SHAREATE

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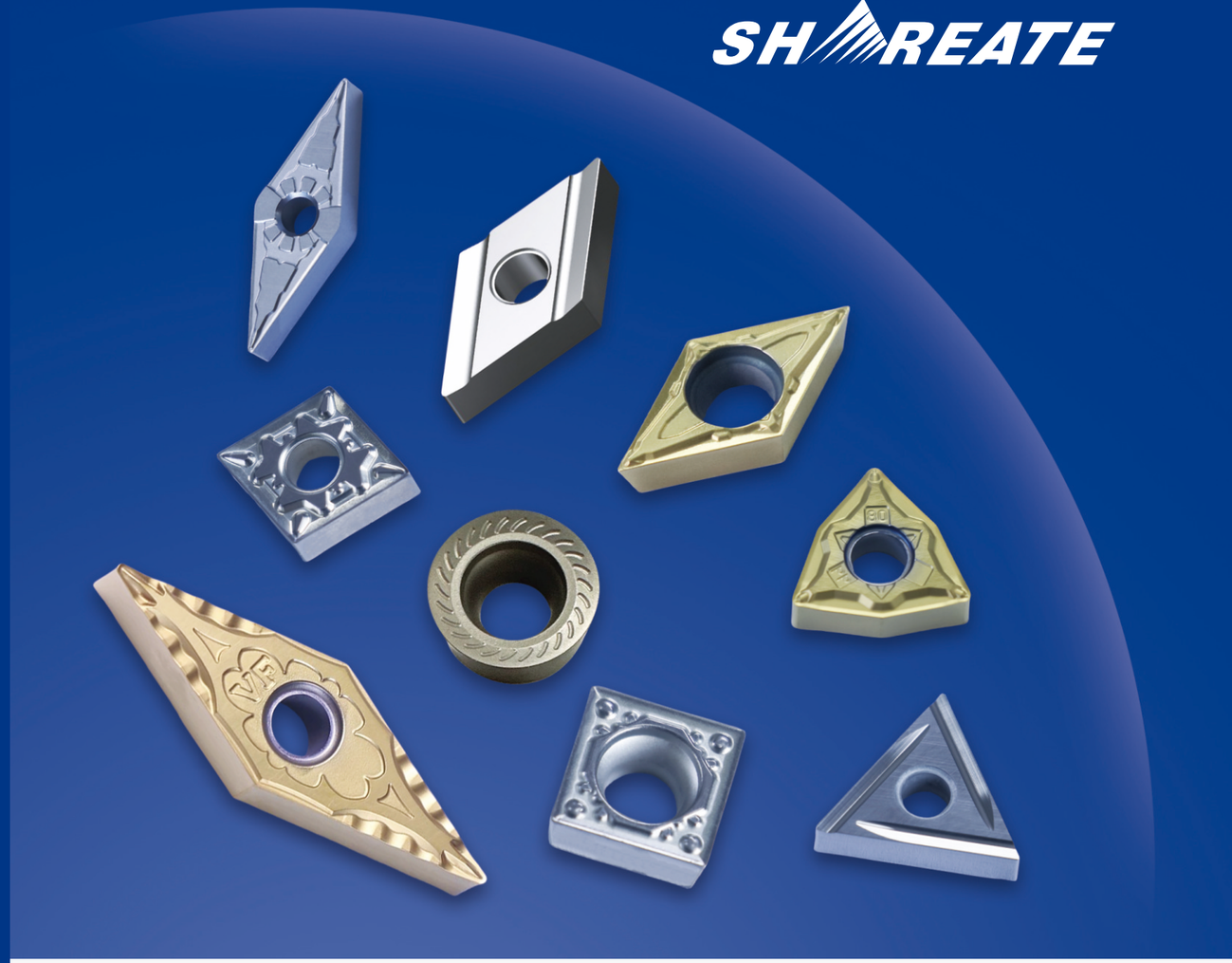
SHAREATE



CERMET MATERIALS AND CUTTING TOOLS

Shareate Tools Ltd.

COMPANY PROFILE

Shareate Tools Ltd. was founded in August 2005 as a multinational corporation engaged in the research and development, manufacturing, sales and services of cermet products, cemented carbide products, rock drilling tools and comprehensive mining services.

Shareate owns several domestic and overseas subsidiary companies, including Shareate Wuhan, Xinrui New Materials, Suzhou D&M, Zhuzhou Weco, Australia AMS, America AMS, and others, which were acquired or established through joint ventures. In October 2021, Shareate was officially listed on the SSE STAR Market.

Shareate has been granted 72 invention patents and 380 utility model patents. We are accredited with the API Spec Q1 and ISO 9001 certifications.

Our group company serves six fields: carbide, rock drilling tools, cutting tools, petroleum instrumentation, electric drilling equipment, and mining exploration services.

Our products are exported to 6 continents in more than 60 countries, including cemented carbide such as mining carbide, carbide rod, wear-resistant alloy and precision components, and rock drilling tools such as rotary drill bit series, dth drilling tool series, top hammer drilling tool series. These products find wide application in various industries such as petroleum engineering, automotive manufacturing, infrastructure construction, mining operations, electronics production, machinery fabrication, new energy development, and comprehensive mining consumables services.

Shareate as a leader in modern manufacturing and service integration, we operate state-of-the-art factories that adhere to the highest international standards, and work closely with customers worldwide to create best-in-class products and solutions to overcome the most challenging technical problems.

MANUFACTURING AND INSPECTION EQUIPMENT

Shareate has a large number of advanced manufacturing and inspection equipment, and has formed a product quality assurance model of design, development, production and service independently.

ALD Sintering Furnace

Dry-bag Isostatic Pressing Machine

Production Workshop

SEM/EDS

LECO Carbon Analyzer

INTRODUCTION

Nomenclature Explanation of Indexable Insert in ISO/ANSI

Code	Insert Shape
H	Regular hexagon
O	Regular octagon
P	Regular pentagon
S	Square
T	Equilateral triangle
C	Rhombus with 80° apex angle
D	Rhombus with 55° apex angle
E	Rhombus with 75° apex angle
F	Rhombus with 50° apex angle
M	Rhombus with 86° apex angle
V	Rhombus with 35° apex angle
W	Hexagon with equal sides but unequal angles
L	Rectangle
A	Parallelogram with 85° apex angle
B	Parallelogram with 82° apex angle
K	Parallelogram with 55° apex angle
R	Circle
X	Irregular shape

① Shape Code

Code	Tolerance (mm)		
	Height Difference of The Insert Tip	Thickness Tolerance	Inscribed Circle Tolerance
A	±0.005	±0.025	±0.025
F			±0.13
C	±0.013		±0.025
H			±0.13
E	±0.025		±0.025
G		±0.13	
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

*The marking indicates that it is an insert with unground side surfaces.

③ Tolerance Code

C	D	R	S	T	V	W	Circumcircle Diameter (mm)	IC Size (inch)	Code
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 Cutting Edge Length Code (ISO) | Circumcircle Diameter (mm) | ⑤ Circumcircle Diameter (ANSI)

ISO		ANSI	
Code	Thickness (mm)	Code	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

※ The thickness refers to the distance between the bottom surface of the blade and the highest point of the cutting edge.

⑥ Thickness Code

Code	Relief Angle	Diagram
A	3°	
B	5°	
C	7°	
D	15°	
E	20°	
F	25°	
G	30°	
N	0°	
P	11°	
O	Others	

② Relief Angle Code

Code	Hole	Hole Shape	Chip Breaker Groove	Cross-section
N	-	-	-	
R			Single-edged	
F			Double-edged	
A	√	Cylindrical hole	-	
M			Single-edged	
G			Double-edged	
W		Cylindrical hole Single-sided chamfer 40°-60°	-	
T			Single-edged	
Q		Cylindrical hole Double-sided chamfer 40°-60°	-	
U			Double-edged	
B		Cylindrical hole Single-sided chamfer 70°-90°	-	
H			Single-edged	
C		Cylindrical hole Double-sided chamfer 70°-90°	-	
J			Double-edged	
X	-	-	-	-

④ Groove / Hole Code

⑦ Code of the Tool Tip Arc			
ISO		ANSI	
Code	Nose Radius (mm)	Code	Thickness (inch)
00	No Fillet	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 Treatment Code		
Shape	Edge Grinding	Code
	Sharp Edge	F
	Rounded Edge	E
	Beveled Edge	T
	Dual-Treated Edge	S

⑨ Cutting Direction Code		
Shape	Cutting Directio	Code
	Right Hand	R
	Left Hand	L
	Left & Right	N

⑩ Chipbreaker Code for Insert

Chipbreaker Code for Main Cutting Edge

Other Customized Code

C N M G

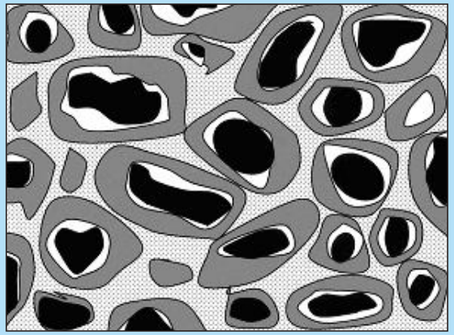
12 04 08 (E) (N) TM

Definition

Cermet represents a unique class of composite materials. It is composed of ceramic particles firmly bonded by a metal binder phase. This combination effectively marries the advantageous properties of ceramics, such as high hardness, excellent wear resistance, corrosion resistance, and remarkable high - temperature oxidation resistance, with the notable toughness characteristic of metals.

Application

The unique physical and chemical properties of Ti©, N)-based cermets render them highly promising materials for a diverse range of applications. These include cutting tools, molds for the 3C industry, high - temperature wear - resistant components, as well as special cutting blades designed for cables and chemical fibers, among others.



Ti(C,N) core Outer rim

Inner rim Binder

Microstructure schematic of cermet

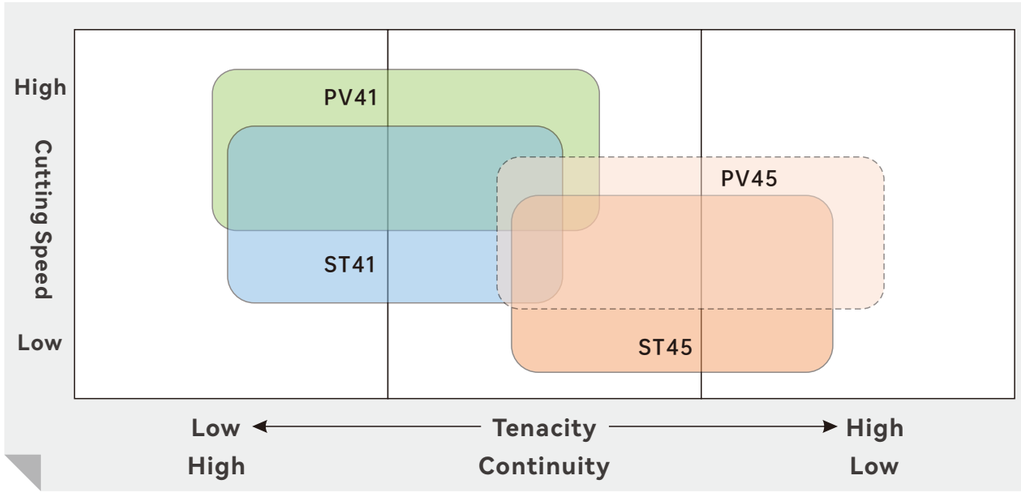
CERMET GRADE

Processing Material		Steel (Carbon Steel / Alloy Steel)					Stainless Steel / Cast Steel					Cast Iron (Grey Cast Iron / Ductile Cast Iron)			
Cutting Field		Finishing ⟷ Roughing					Finishing ⟷ Roughing					Finishing ⟷ Roughing			
Usage Classification		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 FEATURE

Usage Classification	Material Grade	Color	Coating Hardness	Coefficient of Friction	Coating Thickness	Oxidation Resistance Temperature	Application Range
P M K	Cermet	ST41	Bright Gray				• Cermet with strong versatility and high wear resistance. • Usage: Recommended for high-speed continuous machining of steel parts.
		ST45	Bright Gray				• Cermet with strong versatility and high wear resistance. • Usage: Recommended for stable machining of steel parts.
	PVD Cermet	PV41	Golden Yellow	3200	0.45	2-5	800	• High-wear-resistant cermet coating with balanced wear and anti-adhesion properties, applied using PVD technology. • Usage: Recommended for high-speed, durable machining of steel and alloy steel.
		PV45	Golden Yellow	3500	0.45	3-4	900	• Tough cermet coating with balanced wear resistance and anti-adhesion properties, applied using PVD technology. • Usage: Recommended for high-speed, durable machining of steel and alloy steel.

DIAGRAM OF APPLICABLE GRADES



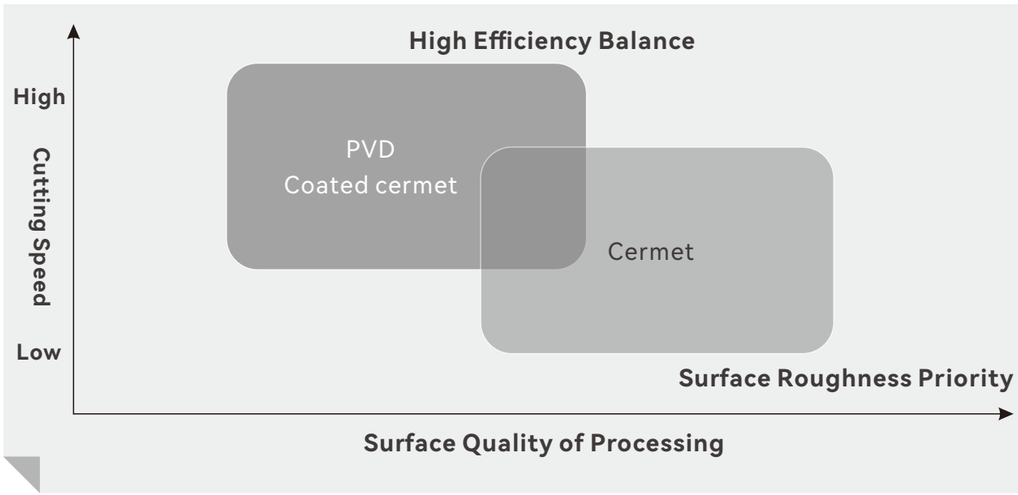
➢ Basic Grades (Uncoated cermet)

ST41: High wear-resistance cermet
ST45: Cermet with wear-resistance and impact resistance

➢ Coated Grades (PVD Coated cermet)

PV41: High-speed stable long-term cutting for steel parts
PV45: Cutting for steel parts under unstable conditions

GRADE APPLICABILITY RANGE



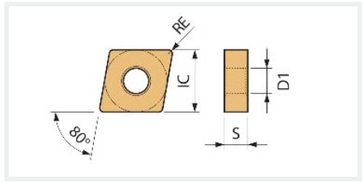
CERMET DIGITAL CUTTINGS

SIZE

Cermet Digital Cutting

CN

● In stock
○ Customizable

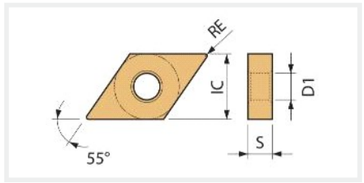


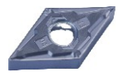
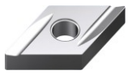
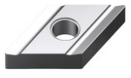
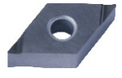
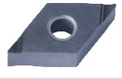
Appearance	Specification	Dimension			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	CNMG 120404 371	12.70	4.76	0.4	●	○	●	○
	CNMG 120408 371	12.70	4.76	0.8	●	○	●	○
	CNMG 120404 FG1	12.70	4.76	0.4	●	○	●	○
	CNMG 120408 FG1	12.70	4.76	0.8	●	○	●	○
	CNMG 120404 HQ1	12.70	4.76	0.4	●	○	●	○
	CNMG 120408 HQ1	12.70	4.76	0.8	●	○	●	○
	CNMG 120404 MS1	12.70	4.76	0.4	●	○	●	○
	CNMG 120408 MS1	12.70	4.76	0.8	●	○	●	○
	CNMG 120404 MT1	12.70	4.76	0.4	●	○	●	○
	CNMG 120408 MT1	12.70	4.76	0.8	●	○	●	○
	CNMG 120404 PP1	12.70	4.76	0.4	●	○	●	○
	CNMG 120408 PP1	12.70	4.76	0.8	●	○	●	○
	CNMG 120404 TS1	12.70	4.76	0.4	●	○	●	○
	CNMG 120408 TS1	12.70	4.76	0.8	●	○	●	○
	CNGG 120402 R/L H1	12.70	4.76	0.2	●	○	●	○
	CNGG 120404 R/L H1	12.70	4.76	0.4	●	○	●	○
	CNGG 120408 R/L H1	12.70	4.76	0.8	●	○	●	○
	CNGG 120402 R/L C1	12.70	4.76	0.2	●	○	●	○
	CNGG 120404 R/L C1	12.70	4.76	0.4	●	○	●	○
	CNGG 120408 R/L C1	12.70	4.76	0.8	●	○	●	○
	CNGG 120402 R/L P1	12.70	4.76	0.2	●	○	●	○
	CNGG 120404 R/L P1	12.70	4.76	0.4	●	○	●	○
	CNGG 120408 R/L P1	12.70	4.76	0.8	●	○	●	○
	CNGG 120402 R/L S1	12.70	4.76	0.2	●	○	●	○
	CNGG 120404 R/L S1	12.70	4.76	0.4	●	○	●	○
	CNGG 120408 R/L S1	12.70	4.76	0.8	●	○	●	○

Cermet Digital Cutting

DN

● In stock
○ Customizable

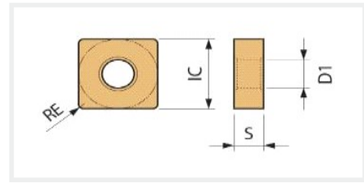


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	DNMG	150404 HQ1	12.70	4.76	0.4	●	○	●	○
		150408 HQ1	12.70	4.76	0.8	●	○	●	○
	DNMG	150404 R/L S1	12.70	4.76	0.4	●	○	●	○
		150408 R/L S1	12.70	4.76	0.8	●	○	●	○
	DNMG	150404 R/L VF1	12.70	4.76	0.4	●	○	●	○
			12.70						
	DNMG	150404 MT1	12.70	4.76	0.4	●	○	●	○
		150408 MT1	12.70	4.76	0.8	●	○	●	○
	DNMG	150404 PP1	12.70	4.76	0.4	●	○	●	○
		150408 PP1	12.70	4.76	0.8	●	○	●	○
	DNGG	110402 R/L C1	9.525	4.76	0.2	●	○	●	○
		110404 R/L C1	9.525	4.76	0.4	●	○	●	○
		110408 R/L C1	9.525	4.76	0.8	●	○	●	○
	DNGG	110402 R/L H1	9.525	4.76	0.2	●	○	●	○
		110404 R/L H1	9.525	4.76	0.4	●	○	●	○
		110408 R/L H1	9.525	4.76	0.8	●	○	●	○
	DNGG	110402 R/L S1	9.525	4.76	0.2	●	○	●	○
		110404 R/L S1	9.525	4.76	0.4	●	○	●	○
		110408 R/L S1	9.525	4.76	0.8	●	○	●	○
	DNGG	150402 R/L C1	12.70	4.76	0.2	●	○	●	○
		150404 R/L C1	12.70	4.76	0.4	●	○	●	○
		150408 R/L C1	12.70	4.76	0.8	●	○	●	○
	DNGG	150402 R/L S1	12.70	4.76	0.2	●	○	●	○
		150404 R/L S1	12.70	4.76	0.4	●	○	●	○
		150408 R/L S1	12.70	4.76	0.8	●	○	●	○
	DNGG	150402 R/L H1	12.70	4.76	0.2	●	○	●	○
		150404 R/L H1	12.70	4.76	0.4	●	○	●	○
		150408 R/L H1	12.70	4.76	0.8	●	○	●	○

Cermet Digital Cutting

SN

● In stock
○ Customizable

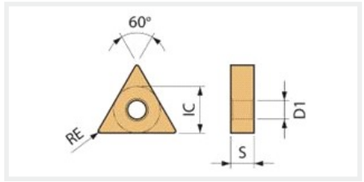


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	SNMG	120404 HQ1	12.70	4.76	0.4	●	○	●	○
		120408 HQ1	12.70	4.76	0.8	●	○	●	○
	SNMG	120404 MT1	12.70	4.76	0.4	●	○	●	○
		120408 MT1	12.70	4.76	0.8	●	○	●	○
	SNMG	120404 TS1	12.70	4.76	0.4	●	○	●	○
		120408 TS1	12.70	4.76	0.8	●	○	●	○
	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 Digital Cutting

TN

● In stock
○ Customizable



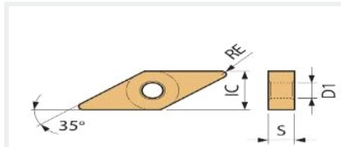
Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	TNMG	160404 371	9.525	4.76	0.4	●	○	●	○
		160408 371	9.525	4.76	0.8	●	○	●	○
	TNMG	160404 FG1	9.525	4.76	0.4	●	○	●	○
		160408 FG1	9.525	4.76	0.8	●	○	●	○
	TNMG	160404 HQ1	9.525	4.76	0.4	●	○	●	○
		160408 HQ1	9.525	4.76	0.8	●	○	●	○
		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	●	○	●	○

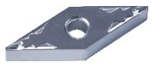
Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	TNGG	160402 R/L C1	9.525	4.76	0.2	●	○	●	○
		160404 R/L C1	9.525	4.76	0.4	●	○	●	○
		160408 R/L C1	9.525	4.76	0.8	●	○	●	○
		220402 R/L C1	12.70	4.76	0.2	●	○	●	○
		220404 R/L C1	12.70	4.76	0.4	●	○	●	○
		220408 R/L C1	12.70	4.76	0.8	●	○	●	○
	TNGG	160402 R/L P1	9.525	4.76	0.2	●	○	●	○
		160404 R/L P1	9.525	4.76	0.4	●	○	●	○
		160408 R/L P1	9.525	4.76	0.8	●	○	●	○
	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	●	○	●	○
		220404 R/L S1	12.70	4.76	0.4	●	○	●	○
	TNGG	160402 R/L F1	9.525	4.76	0.2	●	○	●	○
		160404 R/L F1	9.525	4.76	0.4	●	○	●	○
		160408 R/L F1	9.525	4.76	0.8	●	○	●	○

Cermet Digital Cutting

VN

● In stock
○ Customizable

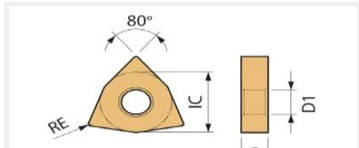


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	VNMG	160404 FG1	9.525	4.76	0.2	●	○	●	○
		160408 FG1	9.525	4.76	0.4	●	○	●	○
	VNMG	160404 HQ1	9.525	4.76	0.2	●	○	●	○
		160408 HQ1	9.525	4.76	0.4	●	○	●	○
	VNMG	160404 MS1	9.525	4.76	0.2	●	○	●	○
		160408 MS1	9.525	4.76	0.4	●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

Cermet Digital Cutting

WN

● In stock
○ Customizable



Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	WNMG	080404 371	12.70	4.76	0.4	●	○	●	○
		080408 371	12.70	4.76	0.8	●	○	●	○
	WNMG	080404 FG1	12.70	4.76	0.4	●	○	●	○
		080408 FG1	12.70	4.76	0.8	●	○	●	○
	WNMG	080404 HQ1	12.70	4.76	0.4	●	○	●	○
		080408 HQ1	12.70	4.76	0.8	●	○	●	○
		080412 HQ1	12.70	4.76		●	○	●	○
	WNMG	080404 R/L S1	12.70	4.76	0.4	●	○	●	○
		080408 R/L S1	12.70	4.76	0.8	●	○	●	○
	WNMG	080404 R/L VF1	12.70	4.76	0.4	●	○	●	○
		080408 R/L VF1	12.70	4.76	0.8	●	○	●	○
	WNMG	080404 MS1	12.70	4.76	0.4	●	○	●	○
		080408 MS1	12.70	4.76	0.8	●	○	●	○
	WNMG	080404 MT1	12.70	4.76	0.4	●	○	●	○
		080408 MT1	12.70	4.76	0.8	●	○	●	○
	WNMG	080402 PP1	12.70	4.76	0.2	●	○	●	○
		080404 PP1		4.76	0.4	●	○	●	○
		080408 PP1		4.76	0.8	●	○	●	○
	WNMG	080404 TS1	12.70	4.76	0.4	●	○	●	○
		080408 TS1	12.70	4.76	0.8	●	○	●	○
	WNMG	080404 TSF1	12.70	4.76	0.4	●	○	●	○
		080408 TSF1	12.70	4.76	0.8	●	○	●	○
	WNGG	060404 R/L C1	9.525	4.76	0.4	●	○	●	○
		060408 R/L C1	9.525	4.76	0.8	●	○	●	○
		080404 R/L C1	12.70	4.76	0.4	●	○	●	○
		080408 R/L C1	12.70	4.76	0.8	●	○	●	○
	WNGG	060404 R/L S1	9.525	4.76	0.4	●	○	●	○
		060408 R/L S1	9.525	4.76	0.8	●	○	●	○
		080404 R/L S1	12.70	4.76	0.4	●	○	●	○
		080408 R/L S1	12.70	4.76	0.8	●	○	●	○

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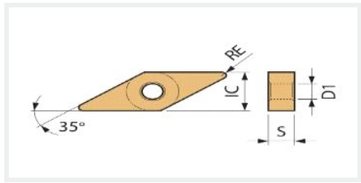
CC

● In stock
○ Customizable



Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	CCMT	060202 FA1	6.35	2.38	0.2	●	○	●	○
		060204 FA1	6.35	2.38	0.4	●	○	●	○
		09T302 FA1	9.525	3.97	0.2	●	○	●	○
		09T304 FA1	9.525	3.97	0.4	●	○	●	○
		09T308 FA1	9.525	3.97	0.8	●	○	●	○
	CCMT	060202 PS1	6.35	2.38	0.2	●	○	●	○
		060204 PS1	6.35	2.38	0.4	●	○	●	○
		060208 PS1	6.35	2.38	0.8	●	○	●	○
		09T302 PS1	9.525	3.97	0.2	●	○	●	○
		09T304 PS1	9.525	3.97	0.4	●	○	●	○
		09T308 PS1	9.525	3.97	0.8	●	○	●	○
	CCMT	060204 241	6.35	2.38	0.4	●	○	●	○
		09T304 241	9.525	3.97	0.4	●	○	●	○
		09T308 241	9.525	3.97	0.8	●	○	●	○
	CCMT	060204 FG1	6.35	2.38	0.4	●	○	●	○
		09T304 FG1	9.525	3.97	0.4	●	○	●	○
		09T308 FG1	9.525	3.97	0.8	●	○	●	○
	CCMT	060202 HQ1	6.35	2.38	0.2	●	○	●	○
		060204 HQ1	6.35	2.38	0.4	●	○	●	○
		09T302 HQ1	9.525	3.97	0.2	●	○	●	○
		09T304 HQ1	9.525	3.97	0.4	●	○	●	○
		09T308 HQ1	9.525	3.97	0.8	●	○	●	○
	CCMT	060204 MT1	6.35	2.38	0.4	●	○	●	○
		09T304 MT1	9.525	3.97	0.4	●	○	●	○
		09T308 MT1	9.525	3.97	0.8	●	○	●	○
	CCMT	060202 PP1	6.35	2.38	0.2	●	○	●	○
		060204 PP1	6.35	2.38	0.4	●	○	●	○
		09T302 PP1	9.525	3.97	0.2	●	○	●	○
		09T304 PP1	9.525	3.97	0.4	●	○	●	○
		09T308 PP1	9.525	3.97	0.8	●	○	●	○

Appearance	Specification		Dimension			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 Dull Edg 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	●	○	●	○

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DC

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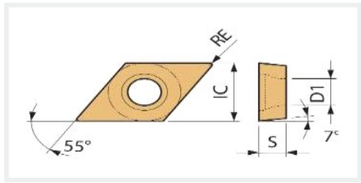
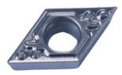
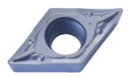
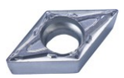
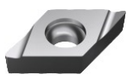


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	DCMT	070202 HQ1	6.35	2.38	0.2	●	○	●	○
		070204 HQ1	6.35	2.38	0.4	●	○	●	○
		070208 HQ1	6.35	2.38	0.8	●	○	●	○
		11T302 HQ1	9.525	3.97	0.4	●	○	●	○
		11T304 HQ1	9.525	3.97	0.4	●	○	●	○
		11T308 HQ1	9.525	3.97	0.8	●	○	●	○
	DCMT	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	●	○	●	○

Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
 *E Dull Edg 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	●	○	●	○

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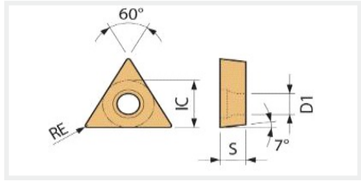
TC

● In stock
○ Customizable



Appearance	Specification		Dimension			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	●	○	●	○

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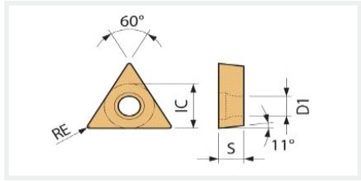
TP

● In stock
○ Customizable

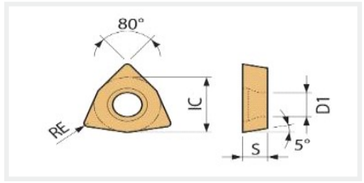


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	TPMT	110302 FG1	6.35	3.18	0.2	●	○	●	○
		110304 FG1	6.35	3.18	0.4	●	○	●	○
	TPMT	090204 HQ1	6.35	2.38	0.4	●	○	●	○
		110302 HQ1	6.35	3.18	0.2	●	○	●	○
		110304 HQ1	6.35	3.18	0.4	●	○	●	○
		110308 HQ1	6.35	3.18	0.8	●	○	●	○
	TPMT	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	●	○	●	○
		110308 PP1	6.35	3.18	0.8	●	○	●	○
	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	●	○	●	○
		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 Digital Cutting

WB

● In stock
○ Customizable

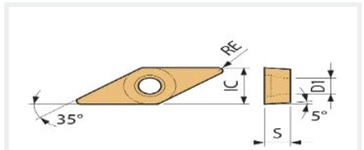


Appearance	Specification	Dimension			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	WBMT 060102 L DP1	3.97	1.59	0.2	●	○	●	○
	060104 L DP1	3.97	1.59	0.4	●	○	●	○
	WBGT 060102 R/L F1	3.97	1.59	0.2	●	○	●	○
	060104 R/L F1	3.97	1.59	0.4	●	○	●	○

Cermet Digital Cutting

VB

● In stock
○ Customizable



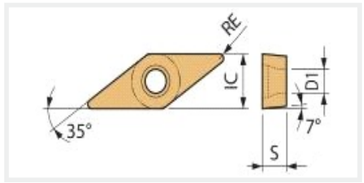
Appearance	Specification	Dimension			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	VBMT 110302 PP1	6.35	3.18	0.2	●	○	●	○
	110304 PP1	6.35	3.18	0.4	●	○	●	○
	110308 PP1	6.35	3.18	0.8	●	○	●	○
	160404 PP1	9.525	4.76	0.4	●	○	●	○
	160408 PP1	9.525	4.76	0.8	●	○	●	○
	VBMT 110302 VF1	6.35	3.18	0.2	●	○	●	○
	110304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

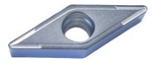
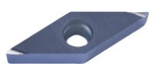
Appearance	Specification	Dimension			Grade			
		I.C	S	Re	ST41	ST45	PV41	PV45
	VBMT 160404 MT1	9.525	4.76	0.4	●	○	●	○
	160408 MT1	9.525	4.76	0.8	●	○	●	○
	VBMT 110302 PS1	6.35	3.18	0.2	●	○	●	○
	110304 PS1	6.35	3.18	0.4	●	○	●	○
	110308 PS1	6.35	3.18	0.8	●	○	●	○
	160404 PS1	9.525	4.76	0.4	●	○	●	○
	160408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

Cermet Digital Cutting

VC

● In stock
○ Customizable

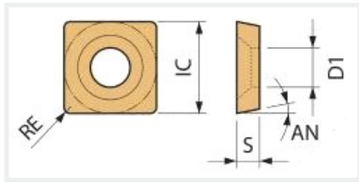


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	VCMT	110304 HQ1	6.35	3.18	0.4	●	○	●	○
	VCMT	110304 SL1	6.35	3.18	0.4	●	○	●	○
		160404 SL1	9.525	4.76	0.4	●	○	●	○
		160408 SL1	9.525	4.76	0.8	●	○	●	○
	VCMT	080202 PP1	4.76	2.38	0.2	●	○	●	○
		080204 PP1	4.76	2.38	0.4	●	○	●	○
		160404 PP1	9.525	4.76	0.4	●	○	●	○
		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	●	○	●	○
		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	●	○	●	○
		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	●	○	●	○
		160408 R/L Y1	9.525	4.76	0.8	●	○	●	○

Cermet Digital Cutting

SC

● In stock
○ Customizable

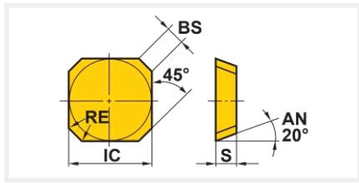


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	SCMT	09T304 HQ1	9.525	3.97	0.4	●	○	●	○
		09T308 HQ1	9.525	3.97	0.8	●	○	●	○
	SCMT	09T304 MT1	9.525	3.97	0.4	●	○	●	○
		09T308 MT1	9.525	3.97	0.8	●	○	●	○
	SCMT	09T304 PS1	9.525	3.97	0.4	●	○	●	○
		09T308 PS1	9.525	3.97	0.8	●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

Cermet Digital Cutting

SE

● In stock
○ Customizable

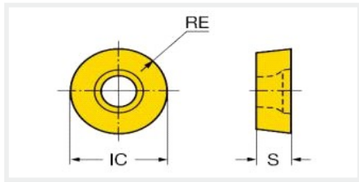


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	SEEN	1203 AFTN1	12.70	3.18	1.00	●	○	●	○
		1504 AFTN1	15.875	4.76	1.00	●	○	●	○

Cermet Digital Cutting

RC

● In stock
○ Customizable

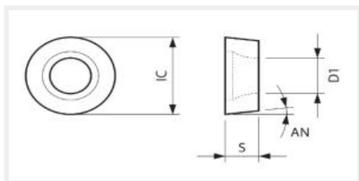


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	RCKT	10T3 M0 WM1	10.0	3.18	5.0	●	○	●	○
		1204 M0 WM1	12.0	4.76	6.0	●	○	●	○
	RCMM	0502 M0 611	5.0	2.38	5.0	●	○	●	○
		0602 M0 611	6.0	2.38	5.0	●	○	●	○
		1003 M0 611	10.0	3.18	6.0	●	○	●	○
		1204 M0 611	12.0	4.76	6.0	●	○	●	○
	RCMT	0502 M0 611	5.0	2.38	5.0	●	○	●	○
		0602 M0 611	6.0	2.38	5.0	●	○	●	○
		0803 M0 611	8.0	3.18	8.0	●	○	●	○

Cermet Digital Cutting

RP

● In stock
○ Customizable

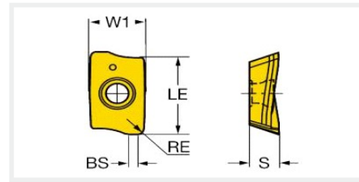


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	RPMT	1203 M01	12.0	3.18	5.0	●	○	●	○
		1604 M01	16.0	4.76	8.0	●	○	●	○

Cermet Digital Cutting

R390

● In stock
○ Customizable

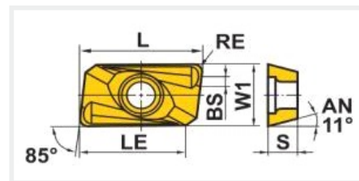


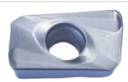
Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	R390	11T308 M PL1	6.80	2.8	0.8	●	○	●	○
	R390	11T308 M PM1	6.80	2.8	0.8	●	○	●	○

Cermet Digital Cutting

AP

● In stock
○ Customizable

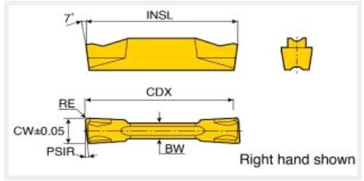


Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	APMT	1135 PDER1	11.3	9.0	3.5	●	○	●	○
		1604 PDER1	17.1	14.0	4.76	●	○	●	○
	APMT	1135 PDER H21	11.3	9.0	3.5	●	○	●	○
		1604 PDER H21	17.1	14.0	4.76	●	○	●	○

Cermet Digital Cutting

MG

● In stock
○ Customizable

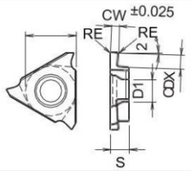


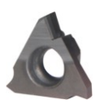
Appearance	Specification		Dimension			Grade			
			I.C	S	Re	ST41	ST45	PV41	PV45
	MGMN	150 G1	18.5	2.5	0.2	●	○	●	○
		200 G1	21.0	3.0	0.3	●	○	●	○
		250 G1	21.0	4.80	0.3	●	○	●	○
		300 G1	21.0	4.80	0.3	●	○	●	○
	MGMN	200 M1	16.0	2.0	0.2	●	○	●	○
		250 M1	18.5	2.5	0.2	●	○	●	○
		300 M1	21.0	3.0	0.3	●	○	●	○
	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

Cermet Digital Cutting

TGF

● In stock
○ Customizable

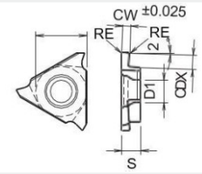


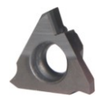
Appearance	Specification		Dimension				Grade			
			I.C	Re	CW	CDX	ST41	ST45	PV41	PV45
	TGF	32 R/L 033	9.525	0.05	0.33	0.8	●	○	●	○
		32 R/L 050	9.525	0.05	0.50	1.2	●	○	●	○
		32 R/L 075	9.525	0.10	0.75	2.0	●	○	●	○
		32 R/L 095	9.525	0.10	0.95	2.0	●	○	●	○
		32 R/L 100	9.525	0.10	1.00	2.0	●	○	●	○
		32 R/L 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 Digital Cutting

GBA

● In stock
○ Customizable



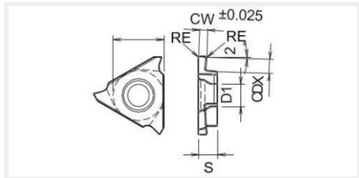
Appearance	Specification		Dimension				Grade			
			I.C	Re	CW	CDX	ST41	ST45	PV41	PV45
	GBA	32 R/L 033	9.525	0.05	0.33	1.0	●	○	●	○
		32 R/L 050	9.525	0.05	0.50	1.0	●	○	●	○
		32 R/L 075	9.525	0.05	0.75	2.0	●	○	●	○
		32 R/L 095	9.525	0.05	0.95	2.0	●	○	●	○
		32 R/L 100	9.525	0.05	1.00	2.0	●	○	●	○
		32 R/L 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 Digital Cutting

GBA

● In stock

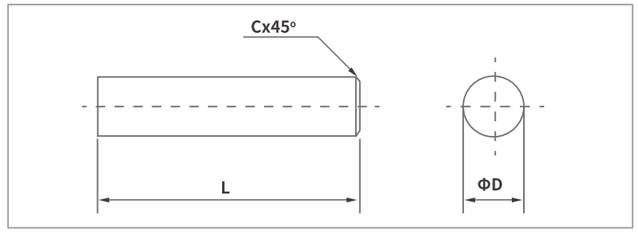
○ Customizable



Appearance	Specification	Dimension				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 ROD

SIZE



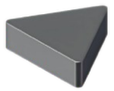
Shareate is capable of offering a variety of roughing or grinding rods in multiple sizes tailored to our customers' specific needs. The options available include:

Dimension			Diameter Precision	
Diameter (ΦD)	Length(L) (Tol.+0.5/+1.0)	Chamfer Dimension(C) (Tol.±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	Model	Dimension (mm)			Grade	
		Incircle (I.C)	Thickness (S)	Tip 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	○	●

● In stock ○ Customizable

Appearance	Model	Dimension (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	○	●

● In stock ○ Customizable

CERMET SAW BLADE WITH GRAIN

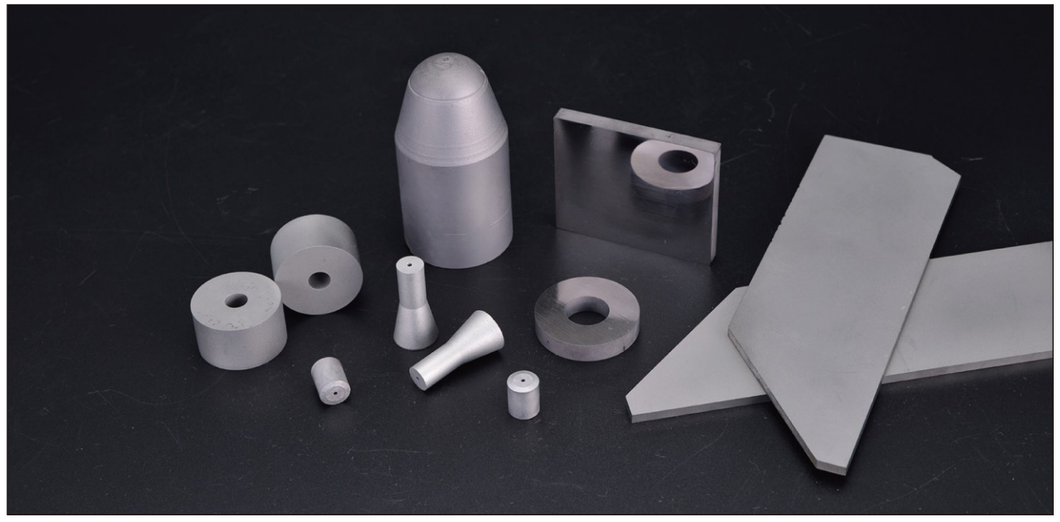
SIZE

Appearance	Specification	Dimension (mm)			Grade	
		Length (S)	Thickness (S)	Tip Radius (Re)	ST41	ST45
	L-W-T(θ°)	定制	定制	定制	●	○

● In stock ○ Customizable

NON-STANDARD CERMET PRODUCTS

Product Display



Customized to Non-Standard

We possess a robust capability in new product development, underpinned by our extensive knowledge and advanced technology in cermet materials. These insights have been refined through years of dedicated research and practical application. We are eager to collaborate with customers to produce reliable cermet products tailored to meet the demands of diverse working conditions.

Notes

- 1. Cermet should be fully cooled during post-processing to prevent heat concentration from causing thermal cracking.
- 2. Dry cutting or air cooling is recommended for cermet applications to ensure optimal performance.
- 3. The processing parameters for cermet differ significantly from those of conventional carbide materials. For detailed guidance, please contact our engineers.