



PCD Inserts



PCBN Inserts



SCT CO., LTD.

www.special-cutting-tools.com



PCD carbide inserts PCD 金刚石刀片

Descriptions of PCD Insert Numbers PCD 金刚石刀片型号编制说明

PCD-	T	N	M	G	22	04	08	E	N
1	2	3	4	5	6	7	8	9	10

1. Material Code 材料编码

Material 材料	Workpiece Material 加工范围	Sourcing 备注
PCBN1	Quenched Steel 淬火钢	Import 进口
PCBN2	Casting Iron 铸铁	Import 进口
PCD1	Aluminum 铝	Import 进口
PCD2	Silicon-Aluminum 硅铝	Import 进口
PCBN3	Quenched Steel 淬火钢	China 国产
PCBN4	Casting Iron 铸铁	China 国产
PCD3	Aluminum 铝	China 国产
PCD4	Silicon-Aluminum 硅铝	China 国产

2. Insert Geometries 刀片形状代号

	Others X 其他形状

4. Insert Tolerance Class (mm) 刀片精度代号 (毫米)

	m	d	s
A	±0.005	±0.025	±0.025
C	±0.013	±0.025	±0.025
G	±0.025	±0.025	±0.13
M	±0.08 ~ ±0.18	±0.05 ~ ±0.13	±0.13
N	±0.08 ~ ±0.18	±0.05 ~ ±0.13	±0.025
U	±0.13 ~ ±0.38	±0.08 ~ ±0.25	±0.13

3. Normal Clearance Symbol 后角代号

B	C
D	E
N	P
O Others 其他后角	

6. Cutting Edge Length (mm) 切削刃长度 (毫米)

C	D	S	T	V	W	R	Diameter Inscribed Circle 内切圆直径 (mm)
05	06	05	09		02		3.97
06	07	06	11	11	04		5.56
09	11	09	16	16	06	08	6.00
12	15	12	22	19	08	10	6.35
16	19	15	27		10	12	8.00
19		19			13		9.525
							10.00
							12.00
							12.7
							15.857
							19.05

9. Honing Geometries 刃口钝化号

F	Sharp 尖锐刃口
E	Round 倒圆刃口
T	Chamfered 倒棱刃口
S	Chamfered and Round 既倒棱又倒圆刃口

10. Hand of Inserts 刀片切削方向代号

R	Right Hand 右手方向
L	Left Hand 左手方向
N	Left & Right 左右手方向

5. Symbol of Chip Breaker 刀片有断屑及中心固定孔代号

A	M
G	R
N	W
T	X Specials 特殊

7. Insert Thickness (mm) 刀片厚度代号 (毫米)

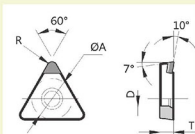
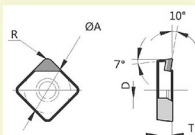
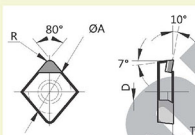
01	1.59
02	2.38
03	3.18
T3	3.97
04	4.76
06	6.35
07	7.94
09	9.52

8. Corner Radius (mm) 刀尖半径代号 (毫米)

00	0
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
MO	Round Insert 圆形刀片

PCD carbide inserts PCD 金刚石刀片

PCD Inserts PCD 金刚石刀片型号

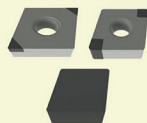
Insert Shapes 刀片形状	Insert Numbers 订货代号	Dimensions (mm)			尺寸(mm)		
		Inscribed Circle 内接圆	A	Thickness 厚度	T	Corner Radius 刀尖圆弧	R
	PCD-TCMT090201	5.56	2.38	2.38	0.1	2.5	2.5
	PCD-TCMT090202				0.2		
	PCD-TCMT090204				0.4		
	PCD-TCMT110201	6.35	2.38	2.38	0.1	2.8	2.8
	PCD-TCMT110202				0.2		
	PCD-TCMT110204				0.4		
	PCD-SCMT070201	7.94	2.38	2.38	0.1	2.5	2.5
	PCD-SCMT070202				0.2		
	PCD-SCMT070204				0.4		
	PCD-SCMT09T301	9.525	3.97	3.97	0.1	4.4	4.4
	PCD-SCMT09T302				0.2		
	PCD-SCMT09T304				0.4		
	PCD-CCMT060201	6.35	2.38	2.38	0.1	2.8	2.8
	PCD-CCMT060202				0.2		
	PCD-CCMT060204				0.4		
	PCD-CCMT09T301	9.525	3.97	3.97	0.1	4.4	4.4
	PCD-CCMT09T302				0.2		
	PCD-CCMT09T304				0.4		
	PCD-CCMT120404	12.7	4.76	4.76	0.4	5.6	5.6
	PCD-CCMT120408				0.8		



TCMT (Triangle 60°)



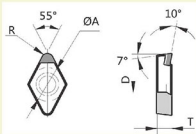
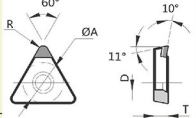
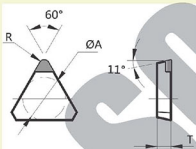
SCMT (Square 90°)

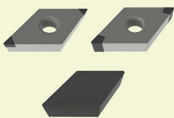


CCMT (Rhombic 80°)

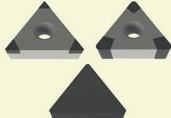
■ PCD carbide inserts PCD 金刚石刀片

■ PCD Inserts PCD 金刚石刀片型号

Insert Shapes 刀片形状	Insert Numbers 订货代号	Dimensions (mm) 尺寸(mm)						
		Inscribed Circle 内接圆	A	Thickness 厚度	T	Corner Radius 刀尖圆弧	R	Hole Dia 孔径
	PCD-DCMT070201	6.35		2.38		0.1	2.8	
	PCD-DCMT070202					0.2		
	PCD-DCMT070204					0.4		
	PCD-DCMT11T301	9.525		3.97		0.1	4.4	
	PCD-DCMT11T302					0.2		
	PCD-DCMT11T304					0.4		
	PCD-TPGW160402	9.525		4.76		0.2	4.4	
	PCD-TPGW160404					0.4		
	PCD-TPGW160408					0.8		
	PCD-TPGW160412					1.2		
	PCD-SPGW090302	9.525		3.18		0.2	3.3	
	PCD-SPGW090304					0.4		
	PCD-SPGW090308					0.8		
	PCD-TPGN090202	5.56		2.38		0.2		
	PCD-TPGN090204					0.4		
	PCD-TPGN090208					0.8		
	PCD-TPGN110300	6.35		3.18		0.05		
	PCD-TPGN110302					0.2		
	PCD-TPGN110304					0.4		
	PCD-TPGN110308					0.8		
	PCD-TPGN160302	9.525		3.18		0.2		
	PCD-TPGN160304					0.4		
	PCD-TPGN160308					0.8		
	PCD-TPGN160312					1.2		



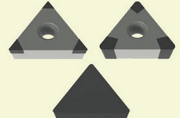
DCMT (Rhombic 55°)



TPGW (Triangle 60°)



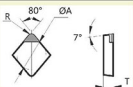
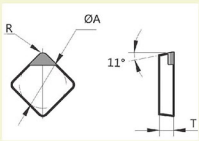
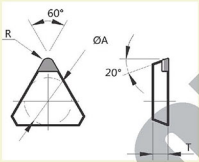
SPGW (Square 90°)

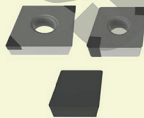


TPGN (Triangle 60°)

■ PCD carbide inserts PCD 金刚石刀片

■ PCD Inserts PCD 金刚石刀片型号

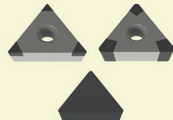
Insert Shapes 刀片形状	Insert Numbers 订货代号	Dimensions (mm) 尺寸(mm)			
		Inscribed Circle 内接圆	A	Thickness 厚度 T	Hole Dia 孔径 D
	PCD-CCGN090302	9.525		4.76	0.2
	PCD-CCGN090304				0.4
	PCD-CCGN090308				0.8
	PCD-SPGN090302	9.525		3.18	0.2
	PCD-SPGN090304				0.4
	PCD-SPGN090308				0.8
	PCD-SPGN120304	12.7		3.18	0.4
	PCD-SPGN120308				0.8
	PCD-SPGN120312				1.2
	PCD-TEGN110202	6.35		2.38	0.4
	PCD-TEGN110204				0.8
	PCD-TEGN110208				1.2
	PCD-TEGN110302	6.35		3.18	0.2
	PCD-TEGN110304				0.4
	PCD-TEGN110308				0.8
	PCD-TEGN160302	9.525		3.18	0.2
	PCD-TEGN160304				0.4
	PCD-TEGN160308				0.8
	PCD-TEGN220404	12.7		4.76	0.4
	PCD-TEGN220408				0.8



CCGN (Rhombic 80°)



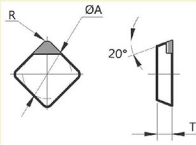
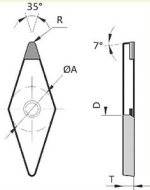
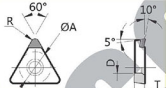
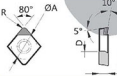
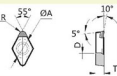
SPGN (Square 90°)



TEGN (Triangle 60°)

PCD carbide inserts PCD 金刚石刀片

PCD Inserts PCD 金刚石刀片型号

Insert Shapes 刀片形状	Insert Numbers 订货代号	Dimensions (mm) 尺寸(mm)			
		Inscribed Circle 内接圆	A	Thickness 厚度 T	Corner Radius 刀尖圆弧 R
	PCD-SEGN070202	7.97	2.38	0.2	
	PCD-SEGN070204			0.4	
	PCD-SEGN070208			0.8	
	PCD-SEGN090302	9.525	3.18	0.2	
	PCD-SEGN090304			0.4	
	PCD-SEGN090308			0.8	
	PCD-SEGN120302	12.7	3.18	0.2	
	PCD-SEGN120304			0.4	
	PCD-SEGN120308			0.8	
	PCD-VCMT110302	6.35	3.18	0.2	2.8
	PCD-VCMT120304			0.4	
	PCD-VCMT160408	9.525	4.76	0.8	4.4
	PCD-VCMT160412			1.2	
	PCD-VCMT160430	12.7	5.56	3.0	5.5
	PCD-VCMT220520			2.0	
	PCD-VCMT220530			3.0	
	PCD-TNMX160404	9.525	4.76	0.4	3.2
	PCD-TNMX160408			0.8	
	PCD-TNMX160412			1.2	
		PCD-CNMX120404	12.7	4.76	
PCD-CNMX120408		0.8			
PCD-CNMX120412		1.2			
	PCD-DNMX150404	12.7	4.76	0.4	5.2
	PCD-DNMX150408			0.8	
	PCD-DNMX150412			1.2	



SEGN (Square 90°)

VCMT (Rhombic 35°)

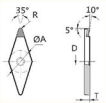
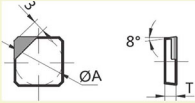
TNMX (Triangle 60°)

CNMX (Rhombic 80°)

DNMX (Rhombic 55°)

■ PCD carbide inserts PCD 金刚石刀片

■ PCD Inserts PCD 金刚石刀片型号

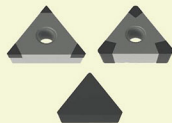
Insert Shapes 刀片形状	Insert Numbers 订货代号	Dimensions (mm) 尺寸(mm)			
		Inscribed Circle 内接圆	Thickness 厚度	Corner Radius 刀尖圆弧	Hole Dia 孔径
	PCD-VNMX160402	9.525	4.76	0.2	3.8
	PCD-VNMX160404			0.4	
	PCD-VNMX160408			0.8	
	PCD-VNMX160412			1.2	
	PCD-SDKN090302	9.525	3.18	0.2	
	PCD-SDKN090304			0.4	
	PCD-SDKN120404	12.7	4.76	0.4	
	PCD-SDKN120408			0.8	
	PCD-TDKN110302	6.35	3.18	0.2	
	PCD-TDKN16T304	9.525	3.97	0.4	
	PCD-TDKN220408	12.7	4.76	0.8	



VNMX (Rhombic 35°)



SDKN (Square 90°)



TDKN (Triangle 60°)