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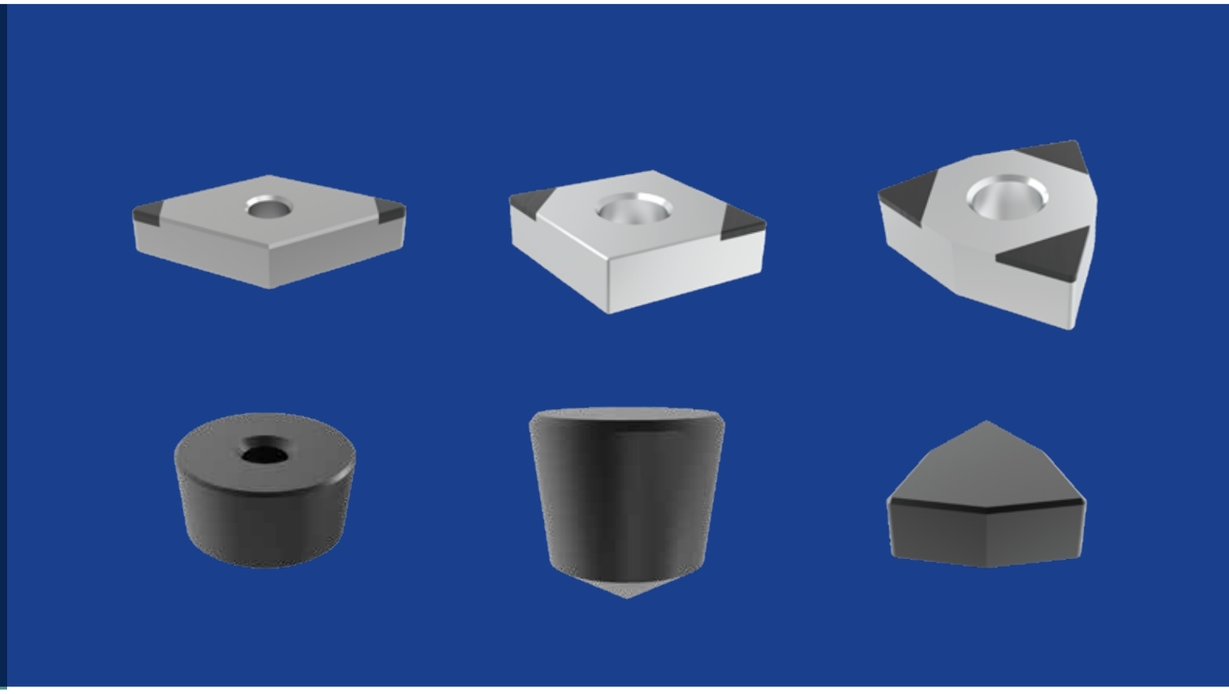

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CATALOGUE

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- COMPANY PROFILE
- COMPANY DEVELOPMENT HISTORY
- PRODUCT PRODUCTION CAPACITY DISPLAY
- INTRODUCTION TO JOYJET INSERTS
- CBN INSERTS
- CVD INSERTS
- PCD INSERTS
- CERAMIC INSERTS
- CUSTOMIZED CUTTING TOOLS
- RAW MATERIAL BLANKS
- AFTER-SALES SERVICE
- CLIENTS WE SERVE

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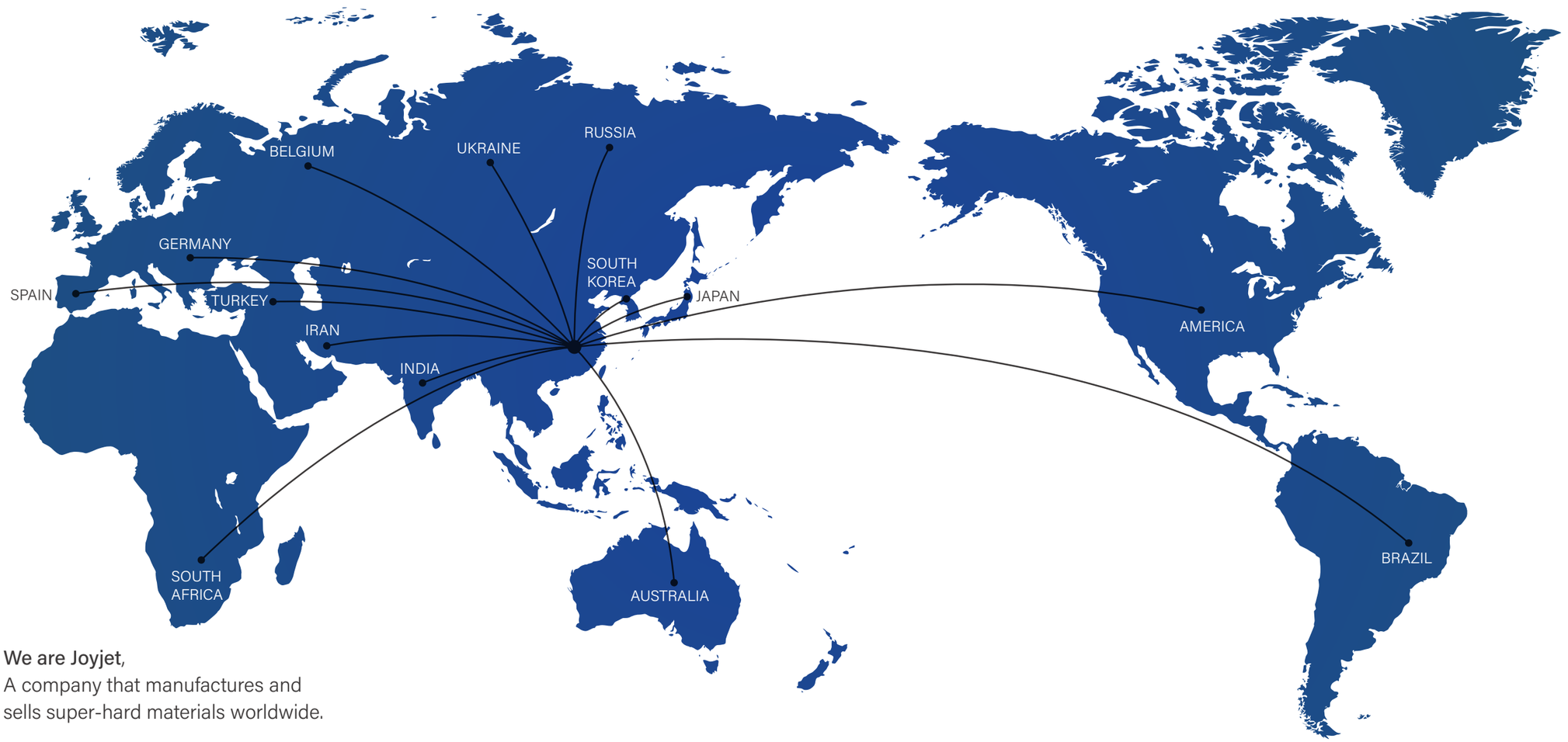
COMPANY PROFILE

On the path to excellence, we continuously drive technological advancements and strive to bring innovation to the cutting tool industry.

We firmly believe that by providing high-quality cutting solutions, we can meet the needs of our customers and create a better future.



We are Joyjet,
A company that manufactures and sells super-hard materials worldwide.

Joyjet, in ancient times, was used as a tinder to ignite flames. We have bestowed this symbolic name upon our company to convey our pursuit of innovation and progress.

The hardness and wear resistance of joyjet perfectly mirror our unwavering commitment to excellence.

Our main products include PCD tools, CBN tools, CVD tools, and ceramic tools.

JOYJET We sincerely invite you to join Joyjet's journey and together create exceptional experiences.

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COMPANY DEVELOPMENT HISTORY

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2018

- 2018, Joyjet established the JOYJET Technology Research and Development Center, focusing on super-hard materials and tools, with a particular emphasis on diamonds represented by PCD and PDC, as well as CBN.

2019

- 2013, we successfully manufactured our first Oil PDC cutter.

2020

- 2020, our PCD and CBN inserts were launched.

2020

- 2020, we introduced our HPHT lab rough diamond, with a maximum size of up to 8 carats.

2022

- 2022, we mastered the DCCVD process and introduced thick-film diamonds with a maximum diameter of 100mm.

2023

- 2023, we launched super-hard grinding wheels, specializing in outer circle grinding and flat grinding with diamond and CBN wheels.

2024

- 2024, we deployed 150 MPCVD devices and established a single crystal diamond production line.

2025

- 2025, Joyjet collaborated with Indian factory for diamond processing.

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PRODUCT PRODUCTION CAPACITY DISPLAY

01

PRODUCTION EQUIPMENT

In modern manufacturing, PCD cutting tools have gained widespread application in high-efficiency and high-precision machining domains. We take immense pride in introducing our cutting-edge technology that combines a Hexahedron press, micro-powder production equipment, fully automatic CNC grinding centers, and 3D laser processing centers. Through this advanced and integrated approach, we are passionately committed to creating top-tier PCD cutting tools, enabling you to distinguish yourself in the competitive market.

With our hexahedron pressing technique, we have the capability to evenly embed high-quality polycrystalline diamond particles onto the inserts body, guaranteeing the blade's outstanding strength and resilience.

With the implementation Powder Press Machine, we possess the capability to accurately control the size and shape of diamond micro-powder. This meticulous control results in a cutting-edge performance of the inserts, characterized by enhanced precision and stability during cutting operations.

With the implementation Powder Press Machine, we possess the capability to accurately control the size and shape of diamond micro-powder. This meticulous control results in a cutting-edge performance of the inserts, characterized by enhanced precision and stability during cutting operations.

Leveraging cutting-edge 3D laser processing technology, we achieve micron-level cutting and engraving on the blade surface, elevating wear resistance and ensuring long-lasting stability.

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INSPECTION EQUIPMENT

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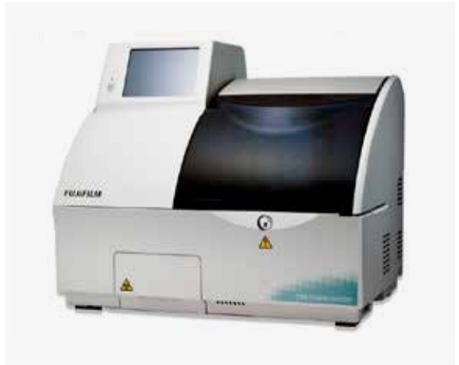
We are committed to providing high-quality PCD cutting tools. To ensure that the performance and quality of the tools meet your requirements, we employ the following standardized testing methods:



CRYSTALLOGRAPHY AND COLOR EXAMINATION

Through the use of microscopy and spectrometers, we inspect the surface crystallography and color of the cutting tools to ensure excellent crystal structure and consistent color.

COMPOSITION AND PURITY TESTING

We utilize advanced chemical analysis equipment to examine the composition and purity of diamond particles and matrix materials in the cutting tools, ensuring material quality and stability.

PARTICLE SIZE ANALYSIS

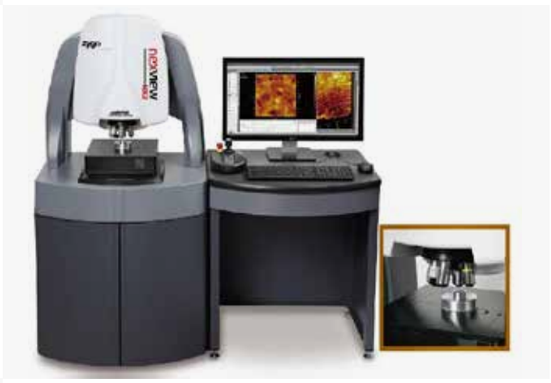
We use a particle size analyzer to measure the size of diamond particles in the tools, guaranteeing uniformity and precision.

BULK DENSITY TESTING

The use of bulk density testers allows us to evaluate the bulk density of diamond particles in the tools, ensuring high density and strength.

SURFACE STRUCTURE INSPECTION

We employ microscopy and surface profilometers to assess the structure and quality of the cutting tool surfaces, ensuring smoothness and consistency.



IMPACT TOUGHNESS AND THERMAL SHOCK RESISTANCE EVALUATION

By employing impact testing machines and thermal shock test equipment, we assess the impact toughness and thermal shock resistance of the tools to ensure stability under high loads and temperatures.

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General Cutting Tool Dimensions and Edge Inspection

Utilizing precision measuring instruments, we inspect the dimensions and cutting edge of the tools to ensure accuracy and consistency.

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Non-Standard Cutting Tool Dimensions and Edge Inspection

For custom-made tools, we use coordinate measuring machines and other equipment to inspect non-standard dimensions and edges, meeting specific processing requirements.

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Internal Structure Examination

We use transmission electron microscopes and other equipment to examine the internal structure and quality of the cutting tools, ensuring stability and reliability.

Composite Material Toughness Testing

We employ composite material toughness testers to evaluate the toughness and strength of the cutting tools' composite materials, ensuring performance under complex conditions.

Coating Thickness Inspection

The use of coating thickness gauges allows us to check the thickness of surface coatings on the cutting tools, ensuring uniformity and consistency.

Hardness Testing

We use hardness testers to measure the hardness of the cutting tools, ensuring sufficient hardness and wear resistance.

Coating Adhesion Strength Testing

We use adhesion testers to assess the binding strength between the surface coatings and the substrate of the cutting tools.

Through these rigorous testing and evaluation processes, we ensure that each PCD cutting tool exhibits outstanding performance and quality, providing exceptional support for your machining needs.

03

MANUFACTURING PROCESS

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SUPER HARD NANO POWDER PROCESS

The manufacturing process commences with the production of super hard nano powder. This phase involves the synthesis of diamond nanoparticles using cutting-edge techniques to achieve the desired level of purity and precise particle size.

MICRO POWDER + BINDER PROCESS

The nano powder is subsequently homogeneously mixed with a carefully selected binder material. This binder plays a crucial role in maintaining the cohesion of diamond particles during the subsequent stages of production.

HIGH-TEMPERATURE HIGH-PRESSURE SYNTHESIS

The blended powder and binder are subjected to high-temperature high-pressure (HTHP) conditions in a specialized press. This HTHP synthesis process facilitates the sintering of diamond particles and binder, leading to the formation of a compacted PCD blank.

PRECISION GRINDING AND MACHINING

The PCD blank undergoes meticulous precision grinding and machining using advanced CNC (Computer Numerical Control) machines. This step ensures that the PCD blank achieves the exact dimensions and geometric specifications required for the final cutting tool.

QUALITY INSPECTION

Rigorous quality inspection procedures are conducted on the machined PCD blanks. This comprehensive evaluation includes various tests such as composition analysis, dimensional checks, hardness testing, and other meticulous quality control measures. The goal is to ascertain that the PCD blanks meet the precise specifications and required standards.

Finished Super hard Cutting Tools:Once the PCD blanks successfully pass the stringent quality inspection, they are deemed as finished super hard cutting tools. These cutting tools are now ready for deployment in various cutting and machining applications.

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MANAGEMENT REGULATION

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The company's production site adheres to the 6S management methodology

By implementing standardized management processes in each production stage, the method ensures product quality stability.

WHICH INCLUDES SORT (SEIRI)

SAFETY

SET IN ORDER (SEITON)

SUSTAIN (SHITSUKE)

SHINE (SEISO)

STANDARDIZE (SEIKETSU)

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Shape Code	Insert	Insert shape	Angle
S	■	SQUARE	90°
T	▲	EQUILATERAL TRIANGLE	60°
C			80°
D	◆	RHOMBUS (diamond shape)	55°
E			75°
M			86°
V			35°
W	⬟	CONVEX TRIANGLE	80°
H	⬣	REGULAR HEXAGON	120°
O	⬢	REGULAR OCTAGON	135°
P	⬟	REGULAR PENTAGON	108°
L	▬	RECTANGLE	90°
A	▰	PARALLELOGRAM	85°
B			82°
N/K			55°
R	●	CIRCLE	-

Insert Shape

The Edges Are Even

The Edges Are Add

Insert With Smooth Edges

Code	Insert Tip Height Tolerance (mm)	Inscribed Circle Tolerance ØI.C(mm)	Thickness Tolerance S (mm)	Product Identification Number	Insert Tip Height Tolerance (mm)	Inscribed Circle Tolerance ØI.C(mm)	Thickness Tolerance S(mm)
A	±0.005	±0.025	±0.025	J	±0.005	±0.05-±0.13	±0.025
F	±0.005	±0.013	±0.025	K	±0.013		±0.025
C	±0.013	±0.025	±0.025	L	±0.025	±0.05-±0.13	±0.025
H	±0.013	±0.013	±0.025	M	±0.08-±0.18	±0.05-±0.13	±0.13
E	±0.025	±0.025	±0.025	N	±0.08-±0.18	±0.05-±0.13	±0.025
G	±0.025	±0.025	±0.13	U	±0.13-±0.38	±0.08-±0.25	±0.13

Accuracy Class

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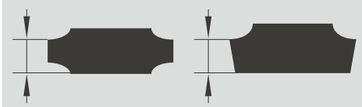
Inscribed circle (mm)	Cutting edge length C	D	S	T	V	W	R
3.97				06			03
4.76				08			04
5.0							05
5.56				09	09		05
6.0							06
6.35				11	11	04	06
7.94							07
8.0	06	07	06				08
9.525	08	09		16	16	06	09
10.0							10
12.0	09	11	09				12
12.7				22	22	08	12
15.875				27			15
16.0	12	15	12				16
19.05	16		15	33			19
20.0		19					20
25.0	19		19				25
25.4							25
31.75	25	25					31
32.0			25				32

Insert Size



Thickness is the height between the bottom surfaceof the insert and the highest part of the cutting edge.

Code	Inserts Thickness (mm)	Product Identification Number	Inserts Thickness (mm)
01	1.59	06	6.35
T1	1.98	07	7.94
02	2.38	08	8.0
T2	2.58	09	9.52
03	3.18	10	10.0
T3	3.97	11	11.11
04	4.76	12	12.0
05	5.56	12	12.70

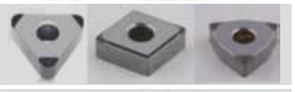
(mm)Insert Thickness

Code	Insert Tip Radius(mm)
00	Non-Rounded or Rectangular Inserts
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
32	3.2
X	other

Insert Tip Radius Code

INTRODUCTION TO JOYJET INSERTS

01 NAMING CONVENTION

INSERT MATERIALS		
SCZ	IMPACT-RESISTANT SOLID INSERT CBN	
SCM	DOUBLE LAYERS COMPOSITE BRAZED INSERT CBN	
SCN	SINGLE-LAYERS COMPOSITE BRAZED INSERT CBN	
SCG	BRAZED SOLID TIP INSERT CBN	
SCX	SPECIAL CUSTOMIZATION	
SP	PCD (POLYCRYSTALLINE DIAMOND)	
SM	CVD DIAMOND	
ST	CERAMICS	

EDGE DESIGNATION	
1	ONE EDGE
2	TWO EDGES
3	THREE EDGES
4	FOUR EDGES
6	SIX EDGES

INSERT RELIEF ANGLE	
CODE	RELIEF ANGLE
N	0°
A	3°
B	5°
C	7°
P	11°
D	15°
E	20°
F	25°
G	30°
O	OTHER RELIEF ANGLE

SCN | 2 | C | N | M | G | 12 | 04 | 08 | C01

CHIP BREAKER AND CLAMPING FORM							
CODE	WITH OR WITHOUT HOLE AND HOLE SHAPE	CHIP BREAKER	SKETCH MAP CODE	WITH OR WITHOUT HOLE AND HOLE SHAPE	CHIP BREAKER	SKETCH MAP
N	Non	Non chip breaker	B	Single side with70°-90° counter bore	Non chip breaker	
R		Single side with chip breaker	H		Single side with chip breaker	
F		Single side with chip breaker	C	Double side with 70°-90° counter bore	Non chip breaker	
A	Round and straight hole	Non chip breaker	J		Double sides with chip breaker	
M		Single side with chip breaker	O	Fastening dimple	Roundness	
G		Single side with chip breaker				
W	Single side with 40°-60° counter bore	Non chip breaker	S		Square-shaped	
T		Single side with chip breaker				
Q	Double side with 40°-60° counter bore	Non chip breaker	L		Long strip	
U		Single side with chip breaker	X			
				Other forms of fixing and chip breaker shall be illustrated by drawings		

SML Material code
C01
C02
C03
C04
P01
P02
P03
P04
TN5
TC4
TT3
TN2

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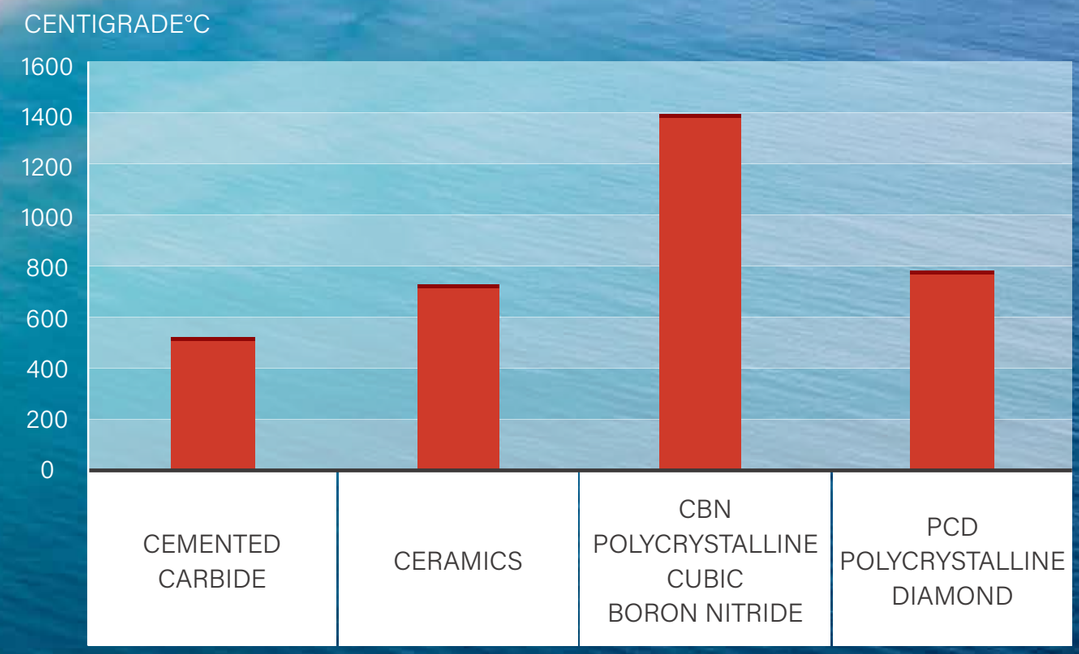
HEAT RESISTANCE COMPARISON OF KEY INSERTS MATERIALS



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JOYJET'S CBN SUPER HARD INSERTS APPLICATION CASE IN THE AUTOMOTIVE INDUSTRY

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Workpiece Name: Brake Disc
Workpiece Material: HT250,
Hardness: HB200
Selected Insert: SCZ CNGN120712 C01
Cutting Parameters: ap=2-3mm
f=0.6-0.8mm/r

Inserts Comparison Japanese series Cemented carbide	Cutting speed Vc 300m/min	Efficiency 5min/pcs	Product lifetime 100pcs/cutting edge
CBN/Joyjet's CBN	800m/min	1min/pcs	800pcs/cutting edge

The efficiency of Joyjet's CBN inserts is 5 times that of XXX brand, and their lifespan is 5 times longer.

Workpiece Name: Brake Drum
Workpiece Material: HT250,
workpiece hardness: HB190-210
Selected Insert: SCZ CNMN120716 C01
Cutting Parameters: ap=2-3mm
f=0.45mm/r

Inserts Comparison Japanese series Cemented carbide	Cutting speed Vc 280m/min	Efficiency 12min/pcs	Product lifetime 10pcs/cutting edge
Joyjet's CBN	680m min	3min pcs	80pcs cutting edge

The efficiency of Joyjet's CBN inserts is 4 times that of XXX brand and their lifespan is 9 times longer.

CBN INSERTS

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ADVANTAGES OF CBN INSERTS:

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Joyjet's CBN inserts offer excellent cost-effectiveness, with a lifespan over 10 times longer than cemented carbide inserts at a price increase of 6-8 times. They provide 5-10 times higher processing efficiency, significantly boosting production capacity and reducing fixed investment. Achieving superior surface quality comparable to grinding, these inserts minimize equipment investment. Their exceptional versatility allows for both dry and wet cutting applications, while a single type can process multiple materials.

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JOYJET'S INNOVATIVE CBN SUPER HARD INSERTS GRADES AND THEIR INDUSTRY APPLICATIONS

SML Materials Code	Machining Method	Processed Materials	Characteristics	Suitable Industries
C01	Rough Machining	Excellent impact resistance and wear resistance are balanced. High nickel-chromium high-hardness alloy cast iron Gray cast iron High manganese steel	High impact resistance Low wear resistance	Rolls slurry pumps brake discs rolling sidewalls.
	Rough Machining	Excellent impact resistance and wear resistance are balanced. High nickel-chromium high-hardness alloy cast iron Gray cast iron High manganese steel	High impact resistance Low wear esistance	Rolls slurry pumps brake discs rolling sidewalls.
C02	Semi-precision machining Precision machining	Exceptional comprehensive performance, exhibiting versatile applicability; suitable for machining gray cast iron, hard cast iron, and quenched and tempered steel with ahardness greater than 45HRC	Moderate impact resistance Moderate wear resistance	Brake discs brake drums compressor parts gears bearings.
C03	rough machining Precision machining	Excellent Wear Resistance Gray Cast Iron	High Impact Resistance Low Wear Resistance	Brake Disc Brake Drum Compressor Parts
	rough machining Semi-precision machining	Excellent impact resistance. Quenched steel cast high-speed steel surface overlay welding materials	High Impact Resistance Low Wear Resistance	Large gears mining machinery Rolls
C04	Precision machining	Hardened steels with a hardness greater than 45 HRC	Low Impact Resistance High Wear Resistance	Gears bearings

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PECIFICATION CATALOG

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CBN TURNING INSERTS

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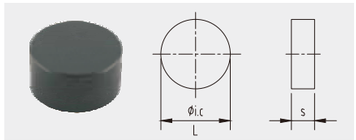
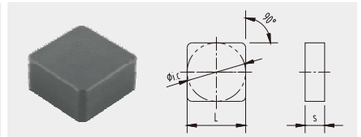
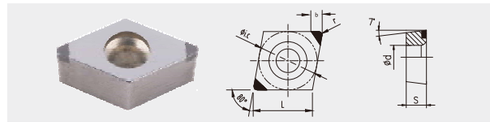


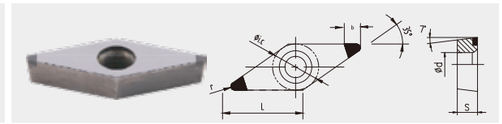
Model	Size				
ISO	L	Φ i.c	s	r	
RNMN 060400	6	6.35	4.76	0	
RNMN 090300	9	9.525	3.18	0	
RNMN 090400	9	9.525	4.76	0	
RNMN 120400	12	12.7	4.76	0	
RNMN 120600	12	12.7	6.35	0	
RNMN 120700	12	12.7	7.94	0	
RNMN 150700	15	15.875	7.94	0	
RNMN 160700	16	16	7.94	0	
RNMN 190700	19	19.05	7.94	0	
RNMN 200700	20	20	7.94	0	
RNMN 201000	20	20	10	0	
RNMN 250600	25	25.4	6.35	0	
RNMN 250700	25	25.4	7.94	0	
RNMN 251000	25	25.4	10	0	
RNMN 251200	25	25.4	12	0	



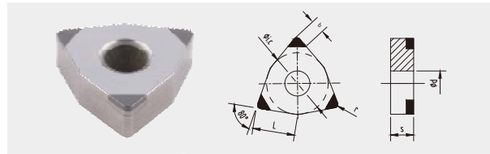
Model	Size				
ISO	L	Φ i.c	s	r	
RNMN 090304	9	9.525	3.18	0.4	
RNMN 090308	9	9.525	3.18	0.8	
RNMN 090312	9	9.525	3.18	1.2	
RNMN 090404	9	9.525	4.76	0.4	
RNMN 090408	9	9.525	4.76	0.8	
RNMN 090412	9	9.525	4.76	1.2	
RNMN 120404	12	12.7	4.76	0.4	
RNMN 120408	12	12.7	4.76	0.8	
RNMN 120712	12	12.7	7.94	1.2	
RNMN 150704	15	15.875	7.94	0.4	
RNMN 150708	15	15.875	7.94	0.8	
RNMN 201020	20	20	10	2.0	
RNMN 201024	20	20	10	2.4	



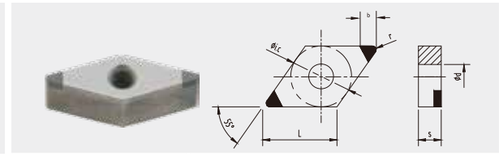
Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
CCGW 09T304-2S	9	9.525	3.97	4.4	0.4	2.5	3.3
CCGW 09T308-2S	9	9.525	3.97	4.4	0.8	2.3	3.1
CCGW 09T312-2S	9	9.525	3.97	4.4	1.2	2.2	3.0
CCGW 120404-2S	12	12.7	4.76	5.5	0.4	2.5	3.3
CCGW 120408-2S	12	12.7	4.76	5.5	0.8	2.3	3.1
CCGW 120412-2S	12	12.7	4.76	5.5	1.2	2.2	3.0



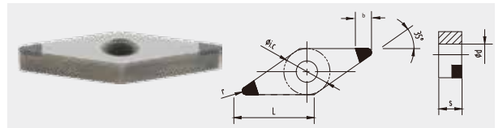
Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
VCGW 110304	11	6.35	3.18	2.8	0.4	2.8	3.5
VCGW 110308	11	6.35	3.18	2.8	0.8	2	2.7
VCGW 110312	11	6.35	3.18	2.8	1.2	1.3	1.9
VCGW 160404-2S	16	9.525	4.76	4.4	0.4	2.8	3.5
VCGW 160408-2S	16	9.525	4.76	4.4	0.8	2	2.7
VCGW 160412-2S	16	9.525	4.76	4.4	1.2	1.3	1.9



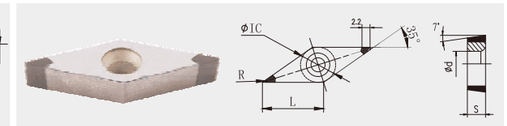
Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
WNGA 060404-3S	6	9.525	4.76	3.81	0.4	2.5	3.3
WNGA 060408-3S	6	9.525	4.76	3.81	0.8	2.3	3.2
WNGA 080404-3S	8	12.7	4.76	5.16	0.4	2.5	3.3
WNGA 080408-3S	8	12.7	4.76	5.16	0.8	2.3	3.1
WNGA 080412-3S	8	12.7	4.76	5.16	1.2	2.2	3.0



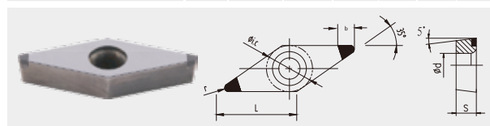
Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
DNGA 110404-2S	11	9.525	4.76	3.81	0.4	2.5	3.3
DNGA 110408-2S	11	9.525	4.76	3.81	0.8	2.1	2.9
DNGA 150404-2S	15	12.7	4.76	5.16	0.4	2.5	3.3
DNGA 150408-2S	15	12.7	4.76	5.16	0.8	2.1	2.9
DNGA 150412-2S	15	12.7	4.76	5.16	1.2	1.8	2.5



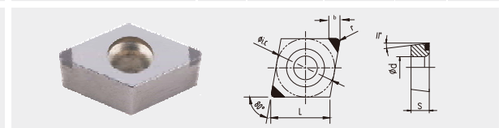
Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
VNGA 160404-2S	16	9.525	4.76	3.81	0.4	2.8	3.5
VNGA 160408-2S	16	9.525	4.76	3.81	0.8	2	2.7
VNGA 160412-2S	16	9.525	4.76	3.81	1.2	1.3	1.9



Model	Size				
ISO	L	Φ i.c	s	Φ d	r
VCGW160404	16	9.525	4.76	4.4	0.4
VCGW160408	16	9.525	4.76	4.4	0.8
VCGW160412	16	9.525	4.76	4.4	1.2



Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
VBGW 110304	11	6.35	3.18	2.8	0.4	2.8	3.5
VBGW 110308	11	6.35	3.18	2.8	0.8	2	2.7
VBGW 110312	11	6.35	3.18	2.8	1.2	1.3	1.9
VBGW 160404-2S	16	9.525	4.76	4.4	0.4	2.8	3.5
VBGW 160408-2S	16	9.525	4.76	4.4	0.8	2	2.7
VBGW 160412-2S	16	9.525	4.76	4.4	1.2	1.3	1.9



Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
CPGW 090304-2S	9	9.525	3.18	4.4	0.4	2.5	3.3
CPGW 090308-2S	9	9.525	3.18	4.4	0.8	2.3	3.0
CPGW 090312-2S	9	9.525	3.18	4.4	1.2	2.2	3.0
CPGW 09T304-2S	9	9.525	3.97	4.4	0.4	2.5	3.3
CPGW 09T308-2S	9	9.525	3.97	4.4	0.8	2.3	3.1
CPGW 09T312-2S	9	9.525	3.97	4.4	1.2	2.2	3.0

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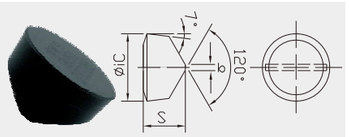
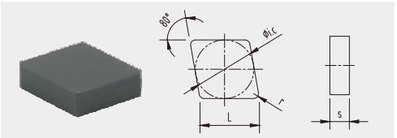


Model	Size			
ISO	L	Φ i.c	s	r
RCMX 060400V	6	6.35	4.76	0.8
RCMX 060600V	6	6.35	6.35	0.8
RCMX 090700V	9	9.525	7.94	1
RCMX 120700V	12	12.7	7.94	2
RCMX 151000V	15	15.875	10.0	2
RCMX 191000V	19	19.05	10.0	2
RCMX 201200V	20	20.0	12.0	2
RCMX 251200V	25	25.4	12.0	2



Model	Size			
ISO	L	Φ i.c	s	r
CNMN 090404	9	9.525	4.76	0.4
CNMN 090408	9	9.525	4.76	0.8
CNMN 090412	9	9.525	4.76	1.2
CNMN 120404	12	12.7	4.76	0.4
CNMN 120408	12	12.7	4.76	0.8
CNMN 120412	12	12.7	4.76	1.2
CNMN 120704	12	12.7	7.94	0.4
CNMN 120708	12	12.7	7.94	0.8
CNMN 120712	12	12.7	7.94	1.2
CNMN 160708	16	15.875	7.94	0.8
CNMN 160712	16	15.875	7.94	1.2
CNMN 160716	16	15.875	7.94	1.6

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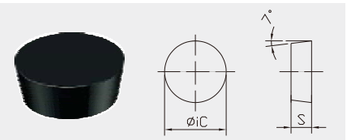
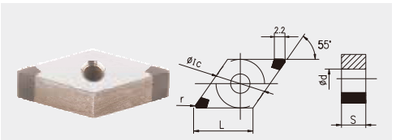
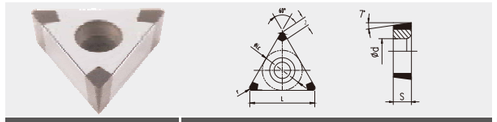


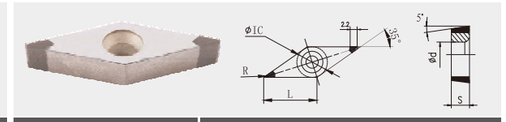
Model	Size			
ISO	L	Φ i.c	s	r
RCMN 060400	6	6.35	4.76	0
RCMN 090400	9	9.525	4.76	0
RCMN 090600	9	9.525	6.35	0
RCMN 120600	12	12.7	6.35	0
RCMN 120700	12	12.7	7.94	0
RCMN 150700	15	15.875	7.94	0
RCMN 190700	19	19.05	7.94	0



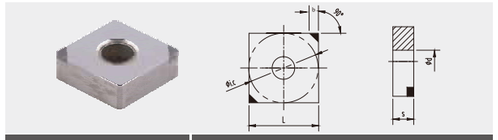
Model	Size				
ISO	L	Φ i.c	s	Φ d	r
DNGA110404	11	9.525	4.76	3.81	0.4
DNGA110408	11	9.525	4.76	3.81	0.8
DNGA110412	11	9.525	4.76	3.81	1.2
DNGA150404	15	12.7	4.76	5.16	0.4
DNGA150408	15	12.7	4.76	5.16	0.8
DNGA150412	15	12.7	4.76	5.16	1.2



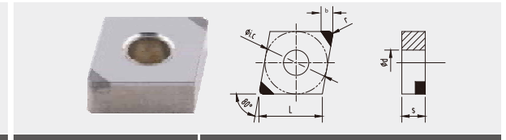
Model	Size				
ISO	L	Φ i.c	s	Φ d	r
TCGW110304	11	6.35	3.18	2.8	0.4
TCGW110308	11	6.35	3.18	2.8	0.8
TCGW110312	11	6.35	3.18	2.8	1.2



Model	Size				
ISO	L	Φ i.c	s	Φ d	r
VBGW160404	16	9.525	4.76	4.4	0.4
VBGW160408	16	9.525	4.76	4.4	0.8
VBGW160412	16	9.525	4.76	4.4	1.2

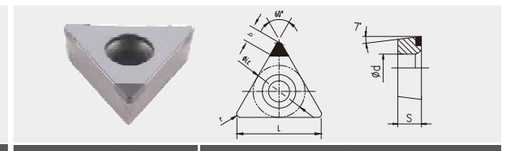


Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
SNGA 120404-2S	12	12.7	4.76	5.16	0.4	2.5	3.3
SNGA 120408-2S	12	12.7	4.76	5.16	0.8	2.3	3.2
SNGA 120412-2S	12	12.7	4.76	5.16	1.2	2.2	3.1

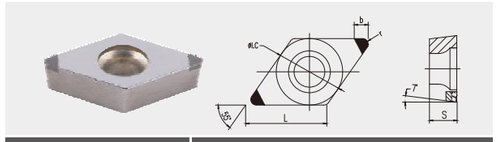


Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
CNGA 120404-2S	12	12.7	4.76	5.16	0.4	2.5	3T.3
CNGA 120408-2S	12	12.7	4.76	5.16	0.8	2.3	3.2
CNGA 120412-2S	12	12.7	4.76	5.16	1.2	2.2	3.1

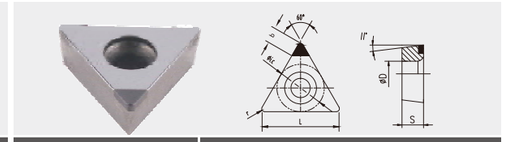
Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
TNGA 160404-3S	16	9.525	4.76	3.81	0.4	2.3	3.3
TNGA 160408-3S	16	9.525	4.76	3.81	0.8	2	3.0
TNGA 160412-3S	16	9.525	4.76	3.81	1.2	1.7	2.7
TNGA 160416-3S	16	9.525	4.16	3.81	1.6		2.4



Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
TCGW 110304	11	6.35		2.8	0.4	2.1	
TCGW 110308	11	6.35		2.8	0.8	1.8	
TCGW 16T304	16	9.525		4.4	0.4	2.3	3.3
TCGW 16T308	16	9.525		4.4	0.8	2	3.0
TCGW 16T312	16	9.525		4.4	1.2	1.7	2.7



Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
DCGW 11T304-2S	11	9.525	3.97	4.4	0.4	2.5	3.3
DCGW 11T308-2S	11	9.525	3.97	4.4	0.8	2.1	2.9



Model	Size						
ISO	L	Φ i.c	s	Φ d	r	b S	b N
TPGW 110394	11	6.35	3.18	3.3	0.4	2.1	
TPGW 110308	11	6.35	3.18	3.3	0.8	1.8	
TPGW 160304	16	9.525	3.18	4.4	0.4	2.3	3.3
TPGW 160308	16	9.525	3.18	4.4	0.8	2	3.0
TPGW 16T304	16	9.525	3.18	4.4	0.4	2.3	3.3
TPGW 16T308	16	9.525	3.18	4.4	0.8	2	3.0
TPGW 16T312	16	9.525	3.18	4.4	1.2	1.7	2.7
TPGW 160404	16	9.525	3.18	4.4	0.4	2.3	3.3
TPGW 160408	16	9.525	3.18	4.4	0.8	2	3.0

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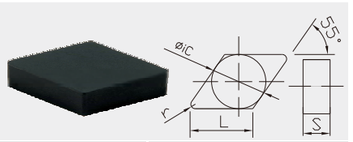
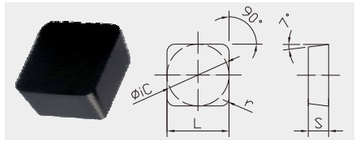
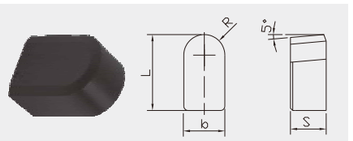


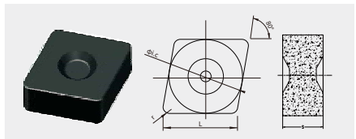
Model	Size			
ISO	L	Φ i.c	s	r
DNUN 110404	11	9.525	4.76	0.4
DNUN 110408	11	9.525	4.76	0.8
DNUN 110412	11	9.525	4.76	1.2
DNUN 110604	11	9.525	6.35	0.4
DNUN 110608	11	9.525	6.35	0.8
DNUN 110612	11	9.525	6.35	1.2



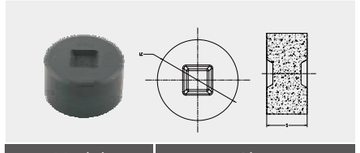
Model	Size			
ISO	L	Φ i.c	s	r
SCGN 090304	9	9.525	3.18	0.4
SCGN 090308	9	9.525	3.18	0.8
SCGN 090312	9	9.525	3.18	1.2
SCGN 090404	9	9.525	4.76	0.4
SCGN 090408	9	9.525	4.76	0.8
SCGN 090412	9	9.525	4.76	1.2



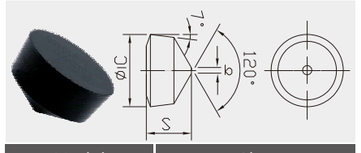
Model	Size				
ISO	r	b	L	s	
STB 10K1	4.6	9.2	17	8.0	
BL12K1-B	5.55	11.1	17	8.0	
BL14K1-B	6.5	13.0	17	8.0	



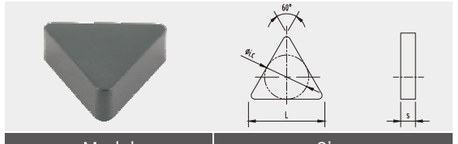
Model	Size			
ISO	L	Φ i.c	s	r
CMNO 120704	12	12.7	7.94	0.4
CMNO 120708	12	12.7	7.94	0.8
CNMO 120712	12	12.7	7.94	1.2



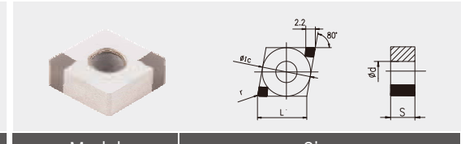
Model	Size		
ISO	L	Φ i.c	s
RNMS 090600	9	9.525	6.35
RNMS 120700	12	12.7	7.94
RNMS 150700	15	15.875	7.94
RNMS 201000	20	20	10



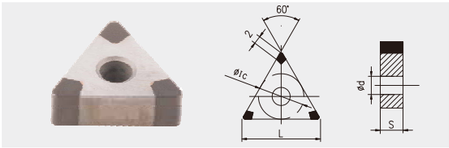
Model	Size			
ISO	L	Φ i.c	s	r
RCMX 060400Y	6	6.35	4.76	0.6
RCMX 060500Y	6	6.35	5.0	0.6
RCMX 060700Y	6	6.35	7.94	0.6
RCMX 090700Y	9	9.525	7.94	1
RCMX 120700Y	12	12.7	7.94	1.2



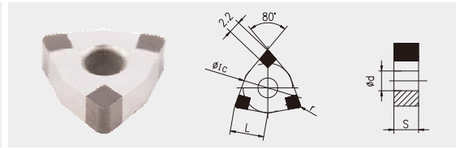
Model	Size			
ISO	L	Φ i.c	s	r
TNGN 110304	11	6.35	3.18	0.4
TNGN 110308	11	6.35	3.18	0.8
TNGN 110312	11	6.35	3.18	1.2
TNGN 160404	16	9.25	4.76	0.4
TNGN 160408	16	9.25	4.76	0.8
TNGN 160412	16	9.25	4.76	1.2



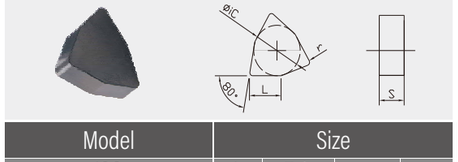
Model	Size				
ISO	L	Φ i.c	s	Φ d	r
CNGA 120404	12	12.7	4.76	5.16	0.4
CNGA 120408	12	12.7	4.76	5.16	0.8
CNGA 120412	12	12.7	4.76	5.16	1.2
CNGA 160404	16	15.875	4.76	5.16	0.4
CNGA 160408	16	15.875	4.76	5.16	0.8
CNGA 160412	16	15.875	4.76	5.16	1.2



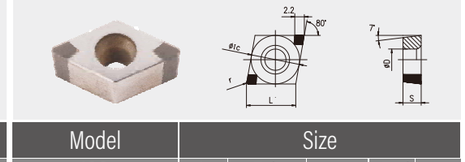
Model	Size				
ISO	L	Φ i.c	s	Φ d	r
TNGA160404	16	9.525	4.76	3.81	0.4
TNGA160408	16	9.525	4.76	3.81	0.8
TNGA160412	16	9.525	4.76	3.81	1.2



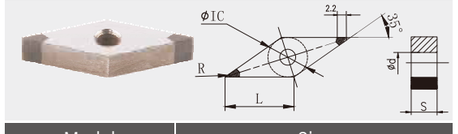
Model	Size				
ISO	L	Φ i.c	s	Φ d	r
WNGA 080404	8	12.7	4.76	5.16	0.4
WNGA 080408	8	12.7	4.76	5.16	0.8
WNGA 080412	8	12.7	4.76	5.16	1.2



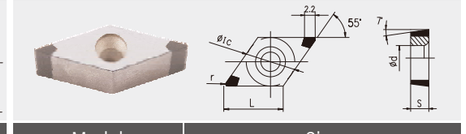
Model	Size			
ISO	L	Φ i.c	s	r
WNMN 080404	8	12.7	4.76	0.4
WNMN 080408	8	12.7	4.76	0.8
WNMN 080412	8	12.7	4.76	1.2
WNMN 080604	8	12.7	6.35	0.4
WNMN 080608	8	12.7	6.35	0.8
WNMN 080612	8	12.7	6.35	1.2



Model	Size				
ISO	L	Φ i.c	s	Φ d	r
CCGW9T304	9	9.525	3.97	4.4	0.4
CCGW9T308	9	9.525	3.97	4.4	0.8
CCGW9T312	9	9.525	3.97	4.4	1.2
CCGW120404	12	12.7	4.76	5.5	0.4
CCGW120408	12	12.7	4.76	5.5	0.8
CCGW120412	12	12.7	4.76	5.5	1.2



Model	Size				
ISO	L	Φ i.c	s	Φ d	r
VNGA160404	16	9.525	4.76	3.81	0.4
VNGA160408	16	9.525	4.76	3.81	0.8
VNGA160412	16	9.525	4.76	3.81	1.2



Model	Size				
ISO	L	Φ i.c	s	Φ d	r
DCGW11T304	11	9.525	3.97	4.4	0.4
DCGW11T308	11	9.525	3.97	4.4	0.8
DCGW11T312	11	9.525	3.97	4.4	1.2

CVD INSERTS

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01 ADVANTAGES OF CVD INSERTS

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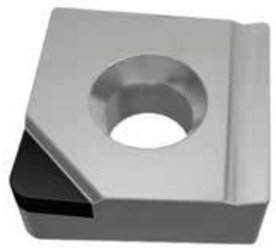
Chemical Vapor Deposition (CVD) diamond is an artificially synthesized diamond material produced using the CVD technique.

Extremely high hardness
CVD diamond possesses exceptional hardness, approaching that of natural diamond. It has a value of 10 on the Mohs hardness scale, making it one of the hardest known materials. This hardness allows CVD diamond to maintain excellent cutting performance in high-speed and high-load cutting applications.

Excellent wear resistance
CVD diamond exhibits outstanding wear resistance, maintaining sharpness and longevity of cutting edges under high-temperature and high-speed cutting conditions. It effectively resists tool wear and thermal shocks, extending the tool's lifespan.



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High thermal stability
CVD diamond demonstrates excellent thermal stability, maintaining stable cutting performance in high-temperature environments. It can withstand thermal shocks and thermal stresses generated at high temperatures without softening or melting, making it suitable for high-temperature cutting processes.

Superior chemical stability
CVD diamond exhibits good chemical stability, providing high corrosion resistance to various chemical substances. It can work in harsh cutting environments, such as cutting corrosive materials or cutting under conditions involving chemical reactions.

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PCD INSERTS

02

APPLICATION AREAS FOR CVD INSERT

CVD tooling is well-suited for a wide range of industries, including automotive manufacturing, aerospace, general machinery, electronics, precision instruments, tool manufacturing, and shipbuilding. Its outstanding performance makes it ideal for processing high-temperature and high-strength materials, while also excelling in efficient cutting and machining of stainless steel, alloy steel, and cast iron, among other materials. As a high-performance cutting tool, CVD tooling plays a crucial role in various material processing applications, enhancing machining precision and production efficiency.

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THE DIFFERENCES BETWEEN CVD TOOL AND PCD TOOL

The condition under the metallographic microscope 100X:

Different processing effects:

Surface of Components have small Grainy traces when using PCD Tools

Perfect of surface rough-ness when using Single Crystal Diamond Tools

01

ADVANTAGES OF PCD INSERTS

PCD (Polycrystalline Diamond) cutting tools find widespread applications in the industry. Their exceptional hardness, wear resistance, and thermal stability make them highly effective in high-speed cutting, precision machining, and wear-resistant processing. PCD tools are well-suited for processing hard materials such as aluminum alloys, composites, graphite, ceramics, paper, plastics, and carbon fiber. They are extensively used in various industries, including automotive, aerospace, marine, electronics, plastics, and woodworking, for cutting, turning, drilling, milling, grinding, and more, improving productivity, extending tool life, and reducing production costs. PCD cutting tools have become indispensable assets in modern manufacturing.

It has high hardness and excellent wear resistance, making it suitable for high-speed cutting and high-temperature machining. Additionally, it exhibits good chemical resistance, which can improve machining precision, especially for hard materials, and ultimately reduce production costs.

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JOYJET'S PCD INSERTS GRADES AND THEIR INDUSTRY APPLICATIONS

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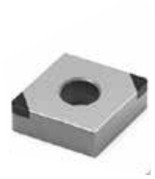

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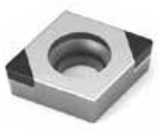

Grade	grain size	wear resistance	Resilience	Features & Applications
P01	2	LOW	RELATIVELY HIGH	It possesses both high toughness and high wear resistance, excellent conductivity, and processing performance, enabling the production of sharp and high-precision cutting edges. Primarily used in high-speed, high-precision, and high-polishing machining fields for various non-ferrous metals, steel, iron alloys, liquid crystal displays, high-hardness brittle composite materials, electronic materials, plastics, and other materials.
P02	5	MEDIUM	MEDIAN	It exhibits excellent toughness and cutting edge sharpness, as well as outstanding conductivity and mechanical processing performance. It is applied in high-speed machining of electronic materials, precision processing of non-ferrous metals, low, medium, and high silicon content aluminum alloys, electronic circuit board materials, and other high-speed machining applications. It is recommended for the preparation of complex cutting tools.
P03	10 2	HIGH	LOW	It exhibits a strong diamond bonding, exceptional wear resistance, and toughness, with excellent performance in electrical discharge machining and mechanical processing. It is widely used in the processing of various materials, particularly suitable for non-ferrous metals, including aluminum, aluminum alloys, copper, copper alloys, fiber-reinforced composites, woodworking (solid wood, plywood, medium-density fiberboard, etc.), electronic materials, molds, as well as being the preferred tool for new and unexplored machining fields, including wood materials.
P04	5+2	RELATIVELY HIGH	MEDIAN	It possesses extremely high wear resistance, toughness, heat resistance, and thermal stability, along with excellent electrical discharge machining and mechanical processing performance. It is widely used in the processing of woodworking (solid wood, plywood, medium-density fiberboard, etc.), stone, non-ferrous metals, hardened rubber, graphite, cemented tungsten, ceramics, metal matrix composites, and high-strength carbon fiber composites.

03

PCD SPECIFICATION CATALOG

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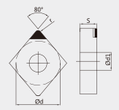
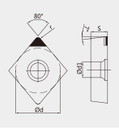
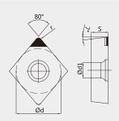
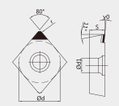
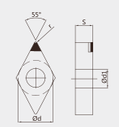
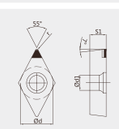
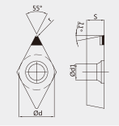
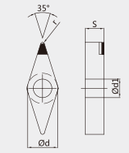
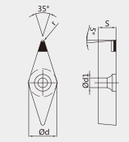
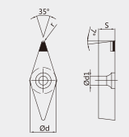
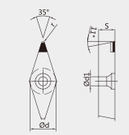
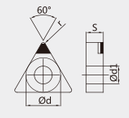
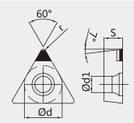
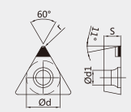
Insert shape	Type	γo Rake angle	Φd Inscribedcircle	s Thickness	Φd1 Inner hole diameter	r Radius	Inserts profile
	CNGA 090302		9.525	3.18	3.18	0.2	
	CNGA 090304		9.525	3.18	3.18	0.4	
	CNGA 090306		9.525	3.18	3.18	0.6	
	CNGA 090308		9.525	3.18	3.18	0.8	
	CCGW 060202		6.35	2.38	2.8	0.2	
	CCGW 060204		6.35	2.38	2.8	0.4	
	CCGW 060206		6.35	2.38	2.8	0.6	
	CCGW 060208		6.35	2.38	2.8	0.8	
	CCGW 09T308		9.525	3.97	4.4	0.2	
	CCGW 09T306		9.525	3.97	4.4	0.4	
	CCGW 09T304		9.525	3.97	4.4	0.6	
	CCGW 09T308		9.525	3.97	4.4	0.8	
	CPGT 090302	5°-10°	9.525	3.18	4.4	0.2	
	CPGT 090304	5°-10°	9.525	3.18	4.4	0.4	
	CPGT 090306	5°-10°	9.525	3.18	4.4	0.6	
	CPGT 090308	5°-10°	9.525	3.18	4.4	0.8	
	DNMA 150402		12.7	4.76	5.16	0.2	
	DNMA 150404		12.7	4.76	5.16	0.4	
	DNMA 150408		12.7	4.76	5.16	0.8	
	DNMA 150410		12.7	4.76	5.16	1.0	
	DNMA 150412		12.7	4.76	5.16	1.2	
	DCGW 090202		7.94	2.38	3.4	0.2	
	DCGW 090204		7.94	2.38	3.4	0.4	
	DCGW 090206		7.94	2.38	3.4	0.6	
	DCGW 090208		7.94	2.38	3.4	0.8	
	DPGW 070202		6.35	2.38	2.8	0.2	
	DPGW 070204		6.35	2.38	2.8	0.4	
	DPGW 070206		6.35	2.38	2.8	0.6	
	DPGW 070208		6.35	2.38	2.8	0.8	

Insert shape	Type	γo Rake angle	Φd Inscribedcircle	s Thickness	Φd1 Inner hole diameter	r Radius	Insert profile
	VNMA 160402		9.525	4.76	3.8	0.2	
	VNMA 160404		9.525	4.76	3.8	0.4	
	VNMA 160408		9.525	4.76	3.8	0.8	
	VNMA 160410		9.525	4.76	3.8	1.0	
	VNMA 160412		9.525	4.76	3.8	1.2	
	VBMW 160404		9.525	4.76	4.4	0.4	
	VBMW 160406		9.525	4.76	4.4	0.6	
	VBMW 160408		9.525	4.76	4.4	0.8	
	VBNW 160410		9.525	4.76	4.4	1.0	
	VBNW 160412		9.525	4.76	4.4	1.2	
	VCGW 160404		9.525	4.76	4.4	0.4	
	VCGW 160408		9.525	4.76	4.4	0.8	
	VCGW 160410		9,525	4.76	4.4	1.0	
	VCGW 160412		9,525	4.76	4.4	1.2	
	VPGW 080202		4.76	2.38	2.3	0.2	
	VPGW 080204		4.76	2.38	2.3	0.4	
	VPGW 080208		4.76	2.38	2.3	0.8	
	TNGA 160404		9.525	4.76	3.8	0.4	
	TNGA 160408		9.525	4.76	3.8	0.8	
	TNGA 160412		9.525	4.76	3.8	1.2	
	TNGA 160416		9.525	4.76	3.8	1.6	
	TCGW 060202		3.97	2.38	2.2	0.2	
	TCGW 060204		3.97	2.38	2.2	0.4	
	TPGW 080202		4.76	2.38	2.4	0.2	
	TPGW080204		4.76	2.38	2.4	0.4	
	TPGW 080206		4.76	2.38	2.4	0.6	

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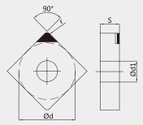
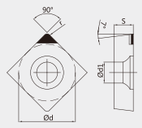
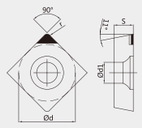
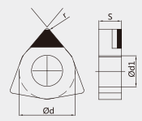
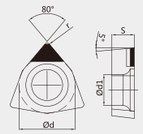
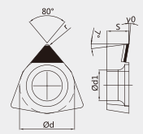
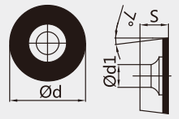
Insert shape	Type	γo Rake angle	Φd Inscribedcircle	s Thickness	Φd1 Inner hole diameter	r Radius	Insert profile
	SNGA 090304		9.525	3.18	3.8	0.4	
	SNGA 090308		9.525	3.18	3.8	0.8	
	SNGA 090312		9.525	3.18	3.8	1.2	
	SCGW 060202		6.35	2.38	2.2	0.2	
	SCGW 060204		6.35	2.38	2.2	0.4	
	SCGW 060208		6.35	2.38	2.2	0.8	
	SPGW 09T304		9.525	3.97	4.4	0.4	
	SPGW 09T306		9.525	3.97	4.4	0.6	
	SPGW 09T308		9.525	3.97	4.4	0.8	
	WNGA 080404		12.7	4.76	5.16	0.4	
	WNGA 080408		12.7	4.76	5.16	0.8	
	WNGA 080412		12.7	4.76	5.16	1.2	
	WBGW080202		4.76	2.38	2.4	0.2	
	WBGW 080204		4.76	2.38	2.4	0.4	
	WCGT06T302	5°-10°	9.525	3.97	4.4	0.2	
	WCGT06T304	5°-10°	9.525	3.97	4.4	0.4	
	WCGT06T308	5°-10°	9.525	3.97	4.4	0.8	

Insert shape	Type	γo Rake angle	Φd Inscribedcircle	s Thickness	Φd1 Inner hole diameter	Insert profile
	RCGW 060200		6	2.38	2.8	
	RCGW 080300		8	3.18	3.4	
	RCGW 100300		10	3.18	3.6	
	RCGW 120400		12	4.76	4.2	
	RCGW 160600		16	6.35	5.2	

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CERAMIC INSERTS

01

ADVANTAGES OF CERAMIC INSERTS

The tool exhibits high hardness and wear resistance, making it suitable for cutting high-hardness materials. It is lightweight and efficient, without generating metal ions that may affect product quality.

It performs well in high-temperature environments and is non-conductive, reducing static accumulation and fire risk. With a long lifespan, it minimizes replacement frequency and costs. The tool's strong corrosion resistance makes it suitable for humid or corrosive environments. Additionally, it is easy to clean and disinfect, meeting hygiene requirements.

02

JOYJET'S CERAMIC INSERTS GRADES AND THEIR INDUSTRY APPLICATIONS

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SML Grade	Ceramic composite systems (materials)	Ceramic Grade	Density	Hardness	Fracture Toughness	Wear Coefficient	Application characteristics
TN5	Al203+TiCN	AN5	4.40	20.00	>5.5	>16	It is highly suited for cutting various steels and iron materials, including high manganese steel and high-strength steel. It is also suitable for cutting various high-hardness steel and iron materials. It can be used for precision, rough cutting, and general interrupted cutting (milling) operations.
TC4	Al203+(W,Ti)C	AC4	6.20	20.50	>5.6	>16	It is highly suitable for cutting various high-hardness steel and iron materials, especially for materials with hardness HRC>55-68, such as various quenched and hardened steels and high-chromium wear-resistant cast iron. It can be used for precision, rough cutting, and general interrupted cutting (milling) operations. It is best for high-speed rough machining of various steel and iron materials, particularly for rough machining of high-hardness steel and iron materials. It is also suitable for turning tools and milling cutters.
TT3	Al203+(TiC+Metal)	AT53	4.80	19.00	>6.0	>16	It is highly suitable for precision cutting and rough machining of various high-hardness alloy steels and alloy cast irons, with outstanding performance in cutting nodular cast iron and boron-containing cast iron. Additionally, it excels in interrupted cutting (milling) operations, demonstrating remarkable effectiveness.
TN2	Si3N4+TiCN	SN2	3.40	17.00	>6.5	>16	It is highly optimized for high-speed machining of various conventional cast irons, particularly effective in cutting nickel-based heat-resistant alloys. It demonstrates exceptional performance in general precision cutting, rough machining, and interrupted cutting (milling) operations.

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CERAMIC INSERTS SPECIFICATION CATALOG

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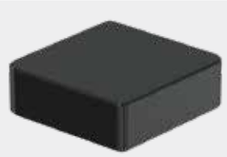
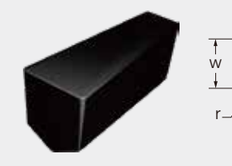
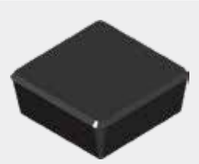


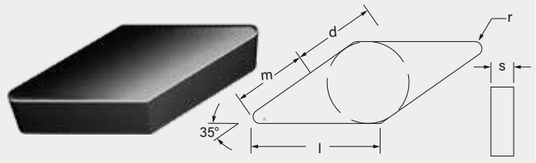
Model	Size						
ISO	d	l	s	r	m	m1	Θ
CNGN 090404	9.53	9.57	4.76	0.40	2.42	1.33	
CNGN 090408	9.53	9.57	4.76	0.80	2.20	1.21	
CNGN 120404	12.70	12.90	4,76	0.40	3.31	1.82	
CNGN 120408	12.70	12.90	4.76	0.80	3.08	1.70	
CNGN 120608	12.70	12.90	6.35	0.80	3.08	1.70	
CNGN 120612	12.70	12.90	6.35	1.20	2.86	1.57	
CNGN 120704	12.70	12.90	7.94	0.40	3.31	1.82	
CNGN 120708	12.70	12.90	7.94	0.80	3.08	1.70	
CNGN 120712	12.70	12.90	7.94	1.20	2.86	1.57	
CNGN 120716	12.70	12.90	7.94	1.60	2.64	1.45	
CNGN 160612	15.88	16.70	6.35	1.20	3.74	2.06	
CNGN 160616	15.88	16.70	6.35	1.60	3,52	1.94	
CNGN 160708	15.88	16.70	7.94	0.80	3.97	2.18	
CNGN 160712	15.88	16.70	7.94	1.20	3.74	2.06	
CNGN 160716	15.88	16.70	7.94	1.60	3.52	1.94	
CNGN 160720	15.88	16.70	7.94	2.00	3.30	1.81	
CNGN 190612	19.05	19.40	6.35	1.20	4.63	2.54	
CNGN 190616	19.05	19.40	6.35	1.60	4.40	2.42	
CNGGN 190632	19.05	19.40	6.35	3.20	3.51	1.93	
CNGN 190716	19.05	19.40	7.94	1.60	4.40	2.42	
CNGN 190720	19.05	19.40	7.94	2.00	4.18	2.30	
CNGN 190724	19.05	19.40	7.94	2.40	3.96	2.18	
CNGN 250724	25.40	25.78	7.94	2.40	5.72	3.15	
CNGN 250924	25.40	25.78	9.35	2.40	5.72	2.15	



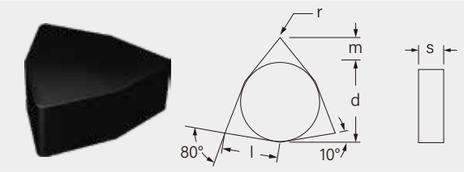
Model	Size						
ISO	d	l	s	r	m	m1	Θ
SGF 4012	12.00	4.00	5.00	0.50			
SGF 5012	12.00	5.00	5.00	0.80			
SGF 6015	15.00	6.00	7.50	0.80			
SGF 7015	15.00	7.00	7.50	0.80			
SGF 8015	15.00	8.00	7.50	0.80			
SGF 1015	15.00	10.00	7.50	0.80			



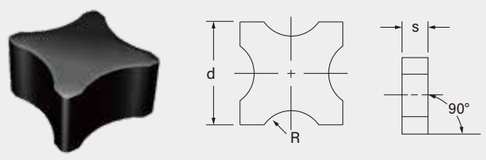
Model	Size						
ISO	d	l	s	r	m	m1	Θ
SPGN 09T308	9.53	9.53	3.97	0.80	1.64		
SPGN 090412	9.53	9.53	4.76	1.20	1.48		
SPGN 120408	12.70	12.70	4.76	0.80	2.30		
SPGN 120612	12.70	12.70	6.35	1.20	2.14		
SPGN 120704	12.70	12.70	7.94	0.40	2.47		
SPGN 150708	15.88	15.88	7.94	0.80	2.96		
SPGN 150712	15.88	15.88	7.94	1.20	2.80		
SPGN 150716	15.88	15.88	7.94	1.60	2.63		



Model	Size						
ISO	d	l	s	r	m	m1	Θ
VNGN 160412	9.53	16.61	4.76	0.80	8.31		
VNGN 160604	9.53	16.61	4.76	1.20	10.14		
VNGN 160608	9.53	16.61	6.35	0.40	9.22		
VNGN 160612	9.53	16.61	6.35	0.80	8.31		
VNGN 160704	9.53	16.61	7.94	0.40	10.14		
VNGN 160708	9.53	16.61	7.94	0.80	9.22		
VNGN 160712	9.53	16.61	7.94	1.20	8.31		
VNGN 160716	9.53	16.61	7.94	1.60	7.94		



Model	Size						
ISO	d	l	s	r	m	m1	Θ
WNGN 060404	9.53	6.52	4.76	0.40	2.43		
WNGN 060408	9.53	6.52	4.76	0.80	2.21		
WNGN 060412	9.53	6.52	4.76	1.20	2.98		
WNGN 080704	12.7	8.69	7.94	0.40	3.30		
WNGN 080708	12.7	8.69	7.94	0.80	3.09		
WNGN 080712	12.7	8.69	7.94	1.20	2.87		



Model	Size						
ISO	d	l	s	r	m	m1	Θ
SNMX 1207R9	12.70		7.94	9.00			
SNMX 1207R12	12.70		7.94	12.0			
SNMX 1207R15	12.70		7.94	15.0			
SNMX 1207R18	12.70		7.94	18.0			
SNMX 1207R20	12.70		7.94	20.0			
SNMX 1207R25	12.70		7.94	25.0			
SNMX 1207R30	12.70		7.94	30.0			
SNMX 1207R40	12.70		7.94	40.0			
SNMX 1207R50	12.70		7.94	50.0			
SNMX 1507R3	15.88		7.94	3.00			
SNMX 1507R4	15.88		7.94	4.00			
SNMX 1507R5	15.88		7.94	5.00			
SNMX 1507R6	15.88		7.94	6.00			
SNMX 1507R7	15.88		7.94	7.00			
SNMX 1910R7	19.05		10.00	8.00			
SNMX 1910R8	19.05		10.00	8.00			
SNMX 1910R9	19.05		10.00	9.00			
SNMX 1910R10	19.05		10.00	10.00			
SNMX 1910R12	19.05		10.00	12.00			
SNMX 1910R14	19.05		10.00	14.00			
SNMX 1910R16	19.05		10.00	16.00			
SNMX 1910R18	19.05		10.00	18.00			

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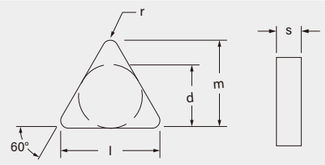
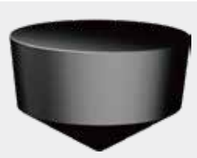
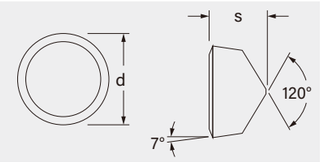
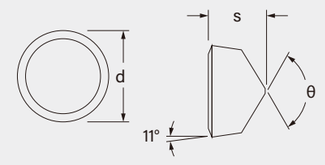


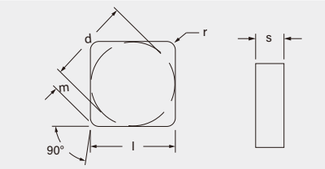
Model	Size						
ISO	d	l	s	r	m	m1	Θ
TNGN 110304	6.35	11.00	3.18	0.40			
TNGN 110308	6.35	11.00	3.18	0.80			
TNGN 160404	9.525	4.76	4.76	0.40			
TNGN 160408	9.525	4.76	4.76	0.80			
TNGN 160412	9.525	4.76	4.76	1.20			
TNGN 160612	9.525	6.35	6.35	1.20			
TNGN 160616	9.525	7.94	7.94	1.60			
TNGN 220716	12.70	7.94	7.94	1.60			

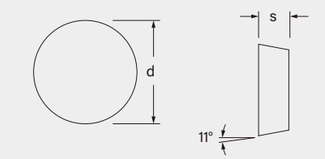
Model	Size						
ISO	d	l	s	r	m	m1	Θ
RCGX 060600	6.35		6.35				
RCGX 090700	9.53		7.94				
RCGX 1007M0	10.00		7.94				
RCGX 1207M0	12.00		7.94				
RCGX 120700	12.70		7.94				
RCGX 150900	15.88		9.53				
RCGX 1609M0	16.00		9.53				
RCGX 191000	19.05		1.00				

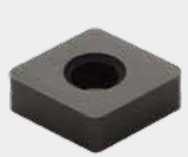
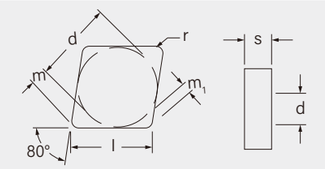
Model	Size						
ISO	d	l	s	r	m	m1	Θ
RPGV 060600	6.35		6.35				
RPGV 090700	9.53		7.94				
RPGV 120700	12.70		7.94				
RPGV 151000	15.88		10.00				
RPGV 191000	19.05		10.00				

Model	Size						
ISO	d	l	s	r	m	m1	Θ
SNGN 090304	9.525	9.525	3.18	0.40	1.80		
SNGN 090308	9.525	9.525	3.18	0.80	1.64		
SNGN 090312	9.525	9.525	3.18	1.20	1.48		
SNGN 090408	9.525	9.525	4.76	0.80	1.64		
SNGN 090420	9.525	9.525	4.76	2.00	1.13		
SNGN 120308	12.7	12.7	3.18	0.80	2.30		
SNGN 120404	12.7	12.7	4.76	0.40	2.47		
SNGN 120408	12.7	12.7	4.76	0.80	2.30		
SNGN 120412	12.7	12.7	4.76	1.20	2.14		
SNGN 120416	12.7	12.7	4.76	1.60	1.96		
SNGN 120420	12.7	12.7	4.76	2.00	1.80		
SNGN 120708	12.7	12.7	7.94	0.80	2.30		
SNGN 120712	12.7	12.7	7.94	1.20	2.14		
SNGN 120716	12.7	12.7	7.94	1.60	1.96		
SNGN 120720	12.7	12.7	7.94	2.00	1.80		
SNGN 150708	15.875	15.875	7.94	0.80	2.96		
SNGN 150712	15.875	15.875	7.94	1.20	2.80		
SNGN 150716	15.875	15.875	7.94	1.60	2.63		
SNGN 190708	19.05	19.05	7.94	0.80	3.61		
SNGN 190712	19.05	19.05	7.94	1.20	3.45		
SNGN 190716	19.05	19.05	7.94	1.60	3.29		
SNGN 190720	10.95	10.95	7.94	2.00	3.11		
SNGN 250720	25.04	25.04	7.94	2.00	4.44		
SNGN 251012	25.04	25.04	10.00	1.20	4.76		

Model	Size						
ISO	d	l	s	r	m	m1	Θ
RPGN 120400	12.70		4.76				
RPGN 120600	12.70		6.35				
RPGN 120700	12.70		7.94				
RPGN 150700	15.88		7.94				
RPGN 150900	15.88		9.53				
RPGN 190900	19.05		9.53				
RPGN 251200	25.40		12.00				

Model	Size						
ISO	d	l	s	r	m	m1	Θ
CNGA 120404	12.70	12.90	4.76	0.40	3.30	1.83	5.16
CNGA 120408	12.70	12.90	4.76	080	3.10	1.70	5.16
DNGA 120412	12.70	12.90	4.76	1.20	2.87	1.58	5.16
CNGA 120416	12.70	12.90	4.76	1.60	2.64	1.45	5.16
CNGA 120704	12.70	12.90	7.94	0.40	3.30	1.83	5.16
CNGA 120708	12.70	12.90	7.94	0.80	3.10	1.70	5.16
CNGA 120712	12.70	12.90	7.94	1.20	2.87	1.58	5.16
CNGA 120716	12.70	12.90	7.94	1.60	2.64	1.45	5.16
CNGA 160608	15.88	16.10	6.35	0.80	3.96	2.18	6.35
CNGA 160612	15.88	16.10	6.35	1.20	2.76	2.06	6.35
CNGA 160616	15.88	16.10	6.35	1.60	3.53	1.93	6.35
CNGA 160708	15.88	16.10	7.94	0.80	3.96	2.18	6.35
CNGA 160712	15.88	16.10	7.94	1.20	3.76	2.06	6.35
CNGA 160716	15.88	16.10	7.94	1.60	3.53	1.93	6.35
CNGA 190608	19.05	19.40	6.35	0.80	4.85	2.67	7.93
CNGA 190612	19.05	19.40	6.35	1.20	4.62	2.54	7.93
CNGA 190616	19.05	19.40	6.35	1.60	4.42	2.41	7.93
CNGA 190708	19.05	19.40	7.94	0.80	4.85	2.67	7.93
CNGA 190712	19.05	19.40	7.94	1.20	4.62	2.54	7.93
CNGA 190716	19.05	19.40	7.94	1.60	4.62	2.41	7.93

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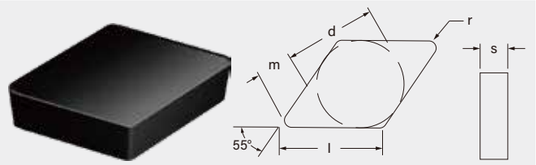
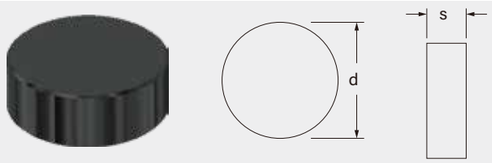
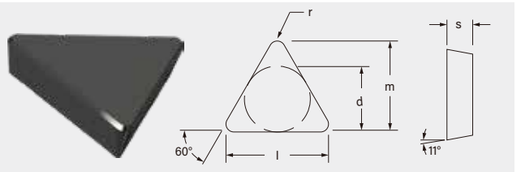


Model	Size						
ISO	d	l	s	r	m	m1	Θ
DNGN 10408	12.70	10.00	4.76	0.80	4.90		
DNGN 120612	12.70	10.00	6.35	1.20	4.42		
DNGN 150412	12.70	15.50	4.76	1.20	6.01		
DNGN 150604	12.70	15.50	6.35	0.40	6.934		
DNGN 150608	12.70	15.50	6.35	0.80	6477		
DNGN 150612	12.70	15.50	6.35	1.20	6.01		
DNGN 150704	12.70	15.50	7.94	0.40	6.934		
DNGN 150708	12.70	15.50	7.94	0.80	6.477		
DNGN 150712	12.70	15.50	7.94	1.20	5.944		
DNGN 150716	12.70	15.50	7.94	1.60	5.537		



Model	Size						
ISO	d	l	s	r	m	m1	Θ
RNGN 090400	9.53		4.76				
RNGN 120400	12.70		4.76				
RNGN 120600	12.70		6.53				
RNGN 120700	12.70		7.94				
RNGN 150700	15.88		7.94				
RNGN 190700	19.05		7.94				
RNGN 2010M0	20.00		10.00				
RNGN 25070	25.40		7.94				



Model	Size						
ISO	d	l	s	r	m	m1	Θ
TPGN 110304	6.35	11.00	3.18	0.40	9.12		
TPGN 110308	6.35	11.00	3.18	0.80	8.74		
TPGN 160404	9.525	16.50	4.76	0.40	13.89		
TPGN 160708	9.525	16.50	7.94	0.80	13.49		

KING SML | JOYJET PRECISION

CUSTOMIZED CUTTING TOOLS

KING SML GROUP

01

CHARACTERISTICS AND ADVANTAGES OF CUSTOMIZED CUTTING TOOLS

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Customized cutting tools are specially designed tools tailored to specific machining requirements. They offer several advantages, including optimized performance, increased efficiency, enhanced accuracy, and cost-effectiveness. In industries like aerospace, automotive, medical, energy, and manufacturing, custom cutting tools are used to meet unique machining challenges and achieve precise results. These tools are crafted to suit different materials, geometries, and applications, ensuring optimal performance and productivity in specialized tasks.

High Customization: Customized cutting tools are designed to meet specific machining requirements, catering to individualized needs regarding dimensions, shapes, materials, etc.

Maximizing Material Potential: Customized tools are designed based on specific material characteristics, enabling the full realization of material potential and achieving superior cutting performance.

Enhanced Machining Efficiency: Tailored cutting tools optimize cutting conditions, leading to improved machining efficiency and reduced production cycles.

Enhanced Machining Precision: Tailor-made cutting tools result in higher machining precision and surface quality, making them suitable for tasks demanding high precision.

Reduced Production Costs: Customized cutting tools can be optimized for specific processes and materials, thereby lowering production costs.

02

PRODUCTS SHOWCASE

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Customized Milling Cutter: Tailored to specific milling tasks, customized milling cutters with different shapes, cutting edges, and rake angles can enhance machining efficiency and precision for various workpieces.

Customized Turning Tool: By customizing the tool holder and insert shape based on specific turning tasks, stability and machining quality can be improved for different workpiece shapes and materials.

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RAW MATERIAL BLANKS

01

PRODUCTS SHOWCASE

PCD/PCBN Disk Structure
PCD Ultrahigh pressure sintered body (PCD)

(PCBN)Ultrahigh pressure sintered body(PCBN)

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GROUP

02

PCD COMPOSITE INSERT GRADE CHART

Grade	Grain Size	Wear Resistance	Toughness	Features & Applications
P01	2	Low	Relatively high	It possesses both high toughness and high wear resistance, excellent conductivity, and processing performance, enabling the production of sharp and high-precision cutting edges. Primarily used in high-speed, high-precision, and high-polishing machining fields for various non-ferrous metals, steel, iron alloys, liquid crystal displays, high-hardness brittle composite materials, electronic materials, plastics, and other materials.
P02	5	Medium	Medium	It exhibits excellent toughness and cutting edge sharpness, as well as outstanding conductivity and mechanical processing performance. It is applied in high-speed machining of electronic materials, precision processing of non-ferrous metals, low, medium, and high silicon content aluminum alloys, electronic circuit board materials, and other high-speed machining applications. It is recommended for the preparation of complex cutting tools.
P03	10	High	Low	It exhibits a strong diamond bonding, exceptional wear resistance, and toughness, with excellent performance in electrical discharge machining and mechanical processing. It is widely used in the processing of various materials, particularly suitable for non-ferrous metals, including aluminum, aluminum alloys, copper, copper alloys, fiber-reinforced composites, woodworking (solid wood, plywood, medium-density fiberboard, etc.), electronic materials, molds, as well as being the preferred tool for new and unexplored machining fields, including wood materials.
P04	25+2	Relatively high	Medium	It possesses extremely high wear resistance, toughness, heat resistance, and thermal stability, along with excellent electrical discharge machining and mechanical processing performance. It is widely used in the processing of woodworking (solid wood, plywood, medium-density fiberboard, etc.), stone, non-ferrous metals, hardened rubber, graphite, cemented tungsten, ceramics, metal matrix composites, and high-strength carbon fiber composites.

03

PCBN COMPOSITE INSERT GRADE CHART

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SML Materials Code	Machining Method	Processed Materials	Characteristics	Suitable Industries
C01	Rough Machining	Excellent impact resistance and wear resistance are balanced. 1.High nickel-chromium high-hardness alloy cast iron 2.Gray cast iron 3.High manganese steel	High impact resistance low wear resistance	Rolls, slurry pumps, brake discs, rolling sidewalls.
	Rough Machining	Excellent impact resistance and wear resistance are balanced. 1.High nickel-chromium high-hardness alloy cast iron 2.Gray cast iron 3.High manganese steel	High impact resistance low wear resistance	Rolls, slurry pumps, brake discs, rolling sidewalls.
C02	Semi-precision machining. Precision machining	Exceptional comprehensive performance, exhibiting versatile applicability; suitable for machining gray cast iron, hard cast iron, and quenched and tempered steel with a hardness greater than 45HRC.	Moderate impact resistance Moderate wear resistance	Brake discs, brake drums, compressor parts, gears, bearings.
C03	rough machining Precision machining	Excellent Wear Resistance Gray Cast Iron	High Impact Resistance Low Wear Resistance	Brake Disc， Brake Drum， Compressor Parts
	rough machining Semi-precision machining	Excellent impact resistance: Quenched steel， cast high-speed steel， surface overlay welding materials	High Impact Resistance Low Wear Resistance	Large gears mining machinery Rolls
C04	Precision machining	Hardened Steel ⩾45HRC	Low Impact Resistance High Wear Resistance	Gears, bearings

AFTER-SALES SERVICE

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01

SAMPLE TESTING SERVICES

Thank you for choosing our sample testing service! We understand the crucial importance of sample quality for your production. Therefore, we commit to providing free reissue of samples and continuous testing until we achieve the desired results, in case there are any usage issues with the samples provided.

To better understand the performance of the samples, we sincerely invite you to fill out our "Trial Cutting Report Template." This simple template will help you provide feedback on the usage results. Your valuable feedback is essential to us, as it will enable us to further improve and optimize our products to meet your specific needs.

During the process of filling out the trial cutting report, please feel free to reach out to our customer service team for any assistance or inquiries. We are available to provide support and answer any questions you may have.

We genuinely look forward to receiving your trial cutting report and are eager to work together to provide you with even better products and services!

Thank you once again for your trust and support!

02

PRECAUTIONS FOR USING INSERTS

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Workpiece

Name
Materials、Hardness
Dimensional Accuracy

Surface Quality Requirements

Tool Holder

Tool Holder Rigidity
Tool Pad Material
Accurate Positioning
Reliable Clamping

Clamping

No Deformation
Clamping Reliability、Rigidity
Geometric Accuracy
Motion Precision

pcbn、pcd
Grade,Mode, Specifications

Geometric Angle Edge Conditioning

Cutting Speed Vc
Feed Rate F
Cutting Depth ap

Inserts Lifespan
Cutting Forces
Surface Integrity
Cutting Shape

03

FORMULAS FOR CUTTING PARAMETERS

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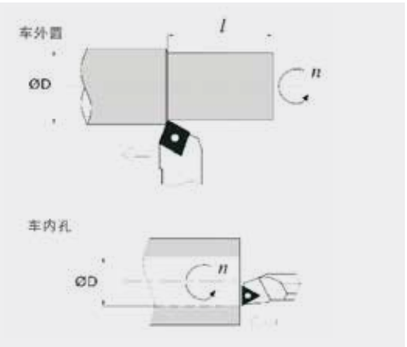
Turning

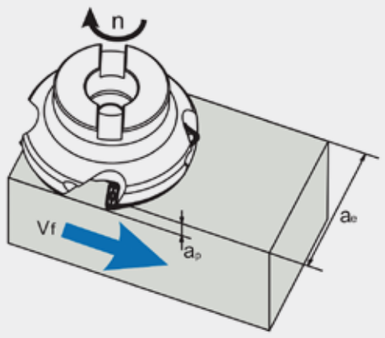


$$Vc = \frac{\pi * D * n}{1000} \ (m/min)$$

$$f = \frac{V_f}{n} \ (mm/rev)$$

Vc	Cutting Speed （m/min）
n	Spindle Speed （rev/min）
D	Workpiece Diameter （mm）
Vf	Feed Speed （mm/min）
f	Feed per Revolution （mm/rev）

Milling



$$Vc = \frac{\pi * Dc * n}{1000} \ (m/min)$$

$$fz = \frac{V_f}{n * z} \ (mm/z)$$

Vc	Cutting Speed （m/min）
n	Spindle Speed （rev/min）
D	Workpiece Diameter （mm）
Vf	Feed Speed （mm/min）
Z	Number of Teeth on the Cutter
f	Feed per Revolution （mm/rev）

03

INSERT INSTALLATION GUIDELINES

Clean the cutting inserts and insert slots.
Check the condition and wear of the tool pad.
Ensure reliable fastening of the tool pad.
Inspect the flatness of the pressure plate contact surface.
Ensure a tight fit between the cutting insert and the positioning slot.
Regularly replace the tool pad, pressure plate, and all locking screws.
Avoid using cutting bodies with worn-out insert slots.
Maintain the minimum tool overhang.
Avoid abrupt stops during the machining process when the cutting edge is not completely disengaged.

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CLIENTS WE SERVE

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NOKIA 诺基亚 | 多普达 | K-Touch 天语 | AMOI | 金鹏 JinPeng | GT 佳通手机
MOTOROLA | PHILIPS 飞利浦 | Haier 海尔 | Haier 海尔 | CECT 中电手机 | TCL
SAMSUNG 三星 | 三星 Anycall | Acer | lenovo 联想 | SED 桑达 | Panasonic
Sony Ericsson | SIEMENS 西门子 | VK 韩国唯开 | Panasonic 松下 | ALCATEL 阿尔卡特 | BBK 步步高
ZTE中兴 | DBTEL 迪比特 | moisonic 夏新 | AMOI 夏新 | NEC手机 | ALCATEL
华为技术 | Hisense 海信 | 首信 capitel | SIEMENS 西门子 | TELSDA 天时达 | CECT 中电手机
神达 | DEPU | DAXIAN 大显通信 | LG | BIRD 波导 | ORSUS 奥盛
KEJIAN 科健 | GiONEE 金立 | Soutec 南方高科 | EASTCOM 东信 | KONKA 康佳 | PANDA 熊猫手机

OMEGA 欧米茄 | TISSOT 天梭 | ROLEX 劳力士 | MITSUBISHI 三菱 | UNIVERSITY OF LEEDS 利兹大学 | THE UNIVERSITY OF TOKYO 东京大学
奥迪 | ALFA ROMEO 阿尔法罗密欧 | ASTON MARTIN 阿斯顿马丁 | 本田 | 标致 | 别克 | MINI
大众 | 道奇 | 法拉利 | BMW 宝马 | PORSCHE 保时捷 | 奔驰 | 宾利
凯迪拉克 | LOTUS 路特斯 | FIAT 菲亚特 | 丰田 | Ford 福特 | HUMMER 悍马 | Jeep 吉普
LAND ROVER 路虎 | 柯尼赛格 | CHRYSLER 克莱斯勒 | LAMBORGHINI 兰博基尼 | ROLLS ROYCE 劳斯莱斯 | 雷克萨斯 | 雷诺
马自达 | MASERATI 玛莎拉蒂 | 迈巴赫 | 西雅特 | 讴歌 | 欧宝 | PAGANI 帕加尼
SAAB 萨博 | 三菱 | SPYKER 世爵 | 双龙 | 斯巴鲁 | SKODA AUTO 斯柯达 | 威兹曼
Carlsson 卡尔森 | BUGATTI 布加迪 | GMC | JAGUAR 捷豹 | TESLA 特斯拉 | 林肯 | VOLVO 沃尔沃
雪佛兰 | 雪铁龙 | 英菲尼迪 | Smart | 铃木 | 光冈汽车 | 瑞麒
KTM | 现代 | 大发 | 宝马M | KIA 起亚 | NISSAN 尼桑 | BRABUS 巴博斯

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