



蒲菲科技有限公司



MCD / PCD / CBN

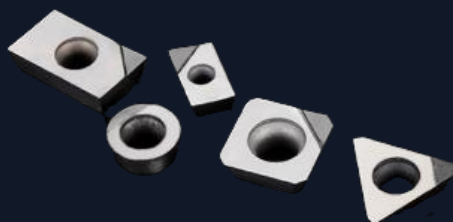
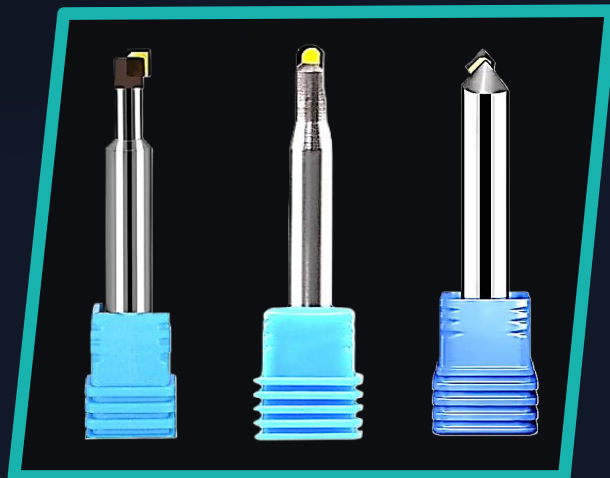
超硬工具產品目錄

Premium Cutting Tool Solutions

單晶金剛石 MCD

多晶金剛石 PCD

立方氮化硼 CBN



HIGH PRECISION TOOLING SOLUTIONS

www.perfect-cnc.com | info@perfect-cnc.com



MCD High-Gloss Insert

- Turning Insert (車刀片)
- Milling Insert (銑刀片)
- Boring Insert (搪孔刀片)
- Grooving Insert (溝槽刀片)

記號 Symbol	形狀 Shape	角度 Angle
A	90° 長方形	90°
S	90° 正方形	90°
T	60° 正三角形	60°
K	55° 平行四邊形	55°
C	80° 菱形	80°
D	55° 菱形	55°
V	35° 菱形	35°
W	80° 桃形	80°

記號 Symbol	離隙角 Relief Angle	記號 Symbol	離隙角 Relief Angle
B	5°	N	0°
C	7°	P	11°

圓弧



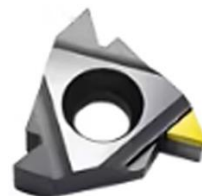
MRMN150 MCD R0.75
MRMN200 MCD R1
MRMN250 MCD R1.25
MRMN300 MCD R1.5
MRMN400 MCD R2

平



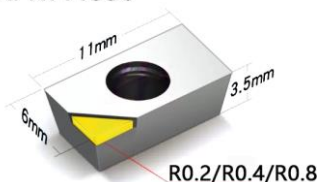
MGMN150 MCD 1.5MM
MGMN200 MCD 2MM
MGMN250 MCD 2.5MM
MGMN300 MCD 3MM
MGMN400 MCD 4MM

MCD牙刀片訂制

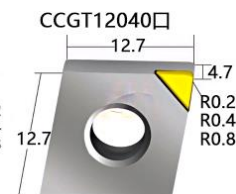
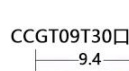
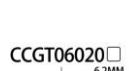
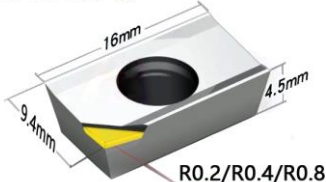


Threading blades

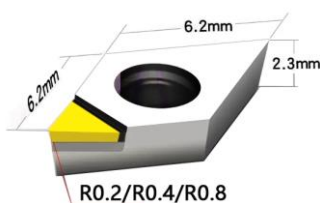
APKT11350



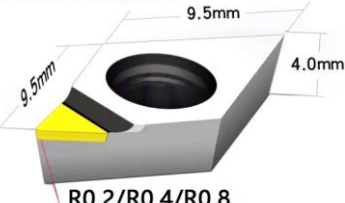
APKT16040



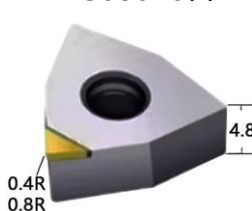
DCGT07020□



DCGT11T30□



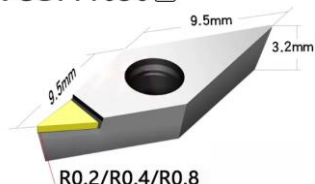
WNMG08040□



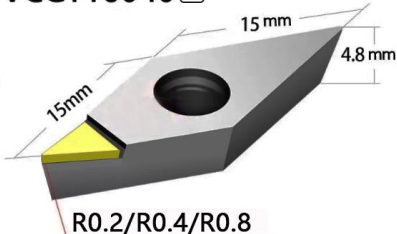
TCGT1103□
TCGT1604□



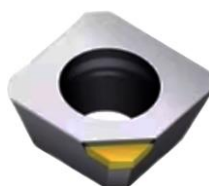
VCGT11030□



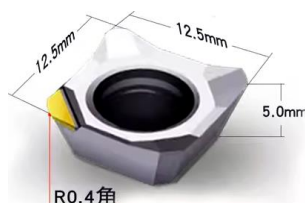
VCGT16040□



SEGT1204

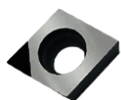
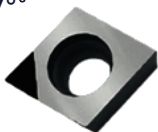
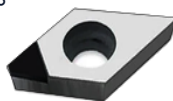
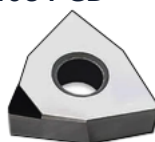
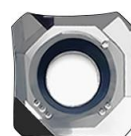
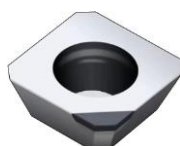
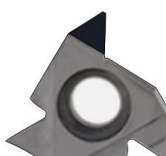
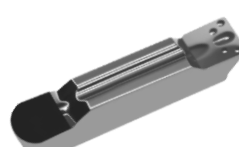


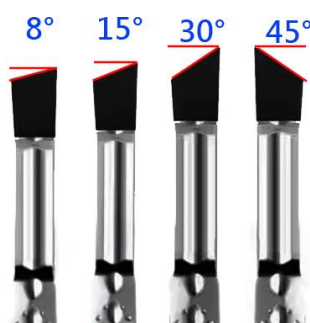
SEHT1204





PCD / CBN

CCGT06T202-PCD CCGT06T204-PCD CCGT09T304-PCD 80°菱型/7° 	CCGT12T402-PCD CCGT12T404-PCD CCGT12T408-PCD 80°菱型/7° 	DCGT070204-PCD DCGT11T302-PCD DCGT11T304-PCD DCGT11T308-PCD 55°菱型/7° 	VCGT110302-PCD VCGT110308-PCD 35°菱型/7° 
TCGT110302-PCD TCGT110304-PCD TCGT110308-PCD 正三角/7° 	TCGT160402-PCD TCGT160404-PCD TCGT160408-PCD 正三角/7° 	WNMG080402-PCD WNMG080404 PCD WNMG080408 PCD 等边六角/0° 	VCGT160402-PCD VCGT160404-PCD VCGT160408-PCD 35°菱型/7° 
TNGT160402-PCD TNGT160404-PCD TNGT160408-PCD 正三角/0° 	TPGH080202-PCD TPGH080204-PCD TPGH080208-PCD 正三角/11° 	TPGH090202-PCD TPGH090204-PCD TPGH090208-PCD 正三角/11° 	TPGH110302-PCD TPGH110304-PCD TPGH110308-PCD 正三角/11° 
APKT113502-PCD APKT113504-PCD APKT113508-PCD 長方型/11° 	APKT160402-PCD APKT160404-PCD APKT160408-PCD 長方型/11° 	SEHT1204V-PCD 正方形/11° 翹嘴型 	SEGT1204-PCD 正方形/11° 平面型 
06IRA55 06IRA60 08IRA55 08IRA60 11IRA55 11IRA60 16IRA55 16IRA60 22IRA55 22IRA60 PCD IR內螺紋 	06ERA55 06ERA60 08ERA55 08ERA60 11ERA55 11ERA60 16ERA55 16ERA60 22ERA55 22ERA60 PCD ER外螺紋 	MRMN150 PCD R0.75 MRMN200 PCD R1 MRMN250 PCD R1.25 MRMN300 PCD R1.5 MRMN400 PCD R2 	MGMN150 PCD 1.5MM MGMN200 PCD 2MM MGMN250 PCD 2.5MM MGMN300 PCD 3MM MGMN400 PCD 4MM 



MGMN150-R右-8°	MGMN150-L左-8°	MGMN450-R右-45°	MGMN450-L左-45°
MGMN200-R右-8°	MGMN200-L左-8°	MGMN200-R右-45°	MGMN200-L左-45°
MGMN250-R右-8°	MGMN250-L左-8°	MGMN250-R右-45°	MGMN250-L左-45°
MGMN450-R右-8°	MGMN450-L左-8°	MGMN450-R右-45°	MGMN450-L左-45°
MGMN400-R右-8°	MGMN400-L左-8°	MGMN400-R右-45°	MGMN400-L左-45°
MGMN150-R右-15°	MGMN150-L左-15°	MGMN450-R右-45°	MGMN450-L左-45°
MGMN200-R右-15°	MGMN200-L左-15°	MGMN200-R右-45°	MGMN200-L左-45°
MGMN250-R右-15°	MGMN250-L左-15°	MGMN250-R右-45°	MGMN250-L左-45°
MGMN450-R右-15°	MGMN450-L左-15°	MGMN450-R右-45°	MGMN450-L左-45°
MGMN400-R右-15°	MGMN400-L左-15°	MGMN400-R右-45°	MGMN400-L左-45°

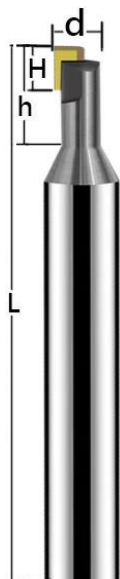


MCD / CVD 單晶鑽石高光銑刀



定制:可根據客戶要求定制Customization is available upon request.

MCDF



MCD單晶銑刀	MCD單晶銑刀	MCD單晶銑刀
1*2H*6D*50L	5*4H*(13h)*6D*50L	8*6H*(23h)*8D*60L
1.5*2H*6D*50L	5*5H*(13h)*6D*50L	8*8H*(23h)*8D*60L
2.0*3H*6D*50L	6*3H*(15h)*6D*50L	8*10H*(23h)*8D*60L
2*3H*(6h)*6D*50L	6*3H*(25h)*6D*60L	10*3H*(23h)*10D*60L
2.5*3H*6D*50L	6*3H*(36h)*6D*75L	10*4H*(23h)*10D*60L
3*3H*6D*50L	6*3H*(56h)*6D*100L	10*5H*(23h)*10D*60L
3*3H*(7h)*6D*50L	6*4H*(16h)*6D*50L	10*6H*(23h)*10D*60L
3*3H*(13h)*6D*50L	6*5H*(16h)*6D*50L	10*8H*(23h)*10D*60L
3*4H*(6h)*6D*50L	6*6H*(16h)*6D*50L	10*10H*(23h)*10D*60L
3*5H*(9h)*6D*50L	6*8H*(16h)*6D*50L	12*3H*(23h)*12D*60L
4*3H*(9h)*6D*50L	6*10H*(16h)*6D*50L	12*4H*(23h)*12D*60L
4*3H*(10h)*6D*50L	8*3H*(23h)*8D*50L	12*5H*(23h)*12D*60L
4*3H*(20h)*6D*50L	8*3H*(36h)*8D*75L	12*5H*(36h)*12D*75L
4*4H*(11h)*6D*50L	8*3H*(56h)*8D*100L	12*6H*(36h)*12D*60L
4*5H*(9h)*6D*50L	8*4H*(23h)*8D*60L	12*8H*(36h)*12D*75L
5*3H*(8h)*6D*50L	8*5H*(23h)*8D*60L	12*10H*(36h)*12D*75L

MCDV



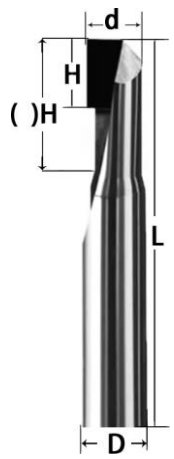
MCD單晶倒角刀
60°*3H*6D*40L
70°*3H*6D*40L
80°*3H*6D*40L
90°*3H*6D*40L
100°*3H*6D*40L
110°*3H*6D*40L
120°*3H*6D*40L
130°*3H*6D*40L
140°*3H*6D*40L
150°*3H*6D*40L

MCDB



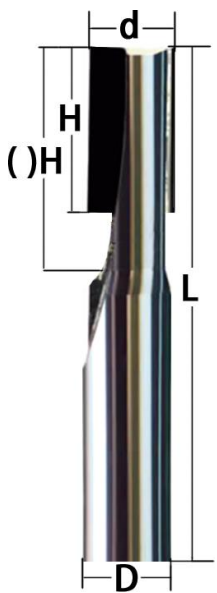
MCD單晶球刀
R0.75*2H*1F*6D*40L
R1.0*3H*1F*6D*40L
R1.5*3H*1F*6D*40L
R2.0*3H*1F*6D*40L
R2.5*3H*1F*6D*40L
R3.0*3H*1F*6D*40L
R3.5*3H*1F*6D*40L



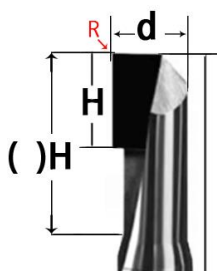
PCD 1刃銑刀	d*H(有效長)H*D*L
CBN  	0.8*2H*1F*4D*50L
	1*3H*1F*6D*40L
	1*3H*1F*4D*50L
	1*3(5)H*1F*4D*50L
	1.5*3H*1F*6D*40L
	1.5*3H*1F*4D*50L
	1.5*3(5)H*1F*4D*50L
	1.5*3(5)H*1F*4D*50L
	1.5*3(12)H*1F*4D*50L
	2*6H*1F*6D*40L
	2*6H*1F*4D*50L
	2*6(10)H*1F*4D*50L
	2.5*6H*1F*6D*40L
	3*6H*1F*6D*40L
	3*6H*1F*4D*50L
	3*6(12)H*1F*4D*50L
	3*10H*1F*6D*50L
	4*6H*1F*6D*40L
	4*6(12)H*1F*4D*50L
	5*6H*1F*6D*40L
	6*6H*1F*6D*40L
	8*6H*1F*8D*50L
	10*6H*1F*10D*50L
	10*6H*1F*6D*50L
	12*6H*1F*12D*50L
	12*6H*1F*12D*75L

圓鼻刀可訂制
請告知R角

PCD 1刃銑刀	d*H(有效長)H*D*L
CBN 	3*6H*2F*6D*50L
	3*6(30)H*2F*4D*75L
	4*6H*2F*6D*50L
	4*6H*2F*4D*50L
	4*6(20)H*2F*4D*50L
	4*6(30)H*2F*4D*75L
	4*6(50)H*2F*4D*100L
	4*8H*2F*6D*50L
	4*10H*2F*6D*50L
	4*12H*2F*6D*50L
	4*15H*2F*6D*50L
	5*6H*2F*6D*50L
	5*6(20)H*2F*6D*50L
	5*8H*2F*6D*50L
	5*10H*2F*6D*50L

PCD2刃銑刀	d*H(有效長)H*D*L
CBN  	6*6H*2F*6D*50L
	6*6(25)H*2F*6D*50L
	6*6(30)H*2F*6D*75L
	6*6(50)H*2F*6D*100L
	6*6(50)H*2F*6D*120L
	6*6(90)H*2F*6D*150L
	6*8(40)H*2F*6D*120L
	6*10H*2F*6D*50L
	6*15H*2F*6D*50L
	6*20H*2F*6D*50L
	6*25H*2F*6D*60L
	8*6H*2F*8D*50L
	8*6(30)H*2F*8D*75L
	8*6(40)H*2F*8D*100L
	8*10H*2F*8D*50L
	8*15H*2F*8D*50L
	8*20H*2F*8D*60L
	8*25H*2F*8D*75L
	8*30H*2F*8D*60L
	10*6H*2F*10D*50L
	10*6(20)H*2F*10D*60L
	10*6H*2F*10D*75L
	10*6(30)H*2F*10D*75L
	10*6(50)H*2F*10D*100L
	10*6(50)H*2F*10D*120L
	10*6(100)H*2F*10D*150L
	10*10H*2F*10D*50L
	10*15H*2F*10D*50L
	10*20H*2F*10D*50L
	10*25H*2F*10D*60L
	10*30H*2F*10D*75L
	12*6H*2F*12D*50L
	12*6H*2F*12D*75L
	12*6(34)H*2F*12D*75L
	12*6(50)H*2F*12D*100L
	12*32H*2F*12D*75L
	12*36H*2F*12D*75L
	12*55H*2F*12D*100L
	14*6(35)H*2F*14D*100L
	16*6(50)H*2F*16D*100L
	16*12H*2F*16D*50L
	16*42H*2F*16D*75L

圓鼻刀可訂制
請告知R角





PCD / CBN 倒角刀



d4*60°*D4*50L

d6*60°*D6*50L

d6*60°*D6*75L

d6*90°*D6*50L

d6*90°*D6*75L

d6*120°*D6*50L

d6*120°*D6*75L

d8*60°*D8*50L

d8*60°*D8*75L

d8*90°*D8*50L

d8*90°*D8*75L

d8*120°*D8*50L

d8*120°*D8*75L

D10*60°*D10*50L

d10*60°*D10*75L

d10*90°*D10*50L

d10*90°*D10*75L

d10*120°*D10*50L

d10*120°*D10*75L

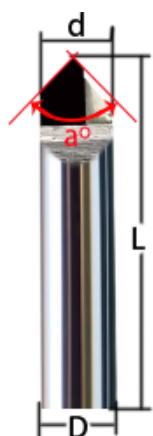
d12*60°*D12*50L

d12*60°*D12*75L

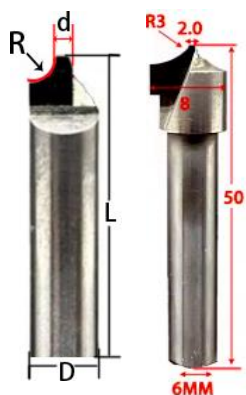
d12*90°*D12*50L

d12*90°*D12*75L

d12*120°*D12*50L



PCD/CBN 內圓弧刀



d1.0*R0.5*90°*4D*50L

d2.0*R0.5*90°*4D*50L

d2.0*R1.0*90°*4D*50L

d1.0*R1.5*90°*4D*50L

d2.0*R2.0*90°*6D*50L

d2.0*R2.5*90°*8D*50L

d2.0*R3.0*90°*6D*50L

d2.0*R4.0*90°*10D*50L

d2.0*R5.0*90°*12D*50L

d2.0*R6.0*90°*14D*50L

PCD/CBN 1刃球型刀



d1*R0.5*3H*D4*50L*1F

d2*R1*6H*D4*50L*1F

d3*R1.5*6H*D4*50L*1F

d4*R2*6H*D4*50L*1F

d4*R2*6H*D4*75L*1F

d6*R3*6H*D6*50L*1F

d6*R3*6H*D6*75L*1F

PCD/CBN 雙刃球型刀

d4*R2*6H*D4*50L*2F

d4*R2*6H*D4*75L*2F

d4*R2*6H*D4*100L*2F

d6*R3*7H*D6*50L*2F

d6*R3*7H*D6*75L*2F

d8*R4*8H*D8*75L*2F

d8*R4*8H*D8*100L*2F

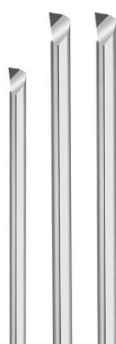
d10*R5*8H*D10*75L*2F

d10*R5*8H*D10*100L*2F

D12*R6*8H*D12*75L*2F

D12*R6*8H*D12*100L*2F

PCD/CBN 鏜孔刀(A可選70°/75°)



d1*A*R0.05*4*D4*50L

d1.5*A*R0.05*6*D4*50L

d2*A*R0.1*7*D4*50L

d2.5*A*R0.1*8*D4*50L

d3*A*R0.1*10*D4*50L

d3.5*A*R0.1*D3*50L

d3.5*A*R0.1*D3*100L

d4.5*A*R0.1*D4*50L

d4.5*A*R0.1*D4*100L

d5.5*A*R0.1*D5*50L

d5.5*A*R0.1*D5*100L

d6.5*A*R0.1*D6*50L

d6.5*A*R0.1*D6*100L

d7.5*A*R0.1*D7*100L

d8.5*A*R0.1*D8*100L

d9.5*A*R0.1*D9*100L

d10.5*A*R0.1*D10*100L

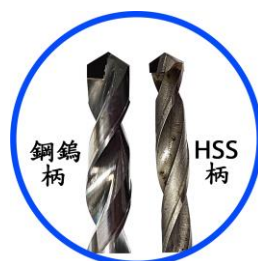




PCD麻花(平頭)鑽頭 (鎢鋼/HSS)

鎢鋼材質

平頭鑽



來電圖訂制



刃徑*刃長*柄徑*總長	刃徑*刃長*柄徑*總長	刃徑*刃長*柄徑*總長	刃徑*刃長*柄徑*總長
0.72*6*4D*50L	2.4*13*4D*50L	4.22*20*6.0D*50L	7.8*30*8D*60L
0.8*6*4D*50L	2.4*30*4D*60L	4.2*36*6.0D*75L	7.8*50*8.0D*100L
0.9*6*4D*50L	2.5*13*4D*50L	4.2*40*4.1D*80L	8.0*30*8.0D*60L
1.02*6*4D*50L	2.5*30*4D*60L	4.5*20*6.0D*50L	8.0*50*8D*100L
1.2*8*4D*50L	2.62*16*4D*50L	4.5*40*4.4D*80L	8.2*40*8.1D*80L
1.2*13*4D*50L	2.6*30*4D*60L	4.8*40*4.7D*80L	8.3*40*8.2D*80L
1.2*30*1.1D*60L	2.72*16*4D*50L	4.9*40*4.8D*80L	8.5*56*10D*100L
1.3*13*4D*50L	2.8*26*4D*75L	5.02*24*6.0D*60L	9.0*30*8.8D*60L
1.4*13*4D*50L	2.92*16*4D*50L	D5.02*36*6D*75L	9.0*58*10D*100L
1.5*8*3D*38L	3.02*16*4D*50L	5.02*40*4.9D*80L	9.5*58*10D*100L
1.5*13*4D*50L	3.0*30*2.9D*60L	5.1*40*5.0D*80L	10.0*35*9.8D*75L
1.5*30*1.4D*60L	3.12*16*4D*50L	5.2*40*5.1D*80L	10.5*40*10.3D*80L
1.6*11*4D*50L	3.1*30*3D*60L	5.5*40*5.4D*80L	11.0*40*10.5D*80L
1.6*20*4D*50L	3.2*30*3.1D*60L	5.9*40*6.0D*75L	12.0*45*12D*75L
1.6*30*1.5D*60L	3.32*18*4D*50L	6.0*26*6.0D*60L	
1.8*20*4D*50L	3.3*30*3.2D*60L	6.0*40*5.9D*80L	平底鑽頭
1.7*11*4D*50L	3.42*18*4D*50L	6.22*40*6.1D*80L	D10.0*45*10D*95L
1.8*30*1.7D*60L	3.4*30*3.3D*60L	6.3*40*6.2D*80L	D10.0*100*160L
2.0*11*4D*50L	3.52*18*4D*50L	6.5*40*6.4D*80L	D5.02*24*6.0D*60L
2.0*20*4D*50L	3.5*30*3.4D*60L	6.5*48*8.0D*100L	
2.0*30*1.9D*60L	3.8*30*3.7D*60L	6.62*40*6.5D*80L	
2.1*20*4D*50L	3.8*32*4.0D*75L	6.8*28*8.0D*60L	60°鑽頭
2.1*30*2.0D*60L	4.02*20*4.0D*50L	6.8*48*8.0D*100L	D5.0*36*6.0D*75L
2.22*13*4D*50L	4.0*32*4.0D*75L	7.0*40*80L	
2.22*20*4D*50L	4.0*40*80L	7.1*40*7.0D*80L	
2.22*30*2.1D*60L	4.12*32*4.0D*75L	7.5*30*8.0D*60L	
2.3*13*4D*50L	4.12*40*4.0D*80L	7.5*40*7.4D*80L	



一、材料適用性對照表 Material Compatibility Chart

材料 Material	PCD	MCD	CBN	Natural Diamond
鋁 Aluminum	✓	✓	X	✓
銅 Copper	✓	✓	X	✓
壓克力 Acrylic	✓	✓	X	✓
碳纖維 CFRP	✓	X	X	X
玻纖 GFRP	✓	X	X	X
石墨 Graphite	✓	X	X	X
鋁碳化矽AlSiC	✓	X	X	X
陶瓷電木 Phenolic/Ceramic Composites	✓	X	X	X
鐵 Iron	X	X	✓	X
不鏽鋼 Stainless Steel	X	X	✓	X
軸承鋼 Bearing Steel	X	X	✓	X
預硬鋼 Pre-hardened Steel	X	X	✓	X

二、產品特性 Product Features

PCD / MCD / Natural Diamond

- 超高硬度與耐磨性

Extremely high hardness and wear resistance

- 適用於非鐵金屬與高光加工

Ideal for non-ferrous and high-gloss machining

- 可達鏡面加工效果

Capable of mirror-finish machining

CBN

- 專用於高硬度鋼材加工

Designed for hardened steel machining

- 高耐熱性與高切削穩定性

Excellent thermal resistance and cutting stability



PCD/MCD/CBN 拋光刀



PCD粗拋光刀34*6*12*R6

PCD精拋光刀34*6*12*R1.2

PCD粗拋光刀32*6*12*R6

PCD精拋光刀32*6*12*R1.2

MCD精拋光刀32*6*12*R10

MCD精拋光刀34*6*12*R10

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