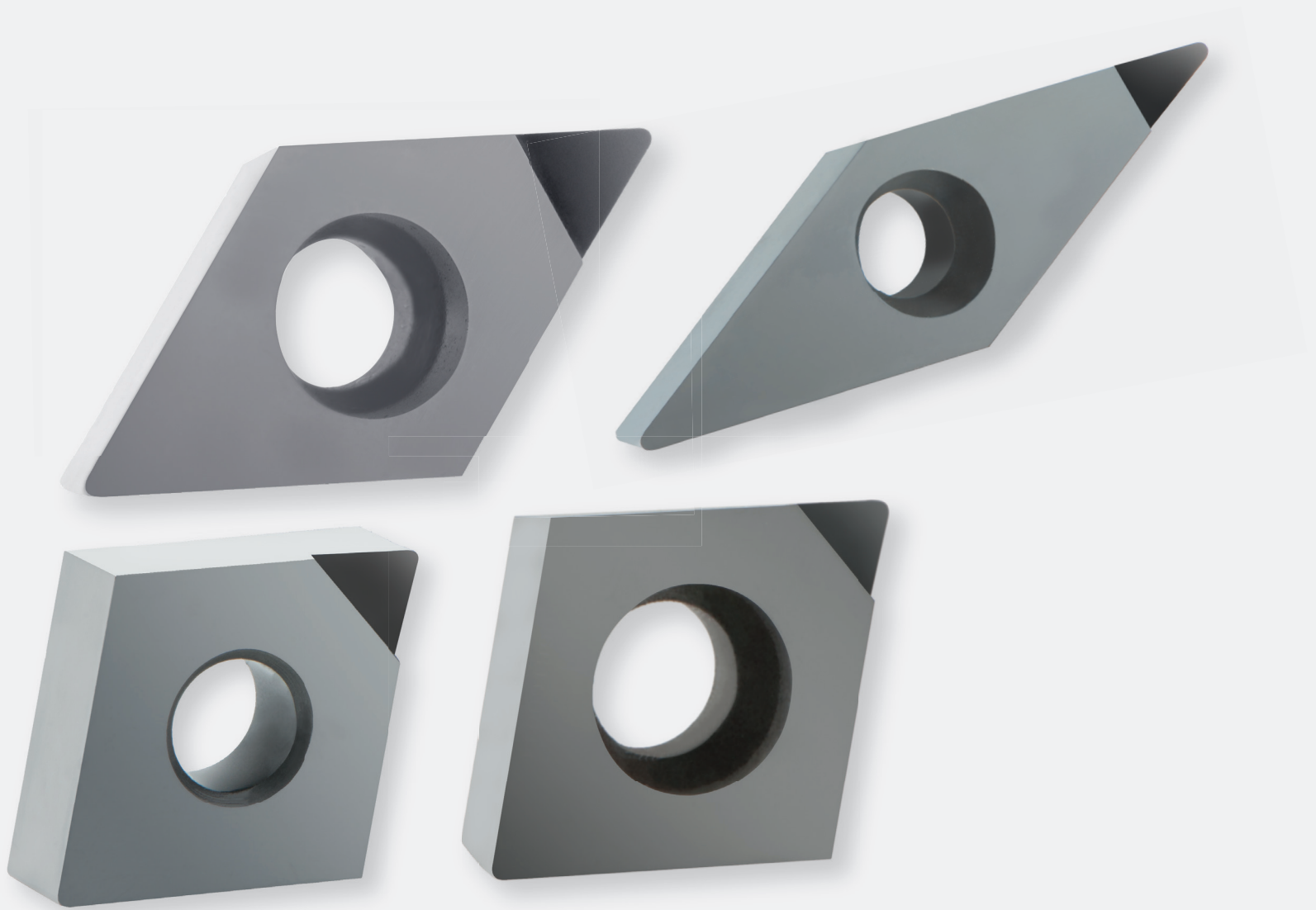
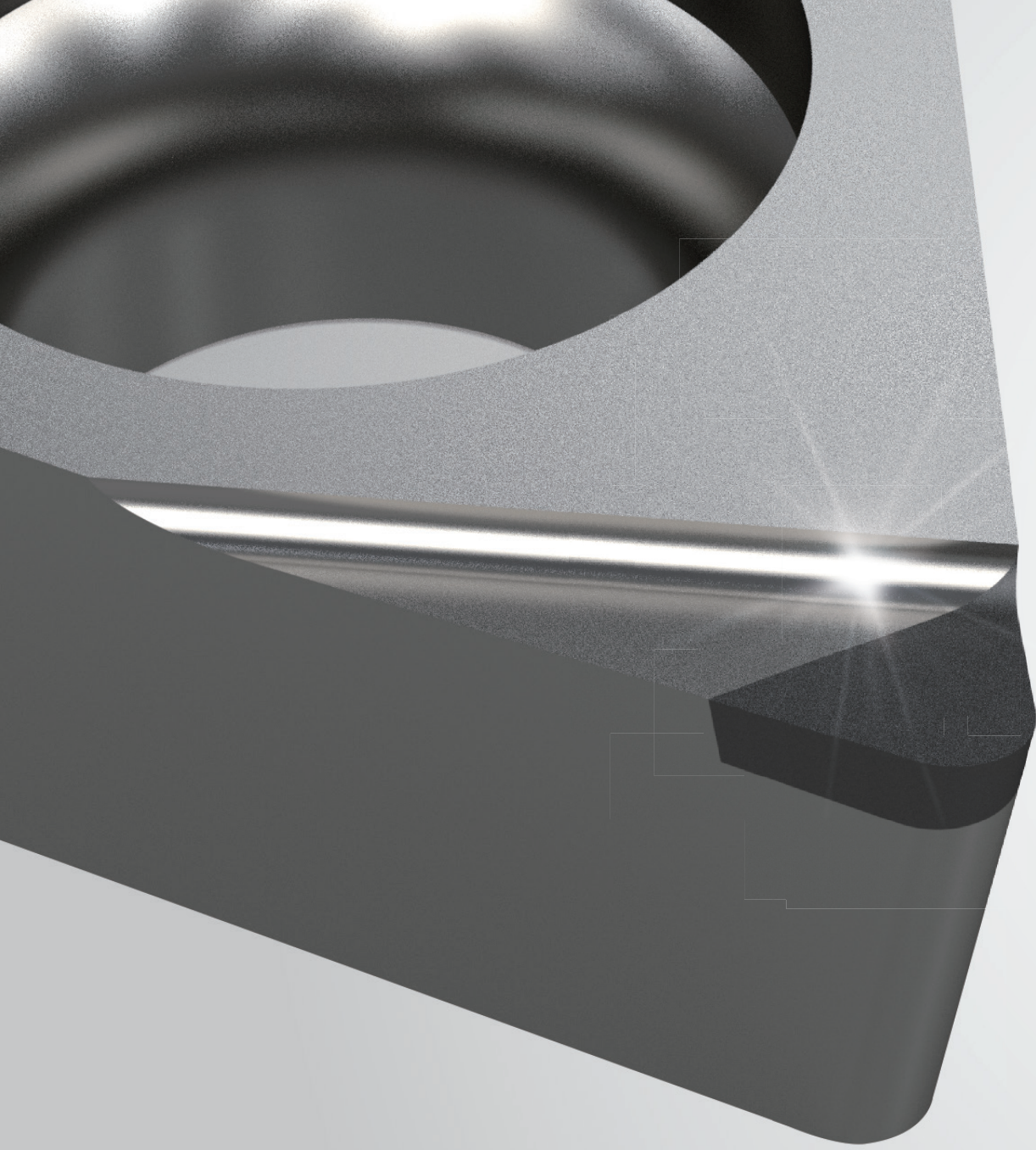




PCD&CBN 精密刀片
Precision Inserts

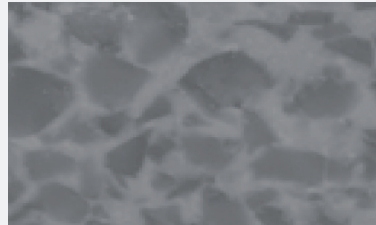
 **CHAIN
HEADWAY**
Cutting Edge Solution



富田
機立
断

PCD 適用材料

Suitable Materials for PCD



微粒金剛石

Micro-diamond

塑膠 Plastic	石墨 Graphite
黃銅青銅合金 Brass&Bronze Alloys	氧基樹脂 Epoxy Resins
矽鋁合金 Silicon-Aluminum Alloys	木材、複合木材 Wood / Compound wood
銅合金 Copper Alloys	硬質橡膠 Hard Rubber
鎂合金 Magnesium Alloy	玻璃纖維 Fibre Glass Composites
鋁合金 Aluminum Alloys	陶瓷 Ceramics
預燒結或全燒結碳化鎢 Presintered or Sintered Tungsten Carbide	碳、石碳酸 Carbon-Phenolic

刀片刃邊處理及切削方向

Symbol of Cutting Edge and Cutting Direction

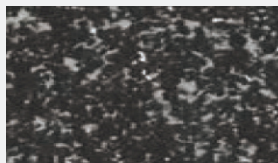
記號 Symbol	切削刃的狀態 Cutting Edge	形狀 Shape
F	大銳角削角 Sharp Cutting Edges	
E	圓切削角 Round Cutting Edges	
T	雙切削倒角 Chamfered Cutting Edges	
S	倒角及圓切削角 Chamfered and Rounded Cutting Edges	
P	雙倒角及圓切削角 Double Chamfered and Rounded Cutting Edges	

記號 Symbol	方向 Direction
R	右 Right
L	左 Left
N	標準型 無切削方向 Neutral

PCD 粒度及特性

Grain Size & Feature for PCD

PCD010



粒度 Grain Size

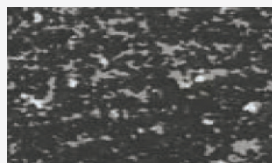
1μm

極小粒徑，表面質量首選。

Ultra diameter, best quality of surface.

- 低矽鋁合金加工 (電子產品)
Low silicon aluminium processing (electronic products)
- 鈦合金加工
Titanium alloy processing

PCD020



粒度 Grain Size

2μm

極小粒徑，表面質量首選。

Ultra diameter, best quality of surface.

- 低矽鋁合金加工 (電子產品)
Low silicon aluminium processing (electronic products)
- 鈦合金加工
Titanium alloy processing

PCD100



粒度 Grain Size

4μm

優異的表面質量，適合連續加工。

excellent quality of surface, suitable for continuous processing.

- <12% 矽鋁合金
<12% silicon aluminium
- 低矽鋁合金加工 (電子產品)
Low silicon aluminium processing (electronic products)
- 銅合金
Copper alloy

PCD250



粒度 Grain Size

25μm

高耐磨性、特殊結合提高結合強度。

High abrasion resistance and specific combination raised the strength of integration.

- >12% 矽鋁合金
>12% silicon aluminium
- 燒結及未燒結陶瓷
Shrink-fitting and non shrink-fitting ceramic
- 金屬基複合材
(MMC)
- 燒結硬質合金
Shrink-fitting hard alloy

超細晶粒結構擁有極強的刃口鋒利度和刃口耐用度，適用於需要極致表面質量的首選。 Ultra fine grain structure allows precisely sharpened and durable cutting edges. It's suitable for excellent quality of surface needed.

優異的表面質量，適合高速連續加工。 Excellent quality of surface, it's suitable for high speed continuous processing.

具有良好的耐磨性及韌性，通用性佳 It remains excellent abrasion resistance, tenacity, and great versatility.

高耐磨性、特殊結合提高結合強度。 High abrasion resistance and specific combination raised the strength of integration.

鋁合金的銑削和粗切，也適用於鈦及鈦合金和複合材料的機加工。 Milling and roughing for aluminum material and also can process titanium and titanium alloys and composite material.

非鐵金屬的一般精加工、壓模成形表面加工、ERP、硬質橡膠、木材、無機板材等的切割及端面加工。 Finishing for non-ferrous, surface milling for press forming, and face milling for ERP, hard rubber, wood, and inorganic plates.

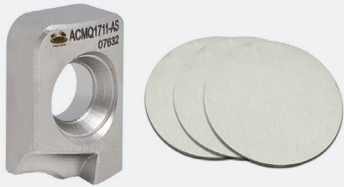
非鐵金屬的一般加工、陶瓷燒結品、壓模成形表面加工、ERP、硬質橡膠、石墨加工、木材、無機板材等的切割及端面加工。 Processing for non-ferrous, surface milling for shrink-fitting ceramic and press forming, and face-milling for ERP, hard rubber, graphite, wood, and inorganic plates.

高矽鋁合金加工、鋁複合材料的加工、硬質合金、陶瓷半燒結品、壓模成形的粗加工、陶瓷燒結加工、石材、岩石加工。 Processing for silicon aluminum alloys, aluminum composite, cemented carbide, and shrink-fitting semi-ceramic; roughing for press forming, shrink-fitting ceramic, and rock.

刀片生產

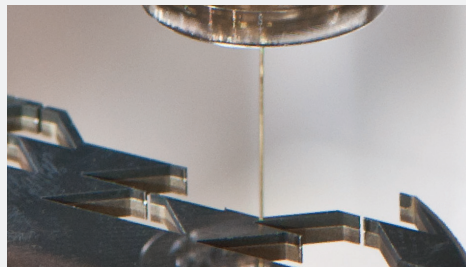
Inserts Production Way

1



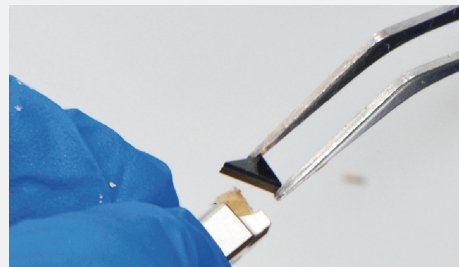
刀片基座 / PCD 毛胚
Tool base/PCD Blank

2



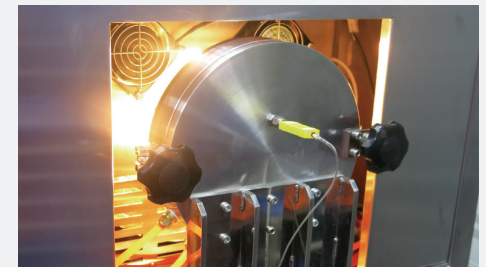
切割
Cutting

3



焊接
Welding

4



真空焊接
Vacuum welding

5



研磨
Grinding

6



檢驗
QC

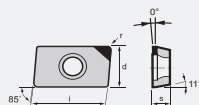
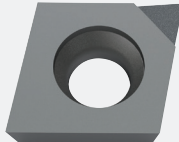
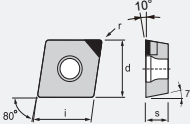
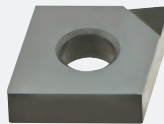
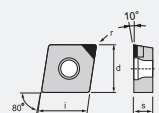
7



成品
Finished Product

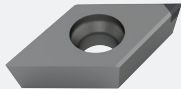
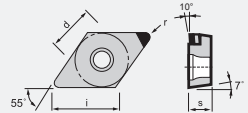
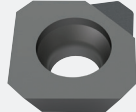
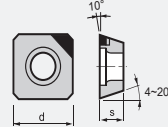
PCD 聚晶鑽石刀片

Poly Crystalline Diamond Inserts

ISO 分類	P	合金鋼 Alloyed Steels						切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting			
	M	不鏽鋼 Stainless Steels									
	K	鑄鐵 Cast Iron									
	N	鋁及鋁合金 Aluminum&Al	● ■	●	■						
	S	高溫合金 Refractory Alloys									
	H	高硬度材 Hard Material					○				
形狀 Form	規格 Spec.	聚晶鑽石 Polycrystalline diamond					尺寸 (mm)				圖形 Drawing
		DP					Size				
		PCD010	PCD020	PCD100	PCD250		d	i	s	r	
	APGW160404PDFR-F01		●	●			9.525	16.5	4.76	-	
	APGW1604PDFR-F01		●	●			9.525	16.5	4.76	-	
	CCGW060202FN-F01		●	●			6.35	6.5	2.38	0.2	
	CCGW060204FN-F01		●	●			6.35	6.5	2.38	0.4	
	CCGW09T304FN-F01		●	●			9.525	9.7	3.97	0.4	
	CCGW120404FN-F01		●	●			12.7	12.9	4.76	0.4	
	CNGA120404FN-F01		●	●			12.7	12.9	4.76	0.4	

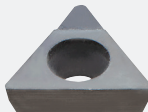
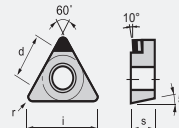
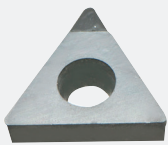
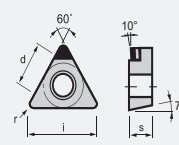
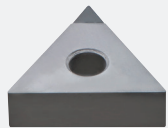
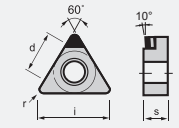
PCD 聚晶鑽石刀片

Poly Crystalline Diamond Inserts

ISO 分類	P	合金鋼 Alloyed Steels						切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting			
	M	不鏽鋼 Stainless Steels									
	K	鑄鐵 Cast Iron									
	N	鋁及鋁合金 Aluminum&Al	● ■	●	■						
	S	高溫合金 Refractory Alloys									
	H	高硬度材 Hard Material				○					
形狀 Form	規格 Spec.	聚晶鑽石 Polycrystalline diamond					尺寸 (mm)				圖形 Drawing
		DP					Size				
		PCD010	PCD020	PCD100	PCD250		d	i	s	r	
	DCGW070202FN-F01		●	●			6.35	7.8	2.38	0.2	
	DCGW070204FN-F01		●	●			6.35	7.8	2.38	0.4	
	DCGW11T302FN-F01		●	●			9.525	11.6	3.97	0.2	
	DCGW11T304FN-F01		●	●			9.525	11.6	3.97	0.4	
	SEGW120404AFFN-F01		●	●			12.7	-	4.76	-	
	SEGW1204AFFN-F01		●	●			12.7	-	4.76	-	

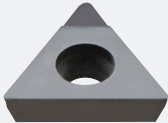
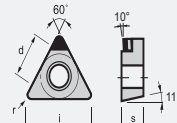
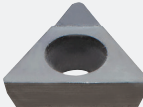
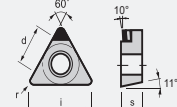
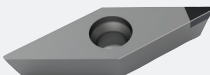
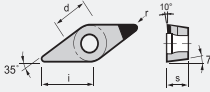
PCD 聚晶鑽石刀片

Poly Crystalline Diamond Inserts

ISO 分類	P	合金鋼 Alloyed Steels						切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting				
	M	不鏽鋼 Stainless Steels										
	K	鑄鐵 Cast Iron										
	N	鋁及鋁合金 Aluminum&Al	● ■	●	■	○						
	S	高溫合金 Refractory Alloys										
	H	高硬度材 Hard Material										
形狀 Form	規格 Spec.	聚晶鑽石 Polycrystalline diamond					尺寸 (mm)				圖形 Drawing	
		DP					Size					
		PCD010	PCD020	PCD100	PCD250		d	i	s	r		
	TBGW060102FN-F01			●	●			3.97	6.4	1.59	0.2	
	TBGW060104FN-F01			●	●			3.97	6.4	1.59	0.4	
	TCGW110202FN-F01			●	●			6.35	11	2.38	0.2	
	TCGW110204FN-F01			●	●			6.35	11	2.38	0.4	
	TCGW16T304FN-F01			●	●			9.525	16.5	3.97	0.4	
	TNGA160402FN-F01			●	●			9.525	16.5	4.76	0.2	
	TNGA160404FN-F01			●	●			9.525	16.5	4.76	0.4	

PCD 聚晶鑽石刀片

Poly Crystalline Diamond Inserts

ISO 分類	P	合金鋼 Alloyed Steels							切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting		
	M	不鏽鋼 Stainless Steels									
	K	鑄鐵 Cast Iron									
	N	鋁及鋁合金 Aluminum&Al	● ■	●	■	○					
	S	高溫合金 Refractory Alloys									
	H	高硬度材 Hard Material									
形狀 Form	規格 Spec.	聚晶鑽石 Polycrystalline diamond					尺寸 (mm)				圖形 Drawing
		DP					Size				
		PCD010	PCD020	PCD100	PCD250		d	i	s	r	
	TPGW090202FN-F01		●	●			5.56	9.6	2.38	0.2	
	TPGW090204FN-F01		●	●			5.56	9.6	2.38	0.4	
	TPGW110302FN-F01		●	●			6.35	11	3.18	0.2	
	TPGW110304FN-F01		●	●			6.35	11	3.18	0.4	
	TPGW080202FN-F01		●	●			4.76	8.2	2.38	0.2	
	TPGW080204FN-F01		●	●			4.76	8.2	2.38	0.4	
	VCGW160402FN-F01		●	●			9.525	16.5	4.76	0.2	
	VCGW160404FN-F01		●	●			9.525	16.5	4.76	0.4	
	VCGW160408FN-F01		●	●			9.525	16.5	4.76	0.8	

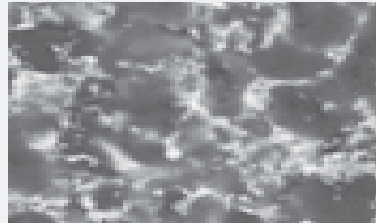
聚晶鑽石刀片切削標準

Poly Crystalline Diamond Inserts Cutting Standard

鋁合金Aluminum 4~8% SI		鋁合金Aluminum 9~13% SI	
車削 Turning 線速度 V 500~1500(m/min) 進給 F 0.1~0.4(mm/rev) 切削深度 Ap Ap 0.1~2.0(mm)	銑削 Milling 線速度 V 500~1500(m/min) 進給 F 0.1~0.3(mm/rev) 切削深度 Ap Ap 0.1~2.0(mm)	車削 Turning 線速度 V 300~500(m/min) 進給 F 0.1~0.4(mm/rev) 切削深度 Ap Ap 0.1~2.0(mm)	銑削 Milling 線速度 V 300~500(m/min) 進給 F 0.1~0.3(mm/rev) 切削深度 Ap Ap 0.1~2.0(mm)
銅合金Copper Alloy 銅、鋅、黃銅Copper, zinc, brass		塑膠Plastic	
車削 Turning 線速度 V 300~1000(m/min) 進給 F 0.03~0.3(mm/rev) 切削深度 Ap 0.05~2.0(mm)	銑削 Milling 線速度 V 300~1000(m/min) 進給 F 0.03~0.3(mm/rev) 切削深度 Ap 0.05~2.0(mm)	車削 Turning 線速度 V 300~600(m/min) 進給 F 0.1~0.2(mm/rev) 切削深度 Ap Ap 0.1~3.0(mm)	銑削 Milling 線速度 V 1000~5000(m/min) 進給 F 0.05~2.0(mm/rev) 切削深度 Ap Ap 0.1~0.4(mm)

CBN 適用材料

Suitable Materials for CBN



粗細微粒底材

Various size
substrate

工具鋼 Tool steel	硬鎳鑄鐵 Hardened ni cast iron
鑄鐵 Cast iron	鈷基合金 Cobalt-based alloy
合金鋼 Alloy steel	高溫合金 HRC35 以上 Epoxy Resins
冷激鑄鐵 Chilled cast iron	鎳基合金 Nickel-based alloy
高鈷粉末金屬 Poedered metal with more cobalt	

刀片刃邊處理及切削方向

Symbol of Cutting Edge and Cutting Direction

記號 Symbol	切削刃的狀態 Cutting Edge	形狀 Shape
F	大銳角削角 Sharp Cutting Edges	
E	圓切削角 Round Cutting Edges	
T	雙切削倒角 Chamfered Cutting Edges	
S	倒角及圓切削角 Chamfered and Rounded Cutting Edges	
P	雙倒角及圓切削角 Double Chamfered and Rounded Cutting Edges	

記號 Symbol	方向 Direction
R	右 Right
L	左 Left
N	標準型 無切削方向 Neutral

CBN 粒度及特性

Grain Size & Feature for CBN

CBN250



粒度 Grain Size
1.5μm
CBN 比例 CBN ratio
45%

輕度斷續切削，由於具有較優的耐磨性，所以非常適用在冷作工具鋼和某些閥座用合金。
Mild interrupted cutting, it's suitable for cold working of tool steel and some kinds of valve seat alloy because of the remains of the better abrasion resistance.

淬火鋼，輕斷續切削及高速連續車削。
Hardened steel, mild interrupted cutting and high speed continuous turning.

CBN300



粒度 Grain Size
1μm
CBN 比例 CBN ratio
65%

提高了粒子間的結合強度，是切刃強度最高的材質。適用於所有常見硬化鋼的中度到重度斷續車削。在韌性、月牙灣和後刀面耐磨性之間實現很好的平衡。還可用於鐵基閥座環的插銑加工。
CBN300 is the strongest cutting edge material as it has a better bonding strength between particles. Applicable for moderate to heavy interrupted turning hardened steel. Perfect balancing between the toughness of the crater and the wear resistance of the flank. Idea for plunge milling the valve seat rings.

淬火鋼，重斷續車削及銑削應用。
Hardened steel, heavy interrupted turning and milling application.

CBN400



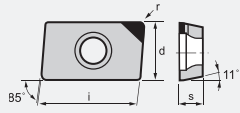
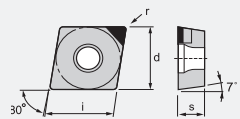
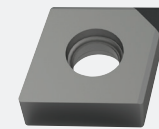
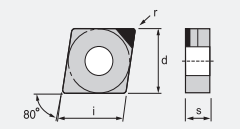
粒度 Grain Size
3μm
CBN 比例 CBN ratio
80%

耐磨與耐崩刃性的通用材質。適合刀具使用壽命更長的應用。在對灰鑄鐵和硬鑄鐵進行斷續加工，是大多數鐵基粉末金屬的優先選擇材質。
Universal material of abrasion resistance and tipping durability. An application suitable for extending life of cutter. The select choice of material in most ferrous powder metal when conducting interrupted processing on grey cast iron and hard cast iron.

適合鑄鐵類及鐵基粉末冶金零件加工。
Suitable for cast iron and ferrous powder metallurgy component processing.

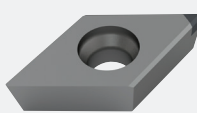
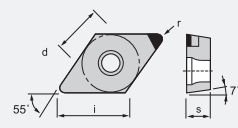
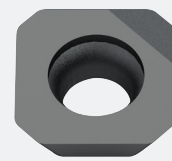
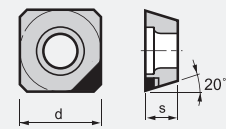
CBN 氮化硼刀片

Cubic Boron Nitride Inserts

ISO 分類	P	合金鋼 Alloyed Steels						切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting			
	M	不鏽鋼 Stainless Steels									
	K	鑄鐵 Cast Iron			■						
	N	鋁及鋁合金 Aluminum&Al									
	S	高溫合金 Refractory Alloys									
	H	高硬度材 Hard Material	●	■							
形狀 Form	規格 Spec.	氮化硼 BN					尺寸 (mm)				圖形 Drawing
		BN					Size				
		CBN250	CBN300	CBN400			d	i	s	r	
	APGW1604PDER	●					9.525	16.5	4.76	-	
	APGW1604PDFR	●					9.525	16.5	4.76	-	
	APGW1604PDTR	●					9.525	16.5	4.76	-	
	APGW1604PDSR	●					9.525	16.5	4.76	-	
	CCGW060202SN	●					6.35	6.5	2.38	0.2	
	CCGW060204SN	●					6.35	6.5	2.38	0.4	
	CCGW060208SN	●					6.35	6.5	2.38	0.8	
	CCGW09T302SN	●					9.525	9.7	3.97	0.2	
	CCGW09T304SN	●					9.525	9.7	3.97	0.4	
	CCGW09T308SN	●					9.525	9.7	3.97	0.8	
	CCGW120404SN	●					12.7	12.9	4.76	0.4	
	CNGA120404SN	●					12.7	12.9	4.76	0.4	
	CNGA120408SN	●					12.7	12.9	4.76	0.8	

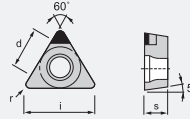
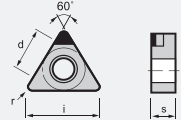
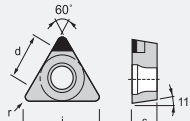
CBN 氮化硼刀片

Cubic Boron Nitride Inserts

ISO 分類	P	合金鋼 Alloyed Steels						切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting			
	M	不鏽鋼 Stainless Steels									
	K	鑄鐵 Cast Iron			■						
	N	鋁及鋁合金 Aluminum&Al									
	S	高溫合金 Refractory Alloys									
	H	高硬度材 Hard Material	●	■							
形狀 Form	規格 Spec.	氮化硼 BN					尺寸 (mm)				圖形 Drawing
		BN					Size				
		CBN250	CBN300	CBN400			d	i	s	r	
	DCGW070202SN	●					6.35	7.8	2.38	0.2	
	DCGW070204SN	●					6.35	7.8	2.38	0.4	
	DCGW070208SN	●					6.35	7.8	2.38	0.8	
	DCGW11T302SN	●					9.525	11.6	3.97	0.2	
	DCGW11T304SN	●					9.525	11.6	3.97	0.4	
	SEGW1204AFSN	●					12.7	-	4.76	-	
	SEGW1204AFTN	●					12.7	-	4.76	-	
	SEGW1204AFEN	●					12.7	-	4.76	-	
	SEGW1204AFFN	●					12.7	-	4.76	-	

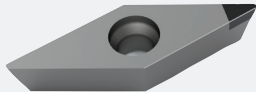
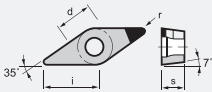
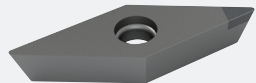
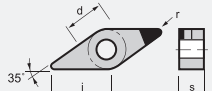
CBN 氮化硼刀片

Cubic Boron Nitride Inserts

ISO 分類	P	合金鋼 Alloyed Steels						切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting			
	M	不鏽鋼 Stainless Steels									
	K	鑄鐵 Cast Iron			■						
	N	鋁及鋁合金 Aluminum&Al									
	S	高溫合金 Refractory Alloys									
	H	高硬度材 Hard Material	●	■							
形狀 Form	規格 Spec.	氮化硼 BN					尺寸 (mm)				圖形 Drawing
		BN					Size				
		CBN250	CBN300	CBN400			d	i	s	r	
	TBGW060104SN	●					3.97	6.4	1.59	0.4	
	TNGA160402SN	●					9.525	16.5	4.76	0.2	
	TNGA160404SN	●					9.525	16.5	4.76	0.4	
	TNGA160408SN	●					9.525	16.5	4.76	0.8	
	TPGW080202SN	●					4.76	8.2	2.38	0.2	
	TPGW080204SN	●					4.76	8.2	2.38	0.4	
	TPGW090202SN	●					5.56	9.6	2.38	0.2	
	TPGW090204SN	●					5.56	9.6	2.38	0.4	
	TPGW110302SN	●					6.35	11	3.18	0.2	
	TPGW110304SN	●					6.35	11	3.18	0.4	
	TPGW110308SN	●					6.35	11	3.18	0.8	
	TPGW16T302SN	●					9.525	16.5	3.97	0.2	
	TPGW16T304SN	●					9.525	16.5	3.97	0.4	

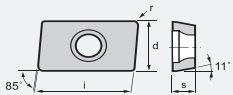
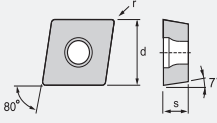
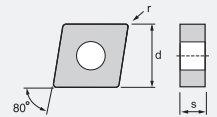
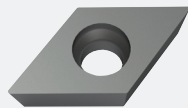
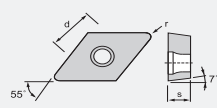
CBN 氮化硼刀片

Cubic Boron Nitride Inserts

ISO 分類	P 合金鋼 Alloyed Steels						切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting				
	M 不鏽鋼 Stainless Steels										
	K 鑄鐵 Cast Iron			■							
	N 鋁及鋁合金 Aluminum&Al										
	S 高溫合金 Refractory Alloys										
	H 高硬度材 Hard Material	●	■								
形狀 Form	規格 Spec.	氮化硼 BN					尺寸 (mm)				圖形 Drawing
		BN					Size				
		CBN250	CBN300	CBN400			d	i	s	r	
	VCGW110302SN	●					6.35	11	3.18	0.2	
	VCGW110304SN	●					6.35	11	3.18	0.4	
	VCGW160402SN	●					9.525	16.5	4.76	0.2	
	VCGW160404SN	●					9.525	16.5	4.76	0.4	
	VCGW160408SN	●					9.525	16.5	4.76	0.8	
	VNGA160404SN	●					9.525	16.5	4.76	0.4	
	VNGA160408SN	●					9.525	16.5	4.76	0.8	

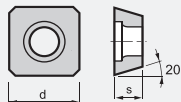
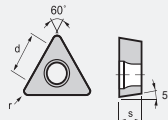
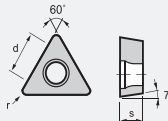
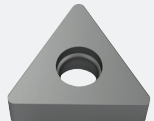
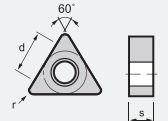
BM 毛胚刀片

Blank Inserts

ISO 分類	P	合金鋼 Alloyed Steels									切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting		
	M	不鏽鋼 Stainless Steels											
	K	鑄鐵 Cast Iron											
	N	鋁及鋁合金 Aluminum&Al											
	S	高溫合金 Refractory Alloys											
	H	高硬度材 Hard Material											
形狀 Form	規格 Spec.	硬質合金 Carbide								尺寸 (mm)			圖形 Drawing
		HC								Size			
		BM								d	i	s	
	APMW1003	●								7.0	10.85	3.58	
	APMW1604	●								9.9	16.8	5.1	
	CCMW0602	●								6.85	-	2.78	
	CCMW09T3	●								9.9	-	4.27	
	CCMW1204	●								13.1	-	5.1	
	CNMW1204	●								13.1	-	5.1	
	DCMW0702	●								6.85	-	2.78	
	DCMW11T3	●								9.9	-	4.27	

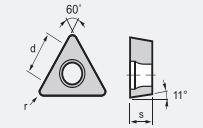
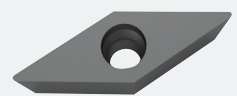
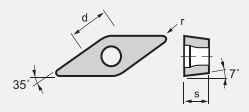
BM 毛胚刀片

Blank Inserts

ISO 分類	P	合金鋼 Alloyed Steels										切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting	
	M	不鏽鋼 Stainless Steels											
	K	鑄鐵 Cast Iron											
	N	鋁及鋁合金 Aluminum&Al											
	S	高溫合金 Refractory Alloys											
	H	高硬度材 Hard Material											
形狀 Form	規格 Spec.	硬質合金 Carbide								尺寸 (mm)			圖形 Drawing
		HC								Size			
		BM								d	i	s	
	SEMW1204	●								13.1	-	5.1	
	TBMW0601	●								4.27	-	2.0	
	TCMW0902	●								5.96	-	2.78	
	TCMW1102	●								6.75	-	2.78	
	TCMW16T3	●								9.9	-	4.27	
	TNMW1604	●								9.9	-	5.1	

BM 毛胚刀片

Blank Inserts

ISO 分類	P	合金鋼 Alloyed Steels								切削狀態 Cutting Condition : ● 連續切削 Continuous Cutting ○ 一般切削 General Cutting ■ 斷續切削 Interrupted Cutting			
	M	不鏽鋼 Stainless Steels											
	K	鑄鐵 Cast Iron											
	N	鋁及鋁合金 Aluminum&Al											
	S	高溫合金 Refractory Alloys											
	H	高硬度材 Hard Material											
形狀 Form	規格 Spec.	硬質合金 Carbide								尺寸 (mm)			圖形 Drawing
		HC								Size			
		BM								d	i	s	
	TPMW0802	●								5.1	-	2.78	
	TPMW0902	●								5.96	-	2.78	
	TPMW1103	●								6.75	-	3.58	
	TPMW16T3	●								9.9	-	4.27	
	VCMW1103	●								6.75	-	3.58	
	VCMW1604	●								9.9	-	5.1	



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