.047	.004 ~ .020	.039 ~ .138	●	○				●	●	●	●												
-UC Cast iron and Medium roughing	CNMG431-UC	.016	.008 ~ .016	.020 ~ .157	●	○	●	○																	
	CNMG432-UC	.031	.008 ~ .016	.039 ~ .157	●	○	●	○																	
	CNMG433-UC	.047	.008 ~ .016	.059 ~ .157	●	○	●	○																	
-UR Roughing	CNMG432-UR	.031	.012 ~ .020	.039 ~ .197	●	○	●	○																	
	CNMG433-UR	.047	.012 ~ .020	.059 ~ .197	●	○	●	○																	
	CNMG434-UR	.063	.012 ~ .020	.079 ~ .197	●	○	●	○																	
	CNMG542-UR	.031	.012 ~ .020	.039 ~ .197	●	○	●	○																	
	CNMG543-UR	.047	.012 ~ .020	.059 ~ .197	●	○	●	○																	
	CNMG544-UR	.063	.012 ~ .020	.079 ~ .197	●	○	●	○																	
	CNMG642-UR	.031	.012 ~ .031	.118 ~ .354	●	○	●	○																	
	CNMG643-UR	.047	.012 ~ .031	.118 ~ .354	●	○	●	○																	
-KR Cast Iron Heavy Roughing	CNMG432-KR	.031	.012 ~ .024	.039 ~ .197	●	○	●	○																	
	CNMG433-KR	.047	.012 ~ .024	.059 ~ .197	●	○	●	○																	
	CNMG543-KR	.047	.012 ~ .024	.059 ~ .236	●	○	●	○																	
	CNMG544-KR	.063	.012 ~ .024	.079 ~ .236	●	○	●	○																	
	CNMG643-KR	.047	.012 ~ .039	.118 ~ .354	●	○	●	○																	
					2264																				

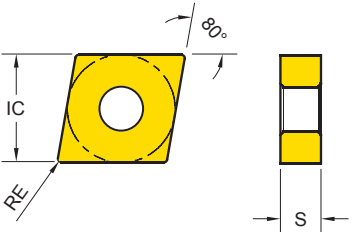
Turning Inserts - Negative
CNMG (80° Rhombic)

Refer to
Turning holder
p.87

Turning Inserts - Negative
CNGG / CNMG (80° Rhombic)

Refer to
Turning holder
p.87

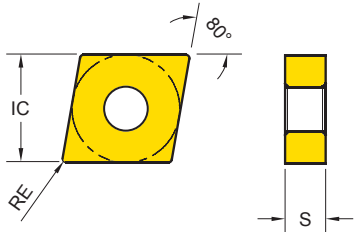
					Series	IC	S
					CN.. 43	.500	.187
					CN.. 54	.625	.250
					CN.. 64	.750	.250



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

CNMG	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	P05 K20	P10 K20	P15 K30	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
-MF 	CNMG431-MF	.016	.003 ~ .012	.008 ~ .059																					
	CNMG432-MF	.031	.003 ~ .012	.008 ~ .059																					
	CNMG433-MF	.047	.003 ~ .012	.008 ~ .059																					
-MM 	CNMG431-MM	.016	.008 ~ .014	.020 ~ .138																					
	CNMG432-MM	.031	.008 ~ .014	.039 ~ .138																					
	CNMG433-MM	.047	.008 ~ .014	.059 ~ .138																					
	CNMG642-MM	.031	.008 ~ .020	.079 ~ .217																					
-MG 	CNMG431-MG	.016	.008 ~ .016	.020 ~ .157																					
	CNMG432-MG	.031	.008 ~ .016	.039 ~ .157																					
	CNMG433-MG	.047	.008 ~ .016	.059 ~ .157																					
	CNMG542-MG	.031	.008 ~ .018	.039 ~ .157																					
	CNMG543-MG	.047	.008 ~ .020	.079 ~ .157																					
	CNMG544-MG	.063	.008 ~ .020	.079 ~ .157																					
-MR 	CNMG432-MR	.031	.012 ~ .022	.079 ~ .217																					
	CNMG433-MR	.047	.012 ~ .022	.079 ~ .217																					
	CNMG434-MR	.063	.012 ~ .022	.079 ~ .217																					
	CNMG544-MR	.063	.012 ~ .022	.079 ~ .000																					

					Series	IC	S
					CN.. 43	.500	.187

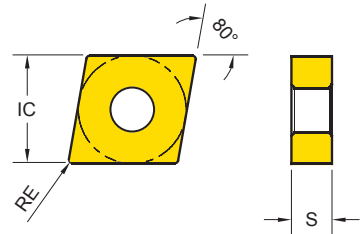


EDP 2200.. ● : Stock item ○ : Order made item

CNGG CNMG	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	P05 K20	P10 K20	P15 K30	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
-SF 	CNGG430-SF	.004	.004 ~ .010	.004 ~ .039																					
	CNGG430.5-SF	.008	.004 ~ .010	.004 ~ .039																					
	CNGG431-SF	.016	.004 ~ .010	.008 ~ .039																					
	CNGG432-SF	.031	.004 ~ .010	.008 ~ .039																					
-SF 	CNMG431-SF	.016	.004 ~ .010	.008 ~ .039																					
	CNMG432-SF	.031	.004 ~ .010	.016 ~ .039																					
-SM 	CNMG431-SM	.016	.006 ~ .012	.020 ~ .118																					
	CNMG432-SM	.031	.006 ~ .012	.020 ~ .118																					
	CNMG433-SM	.047	.006 ~ .012	.020 ~ .118																					
-SR 	CNMG432-SR	.031	.012 ~ .022	.079 ~ .217																					
	CNMG433-SR	.047	.012 ~ .022	.079 ~ .217																					
	CNMG434-SR	.063	.012 ~ .022	.079 ~ .217																					
-PSF 	CNMG431-PSF	.016	.003 ~ .012	.016 ~ .118																					
	CNMG432-PSF	.031	.004 ~ .014	.024 ~ .118																					

Turning Inserts - Negative CNMM - Heavy Turning (80° Rhombic)

Refer to
Turning holder
p. 87



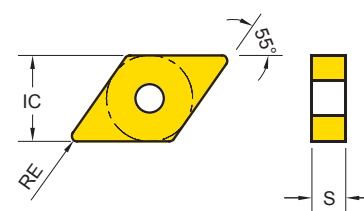
Series	IC	S	Series	IC	S
CN.. 43	.500	.187	CN.. 64	.750	.250
CN.. 54	.625	.250	CN.. 85	1.000	.313
			CN.. 86	1.000	.375

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

CNMM	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
- UH  Low cutting force	CNMM432-UH	.031	.012 ~ .020	.059 ~ .197						●	●	●	●	●	●										
	CNMM433-UH	.047	.012 ~ .022	.063 ~ .197						●					●										
	CNMM434-UH	.063	.012 ~ .024	.079 ~ .197						●					●										
	CNMM543-UH	.047	.014 ~ .024	.079 ~ .217						●	●	●	●	●	●										
	CNMM544-UH	.063	.014 ~ .024	.098 ~ .217						●	●	●	●	●	●										
	CNMM643-UH	.047	.014 ~ .028	.059 ~ .354	●			●		●	●	●	●	●	●										
	CNMM644-UH	.063	.014 ~ .028	.079 ~ .354	●			●		●	●	●	●	●	●										
	CNMM646-UH	.094	.014 ~ .028	.118 ~ .354	●			●		●	●	●	●	●	●										
	CNMM856-UH	.094	.016 ~ .031	.118 ~ .394						●					●										
	CNMM866-UH	.094	.016 ~ .031	.118 ~ .394	●			●		●	●	●	●	●	●										
- UT  Heavy Roughing	CNMM432-UT	.031	.016 ~ .028	.059 ~ .236						●	●	●	●	●	●										
	CNMM543-UT	.047	.018 ~ .028	.079 ~ .236						●	●	●	●	●	●										
	CNMM544-UT	.063	.018 ~ .028	.098 ~ .236						●	●	●	●	●	●										
	CNMM643-UT	.047	.020 ~ .039	.118 ~ .472	●	○	●			●	●	●	●	●	●										
	CNMM644-UT	.063	.020 ~ .039	.157 ~ .472	●	○	●			●	●	●	●	●	●										
	CNMM646-UT	.094	.020 ~ .039	.236 ~ .472	●	○	●			●	●	●	●	●	●										
	CNMM856-UT	.094	.016 ~ .031	.118 ~ .394						●					●										
	CNMM866-UT	.094	.022 ~ .047	.236 ~ .512	●	○	●			●	●	●	●	●	●										

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

Refer to
Turning holder
p. 88



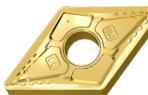
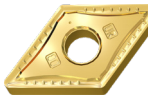
EDP 2200.. ● : Stock item ○ : Order made item

DNMA DNMG	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
..MA  Cast iron	DNMA431	.016	.004 ~ .020	.020 ~ .197	●	○	○	○																	
	DNMA432	.031	.006 ~ .020	.039 ~ .197	●	○	○	○																	
	DNMA433	.047	.006 ~ .020	.059 ~ .197	●	○	○	○																	
	DNMA441	.016	.004 ~ .020	.020 ~ .197	●	○	○	○																	
	DNMA442	.031	.006 ~ .020	.039 ~ .197	●	○	○	○																	
-UF  Finishing	DNMA443	.047	.006 ~ .020	.059 ~ .197	●	○	○	○																	
	DNMG431-UF	.016	.002 ~ .010	.020 ~ .098			○	○	●	●	●	●	○		○										
	DNMG432-UF	.031	.002 ~ .010	.039 ~ .098			○	○	●	●	●	●	○		○										
	DNMG433-UF	.047	.002 ~ .010	.059 ~ .098			○	○	●	●	●	●	○		○										
	DNMG441-UF	.016	.002 ~ .010	.020 ~ .098			○	○	●	●	●	●	○		○										
NEW -PWF  Wiper-Finishing	DNMG442-UF	.031	.002 ~ .010	.039 ~ .098			○	○	●	●	●	●	○		○										
	DNMG443-UF	.047	.002 ~ .010	.059 ~ .098			○	○	●	●	●	●	○		○										
	DNMG331-PWF	.016	.003 ~ .012	.012 ~ .098	●				●	●	●	●	●		●										
	DNMG332-PWF	.031	.004 ~ .016	.020 ~ .098	●				●	●	●	●	●		●										
	DNMG432-PWF	.031	.004 ~ .016	.020 ~ .138	●				●	●	●	●	●		●										
-UL  Light Machining and Sticky Material	DNMG442-PWF	.031	.004 ~ .016	.020 ~ .138	●				●	●	●	●	●		●										
	DNMG331-UL	.016	.004 ~ .012	.020 ~ .098			○	○	●	●	●	●	○		○										
	DNMG332-UL	.031	.004 ~ .012	.039 ~ .098			○	○	●	●	●	●	○		○										
	DNMG431-UL	.016	.004 ~ .012	.020 ~ .118			○	○	●	●	●	●	○		○										
	DNMG432-UL	.031	.004 ~ .012	.039 ~ .118			○	○	●	●	●	●	○		○										
	DNMG433-UL	.047	.004 ~ .012	.059 ~ .118			○	○	●	●	●	●	○		○										
	DNMG441-UL	.016	.004 ~ .012	.020 ~ .118			○	○	●	●	●	●	○		○										
	DNMG442-UL	.031	.004 ~ .012	.039 ~ .118			○	○	●	●	●	●	○		○										
	DNMG443-UL	.047	.004 ~ .012	.059 ~ .118			○	○	●	●	●	●	○		○										

Turning Inserts - Negative
DNMG (55° Rhombic)

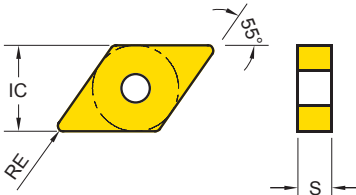
Refer to
Turning holder
p.88

Refer to
Turning holder
p.88

					Series																IC	S					
					DN.. 33																.375	.187					
					DN.. 43																.500	.187					
					DN.. 44																.500	.250					
					EDP 2200..																● : Stock item ○ : Order made item						
					K10	P05	K20	P10	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40	S10	S10	P15	P10	M15	M10	N20	N20
					K20	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG100	YG100	YG100
DNMG	Designation	RE	Fn (In/rev.)	Ap (In)																							
 -UM Medium Machining Unstable condition	DNMG431-UM	.016	.006 ~ .012	.020 ~ .118	○	○		○		●	●	●	●														
	DNMG432-UM	.031	.006 ~ .012	.039 ~ .118		○		○		○	○	○	○														
	DNMG433-UM	.047	.006 ~ .012	.059 ~ .118		○		○		○	○	○	○														
	DNMG441-UM	.016	.006 ~ .012	.020 ~ .118		○		○		○	○	○	○														
	DNMG442-UM	.031	.006 ~ .012	.039 ~ .118		○		○		○	○	○	○														
 -GM Medium machining for steel & Stainless steel	DNMG431-GM	.016	.006 ~ .016	.020 ~ .157						●	●					●											
	DNMG432-GM	.031	.007 ~ .020	.031 ~ .157						●	●					●											
	DNMG433-GM	.047	.008 ~ .022	.039 ~ .157						●	●					●											
	DNMG442-GM	.031	.007 ~ .020	.031 ~ .157						●	●					●											
	DNMG443-GM	.047	.008 ~ .022	.039 ~ .157						●	●					●											
 -UG Medium Machining at stable condition	DNMG332-UG	.031	.008 ~ .016	.039 ~ .098						●																	
	DNMG333-UG	.047	.008 ~ .016	.059 ~ .098						●																	
	DNMG431-UG	.016	.008 ~ .016	.020 ~ .118	●	○	●	○		●	●	●	●														
	DNMG432-UG	.031	.008 ~ .016	.039 ~ .118	●	○	●	○		●	●	●	●														
	DNMG433-UG	.047	.008 ~ .016	.059 ~ .118	●	○	●	○		●	●	●	●														
	DNMG441-UG	.016	.008 ~ .016	.020 ~ .118	●	○	●	○		●	●	●	●														
	DNMG442-UG	.031	.008 ~ .016	.039 ~ .118	●	○	●	○		●	●	●	●														
	DNMG443-UG	.047	.008 ~ .016	.059 ~ .118	●	○	●	○		●	●	●	●														
	DNMG444-UG	.063	.008 ~ .016	.071 ~ .118	●	○	●	○		●	●	●	●														
	DNMG431-UC	.016	.008 ~ .016	.020 ~ .157	●		●			●	●		●														
	DNMG432-UC	.031	.008 ~ .016	.039 ~ .157	●	○	●	○		●	●	●	●														
 -UC Cast iron and Medium roughing	DNMG433-UC	.047	.008 ~ .016	.059 ~ .157	●	○	●	○		●	●	●	●														
	DNMG441-UC	.016	.008 ~ .016	.020 ~ .157	●		●			●	●		●														
	DNMG442-UC	.031	.008 ~ .016	.039 ~ .157	●	○	●	○		●	●	●	●														
	DNMG443-UC	.047	.008 ~ .016	.059 ~ .157	●	○	●	○		●	●	●	●														
	DNMG432-UR	.031	.012 ~ .020	.039 ~ .197	●	○	●	○		●	●	●	●														
 -UR Roughing	DNMG433-UR	.047	.012 ~ .020	.059 ~ .197	●	○	●	○		●	●	●	●														
	DNMG442-UR	.031	.012 ~ .020	.039 ~ .197	●	○	●	○		●	●	●	●														
	DNMG443-UR	.047	.012 ~ .020	.059 ~ .197	●	○	●	○		●	●	●	●														
	DNMG444-UR	.063	.012 ~ .020	.071 ~ .197	●	○	●	○		●	●	●	●														

Turning Inserts - Negative
DNMG (55° Rhombic)

					Series		IC	S
					DN.. 33		.375	.187
					DN.. 43		.500	.187
					DN.. 44		.500	.250



					EDP 2200.. ● : Stock item ○ : Order made item																							
					K10	P05	K20	P10	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40	S10	S10	P15	P10	M15	M10	N20	N20	
					K20	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30
DNMG	Designation	RE	F _n (In/rev.)	A _p (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10			
 -MF Stainless steel Finishing	DNMG431-MF	.016	.003 ~ .012	.008 ~ .059						●					●	●	●	●	●	○		●	○					
	DNMG432-MF	.031	.003 ~ .012	.008 ~ .059						●						●	●	●	●	○			○					
	DNMG441-MF	.016	.003 ~ .012	.008 ~ .059						○						●	●	●	●	○								
	DNMG442-MF	.031	.003 ~ .012	.008 ~ .059						○	○	○	○			●	●	●	●	○								
 -MM Stainless steel Medium	DNMG431-MM	.016	.008 ~ .014	.020 ~ .138									○				●	●	●	○								
	DNMG432-MM	.031	.008 ~ .014	.039 ~ .138									○				●	●	●	○								
	DNMG433-MM	.047	.008 ~ .014	.059 ~ .138									○				●	●	●	○								
	DNMG441-MM	.016	.008 ~ .014	.020 ~ .138									○				●	●	●	○								
	DNMG442-MM	.031	.008 ~ .014	.039 ~ .138									○				●	●	●	○								
	DNMG443-MM	.047	.008 ~ .014	.059 ~ .138									○				●	●	●	○								
													○				●	●	●	○								
 -MG Stainless steel General	DNMG331-MG	.016	.008 ~ .016	.020 ~ .118											●	●												
	DNMG332-MG	.031	.008 ~ .016	.031 ~ .118												●	●											
	DNMG431-MG	.016	.008 ~ .016	.020 ~ .157												●	●											
	DNMG432-MG	.031	.008 ~ .016	.039 ~ .157						○						●	●	●	●	●	●							
	DNMG433-MG	.047	.008 ~ .016	.059 ~ .157												●	●											
	DNMG441-MG	.016	.008 ~ .016	.020 ~ .157												●	●											
	DNMG442-MG	.031	.008 ~ .016	.039 ~ .157						●						●	●	●	●	●	●							
	DNMG443-MG	.047	.008 ~ .016	.059 ~ .157												●	●											
																●	●											
 -MR Stainless steel Roughing	DNMG432-MR	.031	.012 ~ .022	.079 ~ .217									○		●	●	●	●	●									
	DNMG433-MR	.047	.012 ~ .022	.079 ~ .217												●	●	●	●	●								
	DNMG442-MR	.031	.012 ~ .022	.079 ~ .217										○		●	●	●	●	●								
	DNMG443-MR	.047	.012 ~ .022	.079 ~ .217												●	●	●	●	●								
																●	●	●	●	●								

Turning Inserts - Negative
DNGG / DNMG (55° Rhombic)

Refer to
Turning holder
p.88

Turning Inserts - Negative
DNMM - Heavy Turning (55° Rhombic)

Refer to
Turning holder
p.88

TURNING

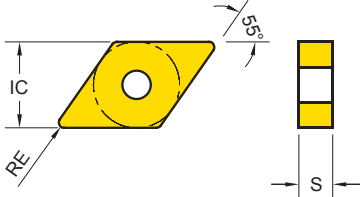
PARTING & GROOVING

MILLING

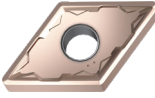
DRILLING

TECHNICAL INFORMATION

					Series																IC		S	
					DN.. 43																.500		.187	
					DN.. 44																.500		.250	



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

DNGG DNMG	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15	P10 M10	N20	N20
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100
-SF  HRSA Finishing	DNGG431-SF	.016	.004 ~ .010	.008 ~ .039																●	●			
	DNGG432-SF	.031	.004 ~ .010	.008 ~ .039																●	●			
	DNGG441-SF	.016	.004 ~ .010	.008 ~ .039																●	●			
	DNGG442-SF	.031	.004 ~ .010	.008 ~ .039																●	●			
-SF  HRSA Finishing	DNMG431-SF	.016	.004 ~ .010	.008 ~ .039																●	●			
	DNMG432-SF	.031	.004 ~ .010	.016 ~ .039																●	●			
	DNMG441-SF	.016	.004 ~ .010	.008 ~ .039																●	●			
	DNMG442-SF	.031	.004 ~ .010	.016 ~ .039																●	●			
-SM  HRSA Medium	DNMG432-SM	.031	.006 ~ .012	.020 ~ .118					○									○	○	○	●	●		
	DNMG433-SM	.047	.006 ~ .012	.020 ~ .118					○									○	○	○	●	●		
	DNMG442-SM	.031	.006 ~ .012	.020 ~ .118					●									○	○	○	●	●		
	DNMG443-SM	.047	.006 ~ .012	.020 ~ .118					○									○	○	○	●	●		
-SR  HRSA Roughing	DNMG432-SR	.031	.012 ~ .022	.079 ~ .217																●	●			
	DNMG433-SR	.047	.012 ~ .022	.079 ~ .217																●	●			
	DNMG442-SR	.031	.012 ~ .022	.079 ~ .217																●	●			
	DNMG443-SR	.047	.012 ~ .022	.079 ~ .217																●	●			
-PSF  Cermet Finishing	DNMG431-PSF	.016	.003 ~ .012	.016 ~ .118																	●	○		
	DNMG432-PSF	.031	.004 ~ .014	.024 ~ .118																	●	○		
	DNMG441-PSF	.016	.003 ~ .012	.016 ~ .118																	●	○		
	DNMG442-PSF	.031	.004 ~ .014	.024 ~ .118																	●	○		

TURNING

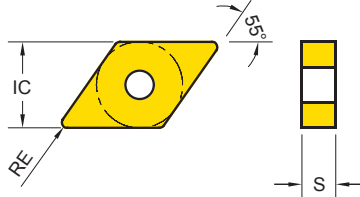
PARTING & GROOVING

MILLING

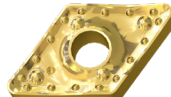
DRILLING

TECHNICAL INFORMATION

					Series		IC		S	
					DN.. 44		.500		.250	

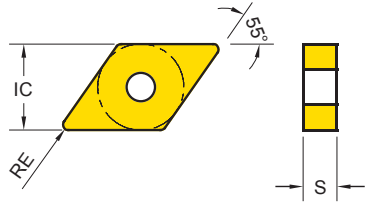


EDP 2200.. ● : Stock item ○ : Order made item

DNMM	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15	P10 M10	N20	N20
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100
-UH  Low cutting force	DNMM443-UH	.047	.012 ~ .020	.079 ~ .276					●	●	●	●	●	●	●									
									2731	3414	2327	2328		2769										
-UT  Heavy Roughing	DNMM443-UT	.047	.016 ~ .028	.079 ~ .315					●	●	●	●	●	●	●									
									2732	3415	2329	2330												

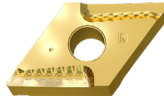
Turning Inserts - Negative
DNUX (4 Corners 55° Rhombic)

Refer to
Turning holder
p.88

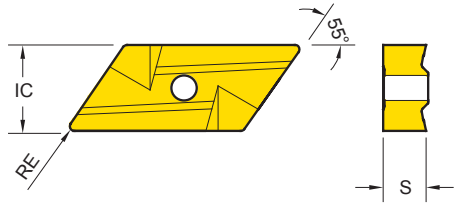


Series	IC	S
DNUX.. 43	.500	.187
DNUX.. 44	.500	.250

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

					K10	P05 K20	P10 K30	P15	P20	P25	P30	P20	M25	M35	M15	M30 S30	M40 S30	S10	S10	P15 K15	P10 K10	N20	N20			
DNUX					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10	
..UX		Left Hand Shown	DNUX431L	.016	.004 ~ .014	.028 ~ .157			○	●	●	●	●													
			DNUX432L	.031	.004 ~ .014	.039 ~ .157			○		●	●	●	●												
			DNUX441L	.016	.004 ~ .014	.028 ~ .157			○		●	●	●	●					●							
			DNUX442L	.031	.004 ~ .014	.039 ~ .157			○		●	●	●	●					●							
..UX		Right Hand Shown	DNUX431R	.016	.004 ~ .014	.028 ~ .157			○	●	●	●	●									●	○			
			DNUX432R	.031	.004 ~ .014	.039 ~ .157			○		●	●	●	●									2734	3612		
			DNUX441R	.016	.004 ~ .014	.028 ~ .157			○		●	●	●	●					●	●	●					
			DNUX442R	.031	.004 ~ .014	.039 ~ .157			○		●	●	●	●					●	●	●					

Turning Inserts - Negative
KNUX (2 Corners 55° Parallelogram)



Series	IC	S
KN.. 1604	.375	.187

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

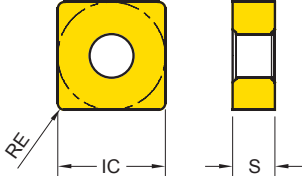
					K10	P05 K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 K15	P10 K10	N20	N20	
KNUX					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
..UX		KNUX160405L	.020	.004 ~ .016	.020 ~ .236			○ 0249		● 2621	● 3223	● 0250	● 0251	○ 0079											
	Left Hand Shown	KNUX160410L	.039	.012 ~ .024	.039 ~ .236			○ 1785		● 2622	● 3384	● 1786	● 1315												
..UX		KNUX160405R	.020	.004 ~ .016	.020 ~ .236			○ 0252		● 2408	● 3224	● 0253	● 0254	○ 0080											
	Right Hand Shown	KNUX160410R	.039	.012 ~ .024	.039 ~ .236			○ 1358		● 2623	● 3344	● 1155	● 1156												

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

Refer to
Turning holder
p. 89

Refer to
Turning holder
p. 89

					Series	IC	S	Series	IC	S
					SN.. 32	.375	.125	SN.. 54	.625	.250
					SN.. 43	.500	.187	SN.. 64	.750	.250



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

	K10	P05	K20	P10	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40	S10	S10	P15	P10	N20	N20				
SNMA SNMG	Designation	RE	F _n (In/rev.)	A _p (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
..MA  Cast iron	SNMA432	.031	.006 ~ .020	.039 ~ .197	●	○	●	○																	
	SNMA433	.047	.006 ~ .020	.059 ~ .197	●	○	●	○																	
	SNMA434	.063	.006 ~ .020	.071 ~ .197	●	○	●	○																	
	SNMA543	.047	.006 ~ .020	.059 ~ .197	●	○	●	○																	
	SNMA644	.063	.006 ~ .020	.079 ~ .354	●	○	●	○																	
-UF  Finishing	SNMG322-UF	.031	.002 ~ .008	.039 ~ .079						●	●	●													
	SNMG431-UF	.016	.002 ~ .010	.020 ~ .098			○			●	●	●	●	○			○								
	SNMG432-UF	.031	.002 ~ .010	.039 ~ .098			○			●	●	●	●												
							○			●	●	●	●												
-UL  Light Machining and Sticky Material	SNMG431-UL	.016	.004 ~ .012	.020 ~ .118			○			●	●	●	●												
	SNMG432-UL	.031	.004 ~ .012	.039 ~ .118			○			●	●	●	●												
							○			●	●	●	●												
-UM  Medium Machining Unstable condition	SNMG432-UM	.031	.006 ~ .012	.039 ~ .118		○	○			●	●	●	●												
						○	○			●	●	●	●												

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YG-1 USA - phone: 800-765-8665, E-mail: yg1usa.com
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YG YG-1 CO., LTD.

Turning Inserts - Negative
SNMG (90° Square)

					Series	IC	S	Series	IC	S
					SN.. 43	.500	.187	SN.. 64	.750	.250
					SN.. 54	.625	.250	SN.. 86	1.000	.375

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

	K10	P05	K20	P10	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40	S10	S10	P15	P10	N20	N20				
SNMG	Designation	RE	F _n (In/rev.)	A _p (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-UG Medium Machining at stable condition	SNMG432-UG	.031	.008 ~ .016	.039 ~ .118	●	○	●	○																	
	SNMG433-UG	.047	.008 ~ .016	.059 ~ .118	●	○	●	○																	
	SNMG434-UG	.063	.008 ~ .016	.079 ~ .118	●	○	●	○																	
-UC Cast iron and Medium roughing	SNMG431-UC	.016	.008 ~ .016	.020 ~ .157	●																				
	SNMG432-UC	.031	.008 ~ .016	.039 ~ .157	●	○	●	○																	
	SNMG433-UC	.047	.008 ~ .016	.059 ~ .157	●	○	●	○																	
					●	○	●	○																	
-UR Roughing	SNMG432-UR	.031	.012 ~ .020	.039 ~ .197	●	○	●	○																	
	SNMG433-UR	.047	.012 ~ .020	.059 ~ .197	●	○	●	○																	
	SNMG434-UR	.063	.012 ~ .020	.079 ~ .197	●	○	●	○																	
	SNMG544-UR	.063	.012 ~ .024	.079 ~ .276																					
	SNMG643-UR	.047	.012 ~ .031	.118 ~ .354																					
	SNMG644-UR	.063	.012 ~ .031	.118 ~ .354	●	○	●																		
	SNMG866-UR	.094	.016 ~ .039	.197 ~ .472																					
	SNMG433-KR	.047	.012 ~ .024	.059 ~ .197	●	○	●	○																	
	SNMG434-KR	.063	.012 ~ .024	.079 ~ .197	●	○	●	○																	

YG YG-1 CO., LTD.

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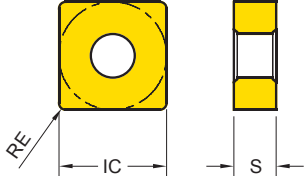
Turning Inserts - Negative
SNMG (90° Square)

Refer to
Turning holder
p.89

Turning Inserts - Negative
SNMM - Heavy Turning (90° Square)

Refer to
Turning holder
p.89

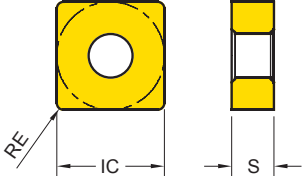
					Series	IC	S
					SN.. 32	.375	.125
					SN.. 43	.500	.187



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

	SNMG	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	P10 K20 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
						YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-MF		SNMG431-MF	.016	.003 ~ .012	.008 ~ .059													●	●	○					
		SNMG432-MF	.031	.003 ~ .012	.008 ~ .059					●			○			●	●	●	○						
		SNMG433-MF	.047	.003 ~ .012	.008 ~ .059					●						●	●	●	○						
-MM		SNMG432-MM	.031	.008 ~ .014	.039 ~ .138													●	●	○					
		SNMG433-MM	.047	.008 ~ .014	.059 ~ .138													●	●	○					
																		●	●	○					
-MG		SNMG431-MG	.016	.008 ~ .016	.020 ~ .157											●	●								
		SNMG432-MG	.031	.008 ~ .016	.039 ~ .157											●	●	●	●						
		SNMG433-MG	.047	.008 ~ .016	.059 ~ .157											●	●	●	●						
-MR		SNMG432-MR	.031	.012 ~ .022	.079 ~ .217									○		●	●	●	●						
		SNMG433-MR	.047	.012 ~ .022	.079 ~ .217								○			●	●	●	●						
		SNMG434-MR	.063	.012 ~ .022	.079 ~ .217											●	●								
-SM		SNMG321-SM	.016	.006 ~ .012	.020 ~ .118													○		●	●				
		SNMG432-SM	.031	.006 ~ .012	.020 ~ .118													○	○	○	●	●			
-SR		SNMG432-SR	.031	.012 ~ .022	.079 ~ .217															●	●				
		SNMG433-SR	.047	.012 ~ .022	.079 ~ .217															●	●				

					Series	IC	S	Series	IC	S
					SN.. 54	.625	.250	SN.. 85	1.000	.313
					SN.. 64	.750	.250	SN.. 86	1.000	.375

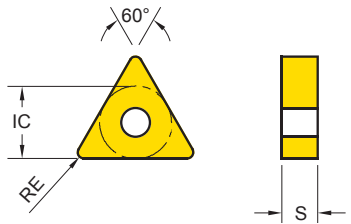


EDP 2200.. ● : Stock item ○ : Order made item

	SNMM	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	P10 K20 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
						YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-UH		SNMM543-UH	.047	.014 ~ .024	.079 ~ .217													●	●	○					
		SNMM643-UH	.047	.014 ~ .028	.059 ~ .354	●			●									●	●	○					
		SNMM644-UH	.063	.014 ~ .028	.079 ~ .354	●			●									●	●	○					
-UT		SNMM543-UT	.047	.018 ~ .028	.079 ~ .236													●	●	○					
		SNMM643-UT	.047	.020 ~ .039	.118 ~ .472	●			●									●	●	○					
		SNMM644-UT	.063	.020 ~ .039	.157 ~ .472	●			●									●	●	○					
-UH	Low cutting force	SNMM646-UH	.094	.014 ~ .028	.118 ~ .354	●			●									●	●	○					
		SNMM856-UH	.094	.016 ~ .031	.118 ~ .394													●	●	○					
		SNMM866-UH	.094	.016 ~ .031	.118 ~ .394	●			●									●	●	○					
-UT	Heavy Roughing	SNMM543-UT	.047	.018 ~ .028	.079 ~ .236													●	●	○					
		SNMM643-UT	.047	.020 ~ .039	.118 ~ .472	●			●									●	●	○					
		SNMM644-UT	.063	.020 ~ .039	.157 ~ .472	●			●									●	●	○					
-UT	Heavy Roughing	SNMM646-UT	.094	.020 ~ .039	.236 ~ .472	●			●									●	●	○					
		SNMM856-UT	.094	.022 ~ .047	.236 ~ .512	●			●									●	●	○					
		SNMM866-UT	.094	.022 ~ .047	.236 ~ .512	●			●									●	●	○					

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

Refer to
Turning holder
p.90



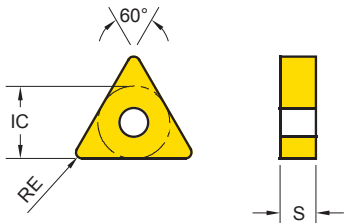
Series	IC	S
TN.. 33	.375	.187
TN.. 43	.500	.187

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

					K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20		
TNMA TNMG					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10	
..MA  Cast iron	TNMA331	.016	.006 ~ .020	.020 ~ .197	● 1582	○ 1446	● 3496	○ 1448																		
	TNMA332	.031	.006 ~ .020	.039 ~ .197	● 1486	○ 0035	● 3475	○ 1191																		
	TNMA333	.047	.006 ~ .020	.059 ~ .197	● 1485	○ 0036	● 3474	○ 1192																		
-UF  Finishing	TNMG331-UF	.016	.002 ~ .010	.020 ~ .098				○ 0270		● 2363	● 3230	● 0271	○ 0272	○ 0039												
	TNMG332-UF	.031	.002 ~ .010	.039 ~ .098				○ 0276		● 2217	● 3232	● 0277	○ 0278													
	TNMG333-UF	.047	.002 ~ .010	.059 ~ .098				○ 0721		● 2645	● 3294	● 0588	○ 1197													
	TNMG431-UF	.016	.004 ~ .014	.020 ~ .157				○ 0407		● 2409	● 3350	● 1203	○ 1205	○ 0042												
NEW -PWF  Wiper-Finishing	TNMG331-PWF	.016	.003 ~ .010	.012 ~ .098	● 3854					● 3858	● 3865	● 3872										○ 3873				
-UL  Light Machining and Sticky Material	TNMG331-UL	.016	.004 ~ .012	.020 ~ .118				○ 1605		● 2643	● 3379	● 1606	● 1607													
	TNMG332-UL	.031	.004 ~ .012	.039 ~ .118				○ 0279	○ 0752	● 2374	● 3233	● 0280	● 0281													
	TNMG333-UL	.047	.004 ~ .012	.059 ~ .118				○ 0884	○ 0868	● 2586	● 3297	● 0621	● 1198													
-UM  Medium Machining Unstable condition	TNMG331-UM	.016	.006 ~ .012	.020 ~ .118	○ 1669	○ 0949		○ 0948	○ 0844	● 2644	● 3334	● 0952	● 0954													
	TNMG332-UM	.031	.006 ~ .012	.039 ~ .118	○ 1141	○ 1053		○ 0282	○ 0758	● 2195	● 3234	● 0283	● 0284													
	TNMG333-UM	.047	.006 ~ .012	.059 ~ .118	○ 1143	○ 0596		○ 0597	○ 0760	● 2587	● 3292	● 0586	● 0710													
NEW -GM  Medium machining for steel & Stainless steel	TNMG331-GM	.016	.006 ~ .016	.020 ~ .177						● 3638	● 3659					● 3767										
	TNMG332-GM	.031	.007 ~ .020	.031 ~ .177						● 3639	● 3660					● 3771										
	TNMG333-GM	.047	.008 ~ .022	.039 ~ .177						● 3640	● 3661					● 3774										

Turning Inserts - Negative
TNMG (60° Triangle)

Refer to
Turning holder
p.90



Series	IC	S
TN.. 33	.375	.187
TN.. 43	.500	.187

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

					→ S ←																				
					K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
TNMG					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
RE UG  Medium Machining at stable condition	TNMG331-UG	.016	.008 ~ .016	.020 ~ .118	●	○	●	○		●	●	●	●												
	TNMG332-UG	.031	.008 ~ .016	.039 ~ .118	●	○	●	○	○	●	2182	3189	0145	0146	0037			○	2242						
	TNMG333-UG	.047	.008 ~ .016	.059 ~ .118	●	○	●	○	○	●	2200	3293	0587	0939											
	TNMG432-UG	.031	.010 ~ .024	.039 ~ .236	●	○	●	○		●	2394	3235	0286	0287	0040										
	TNMG433-UG	.047	.010 ~ .024	.059 ~ .236	●	○	●	○		●	2694	3375	1528	1529											
	TNMG434-UG	.063	.010 ~ .024	.079 ~ .236	●	○	●	○	○	●	2695	3325	0852	1263											
UC  Cast iron and Medium roughing	TNMG331-UC	.016	.008 ~ .016	.020 ~ .157	●	○	●	○		●	●	●	●												
	TNMG332-UC	.031	.008 ~ .016	.039 ~ .157	●	○	●	○		●	2423	3265	0401	0402											
	TNMG333-UC	.047	.008 ~ .016	.059 ~ .157	●	○	●	○		●	2382	3183	0108	0130											
	TNMG434-UC	.063	.008 ~ .016	.079 ~ .157							2413	3184	0109	0132											
UR  Roughing	TNMG332-UR	.031	.012 ~ .020	.039 ~ .197	●	○	●	○		●	2395	3300	0670	1054											
	TNMG333-UR	.047	.012 ~ .020	.059 ~ .197	●	○	●	○	○	●	1657	0602	3523	0404	0888			○							
	TNMG433-UR	.047	.012 ~ .026	.059 ~ .276	●	○	●	○		●	2403	3267	0410	0411	0041										
	TNMG434-UR	.063	.012 ~ .026	.079 ~ .276	●	○	●	○		●	2696	3306	0696	0711											

Turning Inserts - Negative
TNMG (60° Triangle)

Refer to
Turning holder
p.90

					Series		IC	S
					TN.. 33		.375	.187

EDP 2200..

● : Stock item ○ : Order made item

TNMG	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	P10	P25	P30	P20	YG801	G2025	G2035	G211	G213	G214	YG401	YG411	YT100	YT100G	YG100	YG10
-MF	TNMG331-MF	.016	.003 ~ .012	.008 ~ .059					●						●	●	●	●	●	○	●	○			
	TNMG332-MF	.031	.003 ~ .012	.008 ~ .059					●	○	○				●	●	●	●	●	○	●	○			
									2889			2952			2788	3765	0874	0775	1457	1343	3141	3621			
-MM	TNMG331-MM	.016	.008 ~ .014	.020 ~ .138												●	●	●	●	●					
	TNMG332-MM	.031	.008 ~ .014	.039 ~ .138											●	●	●	●	●						
	TNMG333-MM	.047	.008 ~ .014	.059 ~ .138											●	●	●	●	●						
-MG	TNMG331-MG	.016	.008 ~ .016	.020 ~ .157											●	●	●	●	●						
	TNMG332-MG	.031	.008 ~ .016	.039 ~ .157											●	●	●	●	●						
	TNMG333-MG	.047	.008 ~ .020	.079 ~ .157											●	●	●	●	●						
-MR	TNMG332-MR	.031	.012 ~ .022	.079 ~ .217									●		●	●	●	●	●						
	TNMG333-MR	.047	.012 ~ .022	.079 ~ .217									●		●	●	●	●	●						

Turning Inserts - Negative
TNGG / TNMG (60° Triangle)

Refer to
Turning holder
p.90

					Series		IC	S
					TN.. 33		.375	.187
					TN.. 43		.500	.187

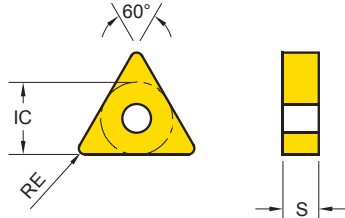
EDP 2200.. ● : Stock item ○ : Order made item

TNMG	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 K15	P10 K10	N20	N20
 -SF HRSA Finishing	TNMG332-SF	.031	.004 ~ .010	.008 ~ .039																	●	●				
																					147	402				
 -SM HRSA Medium	TNMG332-SM	.031	.006 ~ .012	.020 ~ .118																●	●	●	●			
	TNMG333-SM	.047	.006 ~ .012	.020 ~ .118																1575	156	157	128	402		
	TNMG433-SM	.047	.007 ~ .013	.039 ~ .236																1635	166	168	153	405		
 -SR HRSA Roughing	TNMG332-SR	.031	.012 ~ .022	.079 ~ .217																	●	●				
	TNMG333-SR	.047	.012 ~ .022	.079 ~ .217																	130	404				

Turning Inserts - Negative
TNGG / TNMG (60° Triangle)

Refer to
Turning holder
p.90

Refer to
Turning holder
p.90

					Series																IC		S		
					TN.. 33																.375		.187		
					EDP 2200.. ● : Stock item ○ : Order made item																				
					K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
 -PSF Cermet Finishing	TNMG331-PSF	.016	.003 ~ .012	.016 ~ .098	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	●	○		
	TNMG332-PSF	.031	.004 ~ .014	.024 ~ .098																		2535	3580		
																						2536	3581		
 -S Cermet Finishing Left Hand Shown	TNGG330.5L-S	.008	.004 ~ .008	.012 ~ .079																		●	○		
	TNGG331L-S	.016	.004 ~ .008	.016 ~ .079																		2859			
	TNGG332L-S	.031	.005 ~ .009	.024 ~ .079																		2860			
 -S Cermet Finishing Right Hand Shown	TNGG330.5R-S	.008	.004 ~ .008	.012 ~ .079																		●	○		
	TNGG331R-S	.016	.004 ~ .008	.016 ~ .079																		2856			
	TNGG332R-S	.031	.005 ~ .009	.024 ~ .079																		2857			
 -C Cermet Medium Left Hand Shown	TNGG330.5L-C	.008	.008 ~ .016	.012 ~ .138																		○	○		
	TNGG331L-C	.016	.008 ~ .016	.020 ~ .138																		2524			
	TNGG332L-C	.031	.008 ~ .016	.039 ~ .138																		2526			
 -C Cermet Medium Right Hand Shown	TNGG330.5R-C	.008	.008 ~ .016	.012 ~ .138																		○	○		
	TNGG331R-C	.016	.008 ~ .016	.020 ~ .138																		2525			
	TNGG332R-C	.031	.008 ~ .016	.039 ~ .138																		2527			

Turning Inserts - Negative
TNMM - Heavy Turning (60° Triangle)

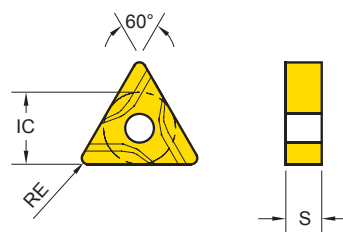
					Series		IC	S
					TN.. 33		.375	.187
					TN.. 43		.500	.187

60°
IC
RE
S

TNMM					Designation	RE	Fn (In/rev.)	Ap (In)	EDP 2200.. ● : Stock item ○ : Order made item																							
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10							

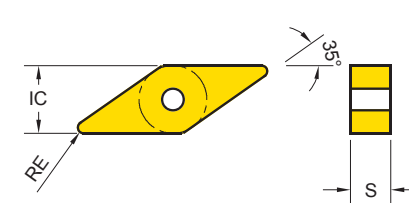
Turning Inserts - Negative
TNUX (60° Triangle)

Refer to
Turning holder
p. 90

					Series		IC		S																
					TNUX 33		.375		.187																
																									
					EDP 2200.. ● : Stock item ○ : Order made item																				
TNUX	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
..UX 	TNUX331L	.016	.004 ~ .012	.020 ~ .157				○		●	●	●	●	○			●								
	TNUX332L	.031	.004 ~ .016	.039 ~ .197				●		●	●	●	●	○			●								
..UX 	TNUX331R	.016	.004 ~ .012	.020 ~ .157				○		●	●	●	●	○			●			●		○			
	TNUX332R	.031	.004 ~ .016	.039 ~ .197				○		●	●	●	●	○			●			●		○			

Turning Inserts - Negative
VNMA / VNMG (35° Rhombic)

Refer to
Turning holder
p. 91

					Series	IC	S																	
					VN.. 33	.375	.187																	
																								
					EDP 2200.. ● : Stock item ○ : Order made item																			
VNMA VNMG	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 K15	P10 M10 K10	N20	N20
..MA 	VNMA332	.031	.006 ~ .016	.039 ~ .197	●	●	●	●																
					1573	0162	3491	1275																
-UF 	VNMG331-UF	.016	.002 ~ .010	.020 ~ .098				●		●	●	●	●	●										
	VNMG332-UF	.031	.002 ~ .010	.039 ~ .098				●		●	●	●	●	●										
-UL 	VNMG331-UL	.016	.004 ~ .012	.020 ~ .118				●		●	●	●	●	●										
	VNMG332-UL	.031	.004 ~ .012	.039 ~ .118				●		●	●	●	●	●										
-UM 	VNMG331-UM	.016	.004 ~ .012	.020 ~ .118				●		●	●	●	●	●										
	VNMG332-UM	.031	.006 ~ .012	.039 ~ .118				●		●	●	●	●	●										
-GM 	VNMG331-GM	.016	.004 ~ .014	.000 ~ .000						●	●							●						
	VNMG332-GM	.031	.004 ~ .014	.000 ~ .000						●	●							●						
-UG 	VNMG331-UG	.016	.008 ~ .016	.020 ~ .118						●	●	●	●	●										
	VNMG332-UG	.031	.008 ~ .016	.039 ~ .118						●	●	●	●	●										
-UC 	VNMG331-UC	.016	.008 ~ .016	.020 ~ .138						●	●	●	●	●										
	VNMG332-UC	.031	.008 ~ .016	.039 ~ .138						●	●	●	●	●										
-UR 	VNMG331-UR	.016	.008 ~ .016	.020 ~ .138						●	●	●	●	●										
	VNMG332-UR	.031	.008 ~ .016	.039 ~ .138						●	●	●	●	●										
-UR 	VNMG333-UR	.047	.012 ~ .018	.059 ~ .157						●	●	●	●	●										
										1638	1231	3515	0430	0871	2380	3274	0431	0432	0051					

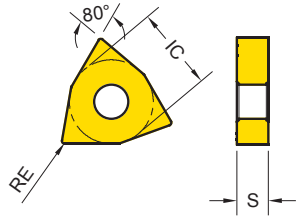
Turning Inserts - Negative
VNGG / VNMG (35° Rhombic)

Refer to
Turning holder
p.91

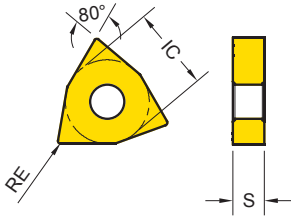
Refer to
Turning holder
p.92

					Series		IC		S																
					VN.. 33		.375		.187																
					EDP 2200.. ● : Stock item ○ : Order made item																				
					K10	P05	K20	P10	P15	P10	P25	P30	P20	M25	M35	M15	M30	M40	S10	S10	P15	P10	N20	N20	
					K20		K30											S30			K15	K10			
VNGG VNMG	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	G2025	G2035	G211	G213	G214	YG401	YG411	YT100	YT100G	YG100	YG10
-MF 	VNMG331-MF	.016	.003 ~ .012	.008 ~ .059						●					●	●	●	●	●	○					
	VNMG332-MF	.031	.003 ~ .012	.008 ~ .059						○					●	●	●	●	●	○					
-MM 	VNMG331-MM	.016	.008 ~ .014	.020 ~ .138											●	●	●	●	●	○					
	VNMG332-MM	.031	.008 ~ .014	.039 ~ .138											●	●	●	●	●	○					
-MG 	VNMG331-MG	.016	.008 ~ .016	.020 ~ .157											●	●				○					
	VNMG332-MG	.031	.008 ~ .016	.039 ~ .157											●	●				○					
	VNMG333-MG	.047	.008 ~ .016	.059 ~ .157											●	●				○					
-MR 	VNMG332-MR	.031	.012 ~ .022	.079 ~ .217								●			●	●	●	●	●						
	VNMG333-MR	.047	.012 ~ .022	.079 ~ .217								●			●	●	●	●	●						
-SF 	VNGG333-SF	.047	.004 ~ .010	.016 ~ .059																●	●				
																				●	●				
-SR 	VNMG332-SR	.031	.012 ~ .022	.079 ~ .217																●	●				
																				●	●				
-PSF 	VNMG331-PSF	.016	.003 ~ .012	.012 ~ .079																	●	●			
	VNMG332-PSF	.031	.004 ~ .014	.020 ~ .079																	●	●			

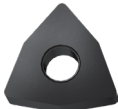
Turning Inserts - Negative
WNMA / WNMG (80° Trigon)



					Series			IC		S	
					WN.. 33			.375		.187	
					WN.. 43			.500		.187	



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

WNMA WNMG	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05	K20	P10	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40	S10	S10	P15	P10	N20	N20
					K20	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30	K30
..MA  Cast iron	WNMA333	.047	.006 ~ .020	.059 ~ .157	●																				
	WNMA431	.016	.006 ~ .020	.020 ~ .197	●																				
	WNMA432	.031	.006 ~ .020	.039 ~ .197	●																				
	WNMA433	.047	.006 ~ .020	.059 ~ .197	●																				
-UF  Finishing	WNMG331-UF	.016	.002 ~ .008	.020 ~ .079																					
	WNMG431-UF	.016	.002 ~ .010	.020 ~ .098																					
	WNMG432-UF	.031	.002 ~ .010	.039 ~ .098																					
	WNMG433-UF	.047	.002 ~ .010	.059 ~ .098																					
-UL  Light Machining and Sticky Material	WNMG332-UL	.031	.004 ~ .012	.039 ~ .098																					
	WNMG431-UL	.016	.004 ~ .012	.020 ~ .118																					
	WNMG432-UL	.031	.004 ~ .012	.039 ~ .118																					
	WNMG433-UL	.047	.004 ~ .012	.059 ~ .118																					
-UM  Medium Machining Unstable condition	WNMG331-UM	.016	.006 ~ .012	.020 ~ .098																					
	WNMG332-UM	.031	.006 ~ .012	.039 ~ .098																					
	WNMG431-UM	.016	.006 ~ .012	.020 ~ .118																					
	WNMG432-UM	.031	.006 ~ .012	.039 ~ .118																					
-GM  Medium machining for steel & Stainless steel	WNMG433-UM	.047	.006 ~ .012	.059 ~ .118																					
	WNMG434-UM	.063	.006 ~ .012	.079 ~ .118																					
	WNMG331-GM	.016	.004 ~ .016	.000 ~ .000																					
	WNMG332-GM	.031	.004 ~ .020	.000 ~ .000																					
-GM	WNMG333-GM	.047	.008 ~ .022	.039 ~ .000																					
	WNMG431-GM	.016	.004 ~ .016	.000 ~ .000																					
	WNMG432-GM	.031	.004 ~ .020	.000 ~ .000																					
	WNMG433-GM	.047	.008 ~ .022	.039 ~ .000																					
-GM	WNMG434-GM	.063	.008 ~ .022	.039 ~ .000																					

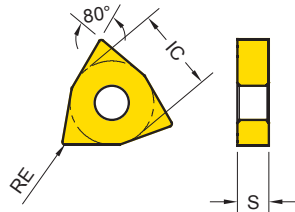
Turning Inserts - Negative
WNMG (80° Trigon)

Refer to
Turning holder
p. 92

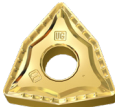
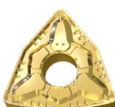
Turning Inserts - Negative
WNMG (80° Trigon)

Refer to
Turning holder
p. 92

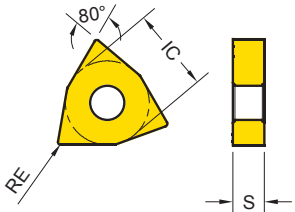
					Series		IC	S
					WN.. 33		.375	.187
					WN.. 43		.500	.187



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

WNGM	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-UG  Medium Machining at stable condition	WNGM332-UG	.031	.008 ~ .016	.039 ~ .098	1649	0697	3522	1047		2428	3276	0438	0874	0059											
	WNGM431-UG	.016	.008 ~ .016	.020 ~ .118	1580	1232	3494	0318		2392	3246	0319	0320												
	WNGM432-UG	.031	.008 ~ .016	.039 ~ .118	0908	0463	3447	0147	0582	2194	3190	0148	0149	0056											
	WNGM433-UG	.047	.008 ~ .016	.059 ~ .118	0910	0466	3449	0503	0648	2167	3283	0490	0941												
	WNGM434-UG	.063	.008 ~ .016	.079 ~ .118	1643	1233		1056	0764	2575	3290	0583	1238												
-PWM  Wiper-Medium	WNGM332-PWM	.031	.004 ~ .016	.031 ~ .098										2051											
	WNGM432-PWM	.031	.004 ~ .020	.031 ~ .138						2706															
	WNGM433-PWM	.047	.004 ~ .020	.039 ~ .138	2061					2712			2064												
-UC  Cast iron and Medium roughing	WNGM332-UC	.031	.008 ~ .016	.039 ~ .118	1444	0095	3470	0875		2421	3326	0876	0724												
	WNGM431-UC	.016	.008 ~ .016	.020 ~ .157	0906	0097	3445	0133		2367	3185	0110	0134												
	WNGM432-UC	.031	.008 ~ .016	.039 ~ .157	0907	0027	3446	0135	0733	2186	3186	0111	0136												
	WNGM433-UC	.047	.008 ~ .016	.059 ~ .157	0909	0078	3448	0137	0630	2168	3187	0112	0138												
-UR  Roughing	WNGM434-UC	.063	.008 ~ .016	.079 ~ .157	1187	1055	3460	1235		2709	3351	1236	0743												
	WNGM333-UR	.047	.012 ~ .020	.059 ~ .157	1317	1066		1057		2702		1058	1060												
	WNGM333-UR	.047	.012 ~ .020	.059 ~ .157			3464			3340															
	WNGM432-UR	.031	.012 ~ .020	.039 ~ .197	1613	0464	3504	0465		2353	3279	0471	0472												
-KR  Cast Iron Heavy Roughing	WNGM433-UR	.047	.012 ~ .020	.059 ~ .197	1614	0467	3505	0442	0631	2184	3278	0443	0444	0057											
	WNGM434-UR	.063	.012 ~ .020	.079 ~ .197	1637	0468	3514	0469	0889	2359	3310	0725	0714												
	WNGM333-KR	.047	.012 ~ .024	.059 ~ .157	2713																				
	WNGM432-KR	.031	.012 ~ .024	.039 ~ .197	0932	0720	3450	1038		2705															
	WNGM433-KR	.047	.012 ~ .024	.059 ~ .197	0933	0522	3451	0542		2707															

					Series		IC	S
					WN.. 33		.375	.187
					WN.. 43		.500	.187

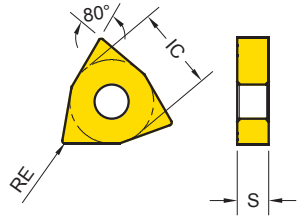


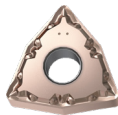
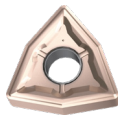
EDP 2200.. ● : Stock item ○ : Order made item

WNGM	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-MF  Stainless steel Finishing	WNGM331-MF	.016	.003 ~ .012	.016 ~ .079			0833		2874		0996		2461	3800	1215	1217	2284	2279							
	WNGM332-MF	.031	.003 ~ .012	.031 ~ .079					2890		2953		2789	3803	1216	1218	2285	2280							
	WNGM431-MF	.016	.003 ~ .012	.016 ~ .098					2875		0834		2462	3810	0667	0668	0970	2281							
	WNGM432-MF	.031	.003 ~ .012	.031 ~ .098					2876		1098		2463	3813	0617	0618	2268	2282							
-MM  Stainless steel Medium	WNGM431-MM	.016	.008 ~ .014	.020 ~ .138													0571	0572	2300	2301					
	WNGM432-MM	.031	.008 ~ .014	.039 ~ .138													0497	0498	0533	2302					
	WNGM433-MM	.047	.008 ~ .014	.059 ~ .138													0612	0615	1926	2303					
-MG  Stainless steel General	WNGM331-MG	.016	.008 ~ .016	.020 ~ .118													2477	3807							
	WNGM332-MG	.031	.008 ~ .016	.039 ~ .118													2476	3804							
	WNGM333-MG	.047	.008 ~ .016	.059 ~ .118													2477	3807							
	WNGM431-MG	.016	.008 ~ .016	.020 ~ .157													2478	3814	1496	1497	1160	1488			
	WNGM432-MG	.031	.008 ~ .016	.039 ~ .157													2479	3817	1499	1500	1161	1501			
-MR  Stainless steel Roughing	WNGM433-MG	.047	.008 ~ .016	.059 ~ .157													2479	3817							
	WNGM332-MR	.031	.012 ~ .022	.047 ~ .157													2793	3805							
	WNGM333-MR	.047	.012 ~ .022	.047 ~ .157													1154	2498	3808	0616	1787	1896			
	WNGM432-MR	.031	.012 ~ .022	.079 ~ .217													1099	2499	3815	0619	0620	0835			
	WNGM433-MR	.047	.012 ~ .022	.079 ~ .217													0837	2482	3818	0665	0666	0836			

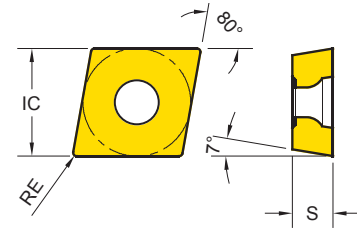
Turning Inserts - Negative
WNGG / WNMG (80° Trigon)

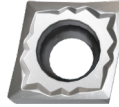
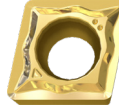
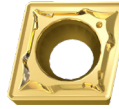
Refer to
Turning holder
p.92



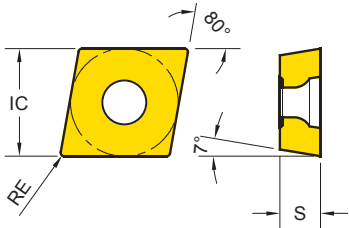
					EDP 2200..																● : Stock item ○ : Order made item							
					K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 K15	P10 K10	N20	N20			
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10			
WNGG WNMG	Designation	RE	Fn (In/rev.)	Ap (In)																								
 -SF HRSA Finishing	WNGG432-SF	.031	.004 ~ .010	.008 ~ .039																●	●							
																				1308	4028							
 -SF HRSA Finishing	WNMG431-SF	.016	.004 ~ .010	.008 ~ .039																	●							
	WNMG432-SF	.031	.004 ~ .010	.016 ~ .039																	●							
																					4041							
																					●							
																					4042							
 -SM HRSA Medium	WNMG432-SM	.031	.006 ~ .012	.020 ~ .118																	●	●						
	WNMG433-SM	.047	.006 ~ .012	.020 ~ .118																		●	●					
																						1199 1206 1859 1311 4030						
																						1374 1416 1880 1312 4032						
 -SR HRSA Roughing	WNMG333-SR	.047	.012 ~ .022	.079 ~ .157																	●	●						
	WNMG432-SR	.031	.012 ~ .022	.079 ~ .217																		1499 4029						
	WNMG433-SR	.047	.012 ~ .022	.079 ~ .217																		●	●					
																						1310 4031						
																						●	●					
	WNMG434-SR	.063	.012 ~ .022	.079 ~ .217																		1309 4033						
																						●	●					
																						2843 4034						
 - PSF Cermet Finishing	WNMG431-PSF	.016	.003 ~ .012	.016 ~ .088																		●	○					
																						2539 3584						
	WNMG432-PSF	.031	.004 ~ .014	.024 ~ .098																			●	●				
																							2540 3585					

Turning Inserts - Positive
CCGT / CCMT (80° Rhombic)



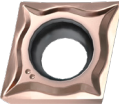
					EDP 2200..																				● : Stock item ○ : Order made item			
					K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20			
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10			
CCGT CCMT	Designation	RE	Fn (In/rev.)	Ap (In)																								
 -AL Aluminum	CCGT21.50.5-AL	.008	.000 ~ .005	.002 ~ .118																					● 1398			
	CCGT21.51-AL	.016	.001 ~ .006	.004 ~ .118																					● 1278	● 1320		
	CCGT32.50.5-AL	.008	.001 ~ .008	.002 ~ .118																					● 0840	● 0839		
	CCGT32.51-AL	.016	.001 ~ .012	.004 ~ .197																					● 0880	● 0081		
	CCGT32.52-AL	.031	.001 ~ .020	.004 ~ .197																					● 0831	● 0082		
	CCGT430.5-AL	.008	.001 ~ .012	.002 ~ .157																					● 0474	● 0473		
	CCGT431-AL	.016	.001 ~ .020	.004 ~ .197																					● 0476	● 0475		
	CCGT432-AL	.031	.002 ~ .031	.004 ~ .217																				● 0478	● 0477			
 -UF Finishing	CCMT21.51-UF	.016	.002 ~ .008	.020 ~ .079				● 0163	● 0866	● 2365	● 3195	● 0164	● 0165															
	CCMT32.51-UF	.016	.002 ~ .010	.020 ~ .079				● 0169		● 2371	● 3197	● 0170	● 0171															
	CCMT32.52-UF	.031	.002 ~ .010	.039 ~ .079				● 0964		● 2578	● 3333	● 0851	● 0853															
	CCMT431-UF	.016	.004 ~ .010	.039 ~ .197						● 2579	● 3861	● 1137	● 1337															
 -UG General	CCMT21.51-UG	.016	.004 ~ .010	.020 ~ .079	● 1377	● 3466	○ 0166			● 2357	● 3196	○ 0167	○ 0168	○ 0006			○ 2224	○ 1900										
	CCMT21.52-UG	.031	.004 ~ .010	.031 ~ .079	● 1825	○ 0864	● 3526	○ 0479		● 2378	○ 3301	● 0683	○ 0684	○ 0009			○ 2225	○ 1901										
	CCMT32.51-UG	.016	.006 ~ .012	.020 ~ .098	● 1844	○ 3541	○ 0172			● 2206	○ 3198	○ 0173	○ 0174	○ 0007					○ 1586									
	CCMT32.52-UG	.031	.006 ~ .012	.031 ~ .098	○ 1553	○ 0445	○ 3487	○ 0150		○ 2180	○ 3191	○ 0151	○ 0152	○ 0008			○ 1908	○ 1902										
	CCMT431-UG	.016	.006 ~ .014	.020 ~ .118	● 1845	○ 3542	○ 0175			● 2399	○ 3199	○ 0176	○ 0177															
	CCMT432-UG	.031	.006 ~ .014	.031 ~ .118	○ 1462	○ 1461	○ 3471	○ 0153	○ 0867	○ 2183	○ 3192	○ 0154	○ 0155	○ 0005					○ 1125									
	CCMT433-UG	.047	.006 ~ .014	.047 ~ .118	○ 1846															○ 1126								

Turning Inserts - Positive
CCGT / CCMT (80° Rhombic)

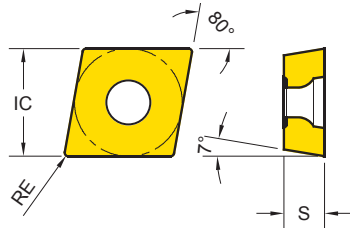


Series	IC	S
CC.. 21.5	.250	.094
CC.. 32.5	.375	.156
CC.. 43	.500	.187

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

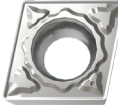
CCGT CCMT	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-SF  HRSA Finishing	CCGT21.50-SF	.004	.001 ~ .006	.004 ~ .059																					
	CCGT21.50.5-SF	.008	.001 ~ .006	.004 ~ .059																					
	CCGT21.51-SF	.016	.001 ~ .008	.004 ~ .094																					
	CCGT32.50-SF	.004	.001 ~ .006	.004 ~ .098																					
	CCGT32.50.5-SF	.008	.001 ~ .006	.004 ~ .098																					
	CCGT32.51-SF	.016	.001 ~ .008	.004 ~ .098																					
	CCGT32.52-SF	.031	.001 ~ .010	.004 ~ .098																					
	CCGT32.52-SF	.031	.001 ~ .010	.004 ~ .098																					
-MF  Stainless steel Finishing	CCMT21.50.5-MF	.008	.002 ~ .006	.003 ~ .079																					
	CCMT21.51-MF	.016	.002 ~ .010	.004 ~ .079																					
	CCMT21.52-MF	.031	.003 ~ .011	.005 ~ .079																					
	CCMT32.50.5-MF	.008	.002 ~ .006	.003 ~ .079																					
	CCMT32.51-MF	.016	.002 ~ .010	.004 ~ .079																					
	CCMT32.52-MF	.031	.003 ~ .012	.006 ~ .079																					
	CCMT32.53-MF	.047	.004 ~ .013	.008 ~ .079																					
	CCMT431-MF	.016	.003 ~ .010	.008 ~ .094																					
-MM  Stainless steel Medium	CCMT21.51-MM	.016	.002 ~ .007	.012 ~ .094																					
	CCMT21.52-MM	.031	.003 ~ .009	.031 ~ .094																					
	CCMT32.51-MM	.016	.003 ~ .010	.010 ~ .118																					
	CCMT32.52-MM	.031	.004 ~ .012	.020 ~ .118																					
	CCMT32.53-MM	.047	.005 ~ .014	.039 ~ .118																					
	CCMT431-MM	.016	.004 ~ .011	.016 ~ .165																					
	CCMT432-MM	.031	.005 ~ .014	.031 ~ .165																					
	CCMT433-MM	.047	.006 ~ .017	.047 ~ .165																					

Turning Inserts - Positive
CCMT (80° Rhombic)



Series	IC	S
CC.. 21.5	.250	.094
CC.. 32.5	.375	.156
CC.. 43	.500	.187

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

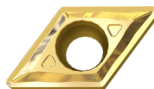
CCMT	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-PF  Finishing	CCMT21.50.5-PF	.008	.002 ~ .006	.003 ~ .079																					
	CCMT21.51-PF	.016	.002 ~ .010	.004 ~ .079																					
	CCMT32.50.5-PF	.008	.002 ~ .006	.003 ~ .079																					
	CCMT32.51-PF	.016	.002 ~ .010	.004 ~ .079																					
	CCMT32.52-PF	.031	.003 ~ .012	.006 ~ .079																					
	CCMT32.53-PF	.047	.004 ~ .013	.008 ~ .079																					
	CCMT431-PF	.016	.003 ~ .010	.008 ~ .094																					
	CCMT432-PF	.031	.003 ~ .012	.008 ~ .094																					
-PM  Medium	CCMT21.51-PM	.016	.002 ~ .007	.010 ~ .094																					
	CCMT21.52-PM	.031	.003 ~ .009	.031 ~ .094																					
	CCMT32.51-PM	.016	.003 ~ .010	.010 ~ .118																					
	CCMT32.52-PM	.031	.004 ~ .012	.020 ~ .118																					
	CCMT32.53-PM	.047	.005 ~ .014	.039 ~ .118																					
	CCMT431-PM	.016	.004 ~ .011	.016 ~ .165																					
	CCMT432-PM	.031	.005 ~ .014	.031 ~ .165																					
	CCMT433-PM	.047	.006 ~ .017	.047 ~ .165																					

Turning Inserts - Positive
DCGT / DCMT (55° Rhombic)

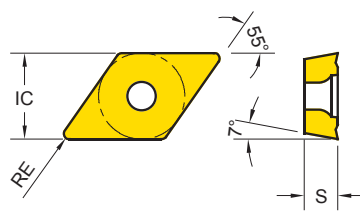
Turning Inserts - Positive
DCGT / DCMT (55° Rhombic)

Series	IC	S
DC.. 21.5	.250	.094
DC.. 32.5	.375	.156

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

DCGT DCMT	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	P05 K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
-AL  Aluminum	DCGT21.50.5-AL	.008	.000 ~ .008	.002 ~ .118																				●
	DCGT21.51-AL	.016	.001 ~ .012	.004 ~ .157																				●
	DCGT32.50-AL	.004	.000 ~ .012	.002 ~ .157																			●	●
	DCGT32.50.5-AL	.008	.001 ~ .012	.002 ~ .157																			●	●
	DCGT32.51-AL	.016	.001 ~ .020	.004 ~ .197																			●	●
	DCGT32.52-AL	.031	.001 ~ .020	.004 ~ .197																			●	●
-UF  Finishing	DCMT21.51-UF	.016	.002 ~ .008	.020 ~ .079			○	○	●	●	●	●					○	○						
	DCMT32.51-UF	.016	.002 ~ .010	.020 ~ .079	○		○	○	●	●	●	●					○	○						
	DCMT32.52-UF	.031	.002 ~ .010	.039 ~ .079	●		○	○	●	●	●	●												
-UG  General	DCMT21.51-UG	.016	.004 ~ .010	.020 ~ .079	●		○	○	●	●	●	●					○	○						
	DCMT21.52-UG	.031	.004 ~ .010	.031 ~ .079	●		○	○	●	●	●	●					○	○						
	DCMT32.51-UG	.016	.006 ~ .012	.020 ~ .098	●		○	○	●	●	●	●					○	○						
	DCMT32.52-UG	.031	.006 ~ .012	.031 ~ .098	●		○	○	●	●	●	●					○	○						
	DCMT32.53-UG	.047	.006 ~ .014	.059 ~ .118																				

					Series														IC	S
					DC.. 21.5														.250	.094
					DC.. 32.5														.375	.156



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

DCGT DCMT	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	P05 K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100
-SF  HRSA Finishing	DCGT21.50-SF	.004	.001 ~ .006	.004 ~ .059																				●
	DCGT21.50.5-SF	.008	.001 ~ .006	.004 ~ .059																				●
	DCGT21.51-SF	.016	.001 ~ .008	.004 ~ .059																				●
	DCGT32.50-SF	.004	.001 ~ .002	.004 ~ .088																				●
	DCGT32.50.5-SF	.008	.001 ~ .006	.004 ~ .088																				●
	DCGT32.51-SF	.016	.001 ~ .008	.004 ~ .098																				●
-MF  Stainless steel Finishing	DCGT32.52-SF	.031	.001 ~ .008	.004 ~ .088																				●
	DCMT21.50.5-MF	.008	.002 ~ .006	.002 ~ .059																				●
	DCMT21.51-MF	.016	.002 ~ .007	.003 ~ .059																				●
	DCMT32.50.5-MF	.008	.002 ~ .006	.003 ~ .079																				●
	DCMT32.51-MF	.016	.002 ~ .010	.004 ~ .079																				●
	DCMT32.52-MF	.031	.003 ~ .012	.006 ~ .079																				●
-MM  Stainless steel Medium	DCMT21.51-MM	.016	.002 ~ .007	.008 ~ .091																				●
	DCMT21.52-MM	.031	.003 ~ .010	.020 ~ .091																				●
	DCMT32.51-MM	.016	.002 ~ .007	.010 ~ .118																				●
	DCMT32.52-MM	.031	.003 ~ .010	.020 ~ .118																				●
	DCMT32.53-MM	.047	.005 ~ .014	.047 ~ .118																				●
	DCMT21.50.5-PF	.008	.002 ~ .006	.002 ~ .059																				●
-PF  Finishing	DCMT21.51-PF	.016	.002 ~ .007	.003 ~ .059																				●
	DCMT32.50.5-PF	.008	.002 ~ .006	.003 ~ .079																				●
	DCMT32.51-PF	.016	.002 ~ .010	.004 ~ .079																				●
	DCMT32.52-PF	.031	.003 ~ .008	.006 ~ .079																				●
	DCMT21.51-PM	.016	.003 ~ .012	.008 ~ .091																				●
	DCMT21.52-PM	.031	.003 ~ .010	.020 ~ .091																				●
-PM  Medium	DCMT32.51-PM	.016	.002 ~ .007	.010 ~ .118																				●
	DCMT32.52-PM	.031	.003 ~ .010	.020 ~ .118																				●
	DCMT32.53-PM	.047	.005 ~ .014	.047 ~ .118																				●
																								●

Turning Inserts - Positive
RCMT (Round)

	Series	IC	S	Series	IC	S
	RC** 0602	.236	.094	RC** 10T3	.394	.156
	RC** 0803	.315	.125	RC** 1204	.472	.187
				RC.. 1606	.630	.250

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

K10	P05	K20	P10	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40	S10	S10	P15	P10	M15	M10	N20	N20
K20		K30												S30			K15	K10				

RCMT

Designation

RE

F_n
(In/rev.)

A_p
(In)

●	○	○	○		●	●	●	●	○		●	○	○									
2057	0374	3549	0375		2624	3256	0376	1151	0023		2233											
●	○	○	○		●	●	●	●	○		○	○	○									
2058	0377	3550	0378		2625	3257	0379	1152	0024		2234											
●	○	○	○		●	●	●	●	○		○	○	○									
2059	0380	3551	0381		2626	3258	0382	1153	0021		2231											
○	○	○	○		○	○	○	○	○		○	○	○									
1833	0383	3531	0384		2627	3259	0385	1170	0022		2232											

General

-SM

General

RCMT0602M0-SM	.118	.005 ~ .013	.012 ~ .063
RCMT0803M0-SM	.157	.006 ~ .016	.012 ~ .079
RCMT10T3M0-SM	.197	.007 ~ .018	.016 ~ .098
RCMT1204M0-SM	.236	.008 ~ .022	.020 ~ .118
RCMT1606M0-SM	.315	.010 ~ .030	.028 ~ .157

																	●	●				
																	2571	4065				
																	2570	4066				
																	●	●				
																	2572	4067				
●					●				●								●	●				
3159					2573				3173								2569	4068				
																	3151	4069				

Turning Inserts - Positive
RCMX - Heavy Turning (Round)

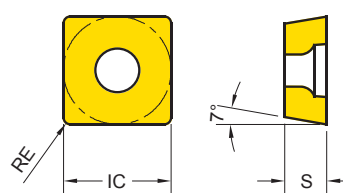
Series	IC	S	Series	IC	S
RC** 1606	.630	.250	RC.. 2507	.984	.313
RC** 2006	.787	.250	RC.. 3209	1.260	.375

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

RCMX					Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05	K20	P10	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40	S10	S10	M15	M10	N20	N20
									YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
	RCMX1606M0-UT					.315	.012 ~ .031	.039 ~ .276	●	○	○	○		●	●	●	●	○		●	○	○							
	RCMX2006M0-UT					.394	.016 ~ .035	.059 ~ .354	●	○	○	○		●	●	●	●	○		○	○	○							
	RCMX2507M0-UT					.492	.020 ~ .047	.098 ~ .472	●	○	○	○		●	●	●	●	○		○	○	○							
	RCMX3209M0-UT					.630	.024 ~ .059	.138 ~ .591	●	○	○	○		●	●	●	●	○		○	○	○							

Turning Inserts - Positive
SCGT / SCMT (Square)

					Series		IC	S
					SC.. 32.5		.375	.156
					SC.. 43		.500	.187

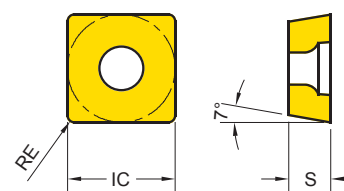


EDP 2200.. ● : Stock item ○ : Order made item

SCGT SCMT	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-AL  Aluminium	SCGT32.51-AL	.016	.001 ~ .016	.004 ~ .197																					● 1516
	SCGT32.52-AL	.031	.002 ~ .016	.004 ~ .197																					● IV
-UF  Finishing	SCMT32.51-UF	.016	.002 ~ .010	.020 ~ .079				● 0386		● 2628	● 3260	● 0887	● 0788												
	SCMT32.52-UF	.031	.002 ~ .010	.039 ~ .079	● 2083			● 1021		● 2629	● 3339	● 12	● 17												
-UG  General	SCMT32.51-UG	.016	.006 ~ .012	.020 ~ .098	● 1834	○ 0455	● 3532	○ 0482		● 2414	● 3329	● 0916	● 1171	○ 0025				○ 2235							
	SCMT32.52-UG	.031	.006 ~ .012	.031 ~ .098	● 1835	○ 0456	● 3533	○ 0159		● 2383	● 3194	● 0160	● 0161	○ 0026				○ 2236		○ 1904					
	SCMT432-UG	.031	.006 ~ .014	.031 ~ .118	● 1836	○ 0674	● 3534	○ 0255		● 2393	● 3225	● 0256	● 0257							● 1911					
	SCMT433-UG	.047	.006 ~ .014	.059 ~ .118	● 2098																				
-MF  Stainless steel Finishing	SCMT32.51-MF	.016	.002 ~ .009	.004 ~ .079											● 2800	● 3735									
	SCMT32.52-MF	.031	.004 ~ .012	.012 ~ .079											● 2801	● 3737				● 2564	● 4098				
	SCMT431-MF	.016	.004 ~ .011	.012 ~ .165											● 2802	● 3740									
	SCMT432-MF	.031	.004 ~ .012	.024 ~ .165											● 2803	● 3742									
-MM  Stainless steel Medium	SCMT32.51-MM	.016	.003 ~ .009	.016 ~ .126											● 2819	● 3736									
	SCMT32.52-MM	.031	.004 ~ .012	.031 ~ .126											● 2820	● 3738				● 4070					
	SCMT32.53-MM	.047	.005 ~ .014	.035 ~ .126											● 2821	● 3739									
	SCMT431-MM	.016	.004 ~ .011	.012 ~ .165											● 2822	● 3741									
	SCMT432-MM	.031	.004 ~ .012	.024 ~ .165											● 2519	● 3743	● 1973	● 1974	● 1975	● 1976	● 4071				
	SCMT433-MM	.047	.006 ~ .018	.047 ~ .165											● 2823	● 3744									

Turning Inserts - Positive
SCMT (Square)

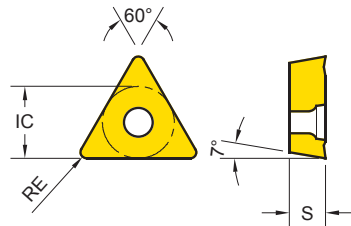
					Series		IC	S
					SC.. 32.5		.375	.156
					SC.. 43		.500	.187



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

SCMT	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-PF  Finishing	SCMT32.51-PF	.016	.002 ~ .009	.004 ~ .079						●			●												
	SCMT32.52-PF	.031	.004 ~ .012	.012 ~ .079						●			●												
	SCMT431-PF	.016	.004 ~ .011	.012 ~ .165						●			●												
	SCMT432-PF	.031	.004 ~ .012	.024 ~ .165						●			●												
-PM  Medium	SCMT32.51-PM	.016	.003 ~ .009	.016 ~ .126						●			●												
	SCMT32.52-PM	.031	.004 ~ .012	.031 ~ .126						●			●									●	●		
	SCMT32.53-PM	.047	.005 ~ .014	.035 ~ .126						●			●									2853	3617		
	SCMT431-PM	.016	.004 ~ .011	.012 ~ .165						●			●												
	SCMT432-PM	.031	.004 ~ .012	.024 ~ .165						●			●									●	○		
	SCMT433-PM	.047	.006 ~ .018	.047 ~ .165						●			●									2530	3575		

Turning Inserts - Positive
TCGT / TCMT (Triangle)

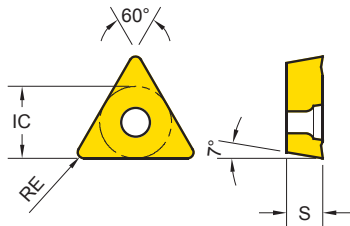


Series	IC	S
TC.. 1.81.5	.219	.094
TC.. 21.5	.250	.094
TC.. 32.5	.375	.156

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

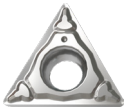
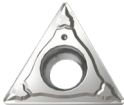
					→ S																									
					K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30 S30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20					
TCGT TCMT					Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10	
-AL  Aluminum	TCGT21.51-AL	.016	.001 ~ .012	.004 ~ .157																									●	1333
	TCGT32.50.5-AL	.008	.001 ~ .012	.002 ~ .197																									●	084
	TCGT32.51-AL	.016	.001 ~ .016	.004 ~ .217																									●	0334
	TCGT32.52-AL	.031	.001 ~ .020	.004 ~ .217																									●	005
-UF  Finishing	TCMT1.81.51-UF	.016	.002 ~ .008	.020 ~ .059	●									●															●	0335
	TCMT21.51-UF	.016	.002 ~ .008	.020 ~ .079	3163						0395			2384	3263	0396	1196					1033	1034	1645					●	084
	TCMT32.51-UF	.016	.002 ~ .010	.020 ~ .079						0397				2377	3264	0398	1046	0033				1906		1905					●	084
	TCMT32.52-UF	.031	.002 ~ .010	.031 ~ .079						0624				2369	3299	0625	1045												●	008
-UG  General	TCMT1.81.51-UG	.016	.004 ~ .010	.020 ~ .059	●									●															●	
	TCMT1.81.52-UG	.031	.004 ~ .010	.031 ~ .059	3166									●															●	
	TCMT21.51-UG	.016	.004 ~ .010	.020 ~ .079	3169									●															●	
	TCMT21.52-UG	.016	.004 ~ .010	.020 ~ .079	1839	0728	3536	0264						2642	3278	0765	0766	0032				2240							●	
	TCMT21.52-UG	.031	.004 ~ .010	.031 ~ .079	1851	1814	3547	0485						2362	3208	0715	1204												●	
	TCMT32.51-UG	.016	.006 ~ .012	.020 ~ .098	●									2379	3229	0768	0769												●	
TCMT32.52-UG	.031	.006 ~ .012	.031 ~ .098	1840	0679	3537	0267						2175	3193	0157	0158	0034											●		

Turning Inserts - Positive
TCMT (Triangle)



Series	IC	S
TC.. 21.5	.250	.094
TC.. 32.5	.375	.156

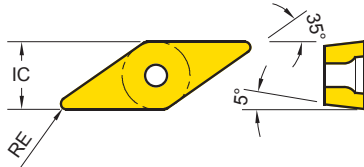
EDP 2200.. ● : Stock item ○ : Order made item

					K10	P05 K20	K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 K15	P10 M10 K10	N20	N20
TCMT					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100	YG10
-MF  Stainless steel Finishing	TCMT21.50.5-MF	.008	.002 ~ .006	.004 ~ .067											●	●									
	TCMT21.51-MF	.016	.003 ~ .008	.008 ~ .067											●	●				●	●				
	TCMT21.52-MF	.031	.003 ~ .010	.012 ~ .067											●	●				●	●				
	TCMT32.51-MF	.016	.002 ~ .010	.004 ~ .079											●	●				●	●				
	TCMT32.52-MF	.031	.003 ~ .012	.006 ~ .079											●	●				●	●				
-MM  Stainless steel Medium	TCMT21.51-MM	.016	.002 ~ .007	.010 ~ .087											●	●									
	TCMT21.52-MM	.031	.004 ~ .010	.020 ~ .087											●	●									
	TCMT32.51-MM	.016	.003 ~ .010	.010 ~ .118											●	●				●	●				
	TCMT32.52-MM	.031	.004 ~ .012	.020 ~ .118											●	●				●	●				
	TCMT32.53-MM	.047	.005 ~ .014	.035 ~ .118											●	●									
-PF  Medium	TCMT21.50.5-PF	.008	.002 ~ .006	.004 ~ .067						●				●											
	TCMT21.51-PF	.016	.003 ~ .008	.008 ~ .067						●				●									●	○	
	TCMT21.52-PF	.031	.003 ~ .010	.012 ~ .067						●				●											
	TCMT32.51-PF	.016	.002 ~ .010	.004 ~ .079						●				●									●	○	
	TCMT32.52-PF	.031	.003 ~ .012	.006 ~ .079						●				●									●	●	
-PM  Medium	TCMT21.51-PM	.016	.002 ~ .007	.010 ~ .087						●				●											
	TCMT21.52-PM	.031	.004 ~ .010	.020 ~ .087						●				●											
	TCMT32.51-PM	.016	.003 ~ .010	.010 ~ .118						●				●									●	○	
	TCMT32.52-PM	.031	.004 ~ .012	.020 ~ .118						●				●									●	●	
	TCMT32.53-PM	.047	.005 ~ .014	.035 ~ .118						●				●									●	○	

Turning Inserts - Positive
VBGT / VBMT (35° Rhombic)

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

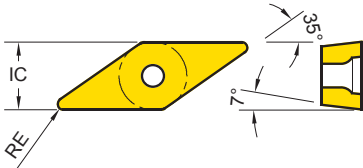
					Series		IC	S
					VB.. 22		.250	.125
					VB.. 33		.375	.187



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

VBGT VBMT	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100
-SF  HRSA Finishing	VBGT220-SF	.004	.000 ~ .008	.004 ~ .059															2432		4074			
	VBGT220.5-SF	.008	.001 ~ .008	.004 ~ .059															2483		4075			
	VBGT221-SF	.016	.002 ~ .008	.008 ~ .059															258		4076			
	VBGT331-SF	.016	.002 ~ .008	.008 ~ .079															2350		4077			
	VBGT332-SF	.031	.002 ~ .008	.016 ~ .079															3172		4078			
-UF  Finishing	VBMT221-UF	.016	.002 ~ .006	.004 ~ .031																				
	VBMT222-UF	.016	.002 ~ .006	.016 ~ .039																				
	VBMT331-UF	.016	.002 ~ .010	.020 ~ .079				0294		2364	3238	0295	0296											
	VBMT332-UF	.031	.002 ~ .010	.031 ~ .079				0300		2216	3240	0302												
-UG  General	VBMT331-UG	.016	.006 ~ .012	.020 ~ .098	1842	0682	3539	0297		2181	3239	0298	0299	0047										
	VBMT332-UG	.031	.006 ~ .012	.031 ~ .098	1843	0681	3540	0303		2211	3241	0304	0305	0048										
-MF  Stainless steel Finishing	VBMT221-MF	.016	.002 ~ .008	.004 ~ .067										2807	3775					4103				
	VBMT222-MF	.031	.003 ~ .009	.012 ~ .067										2808	3777									
	VBMT330.5-MF	.008	.002 ~ .006	.004 ~ .079										2510	3779	2008	2009	2010	2036	4104				
	VBMT331-MF	.016	.002 ~ .008	.008 ~ .079				2842		2511	3780	1960	1961	1962	2037	4105								
	VBMT332-MF	.031	.003 ~ .011	.012 ~ .079						2512	3782	2011	2012	2013	2038	4106								
-MM  Stainless steel Medium	VBMT221-MM	.016	.002 ~ .007	.010 ~ .087										2827	3776									
	VBMT222-MM	.031	.003 ~ .009	.020 ~ .087										2828	3778					4079				
	VBMT331-MM	.016	.003 ~ .008	.010 ~ .106						2522	3781	1996	1997	1998	2044	4080								
	VBMT332-MM	.031	.003 ~ .011	.020 ~ .106						2523	3783	1987	1988	1989	2045	4081								
-PF  Cermet Medium	VBMT221-PF	.016	.002 ~ .008	.004 ~ .067						2904			2967								2854	3618		
	VBMT222-PF	.031	.003 ~ .009	.012 ~ .067						2905			2968											
	VBMT330.5-PF	.008	.002 ~ .006	.004 ~ .079						2886			2948								2550	3594		
	VBMT331-PF	.016	.002 ~ .008	.008 ~ .079						2863			2949								2551	3595		
	VBMT332-PF	.031	.003 ~ .011	.012 ~ .079						2887			2950								2552	3596		
-PM  Cermet Medium	VBMT211-PM	.016	.002 ~ .007	.010 ~ .087						2934			2993											
	VBMT222-PM	.031	.003 ~ .009	.020 ~ .087						2935			2999								2855	3619		
	VBMT331-PM	.016	.003 ~ .008	.010 ~ .106						2915			2979								2561	3605		
	VBMT332-PM	.031	.003 ~ .011	.020 ~ .106						2916			2980								2562	3606		

					Series		IC	S
					VC.. 22		.250	.125
					VC.. 33		.375	.187



EDP 2200..

● : Stock item

○ : Order made item

VCGT VCMT	Designation	RE	Fn (In/rev.)	Ap (In)	K10	P05 K20	P10 K30	P15	P10	P25	P20	P30	P20	M25	M35	M15	M30	M40 S30	S10	S10	P15 M15 K15	P10 M10 K10	N20	N20
					YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	YG2025	YG2035	YG211	YG213	YG214	YG401	YG411	YT100	YT100G	YG100
-AL  Aluminum	VCGT220-AL	.004	.001 ~ .006	.002 ~ .118																			●	●
	VCGT220.5-AL	.008	.001 ~ .008	.002 ~ .118																			2102	1041
	VCGT221-AL	.016	.001 ~ .010	.004 ~ .157																			1353	1042
	VCGT330.5-AL	.008	Ø1 ~ .012	.002 ~ .197																			1519	1518
	VCGT331-AL	.016	.001 ~ .016	.004 ~ .197																			●	●
	VCGT332-AL	.031	.001 ~ .020	.004 ~ .197																			0418	0417
	VCGT333-AL	.047	.001 ~ .020	.004 ~ .197																			0835	0087
-SF  HRSA Finishing	VCGT220-SF	.004	.000 ~ .008	.004 ~ .059														●	●	●				
	VCGT220.5-SF	.008	.001 ~ .008	.004 ~ .059															2347	2077	4082			
	VCGT221-SF	.016	.002 ~ .008	.008 ~ .059															1475	1476	1480	1481	1483	
	VCGT222-SF	.031	.002 ~ .008	.016 ~ .059																2348	2078	4084		
-UF  Finishing	VCMT331-UF	.016	.002 ~ .010	.020 ~ .079			●	●	●	●	●	●												
	VCMT332-UF	.031	.002 ~ .010	.039 ~ .079			●	●	●	●	●	●	●											
-UG  General	VCMT331-UG	.016	.004 ~ .008	.012 ~ .098			●	●	●	●	●	●	●	●	●	●	●							
	VCMT332-UG	.031	.006 ~ .012	.031 ~ .098	●		●	●	●	●	●	●	●	●	●	●	●	●						

Turning Inserts - Positive
VCMT (35° Rhombic)

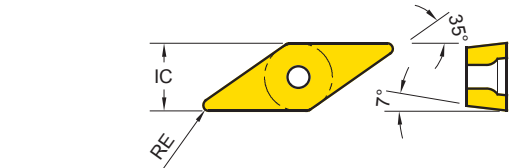
TURNING

PARTING & GROOVING

MILLING

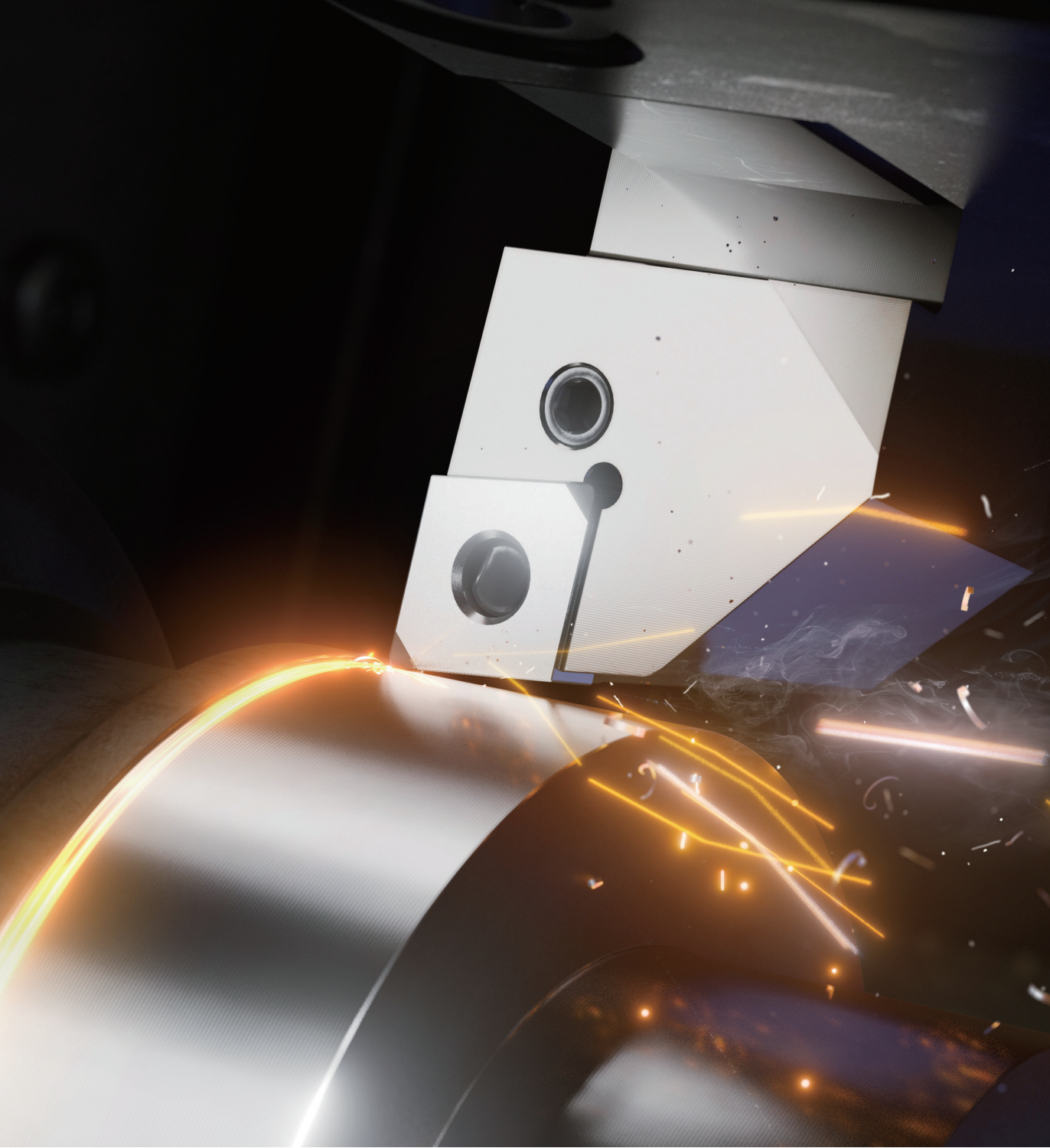
DRILLING

TECHNICAL INFORMATION



Series	IC	S
VC.. 22	.250	.125
VC.. 33	.375	.187

					EDP 2200..																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					K10		P05 K20		K20 K30		P10		P15		P25		P20		P30		P20		M25		M35		M15		M30		M40 S30		S10		S10		P15 M15 K15		P10 M10 K10		N20		N20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
VCMT	Designation	RE	Fn (In/rev.)	Ap (In)	YG1010	YG1001	YG1020	YG3010	YG3015	YG3115	YG3125	YG3020	YG3030	YG801	G2025	G2035	G211	G213	G214	YG401	YG411	YT100	YT100G	YG100	YG10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
 -MF Stainless steel Finishing	VCMT221-MF	.016	.002 ~ .008	.004 ~ .067											●	●	●	●	●	●	●																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

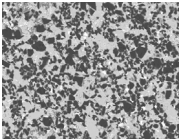
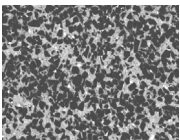
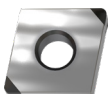
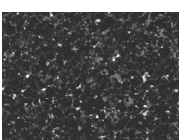


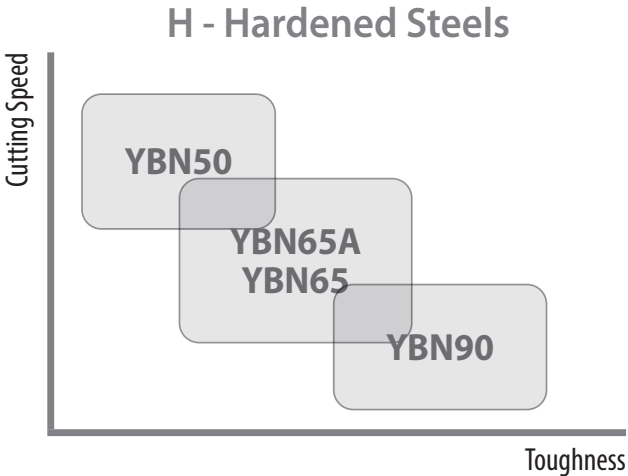
PCBN TURNING

- Product Overview
- PCBN - Turning Inserts Overview
- PCBN Turning Inserts

PCBN - Turning Grades

Turning Grades		K Cast iron				H Hardened Steel			
		K10	K20	K30		H10	H20	H30	
PCBN	YBN50					YBN50			
	YBN65						YBN65		
	YBN65A						YBN65A		
	YBN90		YBN90					YBN90	

NEW YBN50 H5 - H15			Uncoated PCBN grade for Continuous to light interrupted turning of hardened steels Low content PCBN with excellent chemical wear resistance
NEW YBN65A H10 - H25			Coated PCBN Grade for Continuous to Medium interrupted turning of hardened steels - A coated(AITiSiN Multi layer) PCBN grade for higher cutting speed - Medium content PCBN with superior edge toughness, Good flank and crater wear resistance - Suitable for both roughing and finishing
NEW YBN65 H10 - H25			Uncoated PCBN grade for Continuous to Medium interrupted turning of hardened steels - Medium content PCBN with superior edge toughness, good flank and crater wear resistance - Suitable for both roughing and finishing
NEW YBN90 H20 - H35 K05 - K20			Uncoated PCBN grade of Severe interrupted turning of hardened steels, and the Stable machining of Gray Cast iron, Sintered alloy steel - High content PCBN with high wear resistance, superior impact strength - Excellent edge quality and retention

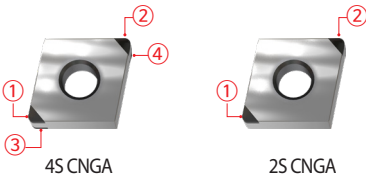


PCBN - Turning Insert Code System

1 2 Number of PCBN corner	2 S PCBN Length	3 CNGA432 Insert ISO Code System	4 S Edge preparation	5 004 ① Chamfer width	20 ② Chamfer angel	6 WG Special shape
--	------------------------------	---	-----------------------------------	------------------------------------	------------------------------	---------------------------------

1 - Number of PCBN corner

1	One corner PCBN
2	Two corner PCBN



2 - PCBN Length

N	Normal PCBN tip length, Regrindable
S	Small PCBN tip length One time use
SD	Solid PCBN
FT	Full Top PCBN

3 - Insert ISO Code System

Refer to Page. 16

6 - Special shape

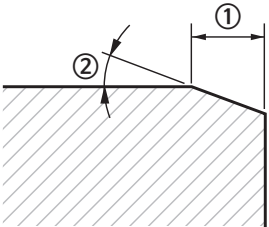
WG	Wiper
None	No Wiper

4 - Edge preparation

T	T-Land, None Honing
S	T-Land with Honed
X	Special land shape

5 - Chamfer

①	Chamfer width (004 means .004inch)
②	Chamfer angle (20 means 20°)



Grade Name Code System

1 Y Company Name	2 BN Materials	3 65 Contents of PCBN	4 A Kind of Coating
-------------------------------	-----------------------------	------------------------------------	----------------------------------

1 - Company Name

Y	YG-1
---	------

2 - Materials

BN	PCBN
----	------

3 - Contents of PCBN

50	50%
65	65%
90	90%

4 - Kind of Coating

None	Uncoated
A	AITiSiN multi-layer
B	TiAlN-TiN

PCBN - Turning Inserts Overview

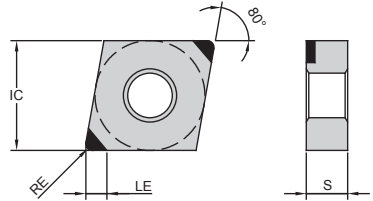
Negative Inserts

Shape	Series	No. of PCBN Eege	Size & Thickness							Page
C	CNGA	2							43	73
		4							43	
D	DNGA	2							43	74
		4							43	
S	SNGA	4							43	75
T	TNGA	3					33			76
		6					33			
V	VNGA	2					33			77
W	WNGA	3							43	78
		6							43	

Positive Inserts

Shape	Series	No. of PCBN Eege	Size & Thickness							Page
C	CCGW	2		21.5		32.5				79
D	DCGW	2		21.5		32.5				80
S	SCGW	2				32.5				81
T	TCGW	3	1.81.5	21.5		32.5				82
	TPGW	3	1.81.5		22		33			83
V	VBGW	2			22		33			84
	VCGW	2			22		33			85

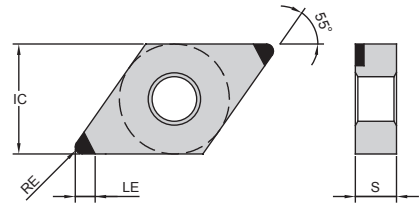
Turning Inserts - Negative
CNGA - PCBN (80° Rhombic)



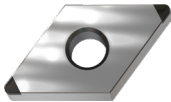
CNGA							EDP 2200..			
Designation							● : Stock item ○ : Order made item			
RE	LE	Fn (In/rev.)	Ap (In)	No. of PCBN Eege	YBN50	YBN65	YBN65A	YBN90	H05 - H15	
2S CNGA431 S00525	.016	.098	.001 ~ .008	.002 ~ .012	2	● 3008			H10 - H25	
2S CNGA432 S00525	.031	.094	.001 ~ .008	.002 ~ .012	2	● 3009	● 3010	● 3011	H10 - H25	
2S CNGA432 T00420	.031	.094	.001 ~ .008	.002 ~ .012	2			● 3065	H20 - H35	
4S CNGA432 S00525	.031	.094	.001 ~ .008	.002 ~ .012	4		● 3012	● 3013	K05 - K20	
2S CNGA433 S00525	.047	.091	.001 ~ .008	.002 ~ .012	2		● 3014			
2S CNGA431 S00515WG	.016	.098	.001 ~ .008	.002 ~ .012	2		● 3015			
2S CNGA432 S00515WG	.031	.094	.001 ~ .008	.002 ~ .012	2	● 3016	● 3017	● 3018		
2S CNGA432 T00420WG	.031	.094	.001 ~ .008	.002 ~ .012	2			● 3066		
4S CNGA432 S00515 WG	.031	.094	.001 ~ .008	.002 ~ .012	4	● 3019	● 3020	● 3021		
4S CNGA432 T00420 WG	.031	.094	.001 ~ .008	.002 ~ .012	4			● 3067		
2S CNGA433 S00515 WG	.047	.091	.001 ~ .008	.002 ~ .012	2		● 3022			

Turning Inserts - Negative
DNGA - PCBN (55° Rhombic)

Refer to
Turning holder
p.88

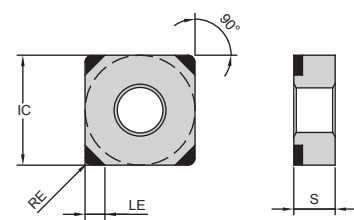


Series	IC	S
DN.. 43	.500	.187
DN.. 44	.500	.250

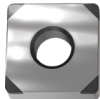
DNGA	Designation	RE	LE	Fn (In/rev.)	Ap (In)	No. of PCBN Eege	H05 - H15	H10- H25	H10- H25	H20- H35
							YBN50	YBN65	YBN65A	K05 - K20 YBN90
	2S DNGA431 S00525	.016	.098	.001 ~ .008	.002 ~ .012	2		3023		
	2S DNGA432 S00525	.031	.091	.001 ~ .008	.002 ~ .012	2	3024	3025	3026	
	2S DNGA432 T00420	.031	.091	.001 ~ .008	.002 ~ .012	2				3068
	4S DNGA432 S00525	.031	.091	.001 ~ .008	.002 ~ .012	4		3027	3028	
	2S DNGA433 S00525	.047	.079	.001 ~ .008	.002 ~ .012	2		3029		
	2S DNGA441 S00525	.016	.098	.001 ~ .008	.002 ~ .012	2		3030		
	2S DNGA442 S00525	.031	.091	.001 ~ .008	.002 ~ .012	2	3031	3032	3033	
	2S DNGA442 T00420	.031	.091	.001 ~ .008	.002 ~ .012	2				3069
	2S DNGA443 S00525	.047	.079	.001 ~ .008	.002 ~ .012	2		3034		

Turning Inserts - Negative
SNGA - PCBN (Square)

Refer to
Turning holder
p.89

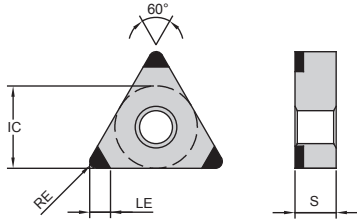


Series	IC	S
SN.. 43	.500	.187

SNGA	Designation	RE	LE	Fn (In/rev.)	Ap (In)	No. of PCBN Eege	H05 - H15	H10- H25	H10- H25	H20- H35
							YBN50	YBN65	YBN65A	K05 - K20 YBN90
	4S SNGA431 S00525	.016	.091	.001 ~ .008	.002 ~ .012	4		3035		
	4S SNGA432 S00525	.031	.091	.001 ~ .008	.002 ~ .012	4	3036	3037	3038	
	4S SNGA432 T00420	.031	.091	.001 ~ .008	.002 ~ .012	4				3070
	4S SNGA433 S00525	.047	.091	.001 ~ .008	.002 ~ .012	4		3039		

Turning Inserts - Negative
TNGA - PCBN (60° Triangle)

Refer to
Turning holder
p.90



TNGA

Designation

RE

LE

Fn
(In/rev.)

Ap
(In)

No. of
PCBN Eege

YBN50

YBN65

YBN65A

YBN90

3S TNGA331 S00525

.016

.102

.001 ~ .008

.002 ~ .012

3

●

●

●

●

3S TNGA332 S00525

.031

.091

.001 ~ .008

.002 ~ .012

3

●

●

●

●

3S TNGA332 T00420

.031

.091

.001 ~ .008

.002 ~ .012

3

●

●

●

●

6S TNGA332 S00525

.031

.091

.001 ~ .008

.002 ~ .012

6

●

●

●

●

3S TNGA333 S00525

.047

.079

.001 ~ .008

.002 ~ .012

3

●

●

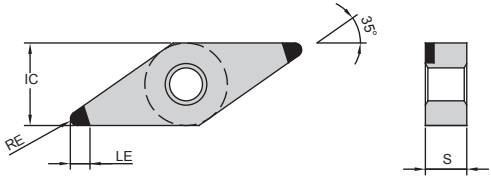
●

●

H05 - H15	H10- H25	H10- H25	H20- H35
			K05 - K20
YBN50	YBN65	YBN65A	YBN90
	●		
●	●	●	●
	●		●
	●	●	
	●		

Turning Inserts - Negative
VNGA - PCBN (35° Rhombic)

Refer to
Turning holder
p.91



Series	IC	S
VN.. 33	.375	.187

VNGA

Designation

RE

LE

Fn
(In/rev.)

Ap
(In)

No. of
PCBN Edge

H05 - H15

H10 - H25

H10 - H25

H20 - H35

K05 - K20

YBN50

YBN65

YBN65A

YBN90

2S VNGA331 S00525

.016

.098

.001 ~ .008

.002 ~ .012

2

3047

2S VNGA332 S00525

.031

.079

.001 ~ .008

.002 ~ .012

2

3048

3049

3050

2S VNGA332 T00420

.031

.079

.001 ~ .008

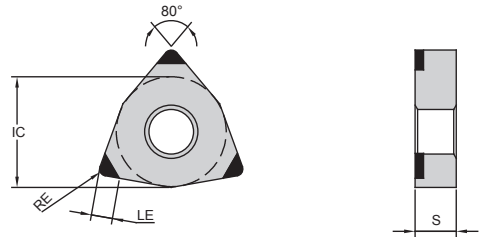
.002 ~ .012

2

3072

Turning Inserts - Negative
WNGA - PCBN (80° Trigon)

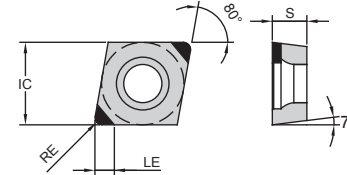
Refer to
Turning holder
p.92



Series	IC	S
WN.. 43	.500	.187

WNGA	Designation	RE	LE	Fn (In/rev.)	Ap (In)	No. of PCBN Eege	H05 - H15	H10- H25	H10- H25	H20- H35
							YBN50	YBN65	YBN65A	K05 - K20 YBN90
	3S WNGA431 S00525	.016	.098	.001 ~ .008	.002 ~ .012	3		3051		
	3S WNGA432 S00525	.031	.094	.001 ~ .008	.002 ~ .012	3	3052	3053	3054	
	3S WNGA432 T00420	.031	.094	.001 ~ .008	.002 ~ .012	3				3073
	6S WNGA432 S00525	.031	.094	.001 ~ .008	.002 ~ .012	6		3055	3056	
	3S WNGA433 S00525	.047	.091	.001 ~ .008	.002 ~ .012	3		3057		
	3S WNGA431 S00515 WG	.016	.098	.001 ~ .008	.002 ~ .012	3		3058		
	3S WNGA432 S00515 WG	.031	.094	.001 ~ .008	.002 ~ .012	3	3059	3060	3061	
	3S WNGA432 T00420 WG	.031	.094	.001 ~ .008	.002 ~ .012	3				3074
	6S WNGA432 S00515 WG	.031	.094	.001 ~ .008	.002 ~ .012	6		3062	3063	
	3S WNGA433 S00515 WG	.047	.091	.001 ~ .008	.002 ~ .012	3		3064		

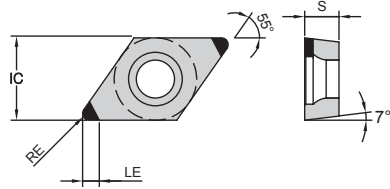
Turning Inserts - Positive
CCGW - PCBN (80° Rhombic)



Series	IC	S
CC.. 21.5	.250	.094
CC.. 32.5	.375	.156

CCGW	Designation	RE	LE	Fn (In/rev.)	Ap (In)	No. of PCBN Eege	H05 - H15	H10- H25	H10- H25	H20- H35
							YBN50	YBN65	YBN65A	K05 - K20 YBN90
	2S CCGW21.50.5 S00525	.008	.102	.001 ~ .008	.002 ~ .012	2		3075		
	2S CCGW21.51 S00525	.016	.098	.001 ~ .008	.002 ~ .012	2	3076	3077	3078	
	2S CCGW21.51 T00420	.016	.098	.001 ~ .008	.002 ~ .012	2				3133
	2S CCGW21.52 S00525	.031	.094	.001 ~ .008	.002 ~ .012	2		3079	3080	
	2S CCGW32.50.5 S00525	.008	.102	.001 ~ .008	.002 ~ .012	2		3081		
	2S CCGW32.51 S00525	.016	.098	.001 ~ .008	.002 ~ .012	2		3082	3083	
	2S CCGW32.52 S00525	.031	.094	.001 ~ .008	.002 ~ .012	2	3084	3085	3086	
	2S CCGW32.52 T00420	.031	.094	.001 ~ .008	.002 ~ .012	2				3134
	2S CCGW32.51 S00515 WG	.016	.098	.001 ~ .008	.002 ~ .012	2		3087	3088	
	2S CCGW32.52 S00515 WG	.031	.094	.001 ~ .008	.002 ~ .012	2		3089	3090	

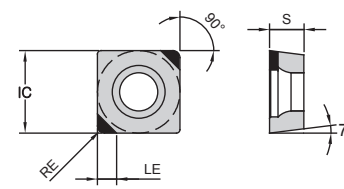
Turning Inserts - Positive
DCGW - PCBN (55° Rhombic)



Series	IC	S
DC.. 21.5	.250	.094
DC.. 32.5	.375	.156

DCGW	Designation	RE	LE	Fn (In/rev.)	Ap (In)	No. of PCBN Eege	H05 - H15	H10- H25	H10- H25	H20- H35
							YBN50	YBN65	YBN65A	K05 - K20
	2S DCGW21.50.5 S00525	.008	.106	.001 ~ .008	.002 ~ .012	2		3091		
	2S DCGW21.51 S00525	.016	.098	.001 ~ .008	.002 ~ .012	2		3092	3093	
	2S DCGW21.52 S00525	.031	.091	.001 ~ .008	.002 ~ .012	2	3094	3095	3096	
	2S DCGW21.52 T00420	.031	.091	.001 ~ .008	.002 ~ .012	2				3135
	2S DCGW32.50.5 S00525	.008	.106	.001 ~ .008	.002 ~ .012	2		3097	3098	
	2S DCGW32.51 S00525	.016	.098	.001 ~ .008	.002 ~ .012	2		3099	3100	
	2S DCGW32.52 S00525	.031	.091	.001 ~ .008	.002 ~ .012	2	3101	3102	3103	
	2S DCGW32.52 T00420	.031	.091	.001 ~ .008	.002 ~ .012	2				3136

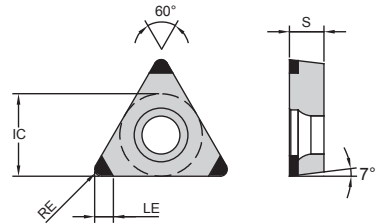
Turning Inserts - Positive
SCGW - PCBN (Square)



Series	IC	S
SC.. 32.5	.375	.156

SCGW	Designation	RE	LE	Fn (In/rev.)	Ap (In)	No. of PCBN Eege	H05 - H15	H10- H25	H10- H25	H20- H35
							YBN50	YBN65	YBN65A	K05 - K20
	2S SCGW32.51 S00525	.016	.091	.001 ~ .008	.002 ~ .012	2		3104		
	2S SCGW32.52 S00525	.031	.091	.001 ~ .008	.002 ~ .012	2		3105		

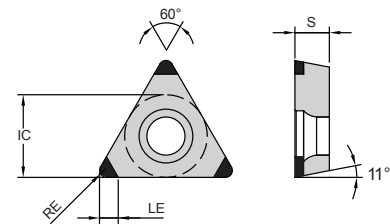
Turning Inserts - Positive
TCGW - PCBN (Triangle)



Series	IC	S
TC.. 1.81.5	.219	.094
TC.. 21.5	.250	.094
TC.. 32.5	.375	.156

TCGW	Designation	RE	LE	Fn (In/rev.)	Ap (In)	No. of PCBN Eege	H05 - H15	H10- H25	H10- H25	H20- H35
							YBN50	YBN65	YBN65A	K05 - K20
	3S TCGW1.81.51 S00525	.016	.102	.001 ~ .008	.002 ~ .012	3		3106		
	3S TCGW21.51 S00525	.016	.102	.001 ~ .008	.002 ~ .012	3		3107	3108	
	3S TCGW21.52 S00525	.031	.091	.001 ~ .008	.002 ~ .012	3		3109	3110	
	3S TCGW32.51 S00525	.016	.102	.001 ~ .008	.002 ~ .012	3		3111	3112	
	3S TCGW32.52 S00525	.031	.091	.001 ~ .008	.002 ~ .012	3	3113	3114	3115	
	3S TCGW32.52 T00420	.031	.091	.001 ~ .008	.002 ~ .012	3				3137

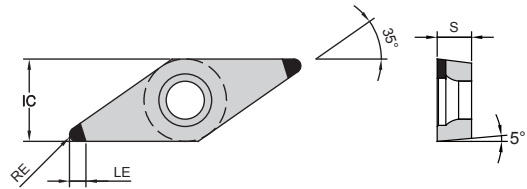
Turning Inserts - Positive
TPGW - PCBN (Triangle)



Series	IC	S
TP.. 1.81.5	.219	.094
TP.. 22	.250	.125
TP.. 33	.375	.187

TPGW	Designation	RE	LE	Fn (In/rev.)	Ap (In)	No. of PCBN Eege	H05 - H15	H10- H25	H10- H25	H20- H35
							YBN50	YBN65	YBN65A	K05 - K20
	3STPGW1.81.51 S00525	.016	.102	.001 ~ .008	.002 ~ .012	3		3116		
	3STPGW1.81.52 S00525	.031	.091	.001 ~ .008	.002 ~ .012	3		3117		
	3S TPGW221 S00525	.016	.102	.001 ~ .008	.002 ~ .012	3		3118		
	3S TPGW222 S00525	.031	.091	.001 ~ .008	.002 ~ .012	3		3119		
	3S TPGW331 S00525	.016	.102	.001 ~ .008	.002 ~ .012	3		3120		
	3S TPGW332 S00525	.031	.091	.001 ~ .008	.002 ~ .012	3		3121		

Turning Inserts - Positive
VBGW - PCBN (35° Rhombic)



Series	IC	S
VB.. 22	.250	.125
VB.. 33	.375	.187

VBGW

Designation

RE

LE

Fn
(In/rev.)

Ap
(In)

No. of
PCBN Eege

H05 - H15

H10- H25

H10- H25

H20 - H35

K05 - K20

YBN50

YBN65

YBN65A

YBN90

2S VBGW221 S00525

.016

.098

.001 ~ .008

.002 ~ .012

2

2S VBGW222 S00525

.031

.079

.001 ~ .008

.002 ~ .012

2

2S VBGW331 S00525

.016

.098

.001 ~ .008

.002 ~ .012

2

2S VBGW332 S00525

.031

.079

.001 ~ .008

.002 ~ .012

2

2S VBGW332 T00420

.031

.079

.001 ~ .008

.002 ~ .012

2

3122

3123

3124

3125

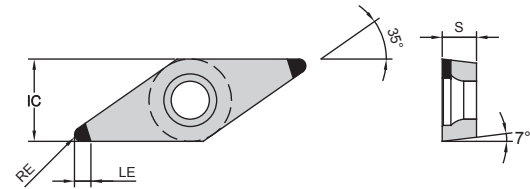
3128

3126

3127

3138

Turning Inserts - Positive
VCGW - PCBN (35° Rhombic)

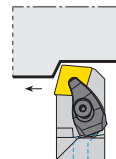
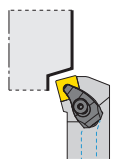
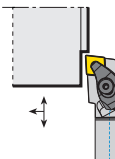
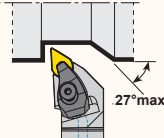
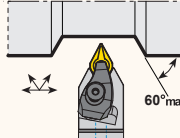
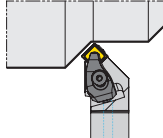
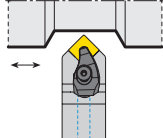
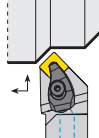
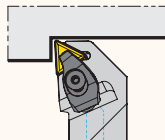
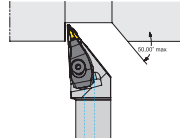
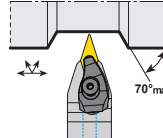
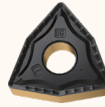
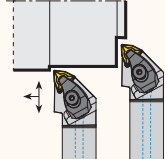


Technical drawing of a VCGW insert. The top view shows a triangular insert with dimensions RE (radius), LE (length), and IC (width). The side view shows the insert's profile with dimensions S (width) and a 7° angle. The top view also shows a 35° angle.

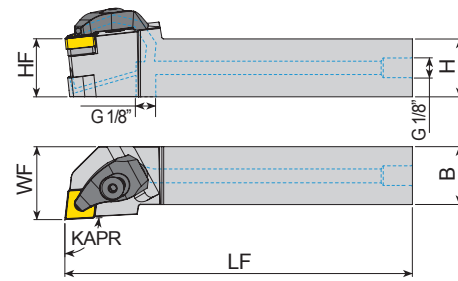
Series	IC	S
VC.. 22	.250	.125
VC.. 33	.375	.187

							H05 - H15	H10- H25	H10- H25	H20 - H35
										K05 - K20
VCGW	Designation	RE	LE	Fn (In/rev.)	Ap (In)	No. of PCBN Eege	YBN50	YBN65	YBN65A	YBN90
	2S VCGW221 S00525	.016	.098	.001 ~ .008	.002 ~ .012	2		3129		
	2S VCGW222 S00525	.031	.079	.001 ~ .008	.002 ~ .012	2		3130		
	2S VCGW331 S00525	.016	.098	.001 ~ .008	.002 ~ .012	2		3131		
	2S VCGW332 S00525	.031	.079	.001 ~ .008	.002 ~ .012	2		3132		

Turning - Holder - External
External Holders Overview

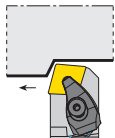
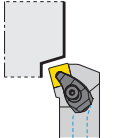
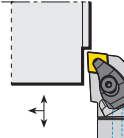
Series		Turning Holder	
	CNMA CNMG CNGG CNMM		DCBNR/L Double Clamp
p. 26		p. 87	
			DCKNR/L Double Clamp
		p. 87	
			DCLNR/L Double Clamp
		p. 87	
	DNMA DNMG DNGG DNMM DNUX		DDJNR/L Double Clamp
p. 31		p. 88	
			DDNNN Double Clamp
		p. 88	
	SNMA SNMG SNMM		DSBNR/L Double Clamp
p. 38		p. 89	
			DSDNN Double Clamp
		p. 89	
			DSSNR/L Double Clamp
		p. 89	
	TNMA TNMG TNGG TNMM TNUX		DTJNR/L Double Clamp
p. 42		p. 90	
	VNMA VNMG VNGG		DVJNR/L Double Clamp
p. 49		p. 91	
			DVVNN Double Clamp
		p. 91	
	WNMA WNMG WNGG		DWLNR/L Double Clamp
p. 51		p. 92	

Turning - Holder - External
Double Clamp with Internal coolant type for CN** Insert



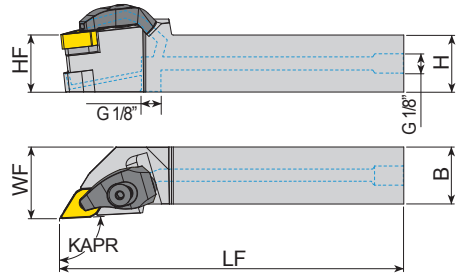
* 'C' Letter at Last : Optional Clamp Included

Unit: inch

Series	Designation	EDP 2700.. R L	H (= HF)	B	WF	LF	Insert
	DCBNR/L 124B - C	2337 2336	.75	.75	.79	4.5	CNMG43
	DCBNR/L 164D - C	1520 1521	1	1	.79	6	
	DCBNR/L 204D - C	1522 1523	1.25	1.25	.99	6	
	DCKNR/L 124B - C	2339 2338	.75	.75	1	4.5	CNMG43
	DCKNR/L 164D - C	1516 1517	1	1	1.25	6	
	DCKNR/L 204D - C	1518 1519	1.25	1.25	1.5	6	
	DCLNR/L 164D - C	1502 1503	1	1	1.25	6	CNMG54
	DCLNR/L 165D - C	1506 1507	1	1	1.25	6	
	DCLNR/L 204D - C	1504 1505	1.25	1.25	1.5	6	CNMG43
	DCLNR/L 205D - C	1508 1509	1.25	1.25	1.5	6	CNMG54
	DCLNR/L 206D - C	1512 1513	1.25	1.25	1.5	6	CNMG64
	DCLNR/L 245E - C	2342 2340	1.5	1.5	2	7	CNMG54
	DCLNR/L 246E - C	2343 2341	1.5	1.5	2	7	CNMG64
	DCLNR/L 124B - C	1500 1501	.75	.75	1	4.5	CNMG43

Series	Information	Clamp		Clamp Screw	Shim	Shim Screw	Spring	O-RING	Allen Key
		R	L						
DC.4	Description	YATKH-01-R	YATKH-02-L	YAKV-33-M6x22	YAACN-3-0001	YAAV-13-M5x8	YAKY-01	YAXR-01	YAAL-03-3
	EDP	18000220	18000221	18000222	18000137	18000163	28000044	18000223	18000061
DC.5	Description	YATKH-07-R	YATKH-08-L	YAKV-39-M7x21	YAACN-3-0002	YAAV-05-M6x15	YAKY-01 YAKY-02	YAXR-01	YAAL-05-4
	EDP	28000051	28000052	28000056	18000138	28000046	28000044 18000164	18000223	18000062
DC.6	Description	YATKH-09-R	YATKH-10-L	YAKV-39-M7x21	YAACN-3-0003	YAAV-17-M6x14	YAKY-01 YAKY-02	YAXR-01	YAAL-05-4
	EDP	28000053	28000054	28000056	18000139	28000057	28000044 18000164	18000223	18000062

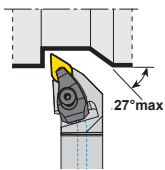
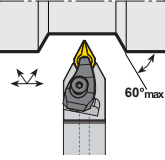
Double Clamp with Internal coolant type for DN** Insert



* 'C' Letter at Last : Optional Clamp Included

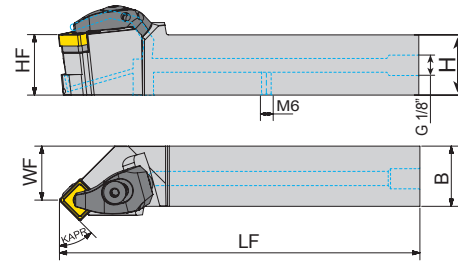
□ : p.31

Unit:inch

Series	Designation	EDP 2700.. R L	H (= HF)	B	WF	LF	Insert
 DDJNR/L Approach angle 93°	DDJNR/L 124B - C	1524 1525	.75	.75	1	4.5	DNMG43
	DDJNR/L 164D - C	1526 1527	1	1	1.25	6	
	DDJNR/L 204D - C	1528 1529	1.25	1.25	1.5	6	
 DDNNN Approach angle 62.5°	DDNNN 164D - C	1530	1	1	.5	6	DNMG43
	DDNNN 204D - C	1531	1.25	1.25	.625	6	

Series	Information	Clamp		Clamp Screw	Shim	Shim Screw	Spring	O-RING	Allen Key
		R	L						
DDJ.4	Description	YATKH-01-R	YATKH-02-L	YAKV-33-M6X22	YAADN-2-0003	YAAV-02-MSX12	YAKY-01	YAXR-01	YAAL-03-3
	EDP	18000220	18000221	18000222	18000139	18000156	28000044	18000223	18000061
DDN.4	Description	YATKH-01-R		YAKV-33-M6X22	YAADN-2-0003	YAAV-02-MSX12	YAKY-01	YAXR-01	YAAL-03-3
	EDP	18000220		18000222	18000139	18000156	28000044	18000223	18000061

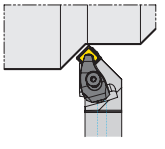
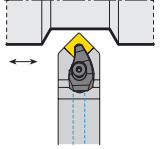
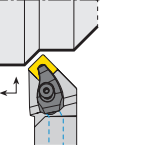
Double Clamp with Internal coolant type for SN** Insert



* 'C' Letter at Last : Optional Clamp Included

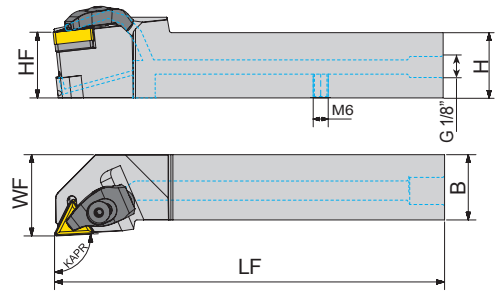
□ : p.38

Unit:inch

Series	Designation	EDP 2700.. R L	H (= HF)	B	WF	LF	Insert
 DSBNR/L Approach angle 75°	DSBNR/L 164D - C	1532 1533	1	1	.79	6	SNMG43
	DSBNR/L 165D - C	1536 1537	1	1	.79	6	SNMG54
	DSBNR/L 204D - C	1534 1535	1.25	1.25	.99	6	SNMG43
	DSBNR/L 205D - C	1538 1539	1.25	1.25	.99	6	SNMG54
 DSDNN Approach angle 45°	DSDNN 164D - C	1550	1	1	.5	6	SNMG43
	DSDNN 165D - C	1552	1	1	.5	6	SNMG54
	DSDNN 204D - C	1551	1.25	1.25	.625	6	SNMG43
	DSDNN 205D - C	1553	1.25	1.25	.625	6	SNMG54
	DSDNN 245E - C	2344	1.5	1.5	.75	7	SNMG54
 DSSNR/L Approach angle 45°	DSSNR/L 164D - C	1540 1541	1	1	1.25	6	SNMG43
	DSSNR/L 165D - C	1544 1545	1	1	1.25	6	SNMG54
	DSSNR/L 204D - C	1542 1543	1.25	1.25	1.5	6	SNMG43
	DSSNR/L 205D - C	1546 1547	1.25	1.25	1.5	6	SNMG54
	DSSNR/L 245E - C	2346 2345	1.5	1.5	2	5	SNMG54

Series	Information	Clamp		Clamp Screw	Shim	Shim Screw	Spring	O-RING	Allen Key
		R	L						
DSB.4	Description	YATKH-01-R	YATKH-02-L	YAKV-33-M6X22	YAASN-3-0004	YAAV-13-M5X8	YAKY-01	YAXR-01	YAAL-03-3
	EDP	18000220	18000221	18000222	18000145	18000163	28000044	18000223	18000061
DSB.5	Description	YATKH-07-R	YATKH-08-L	YAKV-39-M7x21	YAASN-3-0023	YAAV-05-M6X10	YAKY-01	YAXR-01	YAAL-05-4
	EDP	28000051	28000052	28000056	18000219	28000046	28000044	18000223	18000062
DSD.4	Description	YATKH-01-R		YAKV-33-M6X22	YAASN-3-0004	YAAV-13-M5X8	YAKY-01	YAXR-01	YAAL-03-3
	EDP	18000220		18000222	18000145	18000163	28000044	18000223	18000061
DSD.5	Description	YATKH-07-R		YAKV-39-M7x21	YAASN-3-0023	YAAV-05-M6X10	YAKY-01 YAKY-02	YAXR-01	YAAL-05-4
	EDP	28000051		28000056	18000219	28000046	28000044 18000164	18000223	18000062
DSS.4	Description	YATKH-02-L	YATKH-01-R	YAKV-33-M6X22	YAASN-3-0004	YAAV-13-M5X8	YAKY-01	YAXR-01	YAAL-03-3
	EDP	18000221	18000220	18000222	18000145	18000163	28000044	18000223	18000061
DSS.5	Description	YATKH-08-L	YATKH-07-R	YAKV-39-M7x21	YAASN-3-0023	YAAV-05-M6X10	YAKY-01 YAKY-02	YAXR-01	YAAL-05-4
	EDP	28000052	28000051	28000056	18000219	28000046	28000044 18000164	18000223	18000061

Double Clamp with Internal coolant type for TN** Insert



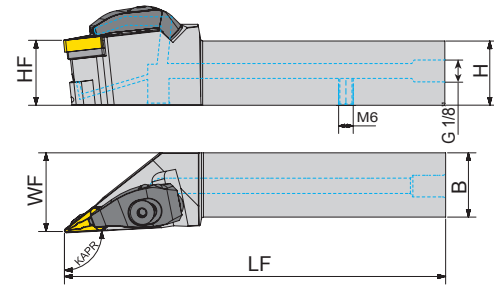
* 'C' Letter at Last : Optional Clamp Included

: p.42

Unit:inch

Series		Designation	EDP 2700.. R L	H (= HF)	B	WF	LF	Insert
 DTJNR/L Approach angle 93°	●	DTJNR/L 163D - C	1555 2347	1	1	1.25	6	TNMG33
		DTJNR/L 164D - C	1559 2348	1	1	1.25	6	TNMG43
		DTJNR/L 203D - C	1557 2349	1.25	1.25	1.5	6	TNMG33
		DTJNR/L 204D - C	1561 2350	1.25	1.25	1.5	6	TNMG43

Double Clamp with Internal coolant type for VN** Insert



* 'C' Letter at Last : Optional Clamp Included

: p.49

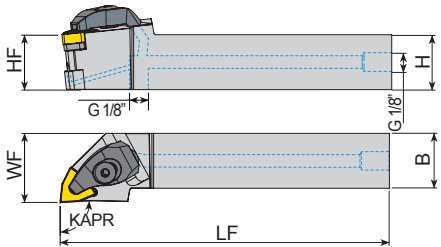
Unit:inch

Series		Designation	EDP 2700.. R L	H (= HF)	B	WF	LF	Insert
 DVJNR/L Approach angle 93° DVVNN Approach angle 72.5°	●	DVJNR/L 123B - C	1563 1564	.75	.75	1	4	VNMG33
		DVJNR/L 163D - C	1565 1566	1	1	1.25	6	
		DVJNR/L 203D - C	1567 1568	1.25	1.25	1.25	6	
		DVVNN 123B - C	1569	.75	.75	.375	4	
		DVVNN 163D - C	1570	1	1	.5	6	

Series	Information	Clamp		Clamp Screw	Shim	Shim Screw	Spring	O-RING	Allen Key
		R	L						
DTJ..3	Description	YATKH-03-R	YATKH-04-L	YAKV-37-M5X18	YAATN-2-0002	YAAV-03-M5X12	YAKY-03	YAXR-02	YAAL-02-2.5
	EDP	28000047	28000048	28000055	18000147	18000157	28000045	28000078	18000060
DTJ..4	Description	YATKH-01-R	YATKH-02-L	YAKV-33-M6X22	YAATN-3-0015	YAAV-13-M5X8	YAKY-01	YAXR-01	YAAL-03-3
	EDP	18000220	18000221	18000222	18000148	18000163	28000044	18000223	18000061

Series	Information	Clamp		Clamp Screw	Shim	Shim Screw	Spring	O-RING	Allen Key
		R	L						
DVJ..3	Description	YATKH-05-R	YATKH-06-L	YAKV-33-M6X22	YAAVN-2-0002	YAAV-04-M5x12	YAKY-01	YAXR-01	YAAL-03-3
	EDP	28000049	28000050	18000222	18000150	18000158	28000044	18000223	18000061
DVV..3	Description	YATKH-05-R		YAKV-33-M6X22	YAAVN-2-0002	YAAV-04-M5x12	YAKY-01	YAXR-01	YAAL-03-3
	EDP	28000049		18000222	18000150	18000158	28000044	18000223	18000061

Double Clamp with Internal coolant type for WN** Insert



* 'C' Letter at Last : Optional Clamp Included

: p. 51

Unit: inch

Series		Designation	EDP 2700..		H (= HF)	B	WF	LF	Insert
			R	L					
 DWLNR/L Approach angle 95°	●	DWLNR/L 123B - C	1571	1572	.75	.75	1	4.5	WNMG33
		DWLNR/L 124B - C	1575	1576	.75	.75	1	4.5	WNMG43
		DWLNR/L 163D - C	1573	1574	1	1	1.25	6	WNMG33
		DWLNR/L 164D - C	1577	1578	1	1	1.25	6	WNMG43
		DWLNR/L 204D - C	1579	1580	1.25	1.25	1.5	6	



PARTING & GROOVING

Parting & Grooving Inserts Overview

Parting & Grooving Inserts

Parting & Grooving Holders

Series	Information	Clamp		Clamp Screw	Shim	Shim Screw	Spring	O-RING	Allen Key
		R	L						
DWL..3	Description	YATKH-03-R	YATKH-04-L	YAKV-37-M5X18	YAAWN-SW317	YAAV-01-M3X10	YAKY-03	YAXR-02	YAAL-02-2.5
	EDP	28000047	28000048	28000055	18000152	18000155	28000045	28000078	18000060
DWL..4	Description	YATKH-01-R	YATKH-02-L	YAKV-33-M6X22	YAAWN-3-0001	YAAV-13-M5X8	YAKY-01	YAXR-01	YAAL-03-3
	EDP	18000220	18000221	18000222	18000151	18000163	28000044	18000223	18000061