



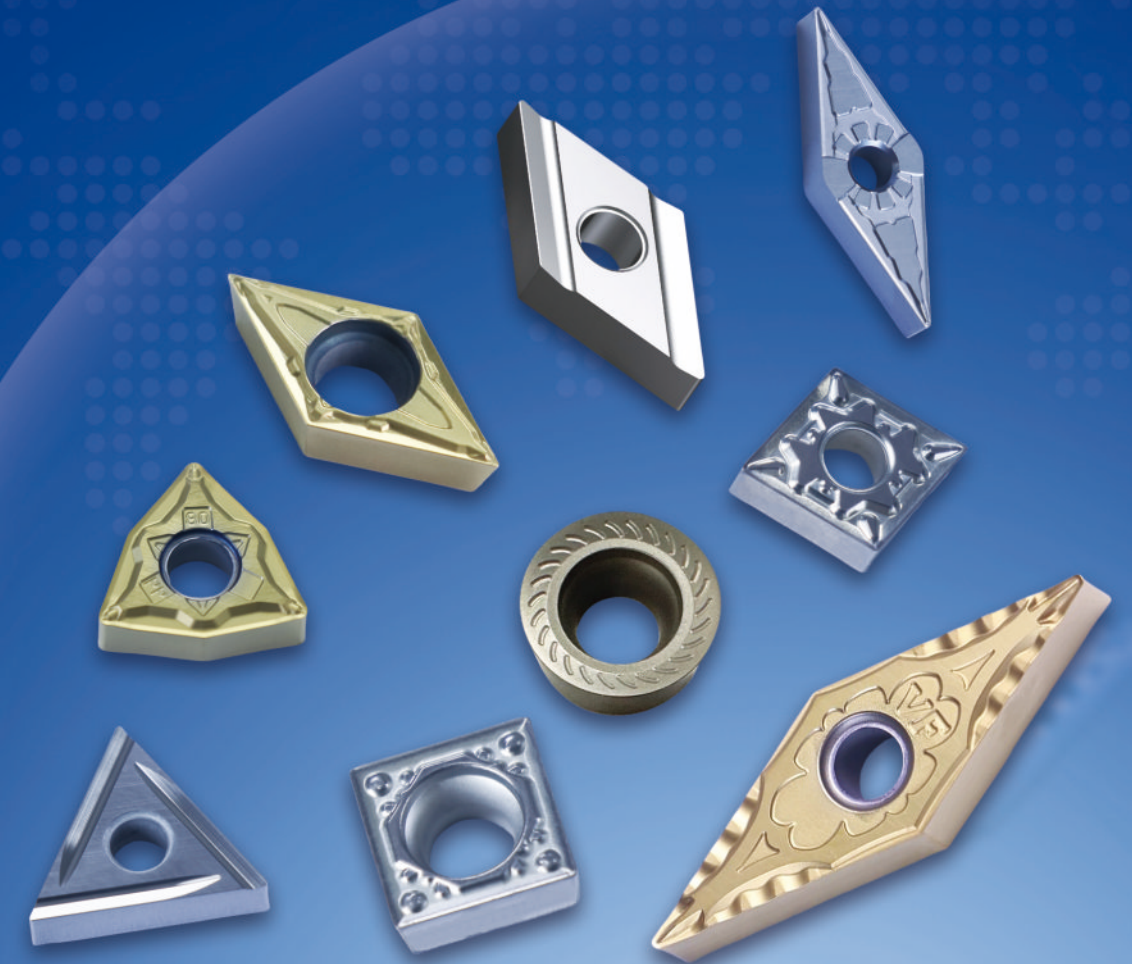
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CERMET MATERIALS AND CUTTING TOOLS

Shareate Tools Ltd.

COMPANY PROFILE

Shareate Tools Ltd., classified as a national high-tech enterprise, is a professional company integrating the design, development, manufacturing, and sales of cemented carbide products, drilling tools, and cutting tools. The company operates two world-class manufacturing bases in Suzhou and Wuhan, equipped with advanced production and inspection equipment, representing a state-of-the-art and continuously expanding R&D and production hub for cemented carbide and drilling tools in China.

Shareate Tools was listed on the Science and Technology Innovation Board of the Shanghai Stock Exchange in October 2021 (Stock Code: 688257). Leveraging its strength in technological innovation and systematic proprietary intellectual property rights, the company has expanded its product line to include cement products and cutting tools, continuously enhancing their application performance with full-process production capabilities and a team of professional experts.

Committed to achieving import substitution, Shareate provides efficient machining solutions centered on cement products, widely applied across industries such as aviation, general machinery, precision electronics, automotive manufacturing, and mold processing, serving clients in multiple countries and regions worldwide.

The company passed the ISO quality system certificate in 2001 and the API certificate in 2008, maintaining both certifications continuously. Currently holding 35 authorized patents (including 14 invention patents) and 40 items of proprietary technology, Shareate has been recognized with the establishment of the Jiangsu Technology Center and Jiangsu Engineering & Technological Research Center, laying a firm foundation for ongoing innovation. Additional honors include "Jiangsu Provincial Enterprise Technology Center," "Jiangsu High-Tech Enterprise," and "Engineering Technology Research Center for High-End Ultrafine Cemented Carbide Products," with products receiving accolades such as "Jiangsu Famous Brand Product" and "National Standard Qualified Unit."



MANUFACTURING AND TESTING EQUIPMENT

The company has a variety of domestic and imported advanced manufacturing and testing equipment and established quality assurance model for design, development, production and service independently.



Production Workshop



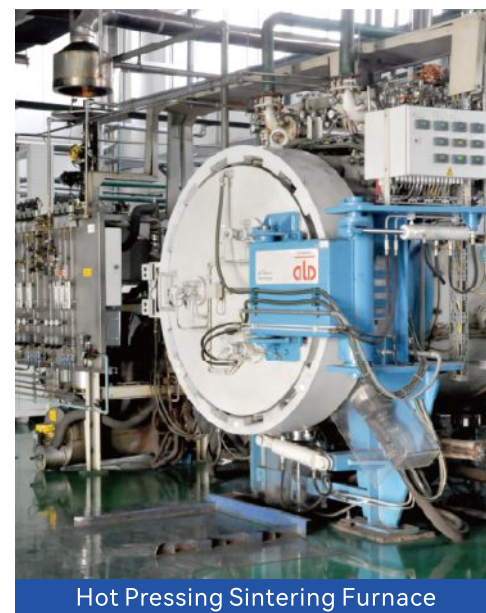
Dry Bag Cold Isostatic Press



Total Carbon Analyzer

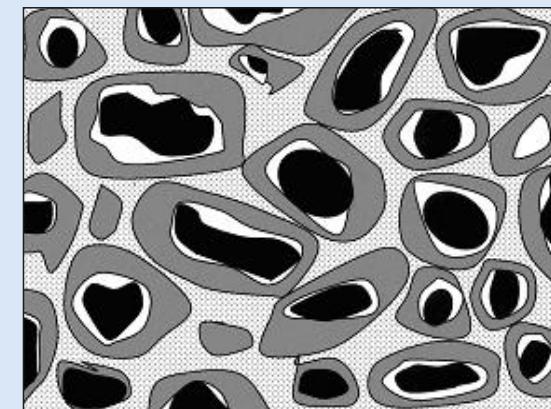


SEM / EDS



Hot Pressing Sintering Furnace

INTRODUCTION OF CERMET



Microstructure schematic
of cermet

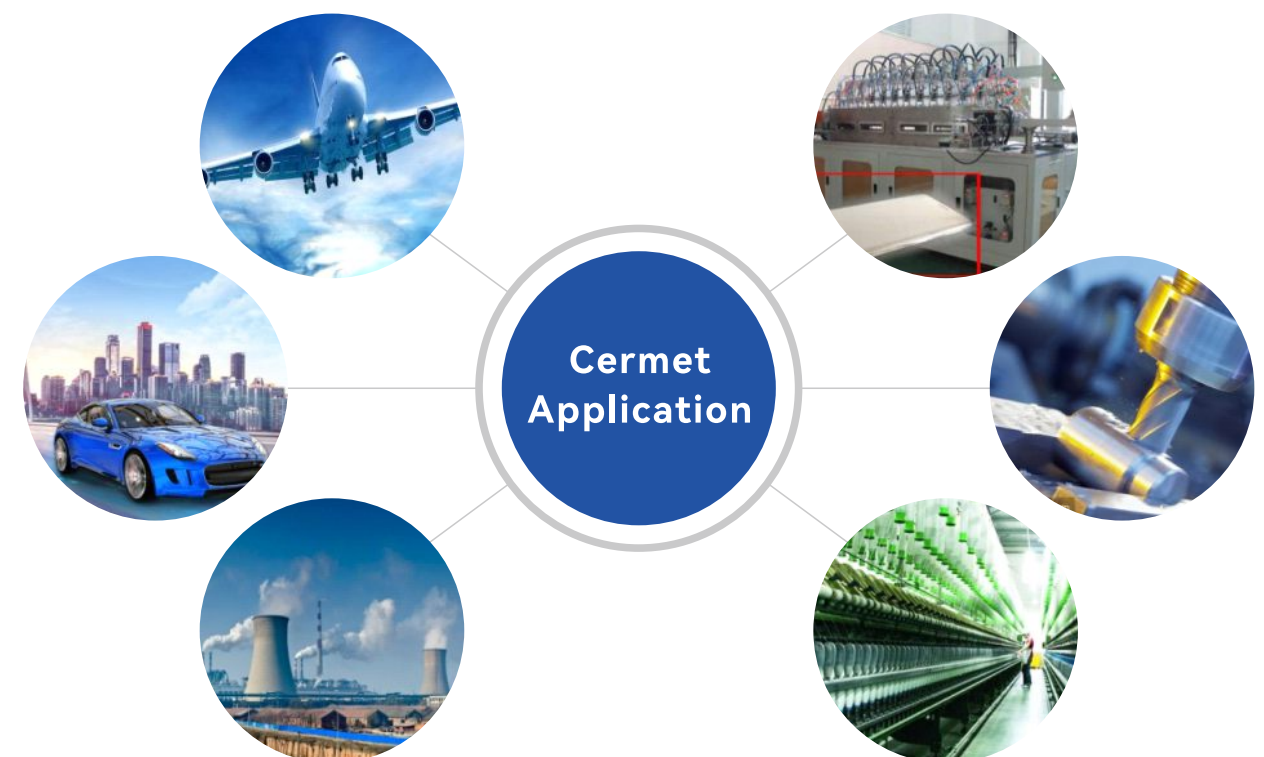
- Ti(C,N) core
- Outer rim
- Inner rim
- Binder

Definition

Cermet is a kind of composite material consisting of ceramic particles bonded with a metal binder phase, which combines the favorable properties of ceramics (high hardness and wear, corrosion and high-temperature oxidation resistance) with those of metals (toughness especially).

Application Area

The unique physical and chemical properties of Ti(C, N)-based cermets makes it a promising material for cutting tools, 3C molds, high temperature wear-resistant parts and special cutting blades for cables and chemical fibers, etc.



ISO and ANSI Designation Systems for Indexable Inserts

Symbol	Shape
H	Hexagon
O	Octagon
P	Pentagon
S	Square
T	Triangle
C	80°Rhombic
D	55°Rhombic
E	75°Rhombic
F	50°Rhombic
M	86°Rhombic
V	35°Rhombic
W	80°Trigon
L	Rectangle
A	85°Parallelogram
B	82°Parallelogram
K	55°Parallelogram
R	Round
X	Special Shape

① Shape Symbol

Symbol Class	Tolerance (mm)		
	Corner Height	Thickness	IC
A	±0.005	±0.025	±0.025
F			±0.13
C	±0.013		±0.025
H			±0.13
E	±0.025	±0.13	±0.025
G			
J	±0.005	±0.025	±0.05 – ±0.15
K*	±0.013		
L*	±0.025		
M*	±0.08 – ±0.18	±0.13	
N*		±0.025	
U*	±0.13 – ±0.38	±0.13	±0.08 – ±0.25
*Denotes non-ground peripheral inserts.			
③ Tolerance Symbol			

*Denotes non-ground peripheral inserts.

③ Tolerance Symbol

C N M G

② Relief Angle Symbol		
Symbol	Clearance Angle	Diagram
A	3°	
B	5°	
C	7°	
D	15°	
E	20°	
F	25°	
G	30°	
N	0°	
P	11°	
O	other	

④ Hole / Chipbreaker Symbol				
Symbol	Hole	Hole Shape	Chipbreaker	
N	No	-	No	
R			Single sided	
F			Double sided	
A	Yes	With hole	No	
M			Single sided	
G			Double sided	
W		With hole and one countersink 40°-60°	No	
T			Single sided	
Q		With hole and two countersink 40°-60°	No	
U			Double sided	
B		With hole and one countersink 70°-90°	No	
H			Single sided	
C		With hole and two countersink 70°-90°	No	
J			Double sided	
X	-	-	-	-

							I.C Sizer (mm)	IC Size (inch)	Symbol
03	04		03	06			3.97	5/32	12
04	05		04	08	08		4.76	3/16	15
		05					5		
05	06		05	09		03	5.56	7/32	18
		06					6		
06	07		06	11	11	04	6.35	1/4	2
08	09		07	13		05	7.94	5/16	25
		08					8		
09	11	09	09	16	16	06	9.525	3/8	3
	12	10					10		
		12					12		
12	15	12	12	22	22	08	12.7	1/2	4
16	19	15	15	27	27	10	15.875	5/8	5
		16					16		
19	23	19	19	33	33	13	19.05	3/4	6
		20					20		
22	27		22	38			22.225	7/8	7
		25					25		
25	31	25	25	44	44	17	25.4	1	8
32	38	31	31	54	54	21	31.75	1-1/4	10
		32					32		
⑤ Edge length Symbol (ISO)							I.C Sizer (mm)	⑤ I.C Size (ANSI)	

⑤ Edge length Symbol (ISO)

I.C Sizer (mm)

⑤ I.C Size (ANSI)

ISO		ANSI	
Symbol	Thickness (mm)	Symbol	Thickness (inch)
S1	1.39	-	-
01	1.59	1	1/16
T0	1.79	-	-
T1	1.98	12	5/64
02	2.38	15	3/32
T2	2.78	-	-
03	3.18	2	1/8
T3	3.97	25	5/32
04	4.76	3	3/16
05	5.56	35	7/32
06	6.35	4	1/4
07	7.94	5	5/16
09	9.52	6	3/8



※Thickness displayed as the distance between bottom surface and highest point on cutting edge.

⑥ Thickness Symbol

12 04 08 (E) (N) TM

⑦ Corner-R (RE) Symbol			
ISO		ANSI	
Symbol	Corner-R (RE)(mm)	Symbol	Corner-R (RE)(inch)
00	Sharp Corner	00	.000
V3	0.03	01	.001
V5	0.05	013	.002
01	0.1	02	.004
02	0.2	05	.008
04	0.4	1	1/64
08	0.8	2	1/32
12	1.2	3	3/64
16	1.6	4	1/16
20	2	5	5/64
24	2.4	6	3/32
28	2.8	7	7/64
32	3.2	8	1/8

⑧ Edge Preparation Symbol		
Shape	Edge Conditioning	Symbol
	Sharp edge	F
	Honed edge	E
	Chamfered edge	T
	Dual-treated edge	S

⑨ Cutting Direction Symbol		
Shape	Cutting Direction	Symbol
	Right-hand	R
	Left-hand	L
	Neutral	N

⑩ Chipbreaker Symbol
Chipbreaker Code on Major Cutting Edge
Additional Custom Codes / Other Custom Codes

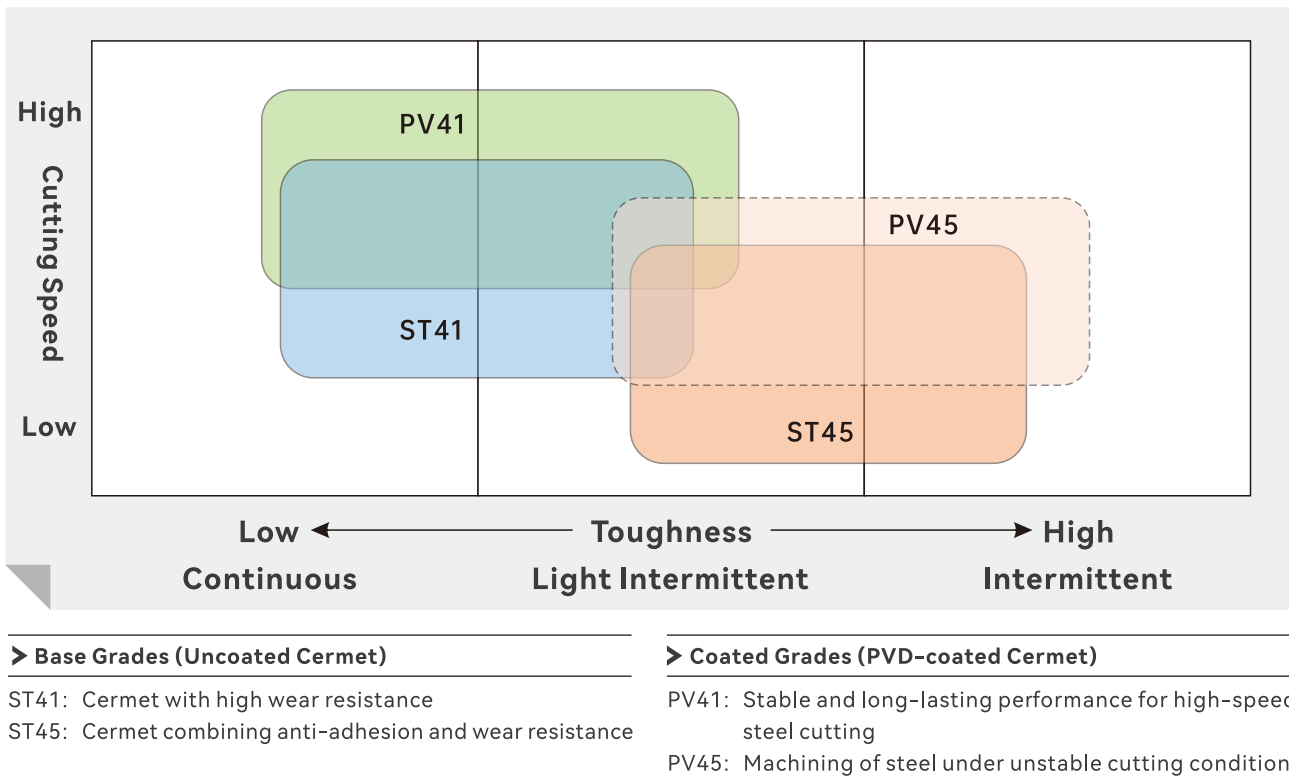
Cermet Grades

Workpiece Materials		Steel (Carbon Steel / Alloy Steel)					Stainless Steel / Cast Steel					Cast Iron (Gray Cast Iron / Ductile Cast Iron)			
Cutting Technology		Finishing ← → Roughing					Finishing ← → Roughing					Finishing ← → Roughing			
Classification by Use		P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30
Cermet	Uncoated	ST41					ST41					ST41			
			ST45					ST45					ST45		
	PVD	PV41					PV41					PV41			
			PV45					PV45					PV45		

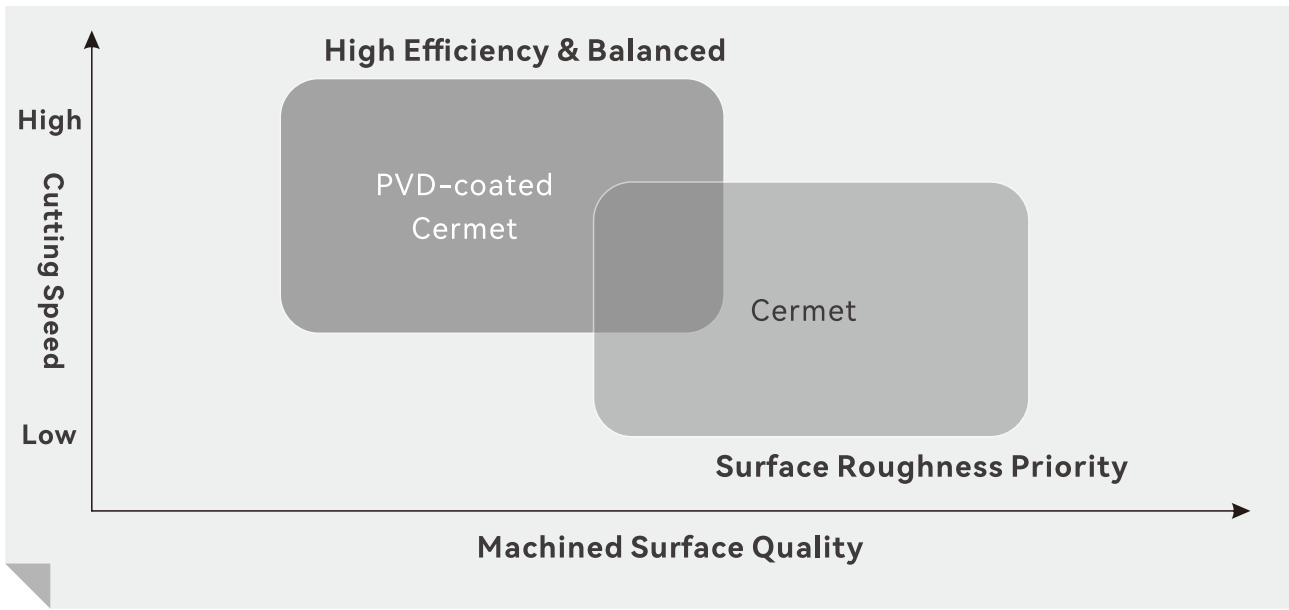
Cermet Properties

Classification	Grade	Color	Coating Hardness (HV)	Friction Coefficient	Coating Thickness (μm)	Oxidation Resistance (°C)	Application
P M K	Cermet	ST41	Light Gray				○Versatile cermet with high wear resistance ○Application: Recommended for steel cutting, high-speed continuous cutting
		ST45	Light Gray				○Versatile cermet with high wear resistance ○Application: Recommended for steel cutting, stable cutting conditions
	PVD-coated Cermet	PV41	Golden	3200	0.45	2-5	800 ○Highly wear-resistant cermet with PVD coating offering excellent adhesion resistance ○Application: High-speed durable cutting of steel and alloy steel
		PV45	Golden	3500	0.45	3-4	900 ○Tough cermet with PVD coating offering excellent adhesion resistance ○Application: High-speed durable cutting of steel and alloy steel

Grade Application Diagram



Grade Application Range

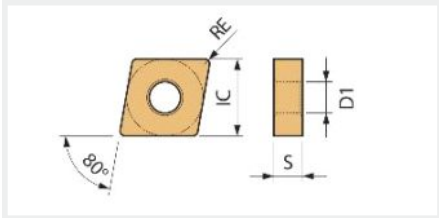


CERMET DIGITAL CUTTINGS

Cermet Indexable Inserts

CN

- Standard Stock Items
- Customizable

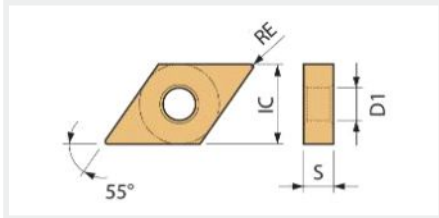


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	CNMG	120404 371	4.76	0.4	●	○	●	○
		120408 371	4.76	0.8	●	○	●	○
	CNMG	120404 FG1	4.76	0.4	●	○	●	○
		120408 FG1	4.76	0.8	●	○	●	○
	CNMG	120404 HQ1	4.76	0.4	●	○	●	○
		120408 HQ1	4.76	0.8	●	○	●	○
	CNMG	120404 MS1	4.76	0.4	●	○	●	○
		120408 MS1	4.76	0.8	●	○	●	○
	CNMG	120404 MT1	4.76	0.4	●	○	●	○
		120408 MT1	4.76	0.8	●	○	●	○
	CNMG	120404 PP1	4.76	0.4	●	○	●	○
		120408 PP1	4.76	0.8	●	○	●	○
	CNMG	120404 TS1	4.76	0.4	●	○	●	○
		120408 TS1	4.76	0.8	●	○	●	○
	CNGG	120402 R/L H1	4.76	0.2	●	○	●	○
		120404 R/L H1	4.76	0.4	●	○	●	○
		120408 R/L H1	4.76	0.8	●	○	●	○
	CNGG	120402 R/L C1	4.76	0.2	●	○	●	○
		120404 R/L C1	4.76	0.4	●	○	●	○
		120408 R/L C1	4.76	0.8	●	○	●	○
	CNGG	120402 R/L P1	4.76	0.2	●	○	●	○
		120404 R/L P1	4.76	0.4	●	○	●	○
		120408 R/L P1	4.76	0.8	●	○	●	○
	CNGG	120402 R/L S1	4.76	0.2	●	○	●	○
		120404 R/L S1	4.76	0.4	●	○	●	○
		120408 R/L S1	4.76	0.8	●	○	●	○

Cermet Indexable Inserts

DN

- Standard Stock Items
- Customizable

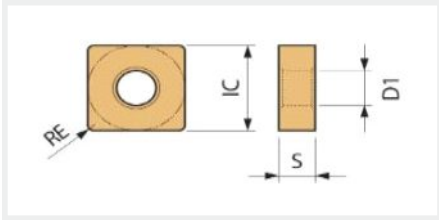


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	DNMG	150404 HQ1	4.76	0.4	●	○	●	○
		150408 HQ1	4.76	0.8	●	○	●	○
	DNMG	150404 R/L S1	4.76	0.4	●	○	●	○
		150408 R/L S1	4.76	0.8	●	○	●	○
	DNMG	150404 R/L VF1	4.76	0.4	●	○	●	○
		12.70						
	DNMG	150404 MT1	4.76	0.4	●	○	●	○
		150408 MT1	4.76	0.8	●	○	●	○
	DNMG	150404 PP1	4.76	0.4	●	○	●	○
		150408 PP1	4.76	0.8	●	○	●	○
	DNMG	110402 R/L C1	4.76	0.2	●	○	●	○
		110404 R/L C1	4.76	0.4	●	○	●	○
		110408 R/L C1	4.76	0.8	●	○	●	○
	DNMG	110402 R/L H1	4.76	0.2	●	○	●	○
		110404 R/L H1	4.76	0.4	●	○	●	○
		110408 R/L H1	4.76	0.8	●	○	●	○
	DNMG	110402 R/L S1	4.76	0.2	●	○	●	○
		110404 R/L S1	4.76	0.4	●	○	●	○
		110408 R/L S1	4.76	0.8	●	○	●	○
	DNMG	150402 R/L C1	4.76	0.2	●	○	●	○
		150404 R/L C1	4.76	0.4	●	○	●	○
		150408 R/L C1	4.76	0.8	●	○	●	○
	DNMG	150402 R/L S1	4.76	0.2	●	○	●	○
		150404 R/L S1	4.76	0.4	●	○	●	○
		150408 R/L S1	4.76	0.8	●	○	●	○
	DNMG	150402 R/L H1	4.76	0.2	●	○	●	○
		150404 R/L H1	4.76	0.4	●	○	●	○
		150408 R/L H1	4.76	0.8	●	○	●	○

Cermet Indexable Inserts

SN

- Standard Stock Items
- Customizable

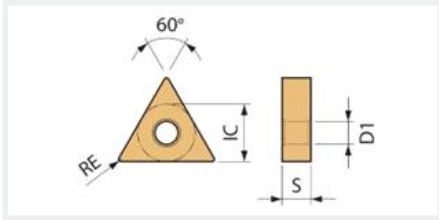


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	SNMG 120404 HQ1	12.70	4.76	0.4	●	○	●	○
		120408 HQ1	12.70	4.76	0.8	●	○	○
	SNMG 120404 MT1	12.70	4.76	0.4	●	○	●	○
		120408 MT1	12.70	4.76	0.8	●	○	○
	SNMG 120404 TS1	12.70	4.76	0.4	●	○	●	○
		120408 TS1	12.70	4.76	0.8	●	○	○
	SNGG 120402 R/L C1	12.70	4.76	0.4	●	○	●	○
		120404 R/L C1	12.70	4.76	0.8	●	○	○
	SNGG 090302 R/L B1	9.525	3.18	0.2	●	○	●	○
		090304 R/L B1	9.525	3.18	0.4	●	○	○

Cermet Indexable Inserts

TN

- Standard Stock Items
- Customizable

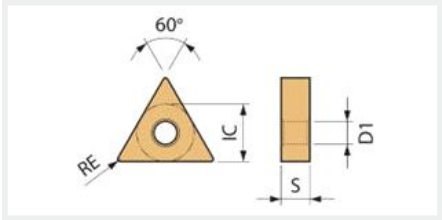


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	TNMG 160404 371	9.525	4.76	0.4	●	○	●	○
		160408 371	9.525	4.76	0.8	●	○	○
	TNMG 160404 FG1	9.525	4.76	0.4	●	○	●	○
		160408 FG1	9.525	4.76	0.8	●	○	○
	TNMG 160404 HQ1	9.525	4.76	0.4	●	○	●	○
		160408 HQ1	9.525	4.76	0.8	●	○	○
		160412 HQ1	9.525	4.76	0.12	●	○	○
	TNMG 160404 R/L FS1	9.525	4.76	0.4	●	○	●	○
		160408 R/L FS1	9.525	4.76	0.8	●	○	○
	TNMG 160404 R/L S1	9.525	4.76	0.4	●	○	●	○
		160408 R/L S1	9.525	4.76	0.8	●	○	○
	TNMG 160404 R/L VF1	9.525	4.76	0.4	●	○	●	○
		160408 R/L VF1	9.525	4.76	0.8	●	○	○
	TNMG 160404 MS1	9.525	4.76	0.4	●	○	●	○
		160408 MS1	9.525	4.76	0.8	●	○	○
	TNMG 160404 MT1	9.525	4.76	0.4	●	○	●	○
		160408 MT1	9.525	4.76	0.8	●	○	○
	TNMG 160402 PP1	9.525	4.76	0.2	●	○	●	○
		160404 PP1	9.525	4.76	0.4	●	○	○
		160408 PP1	9.525	4.76	0.8	●	○	○
	TNMG 160404 TS1	9.525	4.76	0.4	●	○	●	○
		160408 TS1	9.525	4.76	0.8	●	○	○
	TNMG 160402 R/L C1	9.525	4.76	0.2	●	○	●	○
		160404 R/L C1	9.525	4.76	0.4	●	○	○
		160408 R/L C1	9.525	4.76	0.8	●	○	○

Cermet Indexable Inserts

TN

- Standard Stock Items
- Customizable

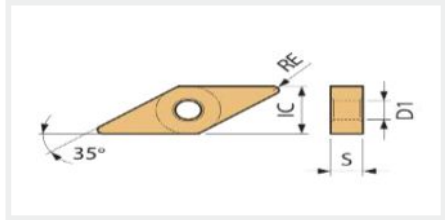


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	TNGG							
	160402 R/L C1	9.525	4.76	0.2	●	○	●	○
	160404 R/L C1	9.525	4.76	0.4	●	○	●	○
	160408 R/L C1	9.525	4.76	0.8	●	○	●	○
	220402 R/L C1	12.70	4.76	0.2	●	○	●	○
	220404 R/L C1	12.70	4.76	0.4	●	○	●	○
	TNGG							
	160402 R/L P1	9.525	4.76	0.2	●	○	●	○
	160404 R/L P1	9.525	4.76	0.4	●	○	●	○
	TNGG							
	160402 R/L S1	9.525	4.76	0.2	●	○	●	○
	160404 R/L S1	9.525	4.76	0.4	●	○	●	○
	220402 R/L S1	12.70	4.76	0.2	●	○	●	○
	TNGG							
	160402 R/L F1	9.525	4.76	0.2	●	○	●	○
	160404 R/L F1	9.525	4.76	0.4	●	○	●	○
	TNGG							
	160408 R/L F1	9.525	4.76	0.8	●	○	●	○

Cermet Indexable Inserts

VN

- Standard Stock Items
- Customizable

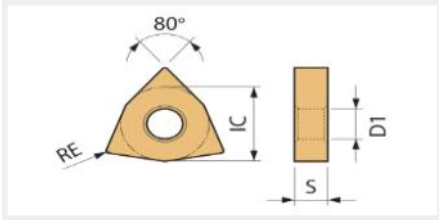


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	VNMG							
	160404 FG1	9.525	4.76	0.2	●	○	●	○
	VNMG							
	160408 FG1	9.525	4.76	0.4	●	○	●	○
	VNMG							
	160404 HQ1	9.525	4.76	0.2	●	○	●	○
	VNMG							
	160408 HQ1	9.525	4.76	0.4	●	○	●	○
	VNMG							
	160404 MS1	9.525	4.76	0.2	●	○	●	○
	VNMG							
	160408 MS1	9.525	4.76	0.4	●	○	●	○
	VNMG							
	160404 SL1	9.525	4.76	0.2	●	○	●	○
	VNMG							
	160408 SL1	9.525	4.76	0.4	●	○	●	○
	VNMG							
	160404 MT1	9.525	4.76	0.8	●	○	●	○
	VNMG							
	160408 MT1	9.525	4.76	0.8	●	○	●	○
	VNMG							
	160402 PP1	9.525	4.76	0.2	●	○	●	○
	VNMG							
	160404 PP1	9.525	4.76	0.4	●	○	●	○
	VNMG							
	160408 PP1	9.525	4.76	0.8	●	○	●	○
	VNMG							
	160404 TS1	9.525	4.76	0.4	●	○	●	○
	VNMG							
	160408 TS1	9.525	4.76	0.8	●	○	●	○
	VNMG							
	160404 VF1	9.525	4.76	0.4	●	○	●	○
	VNMG							
	160408 VF1	9.525	4.76	0.8	●	○	●	○
	VNMG							
	160402 R/L C1	9.525	4.76	0.2	●	○	●	○
	VNMG							
	160404 R/L C1	9.525	4.76	0.4	●	○	●	○
	VNMG							
	160408 R/L C1	9.525	4.76	0.8	●	○	●	○
	VNMG							
	160402 R/L H1	9.525	4.76	0.2	●	○	●	○
	VNMG							
	160404 R/L H1	9.525	4.76	0.4	●	○	●	○
	VNMG							
	160408 R/L H1	9.525	4.76	0.8	●	○	●	○
	VNMG							
	160402 R/L S1	9.525	4.76	0.2	●	○	●	○
	VNMG							
	160404 R/L S1	9.525	4.76	0.4	●	○	●	○
	VNMG							
	160408 R/L S1	9.525	4.76	0.8	●	○	●	○

Cermet Indexable Inserts

WN

- Standard Stock Items
- Customizable

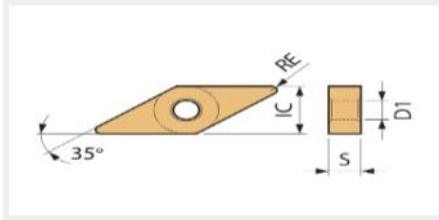


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	WNMG 080404 371	12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNMG 080404 FG1	12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNMG 080404 HQ1	12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNMG 080404 R/L S1	12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNMG 080404 R/L VF1	12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNMG 080404 MS1	12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNMG 080404 MT1	12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNMG 080402 PP1	12.70	4.76	0.2	●	○	●	○
		12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNMG 080404 TS1	12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNMG 080404 TSF1	12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNGG 060404 R/L C1	9.525	4.76	0.4	●	○	●	○
		9.525	4.76	0.8	●	○	●	○
		12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○
	WNGG 060404 R/L S1	9.525	4.76	0.4	●	○	●	○
		9.525	4.76	0.8	●	○	●	○
		12.70	4.76	0.4	●	○	●	○
		12.70	4.76	0.8	●	○	●	○

Cermet Indexable Inserts

CC

- Standard Stock Items
- Customizable

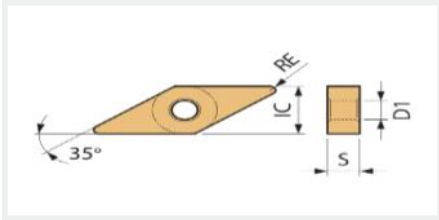


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	CCMT 060202 FA1	6.35	2.38	0.2	●	○	●	○
		6.35	2.38	0.4	●	○	●	○
		9.525	3.97	0.2	●	○	●	○
		9.525	3.97	0.4	●	○	●	○
		9.525	3.97	0.8	●	○	●	○
	CCMT 060202 PS1	6.35	2.38	0.2	●	○	●	○
		6.35	2.38	0.4	●	○	●	○
		6.35	2.38	0.8	●	○	●	○
		9.525	3.97	0.2	●	○	●	○
		9.525	3.97	0.4	●	○	●	○
	CCMT 060204 241	6.35	2.38	0.4	●	○	●	○
		9.525	3.97	0.4	●	○	●	○
		9.525	3.97	0.8	●	○	●	○
	CCMT 060204 FG1	6.35	2.38	0.4	●	○	●	○
		9.525	3.97	0.4	●	○	●	○
		9.525	3.97	0.8	●	○	●	○
	CCMT 060202 HQ1	6.35	2.38	0.2	●	○	●	○
		6.35	2.38	0.4	●	○	●	○
		9.525	3.97	0.2	●	○	●	○
		9.525	3.97	0.4	●	○	●	○
		9.525	3.97	0.8	●	○	●	○
	CCMT 060204 MT1	6.35	2.38	0.4	●	○	●	○
		9.525	3.97	0.4	●	○	●	○
		9.525	3.97	0.8	●	○	●	○
	CCMT 060202 PP1	6.35	2.38	0.2	●	○	●	○
		6.35	2.38	0.4	●	○	●	○
		9.525	3.97	0.2	●	○	●	○
		9.525	3.97	0.4	●	○	●	○
		9.525	3.97	0.8	●	○	●	○

Cermet Indexable Inserts

CC

- Standard Stock Items
- Customizable

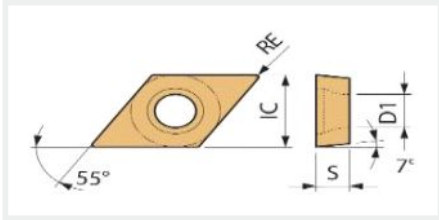


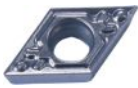
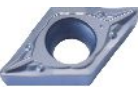
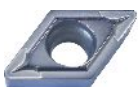
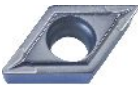
Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	CCMT	060202 SL1	6.35	2.38	0.2	●	○	○
		060204 SL1	6.35	2.38	0.4	●	○	○
		060208 SL1	6.35	2.38	0.8	●	○	○
		09T302 SL1	9.525	3.97	0.2	●	○	○
		09T304 SL1	9.525	3.97	0.4	●	○	○
		09T308 SL1	9.525	3.97	0.8	●	○	○
		120404 SL1	12.70	4.76	0.4	●	○	○
		120408 SL1	12.70	4.76	0.8	●	○	○
 * Sharp Edge	CCGT	060202 R/L S1	6.35	2.38	0.2	●	○	○
		060204 R/L S1	6.35	2.38	0.4	●	○	○
		09T302 R/L S1	9.525	3.97	0.2	●	○	○
		09T304 R/L S1	9.525	3.97	0.4	●	○	○
 *E:Honed Edge F:Sharp Edge	CCGT	060202 ER/EL U1	6.35	2.38	0.2	●	○	○
		060204 ER/EL U1	6.35	2.38	0.4	●	○	○
		060202 FR/FL U1	6.35	2.38	0.2	●	○	○
		060204 FR/FL U1	6.35	2.38	0.4	●	○	○
		09T302 ER/EL U1	9.525	3.97	0.2	●	○	○
		09T304 ER/EL U1	9.525	3.97	0.4	●	○	○
		09T302 FR/FL U1	9.525	3.97	0.2	●	○	○
		09T304 FR/FL U1	9.525	3.97	0.4	●	○	○
 * Sharp Edge	CCGT	030102 R/L F1	3.50	1.40	0.2	●	○	○
		030104 R/L F1	3.50	1.40	0.4	●	○	○
		040102 R/L F1	4.30	1.80	0.2	●	○	○
		040104 R/L F1	4.30	1.80	0.4	●	○	○
		060202 R/L F1	6.35	2.38	0.2	●	○	○
		060204 R/L F1	6.35	2.38	0.4	●	○	○
		09T302 R/L F1	9.525	3.97	0.2	●	○	○
		09T304 R/L F1	9.525	3.97	0.4	●	○	○
	CCGT	09T302 R/L H1	9.525	3.97	0.2	●	○	○
		09T304 R/L H1	9.525	3.97	0.4	●	○	○

Cermet Indexable Inserts

DC

- Standard Stock Items
- Customizable

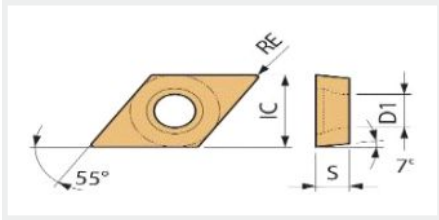


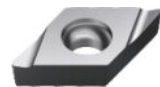
Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	DCMT	070202 HQ1	6.35	2.38	0.2	●	○	○
		070204 HQ1	6.35	2.38	0.4	●	○	○
		070208 HQ1	6.35	2.38	0.8	●	○	○
		11T302 HQ1	9.525	3.97	0.4	●	○	○
		11T304 HQ1	9.525	3.97	0.4	●	○	○
		11T308 HQ1	9.525	3.97	0.8	●	○	○
	DCMT	070202 PS1	6.35	2.38	0.2	●	○	○
		070204 PS1	6.35	2.38	0.4	●	○	○
		070208 PS1	6.35	2.38	0.8	●	○	○
		11T302 PS1	9.525	3.97	0.2	●	○	○
		11T304 PS1	9.525	3.97	0.4	●	○	○
		11T308 PS1	9.525	3.97	0.8	●	○	○
	DCMT	070204 FG1	6.35	2.38	0.2	●	○	○
		070208 FG1	6.35	2.38	0.4	●	○	○
		11T304 FG1	9.525	3.97	0.8	●	○	○
		11T308 FG1	9.525	3.97	0.4	●	○	○
	DCMT	070202 PP1	6.35	2.38	0.2	●	○	○
		070204 PP1	6.35	2.38	0.4	●	○	○
		11T302 PP1	9.525	3.97	0.2	●	○	○
		11T304 PP1	9.525	3.97	0.4	●	○	○
		11T308 PP1	9.525	3.97	0.8	●	○	○
	DCMT	070202 SL1	6.35	2.38	0.2	●	○	○
		070204 SL1	6.35	2.38	0.4	●	○	○
		070208 SL1	6.35	2.38	0.8	●	○	○
		11T302 SL1	9.525	3.97	0.2	●	○	○
		11T304 SL1	9.525	3.97	0.4	●	○	○
		11T308 SL1	9.525	3.97	0.8	●	○	○
	DCMT	070202 FA1	6.35	2.38	0.2	●	○	○
		070204 FA1	6.35	2.38	0.4	●	○	○
		11T302 FA1	9.525	3.97	0.2	●	○	○
		11T304 FA1	9.525	3.97	0.4	●	○	○
	DCMT	11T304 241	9.525	3.97	0.4	●	○	○
	DCMT	11T304 MT1	9.525	3.97	0.4	●	○	○
		11T308 MT1	9.525	3.97	0.8	●	○	○

Cermet Indexable Inserts

DC

- Standard Stock Items
- Customizable



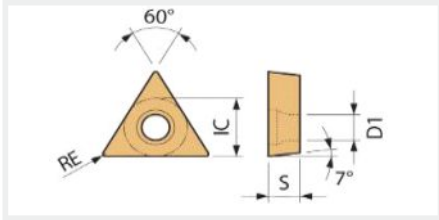
Appearance	Specifications	Dimensions			Grade				
		I.C	S	Re	ST41	ST45	PV41	PV45	
 *E:Honed Edge F:Sharp Edge	DCGT	070202 ER/EL U1	6.35	2.38	0.2	●	○	●	○
		070204 ER/EL U1	6.35	2.38	0.4	●	○	●	○
		070202 FR/FL U1	6.35	2.38	0.2	●	○	●	○
		070204 FR/FL U1	6.35	2.38	0.4	●	○	●	○
		11T302 ER/EL U1	9.525	3.97	0.2	●	○	●	○
		11T304 ER/EL U1	9.525	3.97	0.4	●	○	●	○
		11T302 FR/FL U1	9.525	3.97	0.2	●	○	●	○
		11T304 FR/FL U1	9.525	3.97	0.4	●	○	●	○
	DCGT	070202 R/L F1	6.35	2.38	0.2	●	○	●	○
		070204 R/L F1	3.35	2.38	0.4	●	○	●	○
		11T302 R/L F1	9.525	3.97	0.2	●	○	●	○
		11T304 R/L F1	9.525	3.97	0.4	●	○	●	○

*E:Honed Edge
F:Sharp Edge

Cermet Indexable Inserts

TC

- Standard Stock Items
- Customizable

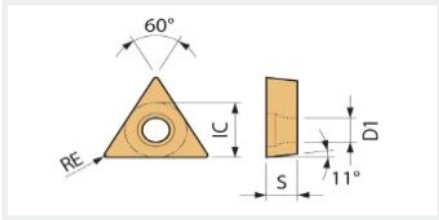


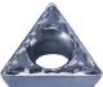
Appearance	Specifications		Dimensions			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	TCMT	090204 HQ1	5.56	2.38	0.4	●	○	●	○
		110204 HQ1	6.35	2.38	0.4	●	○	●	○
		110208 HQ1	6.35	2.38	0.8	●	○	●	○
		16T304 HQ1	9.525	4.40	0.4	●	○	●	○
		16T308 HQ1	9.525	4.40	0.8	●	○	●	○
	TCMT	090204 MT1	5.56	2.38	0.4	●	○	●	○
		110204 MT1	6.35	2.38	0.4	●	○	●	○
		110208 MT1	6.35	2.38	0.8	●	○	●	○
		16T304 MT1	9.525	4.40	0.4	●	○	●	○
		16T308 MT1	9.525	4.40	0.8	●	○	●	○
	TCMT	090204 PS1	5.56	2.38	0.4	●	○	●	○
		110202 PS1	6.35	2.38	0.2	●	○	●	○
		110204 PS1	6.35	2.38	0.4	●	○	●	○
		110302 PS1	6.35	2.38	0.2	●	○	●	○
		110304 PS1	6.35	2.38	0.4	●	○	●	○
		16T302 PS1	9.525	4.40	0.2	●	○	●	○
		16T304 PS1	9.525	4.40	0.4	●	○	●	○
		16T308 PS1	9.525	4.40	0.8	●	○	●	○
	TCMT	090204 SL1	5.56	2.38	0.4	●	○	●	○
		110204 SL1	6.35	2.38	0.4	●	○	●	○
		110208 SL1	6.35	2.38	0.8	●	○	●	○
		16T304 SL1	9.525	4.40	0.4	●	○	●	○
		16T308 SL1	9.525	4.40	0.8	●	○	●	○
	TCMT	110204 FG1	6.35	2.38	0.4	●	○	●	○
	TCMT	110204 241	6.35	2.38	0.4	●	○	●	○
	TCGT	110202 R/L	6.35	2.38	0.2	●	○	●	○
		110204 R/L	6.35	2.38	0.4	●	○	●	○
	TCGT	110202 R/L W1	6.35	2.38	0.2	●	○	●	○
		110204 R/L W1	6.35	2.38	0.4	●	○	●	○

Cermet Indexable Inserts

TP

- Standard Stock Items
- Customizable

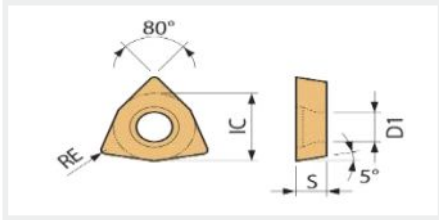


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	TPMT 110302 FG1	6.35	3.18	0.2	●	○	●	○
		110304 FG1	6.35	3.18	0.4	●	○	○
	TPMT 090204 HQ1	6.35	2.38	0.4	●	○	●	○
		110302 HQ1	6.35	3.18	0.2	●	○	○
		110304 HQ1	6.35	3.18	0.4	●	○	○
		110308 HQ1	6.35	3.18	0.8	●	○	○
	TPMT 090202 PP1	5.56	2.38	0.2	●	○	●	○
		090204 PP1	5.56	2.38	0.4	●	○	○
		110302 PP1	6.35	3.18	0.2	●	○	○
		110304 PP1	6.35	3.18	0.4	●	○	○
	TPMT 090202 PS1	5.56	2.38	0.2	●	○	●	○
		090204 PS1	5.56	2.38	0.4	●	○	○
		110204 PS1	6.35	3.18	0.4	●	○	○
		110302 PS1	6.35	3.18	0.2	●	○	○
	TPMT 110304 PS1	6.35	3.18	0.4	●	○	●	○
		110308 PS1	6.35	3.18	0.8	●	○	○
		16T304 PS1	9.525	4.76	0.4	●	○	○
		16T308 PS1	9.525	4.76	0.8	●	○	○
	TPGH 080202 R/L	4.76	2.38	0.2	●	○	●	○
		080204 R/L	4.76	2.38	0.4	●	○	○
		090202 R/L	5.56	2.38	0.2	●	○	○
		090204 R/L	5.56	2.38	0.4	●	○	○
		110302 R/L	6.35	3.18	0.2	●	○	○
		110304 R/L	6.35	3.18	0.4	●	○	○
	TPGT 080202 R/L W1	4.76	2.38	0.2	●	○	●	○
		080204 R/L W1	4.76	2.38	0.4	●	○	○
		090202 R/L W1	5.56	2.38	0.2	●	○	○
		090204 R/L W1	5.56	2.38	0.4	●	○	○
		110302 R/L W1	6.35	3.18	0.2	●	○	○
		110304 R/L W1	6.35	3.18	0.4	●	○	○

Cermet Indexable Inserts

WB

- Standard Stock Items
- Customizable

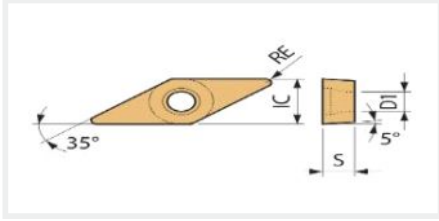


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	WBMT 060102 L DP1	3.97	1.59	0.2	●	○	●	○
		060104 L DP1	3.97	1.59	0.4	●	○	○
	WBGT 060102 R/L F1	3.97	1.59	0.2	●	○	●	○
		060104 R/L F1	3.97	1.59	0.4	●	○	○

Cermet Indexable Inserts

VB

- Standard Stock Items
- Customizable

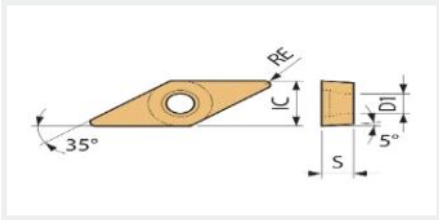


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	VBMT 110302 PP1	6.35	3.18	0.2	●	○	●	○
		110304 PP1	6.35	3.18	0.4	●	○	○
		110308 PP1	6.35	3.18	0.8	●	○	○
		160404 PP1	9.525	4.76	0.4	●	○	○
		160408 PP1	9.525	4.76	0.8	●	○	○
	VBMT 110302 VF1	6.35	3.18	0.2	●	○	●	○
		110304 VF1	6.35	3.18	0.4	●	○	○
		110308 VF1	6.35	3.18	0.8	●	○	○
		160402 VF1	9.525	4.76	0.2	●	○	○
		160404 VF1	9.525	4.76	0.4	●	○	○
	VBMT 110304 HQ1	6.35	3.18	0.4	●	○	●	○
		110308 HQ1	6.35	3.18	0.8	●	○	○
		160404 HQ1	9.525	4.76	0.4	●	○	○
		160408 HQ1	9.525	4.76	0.8	●	○	○
	VBMT 160404 FG1	9.525	4.76	0.4	●	○	●	○
		160408 FG1	9.525	4.76	0.8	●	○	○

Cermet Indexable Inserts

VB

- Standard Stock Items
- Customizable

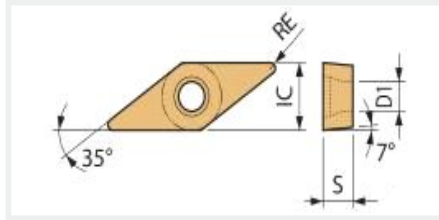


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	VBMT							
	160404 MT1	9.525	4.76	0.4	●	○	●	○
	VBMT							
	160408 MT1	9.525	4.76	0.8	●	○	●	○
	VBMT							
	110302 PS1	6.35	3.18	0.2	●	○	●	○
	110304 PS1	6.35	3.18	0.4	●	○	●	○
	110308 PS1	6.35	3.18	0.8	●	○	●	○
	160404 PS1	9.525	4.76	0.4	●	○	●	○
	VBMT							
	160408 PS1	9.525	4.76	0.8	●	○	●	○
	VBMT							
	110302 SL1	6.35	3.18	0.2	●	○	●	○
	110304 SL1	6.35	3.18	0.4	●	○	●	○
	110308 SL1	6.35	3.18	0.8	●	○	●	○
	160404 SL1	9.525	4.76	0.4	●	○	●	○
	VBMT							
	160408 SL1	9.525	4.76	0.8	●	○	●	○
	VBGT							
	110302 R/L F1	6.35	3.18	0.2	●	○	●	○
	110304 R/L F1	6.35	3.18	0.4	●	○	●	○
	160402 R/L F1	9.525	4.76	0.2	●	○	●	○
	160404 R/L F1	9.525	4.76	0.4	●	○	●	○
	VBGT							
	160408 R/L F1	9.525	4.76	0.8	●	○	●	○
	VBGT							
	110302 R/L Y1	6.35	3.18	0.2	●	○	●	○
	110304 R/L Y1	6.35	3.18	0.4	●	○	●	○
	160402 R/L Y1	9.525	4.76	0.2	●	○	●	○
	160404 R/L Y1	9.525	4.76	0.4	●	○	●	○
	VBGT							
	160408 R/L Y1	9.525	4.76	0.8	●	○	●	○

Cermet Indexable Inserts

VC

- Standard Stock Items
- Customizable

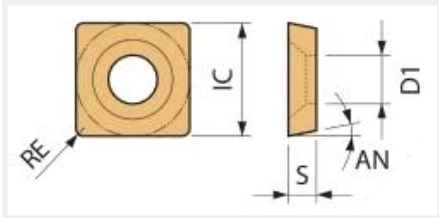


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	VCMT							
	110304 HQ1	6.35	3.18	0.4	●	○	●	○
	VCMT							
	110304 SL1	6.35	3.18	0.4	●	○	●	○
	160404 SL1	9.525	4.76	0.4	●	○	●	○
	160408 SL1	9.525	4.76	0.8	●	○	●	○
	VCMT							
	080202 PP1	4.76	2.38	0.2	●	○	●	○
	080204 PP1	4.76	2.38	0.4	●	○	●	○
	160404 PP1	9.525	4.76	0.4	●	○	●	○
	VCMT							
	160408 PP1	9.525	4.76	0.8	●	○	●	○
	VCMT							
	110302 PS1	6.35	3.18	0.2	●	○	●	○
	110304 PS1	6.35	3.18	0.4	●	○	●	○
	160402 PS1	9.525	4.76	0.2	●	○	●	○
	160404 PS1	9.525	4.76	0.4	●	○	●	○
	VCMT							
	160408 PS1	9.525	4.76	0.8	●	○	●	○
	VCGT							
	110302 R/L F1	6.35	3.18	0.2	●	○	●	○
	110304 R/L F1	6.35	3.18	0.4	●	○	●	○
	160402 R/L F1	9.525	4.76	0.2	●	○	●	○
	160404 R/L F1	9.525	4.76	0.4	●	○	●	○
	VCGT							
	160408 R/L F1	9.525	4.76	0.8	●	○	●	○
	VCGT							
	110302 R/L Y1	6.35	3.18	0.2	●	○	●	○
	110304 R/L Y1	6.35	3.18	0.4	●	○	●	○
	160402 R/L Y1	9.525	4.76	0.2	●	○	●	○
	160404 R/L Y1	9.525	4.76	0.4	●	○	●	○
	VCGT							
	160408 R/L Y1	9.525	4.76	0.8	●	○	●	○

Cermet Indexable Inserts

SC

- Standard Stock Items
- Customizable

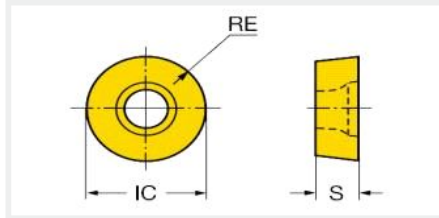


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	SCMT 09T304 HQ1	9.525	3.97	0.4	●	○	●	○
		9.525	3.97	0.8	●	○	●	○
	SCMT 09T304 MT1	9.525	3.97	0.4	●	○	●	○
		9.525	3.97	0.8	●	○	●	○
	SCMT 09T308 PS1	9.525	3.97	0.4	●	○	●	○
		9.525	3.97	0.8	●	○	●	○

Cermet Indexable Inserts

RC

- Standard Stock Items
- Customizable

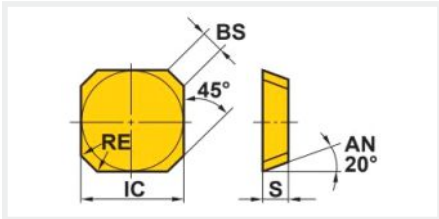


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	RCKT 10T3 M0 WM1	10.0	3.18	5.0	●	○	●	○
		12.0	4.76	6.0	●	○	●	○
	RCMM 0502 M0 611	5.0	2.38	5.0	●	○	●	○
		6.0	2.38	5.0	●	○	●	○
		10.0	3.18	6.0	●	○	●	○
		12.0	4.76	6.0	●	○	●	○
	RCMT 0502 M0 611	5.0	2.38	5.0	●	○	●	○
		6.0	2.38	5.0	●	○	●	○
		8.0	3.18	8.0	●	○	●	○

Cermet Indexable Inserts

SE

- Standard Stock Items
- Customizable

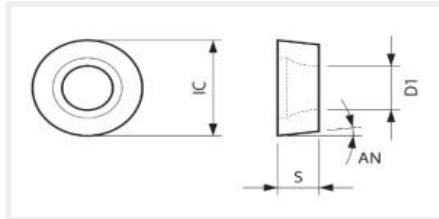


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	SEEN 1203 AFTN1	12.70	3.18	1.00	●	○	●	○
		15.875	4.76	1.00	●	○	●	○

Cermet Indexable Inserts

RP

- Standard Stock Items
- Customizable

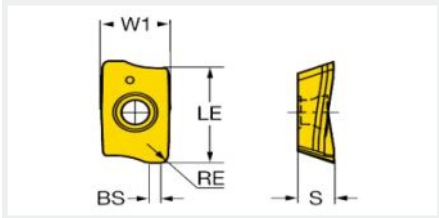


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	RPMT 1203 M01	12.0	3.18	5.0	●	○	●	○
		16.0	4.76	8.0	●	○	●	○

Cermet Indexable Inserts

R390

- Standard Stock Items
- Customizable

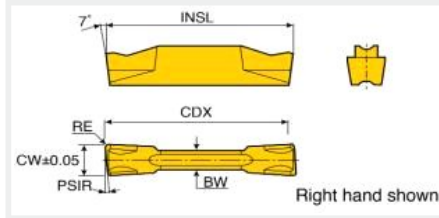


Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	R390 11T308 M PL1	6.80	2.8	0.8	●	○	●	○
	R390 11T308 M PM1	6.80	2.8	0.8	●	○	●	○

Cermet Indexable Inserts

MG

- Standard Stock Items
- Customizable

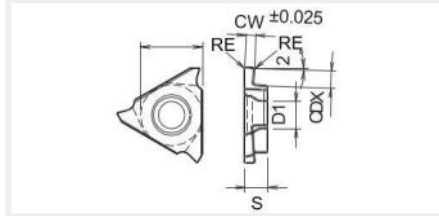


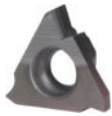
Appearance	Specifications	Dimensions			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	MGMN 150 G1	18.5	2.5	0.2	●	○	●	○
	200 G1	21.0	3.0	0.3	●	○	●	○
	250 G1	21.0	4.80	0.3	●	○	●	○
	300 G1	21.0	4.80	0.3	●	○	●	○
	MGMN 200 M1	16.0	2.0	0.2	●	○	●	○
	250 M1	18.5	2.5	0.2	●	○	●	○
	300 M1	21.0	3.0	0.3	●	○	●	○
	400 M1	21.0	4.80	0.3	●	○	●	○
	500 M1	21.0	4.80	0.3	●	○	●	○

Cermet Indexable Inserts

TGF

- Standard Stock Items
- Customizable

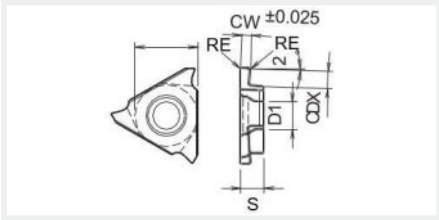


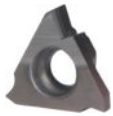
Appearance	Specifications	Dimensions				Grade			
		I.C	Re	CW	CDX	ST41	ST45	PV41	PV45
	TGF 32 R/L 033	9.525	0.05	0.33	0.8	●	○	●	○
	32 R/L 050	9.525	0.05	0.50	1.2	●	○	●	○
	32 R/L 075	9.525	0.10	0.75	2.0	●	○	●	○
	32 R/L 095	9.525	0.10	0.95	2.0	●	○	●	○
	32 R/L 100	9.525	0.10	1.00	2.0	●	○	●	○
	32 R/L 120	9.525	0.10	1.20	2.0	●	○	●	○
	32 R/L 125	9.525	0.10	1.25	2.0	●	○	●	○
	32 R/L 145	9.525	0.10	1.45	2.0	●	○	●	○
	32 R/L 150	9.525	0.10	1.50	2.0	●	○	●	○
	32 R/L 175	9.525	0.10	1.75	2.0	●	○	●	○
	32 R/L 200	9.525	0.10	2.00	2.5	●	○	●	○
	32 R/L 250	9.525	0.10	2.50	2.5	●	○	●	○

Cermet Indexable Inserts

GBA

- Standard Stock Items
- Customizable

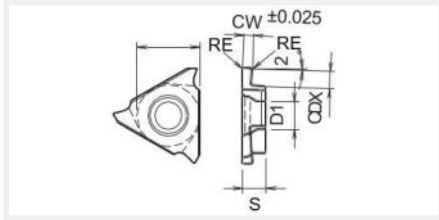


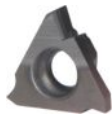
Appearance	Specifications	Dimensions				Grade			
		I.C	Re	CW	CDX	ST41	ST45	PV41	PV45
	GBA								
	32 R/L 033	9.525	0.05	0.33	1.0	●	○	●	○
	32 R/L 050	9.525	0.05	0.50	1.0	●	○	●	○
	32 R/L 075	9.525	0.05	0.75	2.0	●	○	●	○
	32 R/L 095	9.525	0.05	0.95	2.0	●	○	●	○
	32 R/L 100	9.525	0.05	1.00	2.0	●	○	●	○
	32 R/L 120	9.525	0.05	1.20	2.0	●	○	●	○
	32 R/L 125	9.525	0.20	1.25	2.0	●	○	●	○
	32 R/L 145	9.525	0.20	1.45	2.0	●	○	●	○
	32 R/L 150	9.525	0.20	1.50	2.0	●	○	●	○
	32 R/L 175	9.525	0.20	1.75	2.0	●	○	●	○
	32 R/L 200	9.525	0.20	2.00	2.5	●	○	●	○
	32 R/L 220	9.525	0.20	2.25	2.5	●	○	●	○
	32 R/L 250	9.525	0.20	2.50	2.5	●	○	●	○
	32 R/L 300	9.525	0.20	3.00	2.5	●	○	●	○

Cermet Indexable Inserts

GBA

- Standard Stock Items
- Customizable

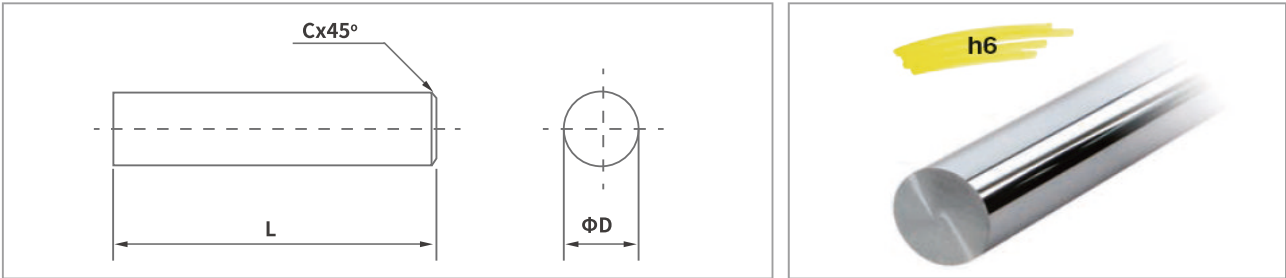


Appearance	Specifications	Dimensions				Grade			
		I.C	Re	CW	CDX	ST41	ST45	PV41	PV45
	GBA								
	43R/L125	12.70	0.10	1.25	2.0	●	○	●	○
	43R/L125	12.70	0.20	1.25	2.0	●	○	●	○
	43R/L140	12.70	0.20	1.40	2.0	●	○	●	○
	43R/L145	12.70	0.20	1.45	2.0	●	○	●	○
	43R/L150	12.70	0.10	1.50	3.5	●	○	●	○
	43R/L150	12.70	0.20	1.50	3.5	●	○	●	○
	43R/L170	12.70	0.20	1.70	3.5	●	○	●	○
	43R/L175	12.70	0.20	1.75	3.5	●	○	●	○
	43R/L185	12.70	0.20	1.85	3.5	●	○	●	○
	43R/L195	12.70	0.20	1.95	3.5	●	○	●	○
	43R/L200	12.70	0.10	2.00	3.5	●	○	●	○
	43R/L200	12.70	0.20	2.00	3.5	●	○	●	○
	43R/L225	12.70	0.20	2.25	3.5	●	○	●	○
	43R/L230	12.70	0.20	2.30	3.5	●	○	●	○
	43R/L250	12.70	0.10	2.50	4.0	●	○	●	○
	43R/L250	12.70	0.30	2.50	4.0	●	○	●	○
	43R/L265	12.70	0.30	2.65	4.0	●	○	●	○
	43R/L280	12.70	0.30	2.80	4.0	●	○	●	○
	43R/L300	12.70	0.10	3.00	4.0	●	○	●	○
	43R/L300	12.70	0.30	3.00	4.0	●	○	●	○
	43R/L325	12.70	0.30	3.25	4.0	●	○	●	○
	43R/L330	12.70	0.30	3.30	4.0	●	○	●	○
	43R/L350	12.70	0.10	3.50	5.0	●	○	●	○
	43R/L350	12.70	0.30	3.50	5.0	●	○	●	○
	43R/L400	12.70	0.10	4.00	5.0	●	○	●	○
	43R/L400	12.70	0.40	4.00	5.0	●	○	●	○
	43R/L430	12.70	0.40	4.30	5.0	●	○	●	○
	43R/L450	12.70	0.40	4.50	5.0	●	○	●	○
	43R/L480	12.70	0.40	4.80	5.0	●	○	●	○

CERMET RODS



Size



Shareate can provide different sizes of rough or grinding rods according to customers’ requirements. The standard sizes included below:

Dimensions			Diameter precision	
Diameter (ΦD)	Length (L) (Tolerance: +0.5/+1.0)	Grinding Chamfer Size(C) (Tolerance: ±0.1)	Rough	Grinding
3	0~100	0.3	+0.3/+0.5	h6
4	0~100	0.4	+0.3/+0.5	
6	0~100	0.4	+0.3/+0.6	
7	0~100	0.5	+0.3/+0.6	
8	0~100	0.6	+0.3/+0.6	
10	0~100	0.6	+0.3/+0.6	
12	0~100	0.8	+0.3/+0.6	
14	0~100	0.8	+0.3/+0.7	
16	0~100	0.8	+0.3/+0.7	
18	0~100	0.8	+0.3/+0.7	
20	0~100	1.0	+0.3/+0.7	

Unit: mm

CERMET CUTTING TOOLS FOR
MACHINING BEARINGS

Size

Appearance	Insert Code	Dimensions (mm)			Grade	
		Inscribed Circle (I.C)	Thickness (S)	Nose Radius (Re)	ST41	ST45
	SNMN090308	9.525	3.18	0.4	○	●
	SNMN120408	12.70	4.76	0.8	○	●
	SNMN150408	15.875	4.76	0.8	○	●
	TNMN220408	12.70	4.76	0.8	○	●
	TNMN270408	15.875	4.76	0.8	○	●

● Standard Stock Items ○ Customizable

Appearance	Insert Code	Dimensions (mm)				Grade	
		Angle	L	B	S	ST41	ST45
	F8	120°	21.5	8.2	6.9	○	●
	F10	120°	21.5	10.2	7.8	○	●
	F12B	120°	26.5	12.2	8	○	●
	F15	120°	32	15.2	10.2	○	●
	F16	120°	32	16.2	10.2	○	●
	F20	120°	36.5	20.2	11.1	○	●

● Standard Stock Items ○ Customizable

CERMET SAW TIPS

Size

Appearance	Specifications	Dimensions (mm)			Grade	
		Cutting Edge Length(S)	Thickness (S)	Nose Radius (Re)	ST41	ST45
	L-W-T(θ°)	Customized	Customized	Customized	●	○

● Standard Stock Items ○ Customizable

Non-Standard Customize Service

We have a strong capability of new product development, our knowledge and technology of cermet material derived from many years’ research and application, and willing to cooperate with customers to manufacture reliable cermet products suitable for different working conditions.

Notes

- ◆ 1、Cermets should be fully cooled during post-processing to avoid thermal cracks;
- ◆ 2、Cermets are recommended for dry cutting or air cooling in cutting applications;
- ◆ 3、The processing parameters of cermets are quite different to carbide materials, for more details please call our engineers.

NON-STANDARD CERMET PRODUCTS

Production Display

