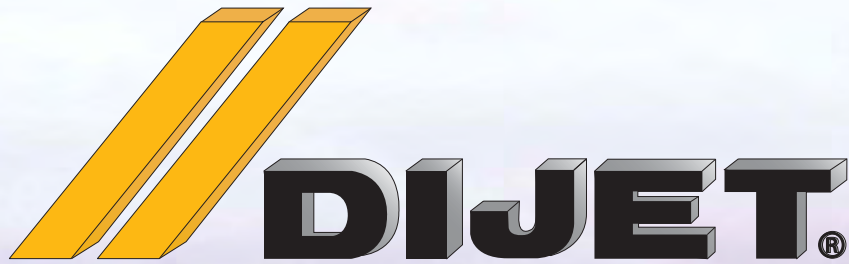


UK

TOOLING BY



5

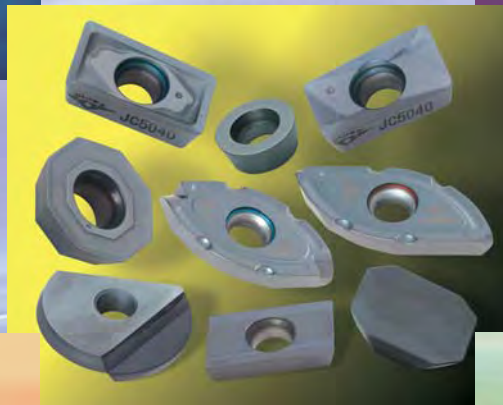


Indexable Tools

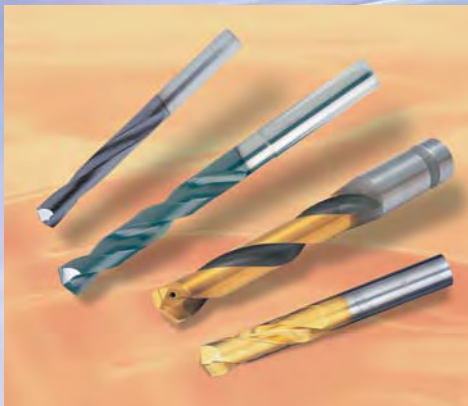
ISO & Dijet Milling Inserts



ISO Turning Inserts



Hard Cut End Mill



Drills



End Mill



JQA-2089

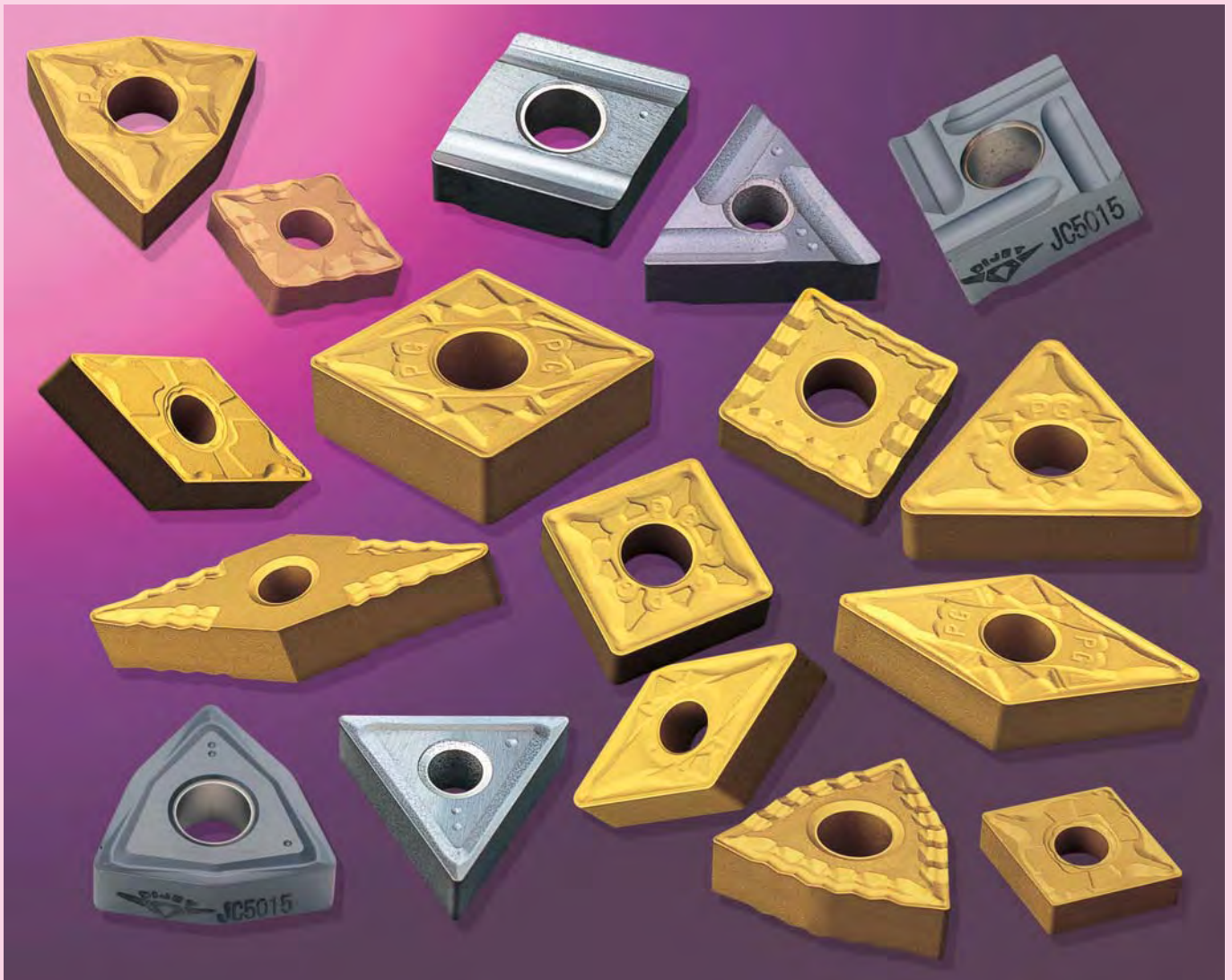


JQA-EM1580

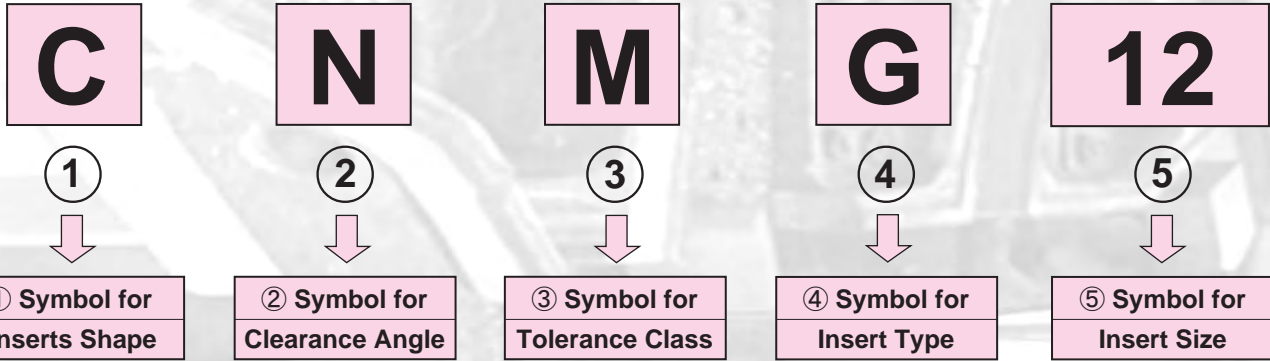


DIJET INDUSTRIAL CO., LTD.

“ ISO Turning Inserts ”



ISO Identification Table of Turning Inserts



① INSERT SHAPE

Symbol	Description	Angle	Figure
H	Hexagonal	120°	
O	Octagonal	135°	
P	Pentagonal	108°	
S	Square	90°	
T	Triangular	60°	
C	Rhombic	80°	
D		55°	
E		75°	
F		50°	
M		86°	
V		35°	
L	Rectangular	90°	
A	Parallelogram	85°	
B		82°	
K		55°	
R	Round	-	
W	Trigon	80°	

② CLEARANCE ANGLE ③ TOLERANCES CLASS

Symbol	Clearance
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	Others

Symbol	Corner height	Thickness	Inscribed circle (mm)
A	±0.005	±0.025	±0.025
F	±0.005	±0.025	±0.013
C	±0.013	±0.025	±0.025
H	±0.013	±0.025	±0.013
E	±0.025	±0.025	±0.025
G	±0.025	±0.13	±0.025
J*	±0.005	±0.025	±0.05~±0.13
K*	±0.013	±0.025	±0.05~±0.13
L*	±0.025	±0.025	±0.05~±0.13
M*	±0.08~±0.18	±0.13	±0.05~±0.13
U*	±0.13~±0.38	±0.13	±0.08~±0.25

* Mark tolerance classes normally apply to as sintered indexable inserts and the tolerance is dependent upon insert size.

④ TYPE OF INSERT

Symbol	Figure	Symbol	Figure	Symbol	Figure
N		U		C	
R		B		J	
F		A		X	Special design
W		M			
T		G			
Q		H			

J,K,L,M

1. Tolerance on the Inscribed Circle

I.C.	Triangular	Square	80° Rhombic	55° Rhombic	35° Rhombic	Round
6.35	±0.05	±0.05	±0.05	±0.05	—	—
9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
12.70	±0.08	±0.08	±0.08	±0.08	—	±0.08
15.875	±0.10	±0.10	±0.10	±0.10	—	±0.10
19.05	±0.10	±0.10	±0.10	±0.10	—	±0.10
25.40	±0.13	±0.13	±0.13	—	—	±0.12

2. Tolerance on Corner Height

I.C.	Triangular	Square	80° Rhombic	55° Rhombic	35° Rhombic
6.35	±0.08	±0.08	±0.08	±0.11	—
9.525	±0.08	±0.08	±0.08	±0.11	±0.13
12.70	±0.13	±0.13	±0.13	±0.15	—
15.875	±0.15	±0.15	±0.15	±0.18	—
19.05	±0.15	±0.15	±0.15	—	—
25.40	±0.18	±0.18	±0.18	—	—

I.C. = Inscribed Circle

" ISO Turning Inserts "

04

⑥



⑥ Symbol for
Insert Thickness

08

⑦



⑦ Symbol for
Insert Radius

N

⑧



⑧ Symbol for
Feed Direction

UR

⑨

⑩



⑨⑩ Symbol for
Chip Breaker

⑤ CUTTING EDGE LENGTH

I.C. Inscribed Circle (mm)	Insert Shape						
	C	D	R	S	T	V	W
3.97					06		
5.56					09		
6.35	06	07		06	11		
8.0			08				
9.525	09	11	09	09	16	16	06
10.0			10				
12.0			12				
12.70	12	15	12	12	22	22	08
15.875	16		15	15	27		
16.0			16				
19.05	19		19	19	33		
20.0			20				
25.0			25				
25.40	25		25	25			

⑥ THICKNESS

Symbol	Thickness
02	2.38
T2	2.78
03	3.18
T3	3.97
04	4.76
06	6.35
07	7.94
09	9.52

⑦ RADIUS

Symbol	Corner Radius(mm)
00	Sharp point
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
M0	Round (Metric dimension)
00	Round (Inch dimension)

⑧ FEED DIRECTION

Symbol	Corner Type
R	Right-hand insert
L	Left-hand insert
N	Neutral insert

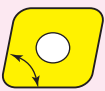

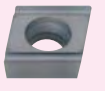



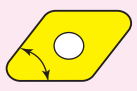







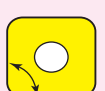











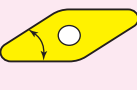







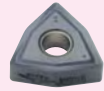
⑨ ⑩ CHIP BREAKER

Group of application	Symmetrical chip-breaker	Asymmetrical chip-breaker
Finishing	PF, UA, F1, FT	MF, MM
Light Cutting	UR, SF	
Medium Cutting	PG, UB	SG
Roughing	UD, GG, UC	

Symbols ⑧, ⑨ and ⑩ are optional symbols.
Symbol in ⑧ may be omitted.
























" ISO Turning Inserts "

Indexable Inserts Table

Operation		Finishing ←						
Chip-Breakers		PF	FT/MF/MM		MF/MM	F1	UA	SF
Hole Existence		Yes	Yes	Yes/No	Yes	Yes	Yes	Yes
Work Materials	P Steel	☺	☺	☺	☺	☺	☺	☺
	M Stainless Steel	☺	☺	☺	☺	☺	☺	☺
	K Cast Iron	☺	☹	☹	☹	☺	☹	☹
Inserts Shape	80° Rhombic	CNMG-PF  p.171	CCMT-FT  p.170		CCET-MF  p.192	CNMG-F1  p.170	CNMG-UA  p.171	CNMG-SF  p.171
	55° Rhombic	DNMG-PF  p.175	DCMT-FT  p.174	DCGT  p.193 p.193/4	DCET-MF  p.192 p.193	DNMG-F1  p.174	DNMG-UA  p.175	DNMG-SF  p.175
	Round							
	90° Square		SCMT-FT  p.178	SPMR-FT  p.181	TNMG-MF/2  p.194 p.195 NEW	SNMG-F1  p.179	SNMG-UA  p.179	
	60° Triangular		TCMT-FT  p.182	TPMR-FT  p.186		TNMG-F1  p.182	TNMG-UA  p.183	TNMG-SF  p.183
	35° Rhombic		VBMT-FT  p.186	VPET-MM  p.196	VBET-MF  p.195 p.195	VNMG-UT  p.187		
	80° Trigon				WCMX  p.188		WNMG-UA  p.188	WNMG-SF  p.189

☺ = Very Good ☺ = OK ☹ = Not recommended

“ ISO Turning Inserts ”

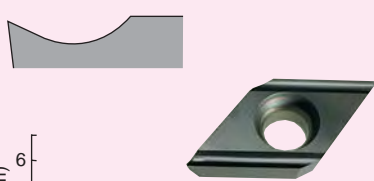
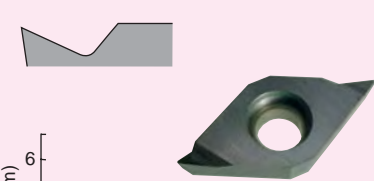
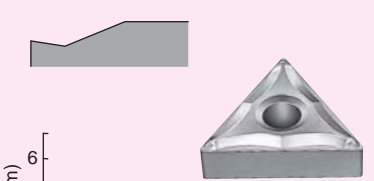
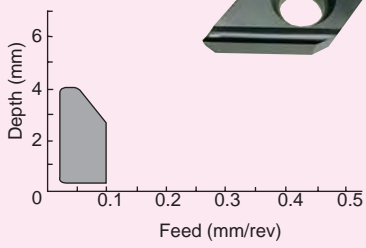
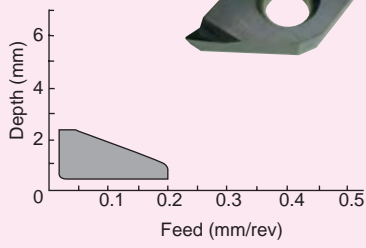
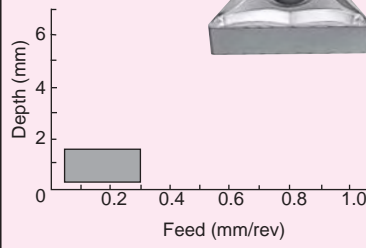
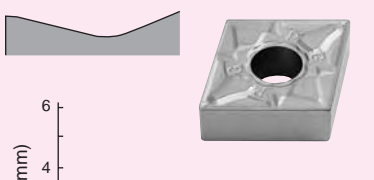
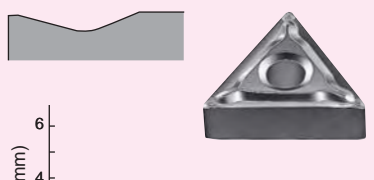
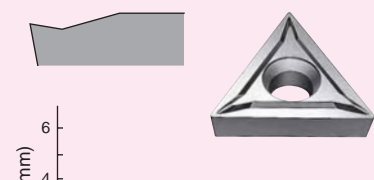
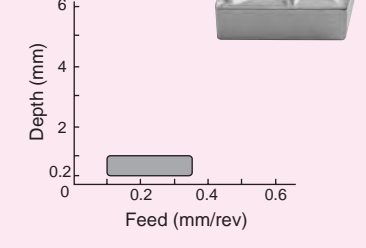
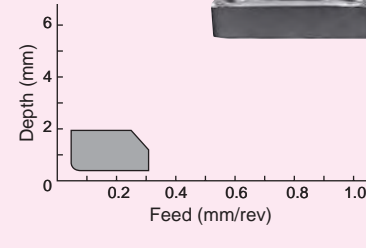
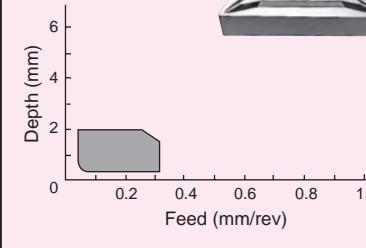
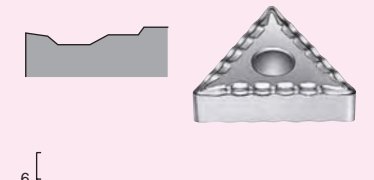
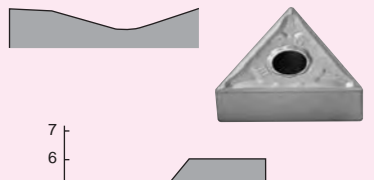
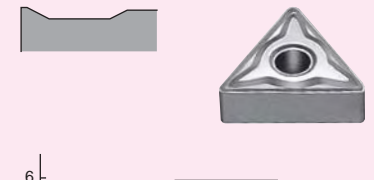
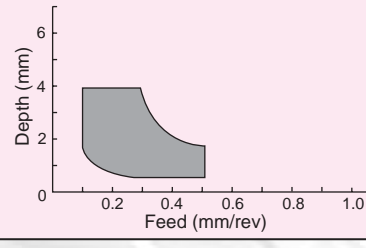
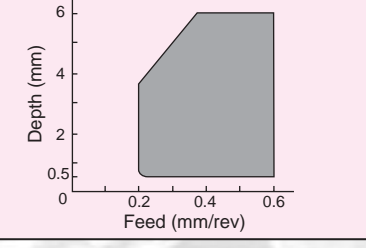
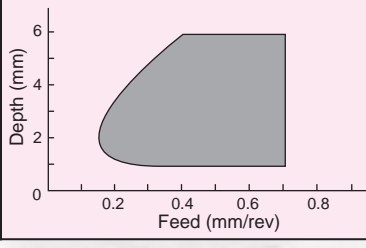
Medium					Roughing		Cast Iron	
UR	UB	PG	SG	UD	GG	UC	No Chip-Breaker	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
☺	☺	☺	☹	☺	☺	☺		
☹	☺		☺	☹	☹	☹		
☹	☹	☹	☹	☺	☺	☹	☺	☺
CNMG-UR  p.171	CNMG-UB  p.172	CNMG-PG  p.172	CNMG-SG  p.172	CNMG-UD  p.173	CNMG-GG  p.173	CNMM-UC  p.173	CNMA  p.170	
DNMG-UR  p.175	DNMG-UB  p.176	DNMG-PG  p.176	DNMG-SG  p.176	DNMG-UD  p.177	DNMG-GG  p.177	DNMM-UC  p.177	DNMA  p.174	
					RNMG-GG  p.178			
SNMG-UR  p.179	SNMG-UB  p.180	SNMG-PG  p.179	SNMG-SG  p.180	SNMG-UD  p.180	SNMG-GG  p.181	SNMM-UC  p.181	SNMA  p.182	
TNMG-UR  p.183	TNMG-UB  p.184	TNMG-PG  p.183	TNMG-SG  p.184	TNMG-UD  p.184	TNMG-GG  p.185	TNMM-UC  p.185	TNMA  p.150	TPMN  p.185
VNMG-UR  p.187					VNMG-GG  p.187		VNMA  p.186	
WNMG-UR  p.189	WNMG-UB  p.189	WNMG-PG  p.189	WNMG-SG  p.190	WNMG-UD  p.190	WNMG-GG  p.190	WNMM-UC  p.190	WNMA  p.188	

☺ = Very Good ☹ = OK ☹ = Not recommended

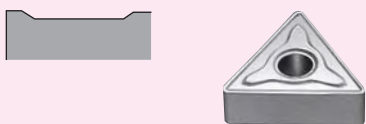
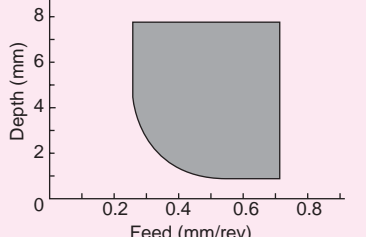
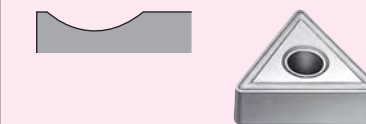
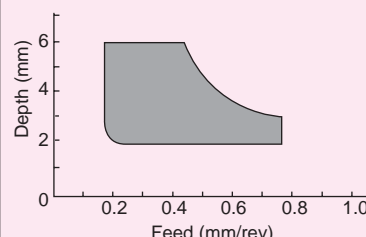
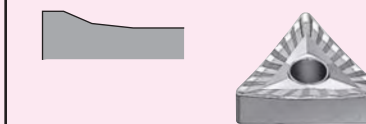
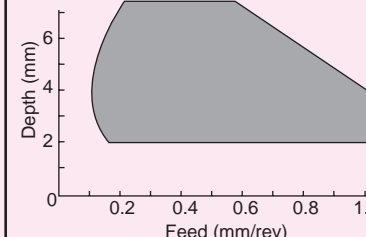
" ISO Turning Inserts "

Choice of Chip-breakers

P Steel

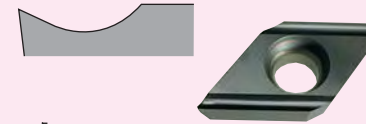
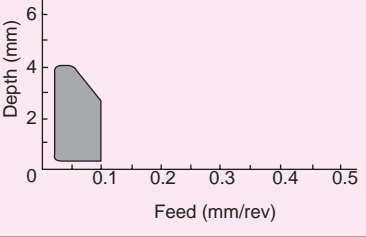
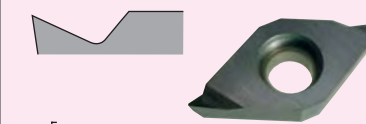
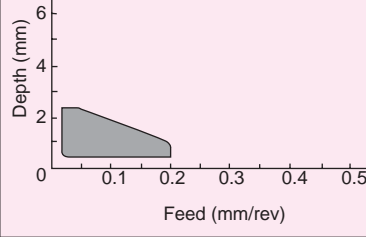
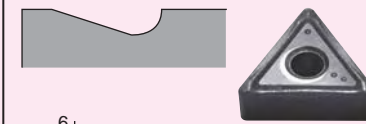
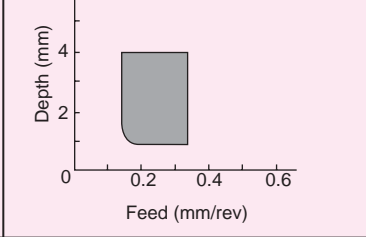
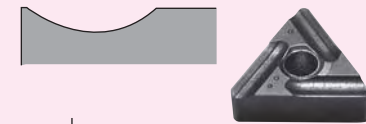
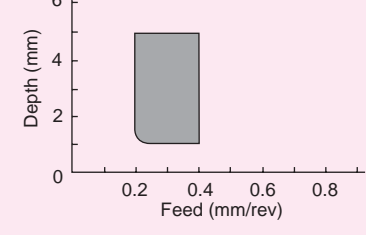
For Light cutting & Finishing	MF/2 Light cutting, super surface finish. Small components.	MM/2 Good Light cutting, super surface finish. Small components.	F1 Good cutting performance, possible super surface finish.
			
			
For Light cutting & Finishing	PF Tougher cutting edge, applicable for finishing and light cutting.	UA Tougher cutting edge, applicable for finishing and light cutting.	FT Suitable for Super finishing.
			
			
For Medium cutting	UR Excellent chip control for copy turning.	PG Longer tool life providing lower cutting forces.	UB Tougher cutting edge.
			
			

“ ISO Turning Inserts ”

For Medium to heavy Cutting	<p>UD Longer tool life providing tougher cutting edge.</p>  	<p>GG Possible to use for wide application with consistent cutting.</p>  	<p>UC Suitable for heavy duty cutting. One side use.</p>  
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ISO Turning Inserts



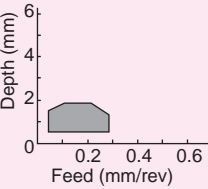
M Stainless Steel

For Light cutting & Finishing	<p>MF/2 Light cutting, super surface finish. Small components.</p>  	<p>MM/2 Good Light cutting, super surface finish. Small components</p>  	<p>SF Excellent for Stainless Steel.</p>  
	For Light to Medium Cutting	<p>SG General cutting for Stainless Steel.</p>  	

" ISO Turning Inserts "

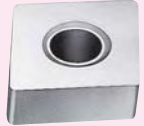
■ CCMT

80° Rhombic Positive 7° (M class)

  	CCMT FT Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
CCMT 060202-FT	●	●					●				6.35	2.38	0.2	2.90	
CCMT 060204-FT	●	●					●				6.35	2.38	0.4	2.90	
CCMT 060208-FT	●	●					●				6.35	2.38	0.8	2.90	
CCMT 09T302-FT	●	●					●				9.525	3.97	0.2	4.40	
CCMT 09T304-FT	●	●					●				9.525	3.97	0.4	4.40	
CCMT 09T308-FT	●	●					●				9.525	3.97	0.8	4.40	
CCMT 120404-FT	●	●									12.70	4.76	0.4	5.16	
CCMT 120408-FT	●	●									12.70	4.76	0.8	5.16	
CCMT 120412-FT	●										12.70	4.76	1.2	5.16	

■ CNMA



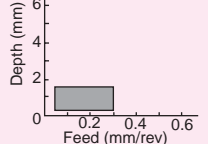
80° Rhombic Negative (M class)

	CNMA — Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
CNMA 120404	●	●									12.70	4.76	0.4	5.16	
CNMA 120408	●	●									12.70	4.76	0.8	5.16	
CNMA 120412	●	●									12.70	4.76	1.2	5.16	
CNMA 190612		○									19.05	6.35	1.2	7.93	
CNMA 190616		○									19.05	6.35	1.6	7.93	

○ Will not be available after current stock exhausted.

■ CNMG

80° Rhombic Negative (M class)

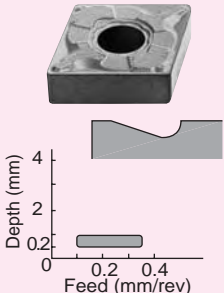
  	CNMG F1 Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	CX10	CX50				
CNMG 090304-F1											9.525	3.18	0.4	3.81	
CNMG 090308-F1											9.525	3.18	0.8	3.81	
CNMG 090404-F1											9.525	4.76	0.4	3.81	
CNMG 090408-F1											9.525	4.76	0.8	3.81	
CNMG 120404-F1							○	●	●		12.70	4.76	0.4	5.16	
CNMG 120408-F1							○	●	●		12.70	4.76	0.8	5.16	

○ Will not be available after current stock exhausted.

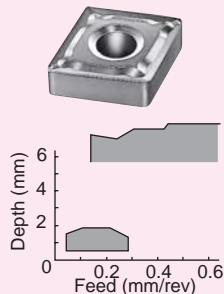
“ ISO Turning Inserts ”

CNMG

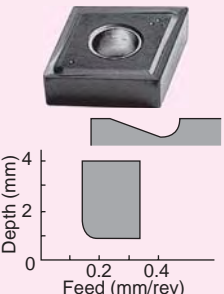
80° Rhombic Negative (M class)

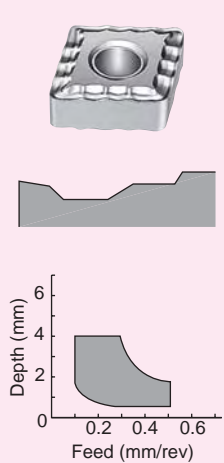
	CNMG	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	PF	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
	Cat. No.														
CNMG 090304-PF		●	○								○	9.525	3.18	0.4	3.81
CNMG 090308-PF		●	○								○	9.525	3.18	0.8	3.81

○ Will not be available after current stock exhausted.

	CNMG	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	UA	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
	Cat. No.														
CNMG 120404-UA		●	●	●				○			●	12.70	4.76	0.4	5.16
CNMG 120408-UA		●	●	●				●			●	12.70	4.76	0.8	5.16
CNMG 120412-UA				○								12.70	4.76	1.2	5.16
CNMG 120416-UA				○								12.70	4.76	1.6	5.16

○ Will not be available after current stock exhausted.

	CNMG	Grade								Dimensions (mm)						
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.			
	SF	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC8015	LN10					NIT	NAT	CX50
	Cat. No.															
CNMG 120404-SF		●						●	●				12.70	4.76	0.4	5.16
CNMG 120408-SF		●						●	●				12.70	4.76	0.8	5.16

	CNMG	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	UR	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					PX90	CX50
	Cat. No.														
CNMG 090304-UR			○	○	○						○	9.525	3.18	0.4	3.81
CNMG 090308-UR			○	○	○						○	9.525	3.18	0.8	3.81
CNMG 090404-UR												9.525	4.76	0.4	3.81
CNMG 090408-UR												9.525	4.76	0.8	3.81
CNMG 120404-UR		●	●	●	●					●	●	12.70	4.76	0.4	5.16
CNMG 120408-UR		●	●	●	●					●	●	12.70	4.76	0.8	5.16
CNMG 120412-UR		●	●	●	●					●		12.70	4.76	1.2	5.16
CNMG 120416-UR				○								12.70	4.76	1.6	5.16






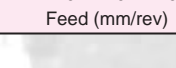
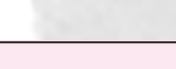


○ Will not be available after current stock exhausted.

ISO Turning Inserts






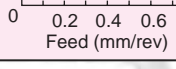




" ISO Turning Inserts "

CNMG





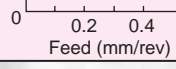


80° Rhombic Negative (M class)

 Depth (mm) Feed (mm/rev)	CNMG		Grade								Dimensions (mm)						
	PG	Cat. No.	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.			
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					PX75	CX50	
	CNMG 090304-PG		●	●	●	●							○	9.525	3.18	0.4	3.81
	CNMG 090308-PG		●	●	●	●							○	9.525	3.18	0.8	3.81
	CNMG 120404-PG		●	●	●	●	●							12.70	4.76	0.4	5.16
	CNMG 120408-PG		●	●	●	●	●					●		12.70	4.76	0.8	5.16
	CNMG 120412-PG		●	●	●	●	●							12.70	4.76	1.2	5.16
	CNMG 120416-PG		●	●	●	●	●							12.70	4.76	1.6	5.16
	CNMG 160608-PG		●	●	●	●	●							15.875	6.35	0.8	6.35
	CNMG 160612-PG		●	●	●	●	●							15.875	6.35	1.2	6.35

○ Will not be available after current stock exhausted.

 Depth (mm) Feed (mm/rev)	CNMG		Grade								Dimensions (mm)						
	UB	Cat. No.	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.			
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50	
	CNMG 090304-UB													9.525	3.18	0.4	3.81
	CNMG 090308-UB													9.525	3.18	0.8	3.81
	CNMG 120404-UB			●	●									12.70	4.76	0.4	5.16
	CNMG 120408-UB			●	●								○	12.70	4.76	0.8	5.16
	CNMG 120412-UB			●	●								○	12.70	4.76	1.2	5.16
	CNMG 120416-UB													12.70	4.76	1.6	5.16
	CNMG 160608-UB			○	○									15.875	6.35	0.8	6.35
	CNMG 160612-UB			●	●									15.875	6.35	1.2	6.35
	CNMG 160616-UB													15.875	6.35	1.6	6.35

○ Will not be available after current stock exhausted.



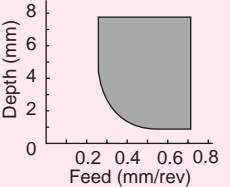
 Depth (mm) Feed (mm/rev)	CNMG		Grade								Dimensions (mm)						
	SG	Cat. No.	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.			
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC8015	LN10					NIT	CX10	CX50
	CNMG 120404L-SG			○						●	●			12.70	4.76	0.4	5.16
	CNMG 120404R-SG			○						●	●			12.70	4.76	0.4	5.16
	CNMG 120408L-SG			○						●	●			12.70	4.76	0.8	5.16
	CNMG 120408R-SG			○						●	●			12.70	4.76	0.8	5.16
	CNMG 120412L-SG									●	●			12.70	4.76	1.2	5.16
	CNMG 120412R-SG									●	●			12.70	4.76	1.2	5.16

○ Will not be available after current stock exhausted.



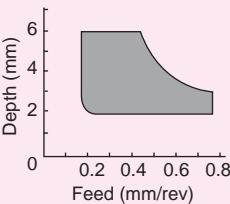
“ ISO Turning Inserts ”



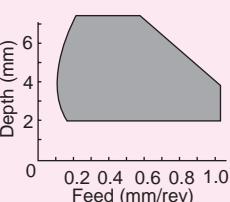
CNMG-CNMM

80° Rhombic Negative (M class)

  	CNMG UD Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
CNMG 120408-UD	●	●	●	●	●						12.70	4.76	0.8	5.16	
CNMG 120412-UD	●	●	●	●	●						12.70	4.76	1.2	5.16	
CNMG 120416-UD				●	○						12.70	4.76	1.6	5.16	
CNMG 160608-UD		●	●								15.875	6.35	0.8	6.35	
CNMG 160612-UD		●	●								15.875	6.35	1.2	6.35	
CNMG 160616-UD		●	●								15.875	6.35	1.6	6.35	
CNMG 190608-UD											19.05	6.35	0.8	7.93	
CNMG 190612-UD		●	●	●	●						19.05	6.35	1.2	7.93	
CNMG 190616-UD			●	●	○						19.05	6.35	1.6	7.93	

○ Will not be available after current stock exhausted.

  	CNMG GG Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
CNMG 120404-GG	●	●	●	●	●						12.70	4.76	0.4	5.16	
CNMG 120408-GG	●	●	●	●	●						12.70	4.76	0.8	5.16	
CNMG 120412-GG	●	●	●	●	●						12.70	4.76	1.2	5.16	
CNMG 120416-GG		●		●	●						12.70	4.76	1.6	5.16	
CNMG 160608-GG		●	●								15.875	6.35	0.8	6.35	
CNMG 160612-GG		●	●	●	●						15.875	6.35	1.2	6.35	
CNMG 160616-GG											15.875	6.35	1.6	6.35	
CNMG 190608-GG		●	●	●	●						19.05	6.35	0.8	7.93	
CNMG 190612-GG		●	●	●	●						19.05	6.35	1.2	7.93	
CNMG 190616-GG		●	●	●	●						19.05	6.35	1.6	7.93	
CNMG 190624-GG											19.05	6.35	2.4	7.93	

  	CNMM UC Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
CNMM 120408-UC		●	●	●	●						12.70	4.76	0.8	5.16	
CNMM 120412-UC		●	●	●							12.70	4.76	1.2	5.16	
CNMM 120416-UC											12.70	4.76	1.6	5.16	
CNMM 160608-UC											15.875	6.35	0.8	6.35	
CNMM 160612-UC			●	●							15.875	6.35	1.2	6.35	
CNMM 160616-UC			●	●							15.875	6.35	1.6	6.35	
CNMM 190612-UC			●	●							19.05	6.35	1.2	7.93	
CNMM 190616-UC			●	●							19.05	6.35	1.6	7.93	
CNMM 190624-UC											19.05	6.35	2.4	7.93	
CNMM 250724-UC											25.40	7.94	2.4	9.12	
CNMM 250924-UC											25.40	7.94	2.4	9.12	

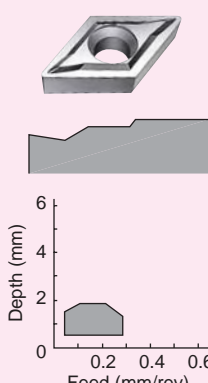
○ Will not be available after current stock exhausted.

ISO Turning Inserts

" ISO Turning Inserts "


DCMT

55° Rhombic Positive 7° (M class)

	DCMT	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	FT	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
Cat. No.															
DCMT 070202-FT		●	●					●				6.35	2.38	0.2	2.90
DCMT 070204-FT		●	●					●				6.35	2.38	0.4	2.90
DCMT 070208-FT		●	●									6.35	2.38	0.8	2.90
DCMT 11T302-FT		●	●					●				9.525	3.97	0.2	4.40
DCMT 11T304-FT		●	●					●				9.525	3.97	0.4	4.40
DCMT 11T308-FT		●	●					●				9.525	3.97	0.8	4.40

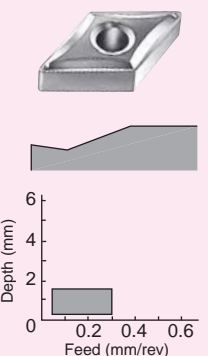
DNMA

55° Rhombic Negative (M class)

	DNMA	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	—	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
Cat. No.															
DNMA 150404		●	●									12.70	4.76	0.4	5.16
DNMA 150408		●	●									12.70	4.76	0.8	5.16
DNMA 150412		●	●									12.70	4.76	1.2	5.16
DNMA 150608												12.70	4.76	1.2	5.16
DNMA 150612															

DNMG

55° Rhombic Negative (M class)

	DNMG	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	F1	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					CX10	CX50
Cat. No.															
DNMG 150404-F1										●		12.70	4.76	0.4	5.16
DNMG 150408-F1										●		12.70	4.76	0.8	5.16
DNMG 150604-F1												12.70	6.35	0.4	5.16
DNMG 150608-F1												12.70	6.35	0.8	5.16

“ ISO Turning Inserts ”

DNMG

55° Rhombic Negative (M class)

	DNMG		Grade								Dimensions (mm)				
	PF	Cat. No.	Coated					Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT				
DNMG 110404-PF			●	○							○	9.525	4.76	0.4	3.81
DNMG 110408-PF			●	○							○	9.525	4.76	0.8	3.81

○ Will not be available after current stock exhausted.

	DNMG		Grade								Dimensions (mm)							
	UA	Cat. No.	Coated					Cermet				I. C.	Thickness	Nose Radius	Hole Dia.			
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	CX10					CX50		
DNMG 150404-UA			●	○	○						○			●	12.70	4.76	0.4	5.16
DNMG 150408-UA			●	○	○						○			●	12.70	4.76	0.8	5.16
DNMG 150412-UA					○										12.70	4.76	1.2	5.16
DNMG 150604-UA			●												12.70	6.35	0.4	5.16
DNMG 150608-UA			●	○											12.70	6.35	0.8	5.16
DNMG 150612-UA					○										12.70	6.35	1.2	5.16

○ Will not be available after current stock exhausted.

	DNMG		Grade								Dimensions (mm)							
	SF	Cat. No.	Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.		
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC8015	LN10	NIT	NAT					CX50	
DNMG 150404-SF											●	●			12.70	4.76	0.4	5.16
DNMG 150408-SF											●	●			12.70	4.76	0.8	5.16
DNMG 150604-SF											●	●			12.70	6.35	0.4	5.16
DNMG 150608-SF											●	●			12.70	6.35	0.8	5.16

	DNMG		Grade								Dimensions (mm)						
	UR	Cat. No.	Coated					Cermet				I. C.	Thickness	Nose Radius	Hole Dia.		
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT					CX50	
DNMG 110404-UR			●	●	●								○	9.525	4.76	0.4	3.81
DNMG 110408-UR			●	●	●								○	9.525	4.76	0.8	3.81
DNMG 150404-UR			●	●	●	●							●	12.70	4.76	0.4	5.16
DNMG 150408-UR			●	●	●	●							○	12.70	4.76	0.8	5.16
DNMG 150412-UR			○	○										12.70	4.76	1.2	5.16
DNMG 150604-UR					●	●								12.70	6.35	0.4	5.16
DNMG 150608-UR			○	●	●									12.70	6.35	0.8	5.16
DNMG 150612-UR			○	○										12.70	6.35	1.2	5.16
DNMG 150616-UR														12.70	6.35	1.6	5.16



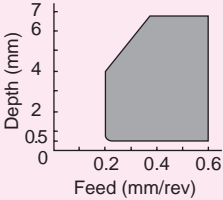
○ Will not be available after current stock exhausted.

ISO Turning Inserts



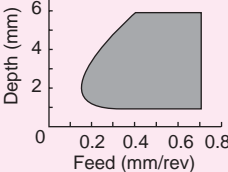
" ISO Turning Inserts "

DNMG



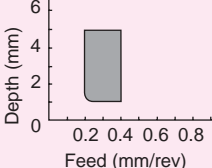
55° Rhombic Negative (M class)

  	DNMG		Grade								Dimensions (mm)					
	PG		Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.		
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
DNMG 110404-PG	●	●	●	●	●							○	9.525	4.76	0.4	3.81
DNMG 110408-PG	●	●	●	●								○	9.525	4.76	0.8	3.81
DNMG 150404-PG	●	●	●	●	●								12.70	4.76	0.4	5.16
DNMG 150408-PG	●	●	●	●	●								12.70	4.76	0.8	5.16
DNMG 150412-PG	●	●	●	●	●								12.70	4.76	1.2	5.16
DNMG 150604-PG	●	●	●	●	●								12.70	6.35	0.4	5.16
DNMG 150608-PG	●	●	●	●	●								12.70	6.35	0.8	5.16
DNMG 150612-PG	●	●	●	●	●								12.70	6.35	1.2	5.16

○ Will not be available after current stock exhausted.

  	DNMG		Grade								Dimensions (mm)					
	UB		Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.		
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					CX10	CX50
DNMG 150404-UB		●	●										12.70	4.76	0.4	5.16
DNMG 150408-UB		●	●									●	12.70	4.76	0.8	5.16
DNMG 150412-UB			●									○	12.70	4.76	1.2	5.16
DNMG 150604-UB		●	●										12.70	6.35	0.4	5.16
DNMG 150608-UB		●	●										12.70	6.35	0.8	5.16
DNMG 150612-UB													12.70	6.35	1.2	5.16

○ Will not be available after current stock exhausted.

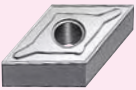

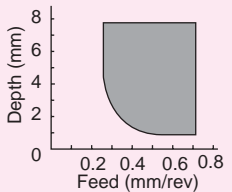
  	DNMG		Grade								Dimensions (mm)					
	SG		Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.		
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC8015	LN10					NIT	NAT
DNMG 150404L-SG		○					●	●					12.70	4.76	0.4	5.16
DNMG 150404R-SG		○					●	●					12.70	4.76	0.4	5.16
DNMG 150408L-SG		○					●	●					12.70	4.76	0.8	5.16
DNMG 150408R-SG		○					●	●					12.70	4.76	0.8	5.16
DNMG 150604L-SG		○					●	●					12.70	6.35	0.4	5.16
DNMG 150604R-SG		○					●	●					12.70	6.35	0.4	5.16
DNMG 150608L-SG							●	●					12.70	6.35	0.8	5.16
DNMG 150608R-SG							●	●					12.70	6.35	0.8	5.16

○ Will not be available after current stock exhausted.



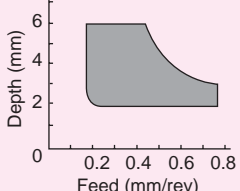
“ ISO Turning Inserts ”

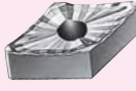

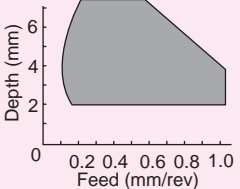
DNMG-DNMM

55° Rhombic Negative (M class)

  	DNMG		Grade								Dimensions (mm)				
	UD		Coated					Cermet			Iscribed Circle	Thickness	Nose Radius	Hole Dia.	
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT
DNMG 150404-UD			●	●								12.70	6.35	0.4	5.16
DNMG 150408-UD				●	●							12.70	6.35	0.8	5.16
DNMG 150412-UD					●							12.70	6.35	1.2	5.16
DNMG 150604-UD				○								12.70	6.35	0.4	5.16
DNMG 150608-UD	●	●	●	●								12.70	6.35	0.8	5.16
DNMG 150612-UD	●	●	●	●								12.70	6.35	1.2	5.16
DNMG 150616-UD												12.70	6.35	1.6	5.16

○ Will not be available after current stock exhausted.

  	DNMG		Grade								Dimensions (mm)				
	GG		Coated					Cermet			Iscribed Circle	Thickness	Nose Radius	Hole Dia.	
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT
DNMG 150404-GG	●	●	●	●	●							12.70	4.76	0.4	5.16
DNMG 150408-GG	●	●	●	●	●							12.70	4.76	0.8	5.16
DNMG 150412-GG	●	●	●	●	●							12.70	4.76	1.2	5.16
DNMG 150604-GG		●	●	●	●							12.70	6.35	0.4	5.16
DNMG 150608-GG		●	●	●	●							12.70	6.35	0.8	5.16
DNMG 150612-GG		●	●	●	●							12.70	6.35	1.2	5.16
DNMG 150616-GG												12.70	6.35	1.6	5.16

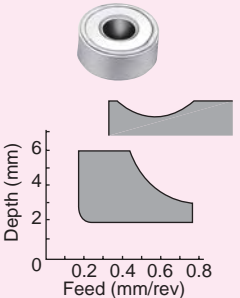
  	DNMM		Grade								Dimensions (mm)				
	UC		Coated					Cermet			Iscribed Circle	Thickness	Nose Radius	Hole Dia.	
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT
DNMM 150408-UC												12.70	4.76	0.8	5.16
DNMM 150412-UC												12.70	4.76	1.2	5.16
DNMM 150608-UC			●	●								12.70	6.35	0.8	5.16
DNMM 150612-UC			●	●								12.70	6.35	1.2	5.16
DNMM 150616-UC												12.70	6.35	1.6	5.16

ISO Turning Inserts

" ISO Turning Inserts "

RNMG

Round Negative (M Class)

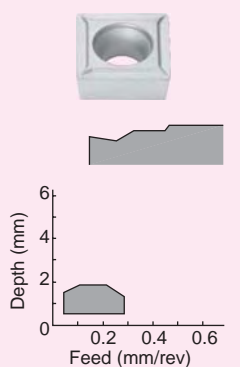


RNMG	Grade								Dimensions (mm)					
	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.		
	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
Cat. No.														
RNMG 090300-GG				●							9.525	3.18	-	3.81
RNMG 120400-GG	○		●	●							12.70	4.76	-	5.16
RNMG 190600-GG				●							19.05	6.35	-	7.93

○ Will not be available after current stock exhausted.

SCMT


90° Square Positive 7° (M Class)



SCMT	Grade								Dimensions (mm)					
	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.		
	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
Cat. No.														
SCMT 09T304-FT		●	●								9.525	3.97	0.4	4.40
SCMT 09T308-FT		●	●								9.525	3.97	0.8	4.40
SCMT 120404-FT		●	●								12.70	4.76	0.4	5.16
SCMT 120408-FT		●	●								12.70	4.76	0.8	5.16

SNMA

90° Square Negative (M Class)



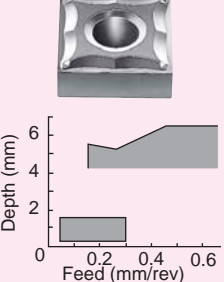
SNMA	Grade								Dimensions (mm)					
	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.		
	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
Cat. No.														
SNMA 120404	○										12.70	4.76	0.4	5.16
SNMA 120408	●	●									12.70	4.76	0.8	5.16
SNMA 120412	●	●									12.70	4.76	1.2	5.16
SNMA 120416	●	○									12.70	4.76	1.6	5.16

○ Will not be available after current stock exhausted.

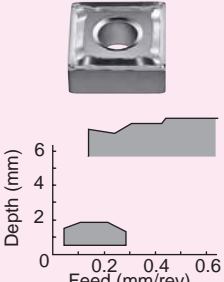
“ ISO Turning Inserts ”

SNMG

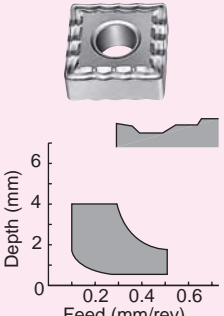
90° Square Negative (M Class)

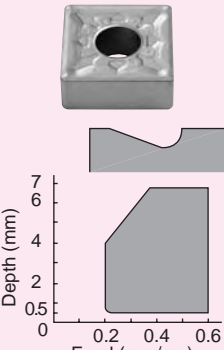
	SNMG	Grade								Dimensions (mm)					
		F1	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.	
	JC105V		JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	CX10					CX50
	Cat. No.														
SNMG 120404-F1							○		●		12.70	4.76	0.4	5.16	
SNMG 120408-F1							○		●		12.70	4.76	0.8	5.16	

○ Will not be available after current stock exhausted.

	SNMG	Grade								Dimensions (mm)					
		UA	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.	
	JC105V		JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT					CX50
	Cat. No.														
SNMG 120404-UA		○	○	○							12.70	4.76	0.4	5.16	
SNMG 120408-UA		○	○	○							12.70	4.76	0.8	5.16	
											12.70	4.76	1.2	5.16	
											12.70	4.76	1.6	5.16	

○ Will not be available after current stock exhausted.



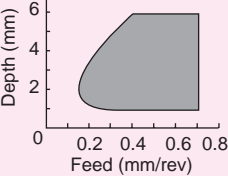
	SNMG	Grade								Dimensions (mm)					
		UR	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.	
	JC105V		JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT					CX50
	Cat. No.														
SNMG 120404-UR		●	●	●							12.70	4.76	0.4	5.16	
SNMG 120408-UR		●	●	●	●						12.70	4.76	0.8	5.16	
SNMG 120412-UR		●	●	●	●						12.70	4.76	1.2	5.16	

	SNMG	Grade								Dimensions (mm)					
		PG	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.	
	JC105V		JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT					CX50
	Cat. No.														
SNMG 120404-PG	●	●	●	●	●						12.70	4.76	0.4	5.16	
SNMG 120408-PG	●	●	●	●	●						12.70	4.76	0.8	5.16	
SNMG 120412-PG		●	●	●	●						12.70	4.76	1.2	5.16	
SNMG 120416-PG	●	●	●	●	●						12.70	4.76	1.6	5.16	



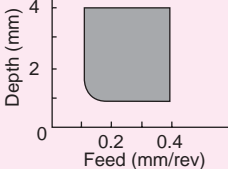
" ISO Turning Inserts "

■ SNMG



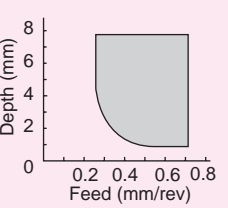
90° Square Negative (M class)

  	SNMG UB Cat. No..	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
SNMG 120404-UB	●	●									12.70	4.76	0.4	5.16	
SNMG 120408-UB	●	●	○								12.70	4.76	0.8	5.16	
SNMG 120412-UB	●	●	●								12.70	4.76	1.2	5.16	
SNMG 120416-UB											12.70	4.76	1.6	5.16	
SNMG 150612-UB											15.875	6.35	1.2	6.35	
SNMG 150616-UB											15.875	6.35	1.6	6.35	

○ Will not be available after current stock exhausted.

  	SNMG SG Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC8015	LN10	NIT	CX10				
SNMG 120404L-SG		○				●	●				12.70	4.76	0.4	5.16	
SNMG 120404R-SG		○				●	●				12.70	4.76	0.4	5.16	
SNMG 120408L-SG		○				●	●				12.70	4.76	0.8	5.16	
SNMG 120408R-SG		○				●	●				12.70	4.76	0.8	5.16	
SNMG 120412L-SG		○				●	●				12.70	4.76	1.2	5.16	
SNMG 120412R-SG		○				●	●				12.70	4.76	1.2	5.16	



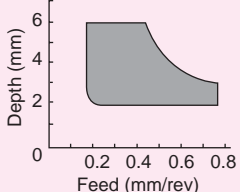
○ Will not be available after current stock exhausted.



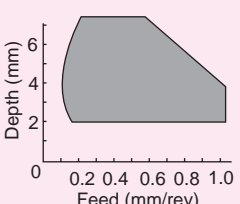
  	SNMG UD Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
SNMG 120408-UD	●	●	●	●	●						12.70	4.76	0.8	5.16	
SNMG 120412-UD	●	●	●	●	●						12.70	4.76	1.2	5.16	
SNMG 120416-UD				●	●						12.70	4.76	1.6	5.16	
SNMG 150612-UD											15.875	6.35	0.8	6.35	
SNMG 150616-UD											15.875	6.35	1.2	6.35	
SNMG 190608-UD											15.875	6.35	1.6	6.35	
SNMG 190612-UD			●	●	●						19.05	6.35	0.8	7.93	
SNMG 190616-UD				●	●						19.05	6.35	1.2	7.93	
											19.05	6.35	1.6	7.93	

“ ISO Turning Inserts ”

■ SNMG-SNMM




90° Square Negative (M class)

  	SNMG GG Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
SNMG 120404-GG	●	●	●	●	●						12.70	4.76	0.4	5.16	
SNMG 120408-GG	●	●	●	●	●						12.70	4.76	0.8	5.16	
SNMG 120412-GG	●	●	●	●	●						12.70	4.76	1.2	5.16	
SNMG 120416-GG	●	●	●	●	●						12.70	4.76	1.6	5.16	
SNMG 150608-GG											15.875	6.35	0.8	6.35	
SNMG 150612-GG		●			●						15.875	6.35	1.2	6.35	
SNMG 150616-GG		●			●						15.875	6.35	1.6	6.35	
SNMG 190608-GG											19.05	6.35	0.8	7.93	
SNMG 190612-GG		●		●	●						19.05	6.35	1.2	7.93	
SNMG 190616-GG		●	●	●	●						19.05	6.35	1.6	7.93	
SNMG 250724-GG					●						25.40	7.94	2.4	9.12	

  	SNMM UC Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
SNMM 120408-UC			●	●							12.70	4.76	0.8	5.16	
SNMM 120412-UC			●	●							12.70	4.76	1.2	5.16	
SNMM 120416-UC											12.70	4.76	1.6	5.16	
SNMM 190612-UC			●	●							19.05	6.35	1.2	7.93	
SNMM 190616-UC			●	●	●						19.05	6.35	1.6	7.93	
SNMM 190624-UC											19.05	6.35	2.4	7.93	
SNMM 250724-UC			●	●							25.40	7.94	2.4	9.12	
SNMM 250924-UC			●	●							25.40	9.52	2.4	9.12	

■ SPMR

90° Square Positive 11° (M class)

  	SPMR FT Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
SPMR 090304-FT				●	●	●		●			9.525	3.18	0.4	-	
SPMR 090308-FT				●	●	●		●			9.525	3.18	0.8	-	
SPMR 120304-FT		●	●	●	●			○			12.70	3.18	0.4	-	
SPMR 120308-FT		●	●	●	●			○			12.70	3.18	0.8	-	
SPMR 120312-FT		●	●					○			12.70	3.18	1.2	-	

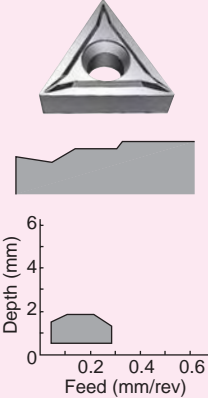
○ Will not be available after current stock exhausted.

ISO Turning Inserts

" ISO Turning Inserts "


TCMT

60° Triangular Positive 7° (M class)

	TCMT	Grade								Dimensions (mm)							
		FT	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.			
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50	
Cat. No.																	
TCMT 110202-FT		●	●					●				6.35	2.38	0.2	2.90		
TCMT 110204-FT		●	●					●				6.35	2.38	0.4	2.90		
TCMT 110208-FT		●	●					●				6.35	2.38	0.8	2.90		
TCMT 16T304-FT		●	●									9.525	3.97	0.4	4.40		
TCMT 16T308-FT		●	●									9.525	3.97	0.8	4.40		

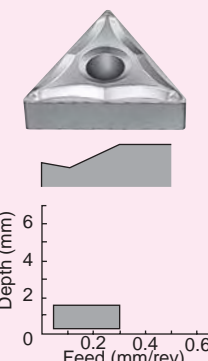
TNMA

60° Triangular Negative (M class)

	TNMA	Grade								Dimensions (mm)							
		—	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.			
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50	
Cat. No.																	
TNMA 160404		●	●									9.525	3.18	0.4	3.81		
TNMA 160408		●	●		●							9.525	3.18	0.8	3.81		
TNMA 160412		●	●									9.525	3.18	1.2	3.81		
TNMA 220404												12.70	4.76	0.4	5.16		
TNMA 220408			●									12.70	4.76	0.8	5.16		
TNMA 220412			●									12.70	4.76	1.2	5.16		

TNMG

60° Triangular Negative (M class)

	TNMG	Grade								Dimensions (mm)							
		F1	Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.			
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					CX10	CX50	
Cat. No.																	
TNMG 160404-F1									○		●		9.525	4.76	0.4	3.81	
TNMG 160408-F1									○		●		9.525	4.76	0.8	3.81	

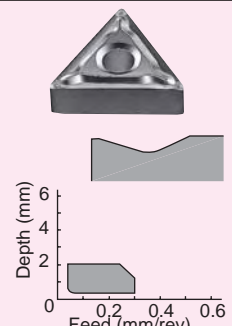
○ Will not be available after current stock exhausted.

ISO Turning Inserts

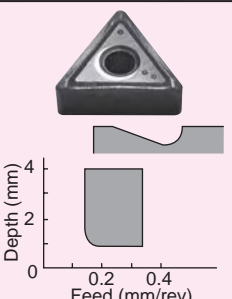
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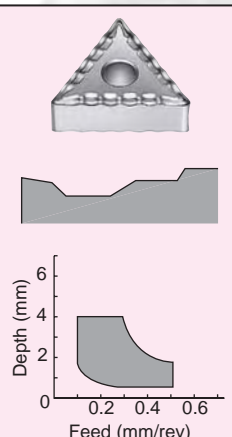
TNMG

60° Triangular Negative (M class)

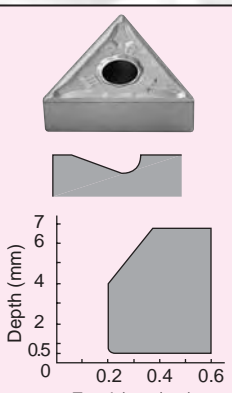
	TNMG UA Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
TNMG 160404-UA		●	●	●				○			●	9.525	4.76	0.4	3.81
TNMG 160408-UA		●	●	●							●	9.525	4.76	0.8	3.81
TNMG 160412-UA		●	●	●								9.525	4.76	1.2	3.81

○ Will not be available after current stock exhausted.

	TNMG SF Cat. No.	Grade								Dimensions (mm)							
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.		
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC8015	LN10	NIT	NAT					CX50	
TNMG 160404-SF								●	●					9.525	4.76	0.4	3.81
TNMG 160408-SF								●	●					9.525	4.76	0.8	3.81

	TNMG UR Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	PX90	CX50				
TNMG 160404-UR		●	●	●	●					●	●	9.525	4.76	0.4	3.81
TNMG 160408-UR		●	●	●	●					●	●	9.525	4.76	0.8	3.81
TNMG 160412-UR		○	●	●	●							9.525	4.76	1.2	3.81
TNMG 220404-UR												12.70	4.76	0.4	5.16
TNMG 220408-UR		●	●	●	●							12.70	4.76	0.8	5.16
TNMG 220412-UR		●	●									12.70	4.76	1.2	5.16
TNMG 220416-UR												12.70	4.76	1.6	5.16

○ Will not be available after current stock exhausted.

	TNMG PG Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
TNMG 160404-PG		●	●	●	●	●						9.525	4.76	0.4	3.81
TNMG 160408-PG		●	●	●	●	●						9.525	4.76	0.8	3.81
TNMG 160412-PG		●	●	●	●	●						9.525	4.76	1.2	3.81
TNMG 220408-PG		●	●	●	●	●						12.70	4.76	0.8	5.16
TNMG 220412-PG		●	●	●	●	●						12.70	4.76	1.2	5.16

ISO Turning Inserts

" ISO Turning Inserts "

TNMG

60° Triangular Negative (M class)

	TNMG		Grade								Dimensions (mm)					
	UB		Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.		
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
TNMG 160404-UB	●	●											9.525	4.76	0.4	3.81
TNMG 160408-UB	●	●	○									●	9.525	4.76	0.8	3.81
TNMG 160412-UB	●	●	○									●	9.525	4.76	1.2	3.81
TNMG 220408-UB	●	●											12.70	4.76	0.8	5.16
TNMG 220412-UB	●	●	○										12.70	4.76	1.2	5.16

○ Will not be available after current stock exhausted.

	TNMG		Grade								Dimensions (mm)						
	SG		Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.			
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC8015	LN10					NIT	CX10	CX50
TNMG 160404L-SG								●	●					9.525	4.76	0.4	3.81
TNMG 160404R-SG								●	●					9.525	4.76	0.4	3.81
TNMG 160408L-SG								●	●					9.525	4.76	0.8	3.81
TNMG 160408R-SG								●	●					9.525	4.76	0.8	3.81

	TNMG		Grade								Dimensions (mm)						
	UD		Coated					Cermet			Inscribed Circle	Thickness	Nose Radius	Hole Dia.			
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50	
TNMG 160404-UD														9.525	4.76	0.4	3.81
TNMG 160408-UD	●	●	●	●	●									9.525	4.76	0.8	3.81
TNMG 160412-UD	●	●	●	●	●									9.525	4.76	1.2	3.81
TNMG 160416-UD					●									9.525	4.76	1.6	3.81
TNMG 220408-UD	●	●	●	●	●									12.70	4.76	0.8	5.16
TNMG 220412-UD	●	●	●	●	●									12.70	4.76	1.2	5.16
TNMG 220416-UD														12.70	4.76	1.6	5.16



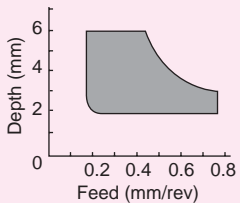
	TNMG		Grade								Dimensions (mm)						
	GNP		Coated					Cermet			I. C.	Thickness	Nose Radius	Hole Dia.			
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC8015	LN10					NIT	CX10	CX50
TNMG 160404L-GNP					●									9.525	4.76	0.4	3.81
TNMG 160404R-GNP					●									9.525	4.76	0.4	3.81
TNMG 160408L-GNP					●									9.525	4.76	0.8	3.81
TNMG 160408R-GNP					●									9.525	4.76	0.8	3.81



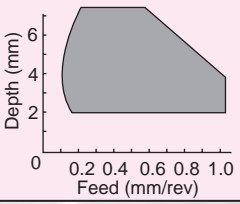
ISO Turning Inserts

“ ISO Turning Inserts ”

TNMG-TNMM

60° Triangular Negative (M class)


  	TNMG GG Cat. No.	Grade								Dimensions (mm)				
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.	
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT
TNMG 160404-GG	●	●	●	●	●						9.525	3.18	0.4	3.81
TNMG 160408-GG	●	●	●	●	●						9.525	3.18	0.8	3.81
TNMG 160412-GG	●	●	●	●	●						9.525	3.18	1.2	3.81
TNMG 220404-GG		●		●	●						12.70	4.76	0.4	5.16
TNMG 220408-GG		●	●	●	●						12.70	4.76	0.8	5.16
TNMG 220412-GG		●	●	●	●						12.70	4.76	1.2	5.16
TNMG 220416-GG		●			●						12.70	4.76	1.6	5.16
TNMG 270612-GG		●									15.875	6.35	1.2	6.35
TNMG 270616-GG		●									15.875	6.35	1.6	6.35

  	TNMM UC Cat. No.	Grade								Dimensions (mm)				
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.	
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT
TNMM 160408-UC			●	○							9.525	4.76	0.8	3.81
TNMM 160412-UC			●	○							9.525	4.76	1.2	3.81
TNMM 220408-UC			●	○							12.70	4.76	0.8	5.16
TNMM 220412-UC			●	○							12.70	4.76	1.2	5.16
TNMM 220416-UC											12.70	4.76	1.6	5.16
TNMM 270612-UC											15.875	6.35	1.2	6.35
TNMM 270616-UC											15.875	6.35	1.6	6.35

○ Will not be available after current stock exhausted.

TPMN

60° Triangular Positive 11° (M class)

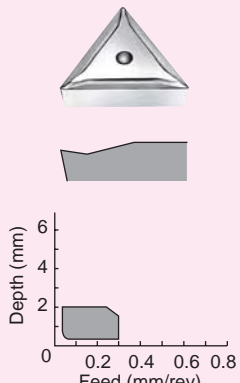
	TPMN - Cat. No.	Grade								Dimensions (mm)				
		Coated						Uncoated		I. C.	Thickness	Nose Radius	Hole Dia.	
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC5040	KT9					
TPMN 110304		●	●	●				●			6.35	3.18	0.4	-
TPMN 110308			●	●				●			6.35	3.18	0.8	-
TPMN 160304			●	●				●			9.525	3.18	0.4	-
TPMN 160308		●	●	●	●			●			9.525	3.18	0.8	-
TPMN 160312		○	○					●			9.525	3.18	1.2	-
TPMN 220408			●	●				●			12.70	4.76	0.8	-
TPMN 220412			●	●				●			12.70	4.76	1.2	-

○ Will not be available after current stock exhausted.

" ISO Turning Inserts "

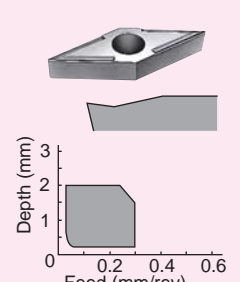
TPMR

60° Triangular Positive 11° (M class)

	TPMR FT Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
TPMR 110304-FT	●	●	●	●	●		●				6.35	3.18	0.4	-	
TPMR 110308-FT	●	●	●	●	●		●				6.35	3.18	0.8	-	
TPMR 160304-FT	●	●	●	●	●		●				9.525	3.18	0.4	-	
TPMR 160308-FT	●	●	●	●	●		●				9.525	3.18	0.8	-	
TPMR 160312-FT							●				9.525	3.18	1.2	-	

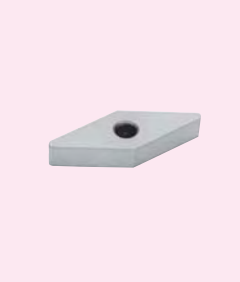
VBMT

35° Rhombic Positive 5° (M class)

	VBMT FT Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
VBMT 160404-FT	●	●									9.525	4.76	0.4	4.40	
VBMT 160408-FT	●	●									9.525	4.76	0.8	4.40	

VNMA

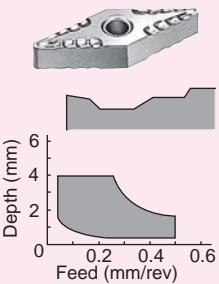
35° Rhombic Negative (M class)

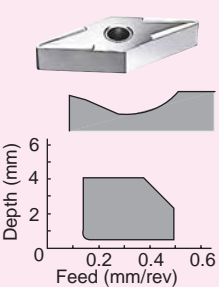
	VNMA - Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT	NAT	CX50				
VNMA 160404	●										9.525	4.76	0.4	4.40	
VNMA 160408	●										9.525	4.76	0.8	4.40	

“ ISO Turning Inserts ”

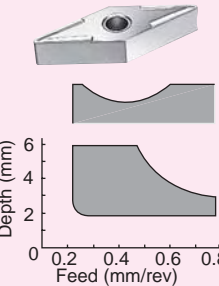
VNMG

35° Rhombic Negative (M class)

	VNMG	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	UR	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
	Cat. No.														
VNMG 160404-UR	●	●			●						●	9.525	4.76	0.4	4.40
VNMG 160408-UR	●	●	●	●							●	9.525	4.76	0.8	4.40

	VNMG	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	UT	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
	Cat. No.														
VNMG 160404-UT		●	●					○			●	9.525	4.76	0.4	4.40
VNMG 160408-UT		●	●	●				●			●	9.525	4.76	0.8	4.40

○ Will not be available after current stock exhausted.


	VNMG	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	GG	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
	Cat. No.														
VNMG 160404-GG	●	●	●	●	●							9.525	4.76	0.4	4.40
VNMG 160408-GG	●	●	●	●	●							9.525	4.76	0.8	4.40

○ Will not be available after current stock exhausted.

" ISO Turning Inserts "


■ WCMX (For Drilling)

80° Trigon Positive 7° (M class)

	WCMX	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	—	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
	Cat. No.														
	WCMX 030208			●	●							5.56	2.38	0.8	2.80
	WCMX 040208			●	●							6.35	2.38	0.8	3.10
	WCMX 050308			●	●							7.94	3.18	0.8	3.20
	WCMX 06T308			●	●							9.53	3.97	0.8	3.70
	WCMX 080412			●	●							12.70	4.76	1.2	4.30


■ WNMA

80° Trigon Negative (M class)

	WNMA	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	—	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
	Cat. No.														
	WNMA 080404	●										12.70	4.76	0.4	5.16
	WNMA 080408	●	●									12.70	4.76	0.8	5.16
	WNMA 080412	●	●									12.70	4.76	1.2	5.16

■ WNMG

80° Trigon Negative (M class)

 Depth (mm) 6 4 2 0 0.2 0.4 0.6 Feed (mm/rev) <th rowspan="2">WNMG</th> <th colspan="8">Grade</th> <th colspan="4">Dimensions (mm)</th>	WNMG	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
	UA	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50
	Cat. No.														
	WNMG 080404-UA		●	○								12.70	4.76	0.4	5.16
	WNMG 080408-UA		●	○								12.70	4.76	0.8	5.16
	WNMG 080412-UA											12.70	4.76	1.2	5.16

○ Will not be available after current stock exhausted.

“ ISO Turning Inserts ”

WNMG

80° Trigon Negative (M class)

	WNMG	Grade								Dimensions (mm)							
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.				
	SF	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC8015	LN10					NIT	NAT	CX50	
Cat. No.																	
WNMG 080404-SF								●	●					12.70	4.76	0.4	5.16
WNMG 080408-SF								●	●					12.70	4.76	0.8	5.16

	WNMG	Grade								Dimensions (mm)							
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.				
	UR	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					PX90	CX50		
Cat. No.																	
WNMG 080404-UR		●	●	●						●	○		12.70	4.76	0.4	5.16	
WNMG 080408-UR		●	●	●						●	○		12.70	4.76	0.8	5.16	
WNMG 080412-UR			●	●									12.70	4.76	1.2	5.16	

○ Will not be available after current stock exhausted.

	WNMG	Grade								Dimensions (mm)							
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.				
	PG	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50		
Cat. No.																	
WNMG 080404-PG		●	●	●	●	●							12.70	4.76	0.4	5.16	
WNMG 080408-PG		●	●	●	●	●							12.70	4.76	0.8	5.16	
WNMG 080412-PG		●	●	●	●	●							12.70	4.76	1.2	5.16	

	WNMG	Grade								Dimensions (mm)							
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.				
	UB	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50		
Cat. No.																	
WNMG 080404-UB			●	●									12.70	4.76	0.4	5.16	
WNMG 080408-UB			●	●	●						○		12.70	4.76	0.8	5.16	
WNMG 080412-UB			●	●	●						○		12.70	4.76	1.2	5.16	

○ Will not be available after current stock exhausted.

ISO Turning Inserts

" ISO Turning Inserts "

WNMG

80° Trigon Negative (M class)

	WNMG	Grade								Dimensions (mm)							
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.				
	SG	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	JC8015	LN10					NIT	NAT	CX50	
Cat. No.																	
WNMG 080404L-SG		●						●	●					12.70	4.76	0.4	5.16
WNMG 080404R-SG		●						●	●					12.70	4.76	0.4	5.16
WNMG 080408L-SG		●						●	●					12.70	4.76	0.8	5.16
WNMG 080408R-SG		●						●	●					12.70	4.76	0.8	5.16

	WNMG	Grade								Dimensions (mm)							
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.				
	UD	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50		
Cat. No.																	
WNMG 080408-UD		●	●	●	●	●								12.70	4.76	0.8	5.16
WNMG 080412-UD		●	●	●	●	●								12.70	4.76	1.2	5.16
WNMG 080416-UD					●	●								12.70	4.76	1.6	5.16

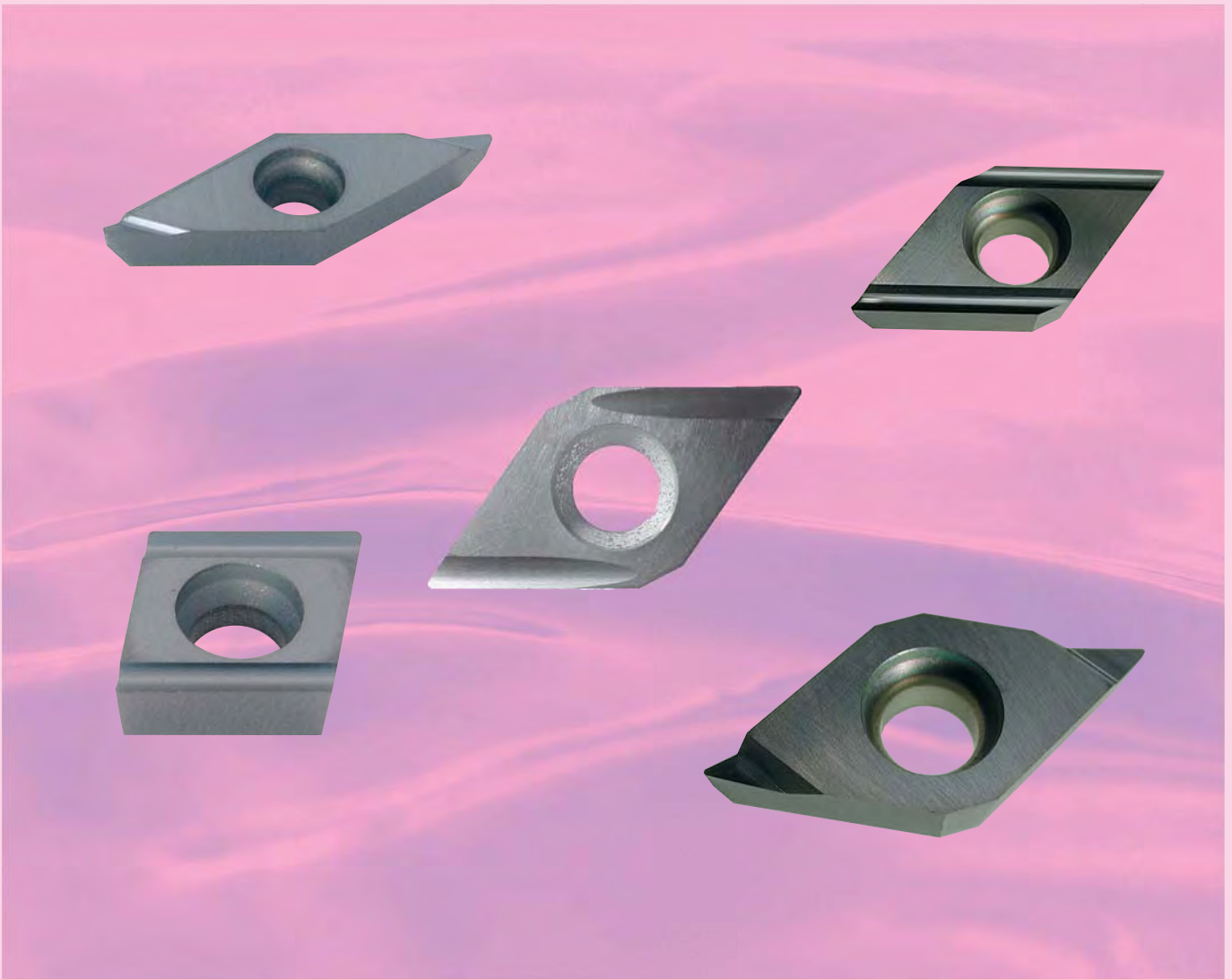
	WNMG	Grade								Dimensions (mm)							
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.				
	GG	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50		
Cat. No.																	
WNMG 080404-GG		●	●	●	●									12.70	4.76	0.4	5.16
WNMG 080408-GG		●	●	●	●	●								12.70	4.76	0.8	5.16
WNMG 080412-GG		●		●	●									12.70	4.76	1.2	5.16

WNMM

80° Trigon Negative (M class)

	WNMM	Grade								Dimensions (mm)							
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.				
	UC	JC105V	JC110V	JC215V	JC325V	JC450V	JC5015	LN10	NIT					NAT	CX50		
Cat. No.																	
WNMM 080408-UC				●	●									12.70	4.76	0.8	5.16
WNMM 080412-UC				●	●									12.70	4.76	1.2	5.16
WNMM 080416-UC														12.70	4.76	1.6	5.16

“ ISO Turning ”

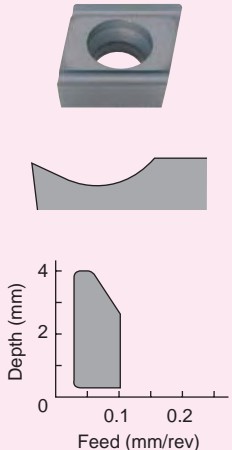


“ Small Components Inserts ”

" ISO Turning Inserts "

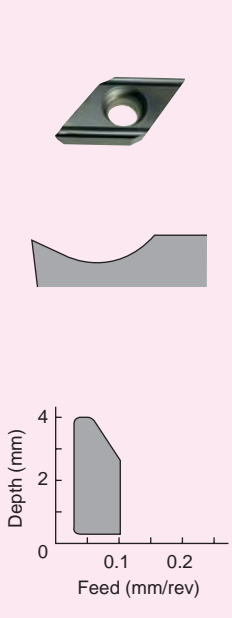
■ CCET

80° Rhombic Positive 7° (E class)

	CCET MF Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10	NIT	NAT				
CCET 060201L-MF						●	●					6.35	2.38	0.1	2.80
CCET 060201R-MF						●	●					6.35	2.38	0.1	2.80
CCET 060202L-MF						●	●					6.35	2.38	0.2	2.80
CCET 060202R-MF						●	●					6.35	2.38	0.2	2.80
CCET 09T301L-MF						●	●					9.525	3.97	0.1	4.40
CCET 09T301R-MF						●	●					9.525	3.97	0.1	4.40
CCET 09T302L-MF						●	●					9.525	3.97	0.2	4.40
CCET 09T302R-MF						●	●					9.525	3.97	0.2	4.40

■ DCET

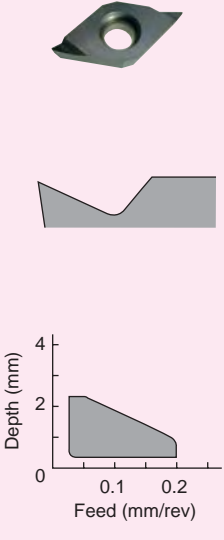
55° Rhombic Positive 7° (E class)

	DCET MF Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10	NIT	NAT				
DCET 0702005-MF						●	●					6.35	2.38	0.05	2.80
DCET 070201L-MF						●	●					6.35	2.38	0.1	2.80
DCET 070201R-MF						●	●					6.35	2.38	0.1	2.80
DCET 070202L-MF						●	●					6.35	2.38	0.2	2.80
DCET 070202R-MF						●	●					6.35	2.38	0.2	2.80
DCET 070204L-MF						●	●					6.35	2.38	0.4	2.80
DCET 070204R-MF						●	●					6.35	2.38	0.4	2.80
DCET 11T3005-MF						●	●					9.525	3.97	0.05	4.40
DCET 11T301L-MF						●	●					9.525	3.97	0.1	4.40
DCET 11T301R-MF						●	●					9.525	3.97	0.1	4.40
DCET 11T302L-MF						●	●					9.525	3.97	0.2	4.40
DCET 11T302R-MF						●	●					9.525	3.97	0.2	4.40
DCET 11T304L-MF							●					9.525	3.97	0.4	4.40
DCET 11T304R-MF							●					9.525	3.97	0.4	4.40

“ ISO Turning Inserts ”

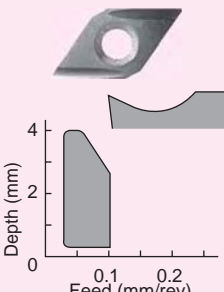
DCET

55° Rhombic Positive 7° (E class)

	DCET	Grade								Dimensions (mm)					
		MM	Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.	
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10					NIT
Cat. No.															
	DCET 0702005R-MM						●	●				6.35	2.38	0.05	2.80
	DCET 070201L-MM						●	●				6.35	2.38	0.1	2.80
	DCET 070201R-MM						●	●				6.35	2.38	0.1	2.80
	DCET 070202L-MM						●	●				6.35	2.38	0.2	2.80
	DCET 070202R-MM						●	●				6.35	2.38	0.2	2.80
	DCET 070204L-MM						●	●				6.35	2.38	0.4	2.80
	DCET 070204R-MM						●	●				6.35	2.38	0.4	2.80
	DCET 11T3005R-MM						●	●				9.525	3.97	0.05	4.40
	DCET 11T301L-MM						●	●				9.525	3.97	0.1	4.40
	DCET 11T301R-MM						●	●				9.525	3.97	0.1	4.40
	DCET 11T302L-MM						●	●				9.525	3.97	0.2	4.40
	DCET 11T302R-MM						●	●				9.525	3.97	0.2	4.40
	DCET 11T304L-MM							●				9.525	3.97	0.4	4.40
	DCET 11T304R-MM							●				9.525	3.97	0.4	4.40

DCGT

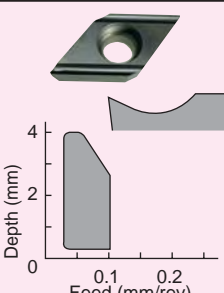
55° Rhombic Positive 7° (G class)

	DCGT	Grade								Dimensions (mm)					
		-	Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.	
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10					NIT
Cat. No.															
	DCGT 070200R								○			6.35	2.38	0	2.80
	DCGT 070201R								○			6.35	2.38	0.1	2.80
	DCGT 070202R								○			6.35	2.38	0.2	2.80

○ Will not be available after current stock exhausted.

DPET

55° Rhombic Positive 11° (E class)

	DPET	Grade								Dimensions (mm)					
		MF	Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.	
			JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10					NIT
Cat. No.															
	DPET 070201R-MF								●			6.35	2.38	0.1	2.80
	DPET 11T301R-MF								●			9.525	3.97	0.1	4.40
	DPET 11T302R-MF								●			9.525	3.97	0.2	4.40

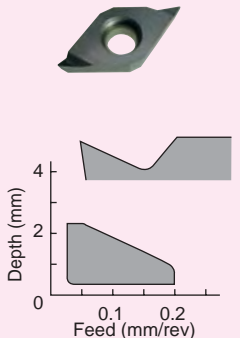
● Stock in Japan

ISO Turning Inserts

" ISO Turning Inserts "

DPET

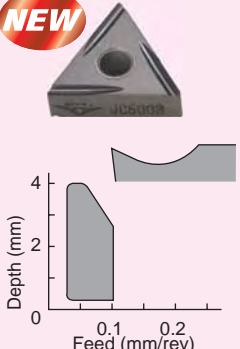
55° Rhombic Positive 11° (E class)

	DPET		Grade								Dimensions (mm)						
	MM		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.	
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10	NIT	NAT					CX50
DPET 0702005R-MM								●	●					6.35	2.38	0.05	2.80
DPET 070201R-MM								●	●					6.35	2.38	0.1	2.80
DPET 070202R-MM								●	●					6.35	2.38	0.2	2.80
DPET 11T301R-MM								●						9.525	3.97	0.1	4.40
DPET 11T302R-MM								●						9.525	3.97	0.2	4.40

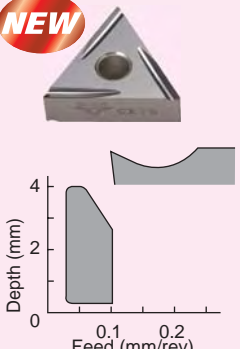
● Stock in Japan

TNEG NEW

60° Triangular Negative (E class)

	TNEG		Grade								Dimensions (mm)						
	MF		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.	
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10	NIT	NAT					CX75
TNEG 160401L-MF								●						9.525	4.672	0.1	3.81
TNEG 160401R-MF								●						9.525	4.672	0.1	3.81
TNEG 160402L-MF								●						9.525	4.672	0.2	3.81
TNEG 160402R-MF								●						9.525	4.672	0.2	3.81
TNEG 160404L-MF								●						9.525	4.672	0.4	3.81
TNEG 160404R-MF								●						9.525	4.672	0.4	3.81

● Stock in Japan

	TNEG		Grade								Dimensions (mm)						
	MF2		Coated						Cermet				I. C.	Thickness	Nose Radius	Hole Dia.	
	Cat. No.		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10	NIT	NAT					CX75
TNEG 160401L-MF2													●	9.525	4.672	0.1	3.81
TNEG 160401R-MF2													●	9.525	4.672	0.1	3.81
TNEG 160402L-MF2													●	9.525	4.672	0.2	3.81
TNEG 160402R-MF2													●	9.525	4.672	0.2	3.81
TNEG 160404L-MF2													●	9.525	4.672	0.4	3.81
TNEG 160404R-MF2													●	9.525	4.672	0.4	3.81

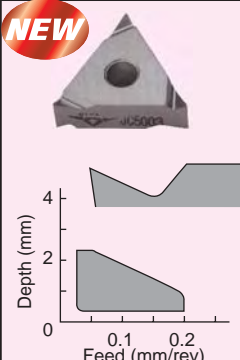
● Stock in Japan

ISO Turning Inserts

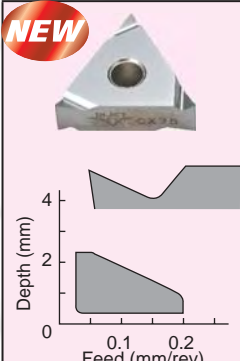
“ ISO Turning Inserts ”

TNEG NEW

60° Triangular Negative (E class)

	TNEG MM Cat. No.	Grade								Dimensions (mm)						
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.			
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10					NIT	NAT	CX75
TNEG 160401L-MM							●						9.525	4.672	0.1	3.81
TNEG 160401R-MM							●						9.525	4.672	0.1	3.81
TNEG 160402L-MM							●						9.525	4.672	0.2	3.81
TNEG 160402R-MM							●						9.525	4.672	0.2	3.81
TNEG 160404L-MM							●						9.525	4.672	0.4	3.81
TNEG 160404R-MM							●						9.525	4.672	0.4	3.81

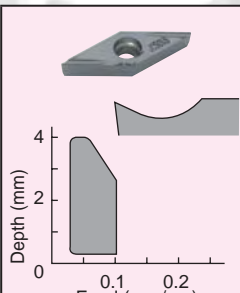
● Stock in Japan

	TNEG MM2 Cat. No.	Grade								Dimensions (mm)						
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.			
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10					NIT	NAT	CX75
TNEG 160401L-MM2												●	9.525	4.672	0.1	3.81
TNEG 160401R-MM2												●	9.525	4.672	0.1	3.81
TNEG 160402L-MM2												●	9.525	4.672	0.2	3.81
TNEG 160402R-MM2												●	9.525	4.672	0.2	3.81
TNEG 160404L-MM2												●	9.525	4.672	0.4	3.81
TNEG 160404R-MM2												●	9.525	4.672	0.4	3.81

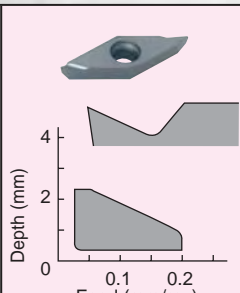
● Stock in Japan

VBET

35° Rhombic Positive 5° (E class)

	VBET MF Cat. No.	Grade								Dimensions (mm)						
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.			
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10					NIT	NAT	CX50
VBET 110301R-MF							●	●					6.35	3.18	0.1	2.80
VBET 110302R-MF							●	●					6.35	3.18	0.2	2.80

● Stock in Japan

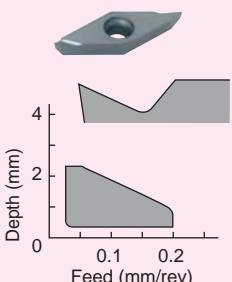
	VBET MM Cat. No.	Grade								Dimensions (mm)						
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.			
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10					NIT	NAT	CX50
VBET 110301R-MM							●	●					6.35	3.18	0.1	2.80
VBET 110302R-MM							●	●					6.35	3.18	0.2	2.80

● Stock in Japan

“ ISO Turning Inserts ”

VPET

35° Rhombic Positive 11° (E class)

 Depth (mm) Feed (mm/rev)	VPET MM Cat. No.	Grade								Dimensions (mm)					
		Coated						Cermet		I. C.	Thickness	Nose Radius	Hole Dia.		
		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC5015	LN10					NIT	NAT
VPET 080201L-MF						●	●					4.762	2.38	0.1	2.30
VPET 080201R-MF						●	●					4.762	2.38	0.1	2.30
VPET 080202L-MF						●	●					4.762	2.38	0.2	2.30
VPET 080202R-MF						●	●					4.762	2.38	0.2	2.30

● Stock in Japan

Feature for Small Components Inserts

1. Mirror surface finish and optimum chip control.
2. Inserts provide fine surface finish and longer tool life.
3. For small components machining.
4. For small CNC lathe machine

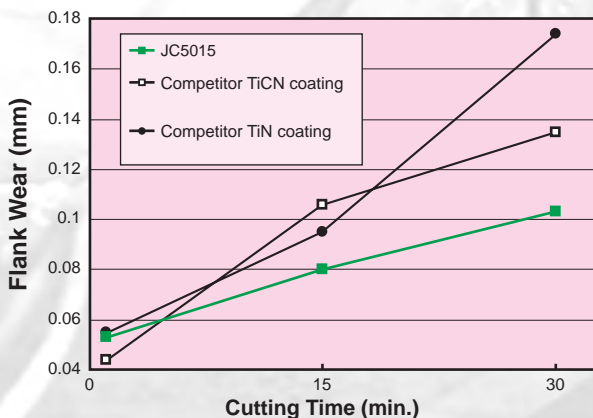


Mirror Surface finish and JC 5000 series carbide grade can improve surface finish and tool life.

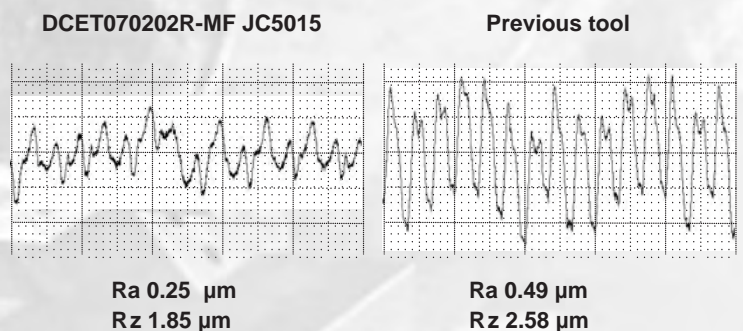
Performance

Work Material: AISI 420
 Insert: DCET070202R
 Cutting Condition: Vc=300m/min
 f=0.03mm/rev
 d=0.05mm. WET

Insert flank wear comparison



Comparison of work surface finish

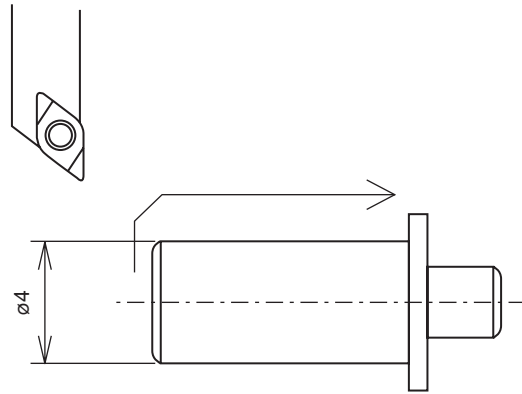


“ ISO Turning Inserts ”

■ Cutting data for small components inserts

● Motor shaft for hard disk drive

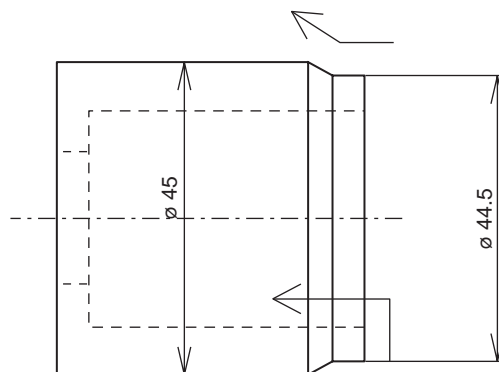
Work Material:
Stainless steel AISI 420F



	Items	Previous tool	Dijet
Tool No.	Insert	DCGT 070202	DCET 070202R-MM
	Grade	Competitor's	JC5015
Cutting Condition	Cutting speed	70m/min	70m/min
	feed rate	0.035mm/rev	0.035mm/rev
	Deep of cut	0.03~1.6mm	0.03~1.6mm
	Coolant	Oil fluid	Oil fluid
Result	Tool life No. of pcs	900/Corner	2,000/Corner

● Small part for camera

Work Material:
Stainless steel AISI 410S



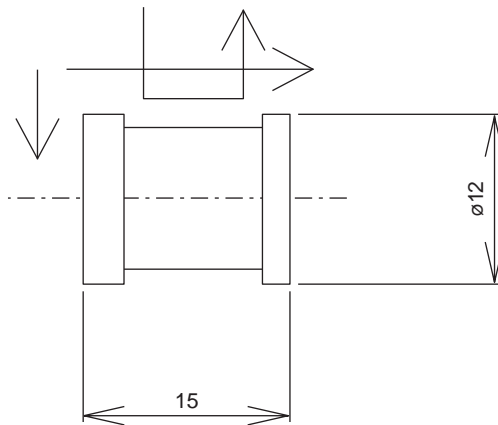
	Items	Previous tool	Dijet
Tool No.	Insert	DCMT 11T302	DCET 11T302R-MM
	Grade	Competitor's	JC 5015
Cutting Condition	Cutting speed	140m/min	140m/min
	feed rate	0.05mm/rev	0.05mm/rev
	Deep of cut	0.5~3.0mm	0.5~3.0mm
	Coolant	Oil fluid	Oil fluid
Result	Tool life No. of pcs	600/Corner	1160/Corner Excellent surface finish at Rz 2 µm.

" ISO Turning Inserts "

■ Cutting data for small components inserts

● Motor sleeve for hard disk drive

Work Material:
Stainless steel AISI 303



	Items	Previous tool	Dijet
Tool No.	Insert	DCMT 070202	DCMT 070202-FT
	Grade	Competitor's	JC110V
Cutting Condition	Cutting speed	150m/min	150m/min
	feed rate	0.1mm/rev	0.1mm/rev
	Deep of cut	0.4mm	0.4mm
	Coolant	Oil fluid	Oil fluid
Result	Tool life No. of pcs	2,000/Corner	5,000/Corner

■ Recommended cutting conditions for small components inserts

Work Materials	Cutting speed Vc (m/min.)			
	JC5015	JC5003	JC110V	CX75
Stainless steel Austenitic (AISI 303, 304 etc.)	~150	~180	~200	~250
Stainless steel Ferritics/Martensitic (AISI 420J2, 430etc.)	~200	~250	~250	~300
Low alloy steel Free machining steel	~180	~200	~300	~350

" Technical Information "

■ DIJET ISO TURNING TABLE.

ISO Table	P Steel					M Stainless steel				K Cast Iron			
	P01	P10	P20	P30	P40	M10	M20	M30	M40	K01	K10	K20	K30
Coated	JC110V					JC5003				JC105V			
	JC215V					JC110V				JC110V			
				JC325V		JC5015							
				JC450V		JC8015		JC215V					
										JC215V			
Cermet	LN10					LN10				LN10			
	CX50					CX50							
				CX75									

Grade colour correspond at box colour

■ Grade Selection Guide

		JC105V	JC110V	JC215V	JC325V	JC450V	JC5003	JC8015 JC5015
Carbon steel Alloy steel	Finishing		☺					
	Light cutting		☺	☺	☹			
	Medium cutting		☹	☺	☺	☹		
	Roughing to heavy		☹	☹	☺	☺		
Stainless steel	Finishing						☺	
	Light cutting		☺				☹	☺
	Medium cutting		☹	☹				☺
	Roughing			☹				
Cast iron	Finishing	☺	☹					
	Medium cutting	☹	☺	☹				
	Roughing			☺				

☺ = Very Good ☹ = OK ☹ = Not recommended

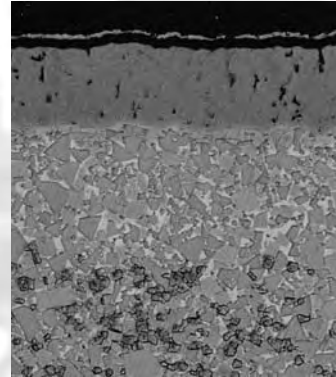
“ Technical Information ”

■ DIJET TURNING Coated Grade.

General description

Dijet coated inserts for turning (**JC coated V series**) CVD produced by multi-thick layers (12 ÷ 15 µm) coating on the surface of special substrate are remarkably improved of tool life.

The series cover wide range of application from light cutting to heavy duty cutting in high speed or high feed application by combination with the optimum chip-breakers.



Excellent wear-resistance and chipping-resistance

The new developed sub strate improves fracture resistance.

Microstructure of JC 215V

■ Features & Application

ISO Scale		Grade	Cutting Speed (m/min)	Features
P Steel	Wear resistant	JC110V	200~300	Excellent wear-resistance & deformation-resistance. Finishing to medium cutting for steel & cast iron.
	Fracture resistance	JC215V	150~250	Well balanced for wear-resistance & fracture-resistance. General steel grade for light to medium cutting.
		JC325V	100~200	Excellent fracture-resistance. Medium to heavy roughing and interrupted cutting for steel.
		JC450V	100~200	Toughest grade. Heavy roughing & interrupted cutting for steel.
M Stainless steel	Wear resistant	JC5003	100~180	Excellent wear-resistance & edge notching. Finishing for stainless steel.
	Fracture resistance	JC110V	100~200	Excellent wear-resistance & deformation-resistance. Finishing in high speed cutting for stainless steel.
		JC5015/8015	80~150	Excellent edge notching resistance. Light to medium cutting for stainless steel.
K Cast iron	Wear resistant	JC105V	150~300	Best wear-resistance grade. Finishing to medium cutting of general cast iron or ductile cast iron. Medium to high speed cutting.
	Fracture resistance	JC110V	150~300	Excellent wear-resistance grade. Light to medium cutting for gray & ductile cast iron.
		JC215V	100~250	Well balanced for wear-resistance & fracture-resistance. Medium to roughing for cast iron & ductile cast iron.

■ Application range

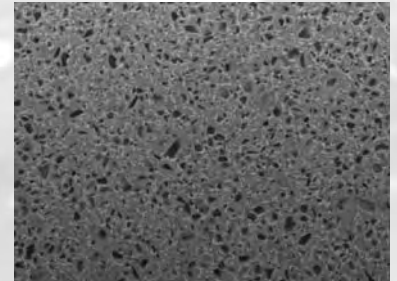
ISO Code	P Steel					M Stainless steel				K Cast Iron			
	P01	P10	P20	P30	P40	M10	M20	M30	M40	K01	K10	K20	K30
Grade	JC110V					JC5003				JC105V			
	JC215V						JC8015			JC110V			
		JC325V					JC5015					JC215V	
			JC450V					JC215V					

“ Technical Information ”

■ DIJET CERMET Grades.

General description

The main ingredients of cermet are TiC (titanium carbide) TiN (titanium nitride) and TiCN (titanium carbo-nitride). In comparison with WC (tungsten carbide) whose main ingredient are sintered carbide alloy, those carbide composites show strength and anti-oxidization under high temperature and also hard to react upon steel materials therefore, excellent surface finish can be obtained. These characteristics of cermet make it possible for high speed and high efficient cutting application. Dijet newly added CX-series for general purpose application to the conventional series to comply with every cutting conditions.



Micro structure of CX90

■ Features & Application

Applications	Grade	Cutting Speed (m/min)	Features
Turning	LN10	250~350	Less binding materials for higher wear-resistance. High speed cutting for steel. Finishing for cast iron.
	CX50	200~300	Surface-hardened type cermet. Wear-resistance and deform-resistance in high speed cutting. High speed cutting for general steel.
	CX75	150~250	High nitrogen content and fine uniform shard structure. Excellent for chipping-resistance & wear-resistance. General purpose for steel.
Milling	CX75	180~230	High nitrogen content and fine uniform shard structure. Excellent for chipping-resistance & wear-resistance. Medium & high speed Milling for steel & alloy.
	CX90	150~200	High nitrogen content and fine uniform shard structure. Excellent for chipping-resistance & wear-resistance. General milling application for steel & alloy steel.
	CX99	100~180	Tougher cermet grade having impact resistance by improving binder materials and microstructure. Roughing application for steel milling.

Note: Above data for recommended cutting speed is relevant for machining normal steels.

■ Application Range

ISO Scale	P Steel					M Stainless steel				K Cast iron			
	P01	P10	P20	P30	P40	M10	M20	M30	M40	K01	K10	K20	K30
Turning	LN10					LN10				LN10			
		CX50					CX75						
			CX75										
Milling		CX75				CX75						CX75	
			CX90										
				CX99				CX99					

■ Grade Selection Guide

		Turning			Milling		
		LN10	CX50	CX75	CX75	CX90	CX99
Carbon steel Alloy steel	Finishing	☺	☺		☺		
	Light cutting	☺	☺	☺	☺	☺	
	Medium cutting		☺	☺	☺	☺	☺
	Roughing to heavy			☺			☺
Stainless steel	Finishing	☺		☺	☺		
	Light cutting			☺	☺		☺
	Medium cutting						☺
Cast iron	Finishing	☺		☺			
	Medium cutting	☺		☺	☺		
	Roughing						

☺ = Very Good ☺ = OK ☺ = Not recommended

“ Technical Information ”

■ Grade Comparison. (Milling and Turning Grade)

ISO Code	Dijet	Mitsubishi	Toshiba	Sumitomo	Kyocera	Hitachi	Sandvik	Kennametal	Iscar	Seco	Stellram	Walter			
P	P 01	JC 110V JC 5003	UE 6005	T 9005 TD 905 T 7005	AC 700G	CR 7015 PR 915	GM 8015 CY 15 CY 10H	GC 4015	KC 910	IC 520 N	TP 05 TX 100	MP 37 NL 25	WAK 10 WAK 15		
		JC 110V JC 215V JC 5010	UE 6005 UE 6010 UE 6010 UC 6020	TD 9015 TD 905 TD 915 T 715X	AC 700G AC 2000	CR 7015 PR 915 PR 930	CY 15 CY 25 GM 8015 GM 8020	GC 4015 GC 1025 GC 3115	KC 9010 KC 9110 KC 990 KC 994M KC 5010	IC 520 N IC 9015	TP 15 TP 100 CP 200	MP 37 NL 25 PFZ	WAP 10 WAP 25		
	P20	JC 110V JC 215V JC 730U JC 5015 JC 5025 JC 5030	UC 6010 UE 6010 UE 6020 VP 15TF VP 20MF VP 30RT UP 20M F 7030	TD 9015 TD 9025 TD 915 TD 920 TD 7020	AC 2000 AC 230	CA 5025 CR 9025 PR 930 PR 730	GM 8020 GM 20 CY 9020 GM 25 CY 150	GC 4025 LC 25 GC 4020	KC 9125 KC 9025 KC 810 KC 935 KC 8050 KC 725M	IC 520 N IC 9015 IC 908 IC 950	TP 200 T 250M T 25 M T 20M	MP 37 NL 25 PFZ SFZ NL 30 MP 15	WAP 20 WAP 25 WQM 15		
		P30	JC 215V JC 325V JC 5015 JC 5025 JC 5030	UE 6035 US 735 VP 15TF VP 20MF UP 20M	T 9025 TD 9035 TD 930 T 725X AH 120 GH 330	AC 3000 ACZ 330	CA 5025 CR 9025 PR 660	GM 8035 GM 25 CY 250 HC 844 CY 9020	GC 2135 GC 4025 GC 4035 GC 4030 GC 4040	KC 935 KC 850 KC 732 KC 9040 KC 5025 KC 792M	IC 9025 IC 4050 IC 908 IC 950	TP 200 T 250M T 25M F 30M CP 300	MP 26 MP 15 NL 30 X 44 PFZ MP 91M	WAP 30 WAP 35 WQM 35 WTP 35	
			P40	JC 5040 JC 325V JC 450 V	UE 6035 US 735	T 9035 TD 930 AH 120	AC 3000 AC 304 ACZ 330 ACZ 350	PR 660 PR 730	GX 30 CY 250 HC 844	GC 1020 GC 1120 GC 2145 GC 4040 GC 235	KC 250 KC 720 KC 792M KC 9045	IC 3028 IC 328	TP 40 TP 300 T 60M T 25M	NL 92 X 44 PFZ MP 91M	WAP 30 WAP 35 WTP 35
M10	JC 110V			UE 6010 US 7020	TD 915 T 715X	EH 10Z EH 510Z	CA 6015 PR 915	GM 25 GM 8015	GC 2015 GC 1025	KC 732 KC 5010 KC 9010	IC 907	TP 100 CP 200	MP 37 NL 25	WAM 10 WAP25	
M	M20		JC 215V JC 730U JC 5015 JC 5030	US 7020 UE 6020 VP 15TF VP 20MF UP 20M	T 6020 T 725X GH 330 AH 330	EH 20Z EH 520Z ACZ 330	CA 6015 PR 930 PR 730 PR 660	GM 8035 GM 20 GM 25	GC 2015 GC 2025 GC 4125 GC 1025	KC 935 KC 9225 KC 9025 KC 9125 KC 792M KC 994M	IC 520 M IC 908 IC 928	TP 200 T 250M T 25M F 20M F 30M	MP 37 MP26 NL 25 X 44 X 22	WAM 20 WAM 10 WAP 25 WTP 35	
		M30	JC 215V JC 325V JC 5015 JC 5040	US 735 UE 6035 VP 15TF VP 20MF UP 20M	T 6030 AH 120	AC 304	PR 660	GF 30 GM 8035 GX 30 CY 9020	GC 1020 GC 1120 GC 2035 GC 2040	KC 850 KC 9240 KC 9040 KC 725M	IC 520 M IC 3028 IC 908	TP 300 T 250M T 25M F 40M	MP 15 NL 92 X 44 MP 91M X 22	WAM 30 WQM 35 WTP 35 WAP 30	
			M40	JC 325V JC 450 V	US 735		AC 3000 ACZ 330		GX 30	GC 2145	KC 9245 KC 9045	IC 3028	TP 40 TP 300	NL 92 X 44 MP 91M	WQM 35 WAP30
				K01	JC 105V JC 600 JC 610 JC 5003	UC 5005 UC 5015	T 5010 AH 110	AC 300G	CA 4010 PR 510	GM 3005	GC 3005 GC 3015	KC 9315 KC 910 KC 5410	IC 9007 IC 910	TP 05 TX 100	MP 23 MP 37 PFZ
K	K10	JC 105V JC 110V JC 605 JC 610 JC 5010	UC 5015 UE 6010 VP 05RT F 5010	T 5010 T5020 AH 110 GH 110 T 1020	AC 700G EH 10Z AC 211	CA 4010 PR 610 PR 510	GM 3005 GM 8015 GM 8020 CY 100H CY 10H	GC 1005 GC 3005 GC 3015 GC 3115	KC 990 KC 950 KC 5010 KC 7310 KC 9010 KC 992M	IC 9007 IC 9015 IC 910 IC 450	TX 150 T 150M F 15M CP 200	MP 23 MP 37 NL 25 HFZ	WAK 10 WTA 13 WAK 15 WQM 15		
		K20	JC 110V JC 215V JC 600 JC 610 JC 5015	UE 6010 VP 10RT VP 15TF F 5020	T 5020 AH 120 T 1015 T 1020 AH 120	AC 700G AC 2000 EH 20Z ACZ 310	CA 4010 PR 610	GM 8020 GF 30 CY 9020	GC 1020 GC 1120 GC 3025 GC 3025 GC 4025 K 20W	KC 9120 KC 8050 KC 9325 KC 9025 KC 250 KC 620M CG4	IC 9015 IC 8048 IC 450 IC 908	TX 150 TP 200 T 150M T 250M T 25M CP 200	MP 23 MP 37 NL 25 HFZ MP 91M	WAK 10 WAP 20 WAK 15 WAP 25 WQM 15	
			K30	JC 215V JC 610	VP 15TF F 5020		AC 2000 ACZ 310		GM 25	GC 3040 GC 4125	KC 720	IC 9015 IC 4050	TP 200 T 250M	NL 30 MP 91M	WAP 30 WAP 35



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0120-39-81-39

FAX 06-6793-1230



WARNING:
Grinding produces hazardous dust.
To avoid adverse health, use adequate ventilation and
read Material Safety Data Sheet first.
Cutting tools may fragment in use.
Wear eye protection in the vicinity of their operation.

Your local stockist is:

 **TECHNO**
TRADE
VERSPANENDE GEREEDSCHAPPEN

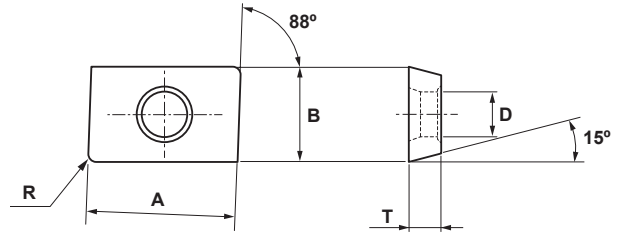
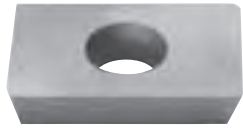
Telefoon (0475) 549 000

Telefax (0475) 549 001

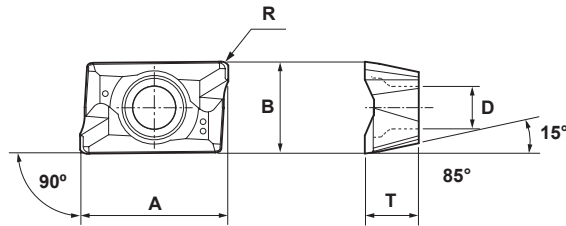
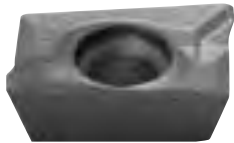
Postbus 7 6100 AA Echt

ISO Milling Inserts

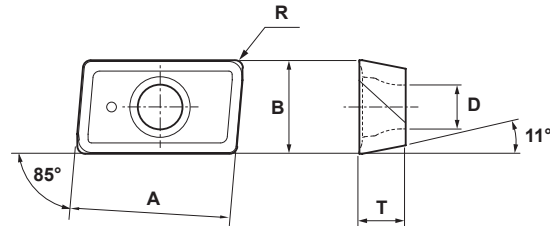
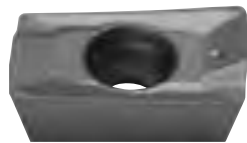
METRIC



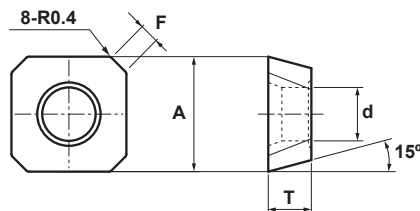
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	A	B	T	R	D	JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
ADHX150308	15	9.525	3.19	0.8	4.5		•	•	•		•			•	•
ADHT150308	15	9.525	3.18	0.8	4.5			•	•						



CATALOG NUMBER	DIMENSIONS					COATED						CERMET		UNCOATED	
	A	B	T	R	D	JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
ADKT150508PDER	15.9	9.683	5.64	0.8	4.5			•	•		•				



CATALOG NUMBER	DIMENSIONS					COATED						CERMET		UNCOATED	
	A	B	T	R	D	JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
APKT100305PDER	10.379	6.703	3.5	0.5	2.85		•	•	•		•				
APKT160408	16.463	9.542	4.76	0.8	4.5			•	•						
APKT1604PDR	16.828	9.54	5.7	0.8	4.6		•	•	•		•				

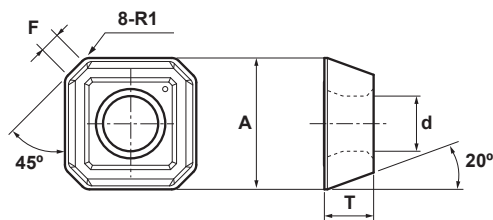


CATALOG NUMBER	DIMENSIONS				COATED						CERMET		UNCOATED	
	A	T	F	d	JC8015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
SDHW1204AFFN	12.7	4.76	2.1	5.9						•				
SDHW1204AFTN	12.7	4.76	2.1	5.9		•	•	•						

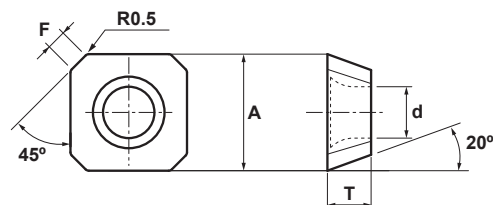
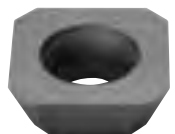
METRIC

ISO Milling Inserts

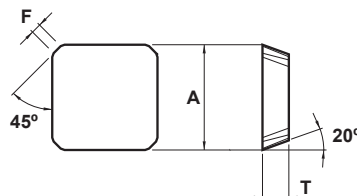
Other Face Mills



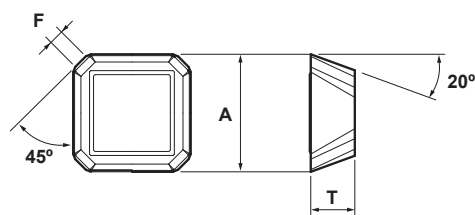
CATALOG NUMBER	DIMENSIONS				COATED						CERMET		UNCOATED	
	A	T	F	d	JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
SEHT1204AFTN	12.7	4.76	2.0	5.5			•	•		•				



CATALOG NUMBER	DIMENSIONS				COATED						CERMET		UNCOATED	
	A	T	F	d	JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
SEHW1204AFTN	12.7	4.76	2.1	5.6			•	•						



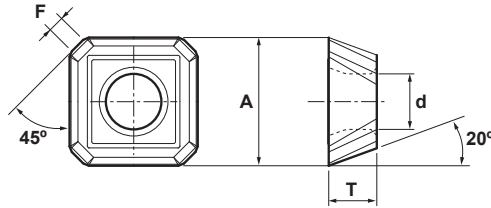
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	A	T	F		JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
SEKN1203AFFN	12.7	3.18	1.2											•
SEKN1203AFTN	12.7	3.18	1.2		•		•	•	•	•	•	■		
SEKN1203AFFN-16	12.7	3.18	1.6							■				■
SEKN1203AFTN-16	12.7	3.18	1.6				•	•			•	•		
SEKN1204AFFN	12.7	4.76	1.2							•				•
SEKN1204AFTN	12.7	4.76	1.2			•	•	•	•				■	
SEKN1504AFFN	15.875	4.76	1.5											•
SEKN1504AFTN	15.875	4.76	1.5				•	•						



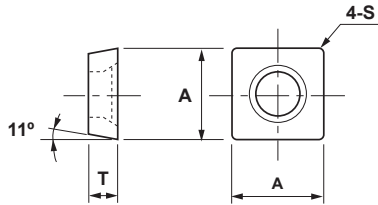
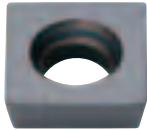
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	A	T	F		JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
SEKR1203AFTN	12.7	3.18	1.6				•	•						

ISO Milling Inserts

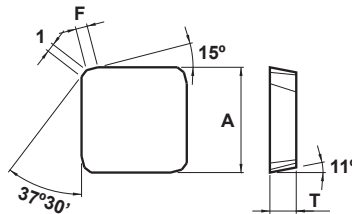
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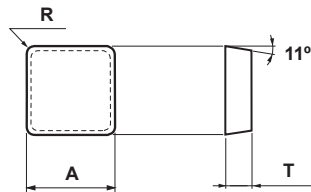
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	A	T	F	d	JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
SEKT1204AFTN	12.7	4.79	1.6	5.5			•	•						



CATALOG NUMBER	DIMENSIONS			COATED						CERMET		UNCOATED	
	A	T	R	JC8015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
SPGA090304	9.525	3.18	0.4			•	•						
SPMA090304	9.525	3.18	0.4		•								
SPMA090308	9.525	3.18	0.8		•								



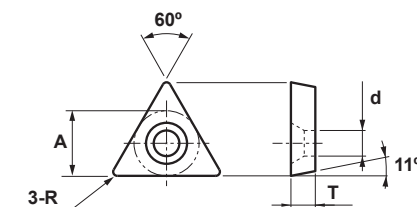
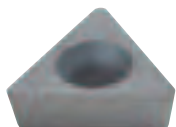
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	A	T	F	JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
SPKN1203EDFR	12.7	3.18	1.4						•				•
SPKN1203EDTR	12.7	3.18	1.4		•		•	•		•			
SPKN1504EDFR	15.875	4.76	1.6						•				
SPKN1504EDTR	15.875	4.76	1.6		•		•	•					



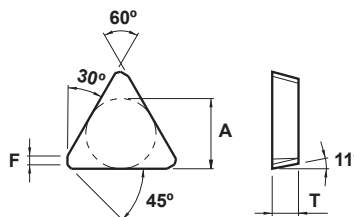
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	A	T	R	JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	UM30	KT9
SPMN120308T	12.7	3.18	0.8					•					
SPMN120312T	12.7	3.18	1.2					•					
SPMN120408T	12.7	4.76	0.8					■					
SPMN120412T	12.7	4.76	1.2					•					

METRIC

ISO Milling Inserts

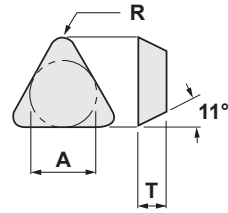
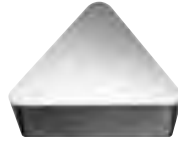


CATALOG NUMBER	DIMENSIONS				COATED						CERMET		UNCOATED
	A	T	R	d	JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	KT9
TPGW080204	4.76	2.38	0.4	2.4			•				•		•
TPGW090204	5.56	2.38	0.4	2.5			•				•		•
TPGW110204	6.35	2.38	0.4	2.8			•				•		•
TPGW110302	6.35	3.18	0.2	3.5			•				•		•
TPGW110304	6.35	3.18	0.4	3.5			•				•		•
TPGW110308	6.35	3.18	0.8	3.5			•				•		•
TPGW130302	7.94	3.18	0.2	3.5			•				•		•
TPGW130304	7.94	3.18	0.4	3.5			•				•		•
TPGW130308	7.94	3.18	0.8	3.5			•				•		•
TPGW160302	9.525	3.18	0.2	4.6			•				•		•
TPGW160304	9.525	3.18	0.4	4.6			•				•		•
TPGW160308	9.525	3.18	0.8	4.6			•				•		•

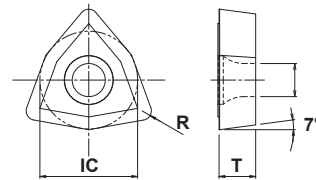
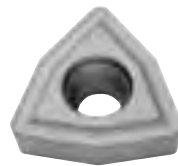


CATALOG NUMBER	DIMENSIONS			COATED						CERMET		UNCOATED	
	A	T	F	JC5015	JC3552	JC5030	JC5040	JC730U	JC610	CX90	CX75	KT9	DX30
TPKN1603PPTR	9.525	3.18	1.2	•	•	•	•						■
TPKN2204PDFR	12.70	4.76	1.6						•			•	
TPKN2204PDTR	12.70	4.76	1.6	•	•	•	•	•		•			•

ISO Milling Inserts

METRIC


CATALOG NUMBER	DIMENSIONS				COATED						CERMET		UNCOATED	
	A	T	R		JC5015	JC5025	JC5030	JC5040	JC730U	JC610	CX90	CX75	DX30	KT9
TPMN160308T	9.525	3.18	0.8				•	•	•					
TPMN160312T	9.525	3.18	1.2				•	•	•				•	
TPMN220408T	12.7	4.76	0.8				•	•						
TPMN220412T	12.7	4.76	1.2				•	•	•				•	

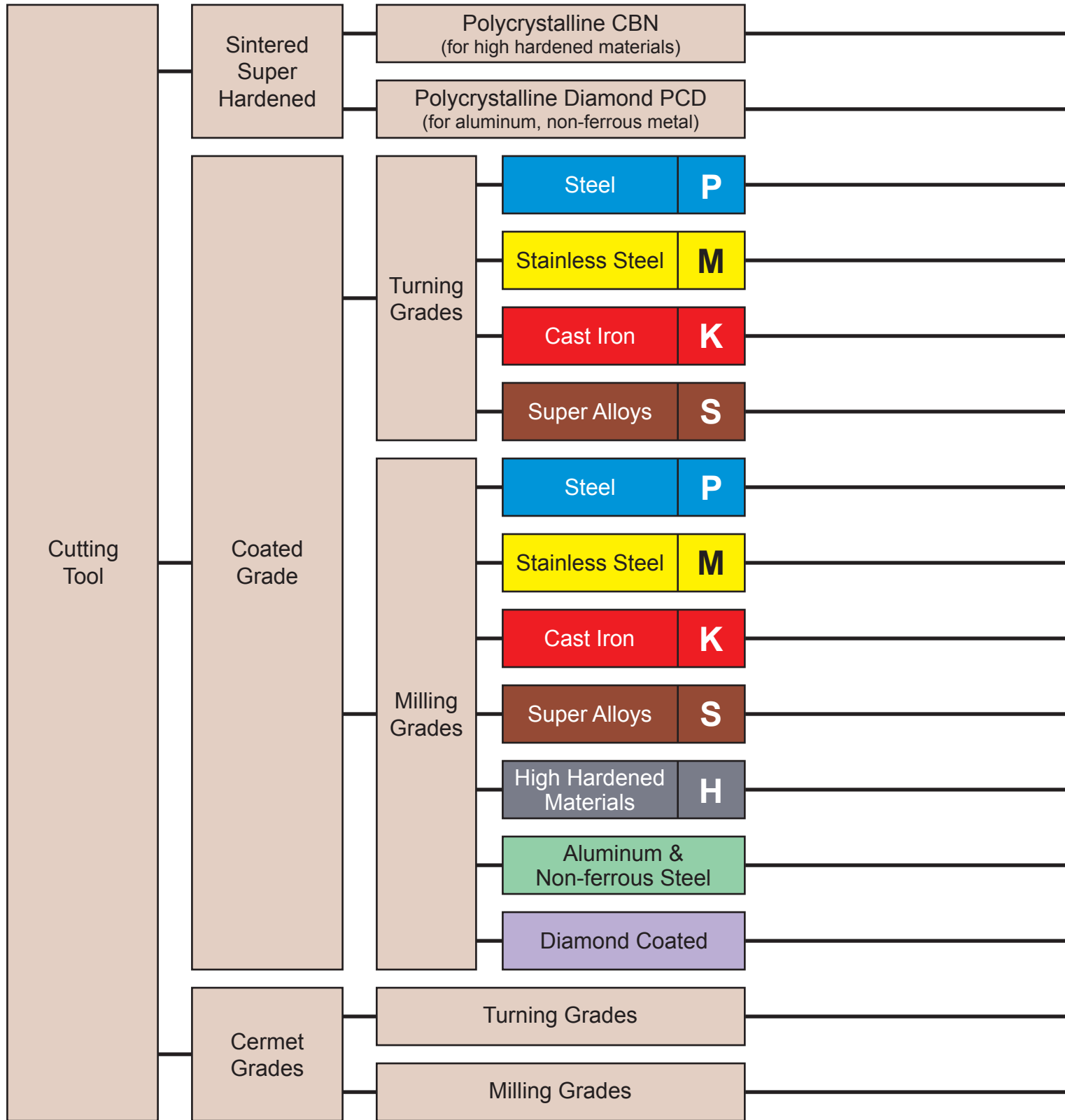

(For Drilling)

CATALOG NUMBER	DIMENSIONS				COATED				CERMET		UNCOATED	
	IC	T	R	Hole	JC215V	JC325V	JC730U	JC610	CX90	CX75	UM30	KT9
WCMX030208	5.56	2.38	0.8	2.8	•	•						
WCMX040208	6.35	2.38	0.8	3.1	•	•						
WCMX050308	7.94	3.18	0.8	3.2	•	•						
WCMX06T308	9.53	3.18	0.8	3.7	•	•						
WCMX080412	12.7	4.76	1.2	4.3	•	•						

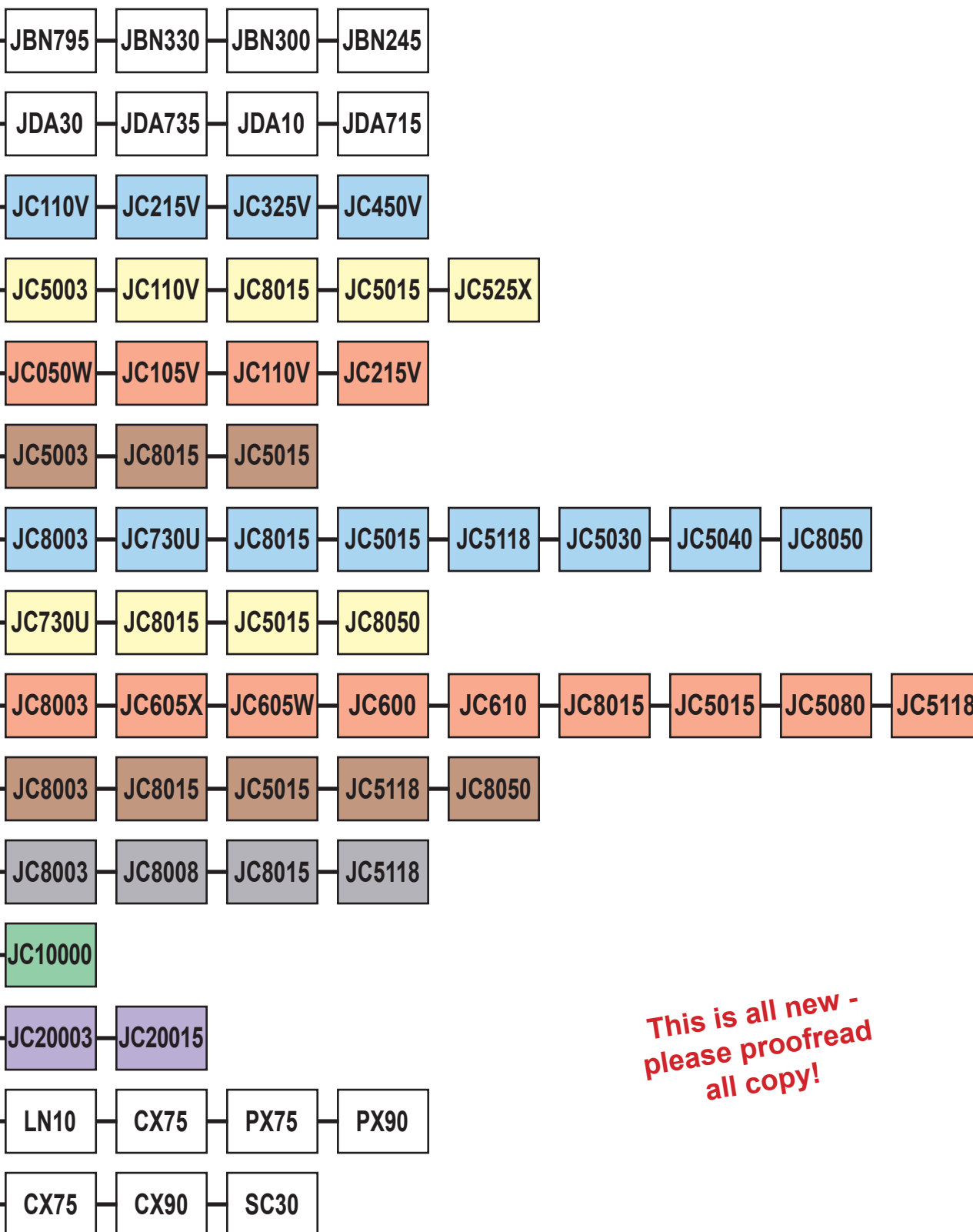
DIJET CARBIDE TOOLS

Carbide Grades

Dijet Grades for Cutting Tools



Dijet Grades for Cutting Tools



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Dijet Grades for Cutting Tools

ISO	P Steel					M Stainless Steel				K Cast Iron			
	P01	P10	P20	P30	P40	M10	M20	M30	M40	K01	K10	K20	K30
Coated	JC8003					JC730U				JC8003			
		JC730U					JC8015			JC600			
		JC8015					JC5015			JC605X JC605W			
		JC5015					JC5118			JC610			
		JC5030					JC8050			JC8015			
		JC5040								JC5015			
		JC5118								JC5080			
Cermet		CX75				CX75				CX75			
		CX90				SC30							
		SC30											

ISO	S Super Alloy Titanium Alloy				H High Hardened Materials			For Finishing of Steel & Cast Iron		Aluminum • Copper Alloy • Non-ferrous Materials	
	S01	S10	S20	S30	H01	H10	H20				
Coated	JC5003						JC5118	CBN	JBN245		JDA30
		JC5118			JC8003						JDA735
		JC8015			JC8008			Coated	JC5003		JDA10
		JC5015			JC8015				JC5015		JDA715
		JC8050									

Carbide Grades

Milling Coated Grades

Dijet coated milling inserts (DZ coated JC5000 series) are PVD coated on special substrates with excellent wear and chip-resistance giving stable cutting performance even in interrupted machining. Milling inserts (DV coated JC8000 series) are PVD special coating with stable & high-performance on high hardened materials even in high speed dry conditions due to higher hardness & oxidation resistance. This series covers a wide range of applications for milling inserts, drills, and end mills.



Microstructure of JC8008

Features & Application

ISO Scale	Grade	Cutting Speed (m/min)	Features
P Steel <div style="text-align: center;"> </div>	JC8003	200 ~ 300	Extremely excellent wear-resistance. For high speed cutting and high hardened steel up to 65 HRC.
	JC730U	150 ~ 250	CVD coated grade having excellent wear-resistance & thermal crack-resistance. For general steel & stainless steel.
	JC8015	100 ~ 200	Adopted tougher sub-micro grain carbide base material. For general steel, hardened steel and stainless steel.
	JC5015	100 ~ 200	Adopted tougher sub-micro grain carbide base material. Extremely suitable for wet cutting on steel and stainless steel.
	JC5118	100 ~ 200	Adopted tougher sub-micro grain carbide base material. For a wide range of materials from roughing to semi-finishing and HSC.
	JC5030	100 ~ 200	Adopted P-group substrate having good heat-resistance. For general steel and die & mold steel.
	JC5040	100 ~ 200	Adopted M-group substrate having good crack-resistance. For general steel and die & mold steel.
	JC8050	100 ~ 200	Adopted tougher base material, excellent crack & thermal resistance. For interrupted cutting on steel, stainless steel, super alloys.
M Stainless Steel <div style="text-align: center;"> </div>	JC730U	120 ~ 220	CVD coated grade having excellent wear-resistance and thermal crack-resistance. For general steel & stainless steel.
	JC8015	100 ~ 200	Adopted tougher sub-micro grain carbide base material. For general steel, hardened steel and stainless steel.
	JC5015	100 ~ 200	Adopted tougher sub-micro grain carbide base material. Extremely suitable for wet cutting on steel and stainless steel.
	JC5118	100 ~ 200	Adopted tougher sub-micro grain carbide base material. For a wide range of materials from roughing to semi-finishing and HSC.
	JC8050	100 ~ 200	Adopted tougher base material, excellent crack & thermal resistance. For interrupted cutting on steel, stainless steel, super alloys.
K Cast Iron <div style="text-align: center;"> </div>	JC8003	200 ~ 300	Extremely excellent wear-resistance. For high speed cutting and high hardened steel and cast iron.
	JC605X JC605W	150 ~ 250	Improved wear and thermal resistance. For cast iron at high speed milling.
	JC600	150 ~ 250	CVD coated grade having excellent wear-resistance. For gray cast iron & ductile cast iron at high speed cutting.
	JC610	120 ~ 220	CVD coated grade having excellent wear-resistance & crack-resistance. General grade for gray cast iron & ductile iron.
	JC5015	100 ~ 200	Adopted tougher sub-micro grain carbide base material. Multi-purpose grade for hardened steel, stainless steel & cast iron.
	JC5080	100 ~ 200	Adopted substrate with improved fracture resistance. For cast iron at high feed machining.
	JC5118	100 ~ 200	Adopted tougher sub-micro grain carbide base material. For a wide range of materials from roughing to semi-finishing and HSC.
S Superalloy Titanium Alloy <div style="text-align: center;"> </div>	JC8003	30 ~ 40	Extremely excellent wear-resistance. For high speed cutting and high hardened steels.
	JC8015	30 ~ 40	PVD coated grade having excellent wear-resistance. Finishing to light cutting for superalloy or titanium alloy.
	JC5015	20 ~ 30	Adopted tougher sub-micro grain carbide base material. Light to medium cutting for superalloy or titanium alloy.
	JC5118	20 ~ 30	Adopted tougher sub-micro grain carbide base material. For a wide range of materials from roughing to semi-finishing and HSC.
	JC8050	20 ~ 50	Adopted New PVD coated grade with tough base material. For interrupted cutting for superalloy and stainless steel.
H High Hardened Materials <div style="text-align: center;"> </div>	JC8003	70 ~ 120	PVD coated grade having excellent wear-resistance. Finishing to light cutting high hardened steels.
	JC8008	60 ~ 110	Adopted New PVD coated grade. Extremely wear-resistant. For high hardened steels.
	JC8015	50 ~ 100	PVD coated grade having excellent wear-resistance. For general steel, hardened steel and stainless steel.
	JC5118	50 ~ 100	Adopted tougher sub-micro grain carbide base material. For a wide range of materials from roughing to semi-finishing and HSC.

Carbide Grades

Grade Selection Guide for Milling

Material	JC5003	JC730U	JC5015	JC5030	JC5040	JC5080
Carbon Steel / Alloy Steel	○	⊙	○	⊙	⊙	
Die Steel	○		○	⊙	⊙	
Hardened Steel	○		○		○	
Stainless Steel	○	○	⊙			
Gray Cast Iron	○		○			⊙
Ductile Cast Iron	○		○			⊙
Superalloy / Titanium Alloy	○		○			
High Hardened Steel & Cast Iron	○		○			

⊙ = First Choice ○ = Second Choice

Material	JC600	JC605X JC605W	JC610	JC8003	JC8008	JC8015	JC8050	JC5118
Carbon Steel / Alloy Steel				○	○	○	○	○
Die Steel				○	⊙	○	○	○
Hardened Steel				○	⊙	⊙	○	⊙
Stainless Steel						⊙	⊙	⊙
Gray Cast Iron	⊙	⊙	⊙			○		○
Ductile Cast Iron	⊙	⊙	⊙			○		○
Superalloy / Titanium Alloy						⊙	⊙	⊙
High Hardened Steel & Cast Iron				⊙	⊙	○		○

⊙ = First Choice ○ = Second Choice

Carbide Grades

Cermet Grades

General Description

The main ingredients of cermet are TiC (titanium carbide), TiN (titanium nitride) and TiCN (titanium carbo-nitride). In comparison with WC (tungsten carbide) whose main ingredients are sintered carbide alloy, the cermet composites show strength and anti-oxidization under high temperature and resists build up on steel materials, therefore, an excellent surface finish can be obtained. These characteristics of cermet make it possible for high speed and high efficient cutting applications. The newer added CX series is for general purpose applications.



Microstructure of SC30

Features & Application

Uncoated Grades

Application	Grade	Cutting Speed (m/min)	Features
Turning	LN10	250 ~ 350	Less binding materials for higher wear-resistance. High speed cutting for steel. Finishing for cast iron.
	CX75	150 ~ 250	High nitrogen content & fine uniform hard structure. Excellent chip-resistance & wear-resistance. General purpose for steel.
Milling	CX75	180 ~ 230	High nitrogen content & fine uniform hard structure. Excellent chip-resistance & wear-resistance. Medium & high speed cutting for steel & alloy steel.
	CX90	150 ~ 200	High nitrogen content & fine uniform hard structure. Excellent chip-resistance & wear-resistance. General milling applications for steel & alloy steel.
	SC30	100 ~ 180	Tougher cermet grade having impact resistance by improving binder materials and microstructure. Roughing applications for steel milling.

Notes: Above data for recommended cutting speed is relevant for machining normal steels.

Coated Grades

Application	Grade	Cutting Speed (m/min)	Features
Turning	PX75	170 ~ 270	Adopted PVD coated grade with good heat-resistance on a base material having good wear-resistance. For high speed turning for carbon steel.
	PX90	170 ~ 220	Adopted PVD coated grade with good heat-resistance on a base material having good crack-resistance. For general turning for carbon steel.

Notes: Above data for recommended cutting speed is relevant for machining normal steels.

Grade Selection Guide

Material	Type of Cutting	Turning				Milling		
		LN10	CX75	PX75	PX90	CX75	CX90	SC30
Carbon Steel Alloy Steel	Finishing	◎		○		○		
	Light Cutting	○	◎	◎	○	◎	○	
	Medium Cutting		◎	◎	◎	○	◎	◎
	Roughing to Heavy		○	○	◎			○
Stainless Steel	Finishing	◎	○	◎		◎		
	Light Cutting		◎		◎	○		◎
	Medium Cutting							○
Cast Iron	Finishing	◎	○					
	Medium Cutting	○	◎			○		
	Roughing							

◎ = First Choice

○ = Second Choice

Carbide Grades

Grade Comparison Chart

ISO Codes	DIJET	Mitsubishi	Tungaloy	Sumitomo	Hitachi	Sandvik	Kennametal	Iscar	Seco		
Milling	P	P01	JC5003			PTH08M PCA08M PCS08M					
		P10	JC730U JC5030			ACP100	JX1005 JX1020 TB6005 PCA12M	GC4220	KC515M KC715M	CP20 F20M F30M F40M	
		P20	JC8015 JC5015 JC5118	FH7020 F7030 VP15TF		ACP200	JX1015 TB6020 CY150	GC4220 GC4230	KC525M	IC250 IC4050 IC908 IC928 IC950	F20M F25M F40M T20M T25M
		P30	JC5015 JC5118 JC5040	F7030 VP15T VP30RT	T3030 GH330 H120 AH330 AH74	ACP300	JX1045 TB6045 CY250 HC844	GC4230 GC4240	KC530M KC725M	IC250 IC328 IC4050 IC908 IC928	F25M T20M T25M T60M CP50
		P40	JC5040 JC8050	VP30RT	AH120		JX1060 TB6060 GX2030 GF30	GC4240 GC1030	KC735M KC935M		T25M T60M CP50
		M	M10				PCS08M JX1020 CY9020	GC1025	KC515M		F20M F30M CP20
	M20	JC730U JC8015	F7030 VP15TF VP20RT	GH330	ACP200	JX1015 TB6020 CY150	GC1025 GC2030	KC522M KC525M	IC908 IC928	F20M F25M F30M T25M CP50	
	M30	JC8015 JC5015 JC5118	F7030 VP15TF VP20RT VP30RT	T3030 GH330 AH120	ACP300 EH20Z	JX1045 TB6045 CY250 HC844	GC2030 GC2040	KC530M KC725M	IC328 IC908 IC928	F25M T20M T25M T60M CP50	
	M40	JC8050	VP30RT	AH140		JC1060 TB6060 GX2030 GF30	GC1030	KC735M KC935M	IC328 IC925		
	K	K01	JC5003				PTH08M PCA08M PCS08M		IC910	F15M	
		K10	JC600 JC605X JC605W JC610	F5010	T1015 AH110 GH110	ACK200	JX1005 TB6005 JX1020 CY9020	GC3020	KC515M	IC418 IC910 IC950	F15M CP20 F20M
		K20	JC8015 JC5015 JC5118	F5020 VP15TF VP20RT	AH120	ACK200	JX1015 PTH13S TB6020 CY150	GC3020 GC3220	KC520M KC522M KC915M	IC4050 IC908 IC910 IC950 IC418	T150M T20M CP20
		K30	JC5015 JC5080	VP15TF VP20R		ACK300 EH20Z	JX1045 TB6045 PT30E CY250	GC3040	KC935M	IC328 IC4050 IC908 IC950	
	S	S01	JC5003								
		S10	JC8015	VP15TF	AH110	EH20Z EH520Z	PCS08M	GC1025 GC1030	KC510M KC515M		
		S20	JC5015 JC5118	VP15TF	AH120		PTH13S	GC2030	KC522M KC525M		
S30		JC8050					GC2040	KC530M KC725M			
H	H01	JC8003				PTH08M					
	H10	JC8008	VP15TF			JX1005 TB6005		KC515M			
	H20	JC8015 JC5118	VP15TF				GC4020	KC522M			

Carbide Grades

Grade Comparison Chart

ISO Codes	DIJET	Mitsubishi	Tungaloy	Sumitomo	Hitachi	Sandvik	Kennametal	Iscar	Seco		
Turning	P	P01	JC110V	UE6005	T9005	AC700G	GM8010	GC4205	KC9315	IC520N	TP05 TX100
		P10	JC110V	UE6005 UE6110	T9005	AC700G	HG8010	GC4205	KC9110	IC520N	TP15
			JC215V	UE6010 UE6020 UC6010 VP10MF	T9015 AH710	AC2000	GM8015	GC4215	KC9315 KC5010 KC5510 KU10T	IC9015	TP100 CP20
		P20	JC110V	UE6110 UE6010	T9015	AC2000	GM8020	GC4215	KC9125 KC9225	IC520N	TP100
			JC215V	UE6020 UC6010 VP15F VP20MF	T9025 AH710		HG8025	GC4225 GC4225 GC1025 GC2015	KC9325 KU10T KU25T KU30T KC5010 KC5025 KC5510 KC5525	IC9015 IC908 IC950	TP200 TP15 TP25 CP25
		P30	JC215V	UE6035	T6025	AC3000	HG8025	GC4225	KC8050	IC9025	TP200
	JC325V		UH6400 US735 VP15F VP20MF	T9035 GH730	AC630M	GM25 HG8035 GM8035	GC4235 GC1025 GC2015 GC2025	KC9040 KC9125 KC9140 KU25T KU30T KC5025 KC5525	IC4050 IC908 IC950	TP300 TP30 TP35 CP50	
	P40	JC325V	UE6035	T9035	AC3000	GX30	GC4235	KC9040 KC9140	IC3028	TP40	
		JC450V	UH6400 US735		AC630M		GC2025 GC235	KC9240 KC9245 KU30T	IC328	TP300 CP50	
	M	M10	JC5003	US7020	T9015	EH10Z	GM10	GC2015	KC5010 KC5510	IC907	TP100 TP15
			JC110V	VP10MF		EH510Z		GC1025	KU10T		CP20
		M20	JC110V	US7020	T6020	AC610M	GM8020	GC2015	KC8050 KC9225	IC520M	TP200
JC8015			VP15TF VP20MF	T9025 GH330 GH730	EH20Z EH520Z	HG8025 GM25	GC1025 GC2025	KC5010 KC5025 KC5510 KC5525 KU10T KU25T	IC908 IC928	TP300 TP15 TP200 TP25	
M30	JC5015	US735	T6030	AC630M	GM25	GC2025	KC8050	IC520M	TP300		
	JC525X	VP15TF VP20MF		AC3000 AC530U	HG8035 GM8035	GC2035 GC235	KC9240 KU25T KU30T KC5025 KC5525	IC3028 IC908	TP35 TP40 CP50		
M40	JC525X	US735		AC630M AC530U	GX30		KC9240 KC9245	IC3028	TP40		
K	K01	JC105V	UC5105	T5105	AC410K	GM3005	GC3025		IC9007	TP05	
		JC050W		T5010	AC300G				IC910	TX100	
	K10	JC105V	UC5115	T5105	AC410K	GM3005	GC3205	KC9315	IC9007	TX150	
		JC110V		T5115 T5010 T5020	EH10Z	HG3315 HG8010	GC3210	KC5010 KC5510 KU10T	IC9015 IC910 IC450	TP05 TP10 CP20	
	K20	JC110V	UC5115	T5125	AC700G	HG8010	GC3210	KC9110 KC9325	IC9015	TX150	
	JC215V	VP15TF	T5020 T5115	EH20Z AC530U	GM8015 GM8020 HG8025	GC3215	KU10T KU25T KC5010 KC5025 KC5510 KC5525	IC8048 IC450 IC908	TP200 TP15 TP25 CP20		
K30	JC215V	VP15TF	T5125		GM8020 GM8025		KC8050 KC9215 KC5025 KU30T	IC9015 IC4050	TP200 TP20 TP25 CP50		
S	S01	JC5003	VP05RT	AH1110							
	S10	JC8015	VP05RT VP10RT	AH120	EH10Z EH510Z		GC1005 GC1105	KC5010 KC5510 KU10T			
	S20	JC5015	VP10RT VP15TF		AC610M EH20Z EH520Z		GC1025	KC5025 KC5225 KU10T KU25T			

Carbide Grades

Grade Comparison Chart

ISO Codes	DIJET	Mitsubishi	Tungaloy	Sumitomo	Hitachi	Sandvik	Kennametal	Iscar	Seco		
Cermets	P	P01	LN10 AP25N	GT720 NS520 GT520	T110A T2000Z	MZ1000	CT5015	IC20N			
		P10	LN10 CX75 PX75	AP25N NX2525	GT720 GT730 NS520 AT530	T1200A T2000Z T250A	MZ1000 CH550	CT5015 GC1525	KT530M KT315	IC20N IC30 IC520N IC530N	C15M
		P20	CX75 CX90 PX90	AP25N UP35N NX2525 NX3035	NS730 GT730 NS530 GT530	T1200A T2000Z T3000Z T250A	CZ25 CH550 MZ2000 CH7030	GC1525 CT530		IC30N IC75T	C15M
		P30	CX90 SC30	VP45N NX4545	NS730 NS740 NS530 NS540	T3000Z	CZ25 MZ3000 CH7035			IC75T	
	M	M10	LN10 CX75	NX2525 AP25N	GT730 NS520 AT530 GT530	T1200A	MZ1000 CH550	GC1525	KT530M KT315		
		M20	CX75 PX75	NX2525 AP25N NX3035	NS730 NS530	T250A	CZ25 MZ2000 CH7030	CT530			C15M
		M30	PX90 SC30	NX4545	NS740 NS540		CZ25 MZ3000 CH7035				C15M
	K	K01	LN10	AP25N NX2525	GT720 NS520 AT520 GT520	T110A T1200A	MZ1000	CT5015			
		K10	LN10 CX75	AP25N NX2525	GT730 NS730 NS530 GT530	T1200A	MZ1000 CH550	CT5015	KT315		
		K20	CX75	AP25N NX2525			CZ25 MZ2000 CH7030				
		K30					MZ3000 CH7035				

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