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金石之堅 · 百煉之鋼
Golden Stone Proven Steel



來自頂尖，超越頂尖

聯成鑽石工業有限公司，源自於業界頂尖，秉持著創新與研發的精神，努力為客戶設計與開發，並以多年的經驗，提升產品品質，給予客戶更優質的技術服務，聯合相關產業協力，共創美好未來。

From the top beyond the top

Liancheng Diamond Industry Co., Ltd. originates from the top of the industry, upholds the spirit of innovation and R&D, strives to design and develop for customers, and with years of experience, improves product quality, provides customers with better technical services, and cooperates with related industries. For a better future.



聯成 — 菁英連成 聯成菁英

Liancheng — Liancheng Elite



Diamond & CBN Grinding Wheels

鑽石與氮化硼砂輪

03



Diamond Brush

Handle Ceramic Fiber Abrasive Brush

鑽石毛刷及陶瓷纖維毛刷

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Diamond Files

Diamond & CBN Internal Points

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Diamond Dressing Tools

PCD & PCBN Turning Tools

鑽石修刀及鑽石車刀

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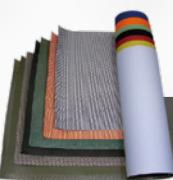


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Diamond & CBN Grinding Wheels

鑽石與氮化硼砂輪



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Diamond & CBN Grinding Wheels

鑽石與氮化硼砂輪

訂購砂輪時請指明下列事項 / When ordering, please specify

- | | |
|---------------------------|--|
| 1. 砂輪之形狀及各部尺寸：如 1A1、14A1。 | 1. Shape & dimensions of wheel : Ex. 1A1, 14A1. |
| 2. 磨料種料：鑽石或氮化硼。 | 2. Abrasive : Diamond or CBN. |
| 3. 粒度：例如：#150。 | 3. Grit size : Ex. #150. |
| 4. 集中度：例如：C-75。 | 4. Concentration : Ex. C-75. |
| 5. 結合劑：例如：樹脂結合劑或金屬結合劑。 | 5. Bond of wheel : Ex. Resin bond or Metal bond. |
| 6. 冷卻方式：乾磨或濕磨。 | 6. Coolant : Dry or wet grinding. |
| 7. 數量及交期： | 7. Quantity & Delivery date : |
| 8. 轉速及加工條件： | 8. Spindle speed & grinding conditions : |
| 9. 多數製造商都會在砂輪上標示以下資訊： | 9. Most of makers marked following information : |

SDC 磨料種類 Abrasive	150 粒度 Grit Size	N 結合度 Grade	75 集中度 Concentration	R 結合劑 Bond	3.0 磨料層厚度 Rim Thickness
D : 天然鑽石 Natural diamond	#60 #80	J 軟 / Soft L ↓	25 50	R : 樹脂結合 Resin bond	1.0mm 1.5mm
SD : 人造鑽石 Synthetic diamond	#100	N	75	M : 金屬結合 Metal bond	2.0mm
SDC : 人造金屬披覆鑽石 Synthetic metal coating diamond	#150 #200 #270	P ↓ R 硬 / Hard	100 125 150	P : 電鑄法 Electroplated V : 陶瓷法 Vitrified	3.0mm 5.0mm 10.0mm . . .
B : 氮化硼 Cubic boron nitride (CBN)	#325				
BC : 金屬披覆氮化硼 CBN with metal coating	#400 #600				

Diamond & CBN Grinding Wheels

鑽石與氮化硼砂輪

鑽石與氮化硼應用 / Applications

鑽石 (Diamond) 主要應用

1. 碳化鈷、半燒結碳化鈷。
2. 氧化鐵。
3. 石材、瓷器、耐火材料。
4. 陶瓷、寶石、藍寶石、玻璃、石英。
5. 砂、鋸、鋁碳化矽 (鈀)。
6. 磁磚、瀝青、混凝土、石棉。
7. 加強塑料 (F.R.P)、泡棉、塑膠。
8. 碳纖維與玻璃纖維、克維拉等複合材料。
9. 耐磨耗及止滑應用。

氮化硼 (CBN) 主要應用

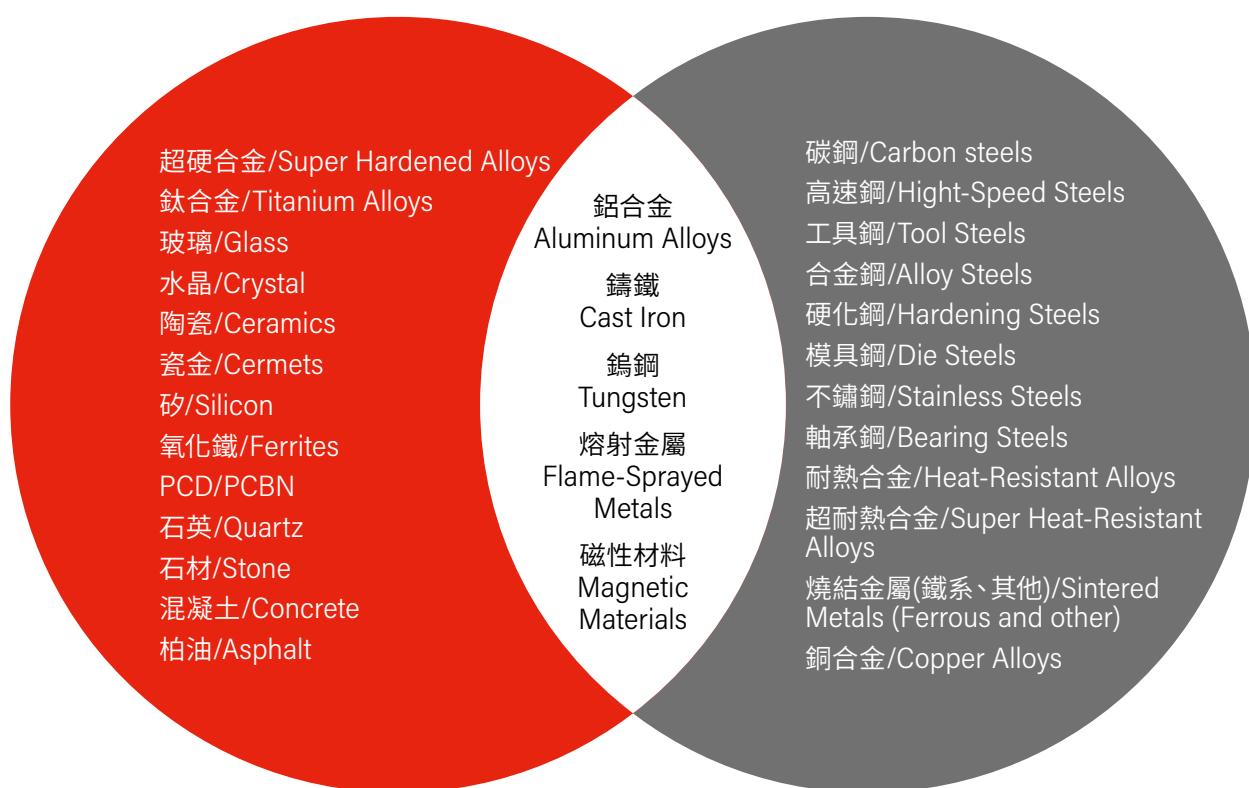
1. SK、SKS、SKH 等切削工具及另件。
2. SKD、Stellite 等耐磨工具鋼材。
3. SCM、SNCM、SCr、SUJ 等構造用鋼材。
4. SUS(不鏽鋼) 之耐蝕金屬。
5. SUH 鈦合金等耐熱金屬。
6. 鑄鐵。
7. 其他熱處理後之鋼材。

Diamond Grinding Wheels

1. Tungsten carbide, semi-sintered tungsten carbide.
2. Iron oxide.
3. Stone, porcelain, refractory materials.
4. Ceramics, gems, sapphires, glass, quartz.
5. Silicon, germanium, aluminum silicon carbide.
6. Tiles, asbestos, asphalt, concrete.
7. Reinforced plastic (F.R.P), foam, plastic.
8. Carbon fiber, glass fiber, Kevlar and other composite materials.
9. Wear resistance and anti-slip applications.

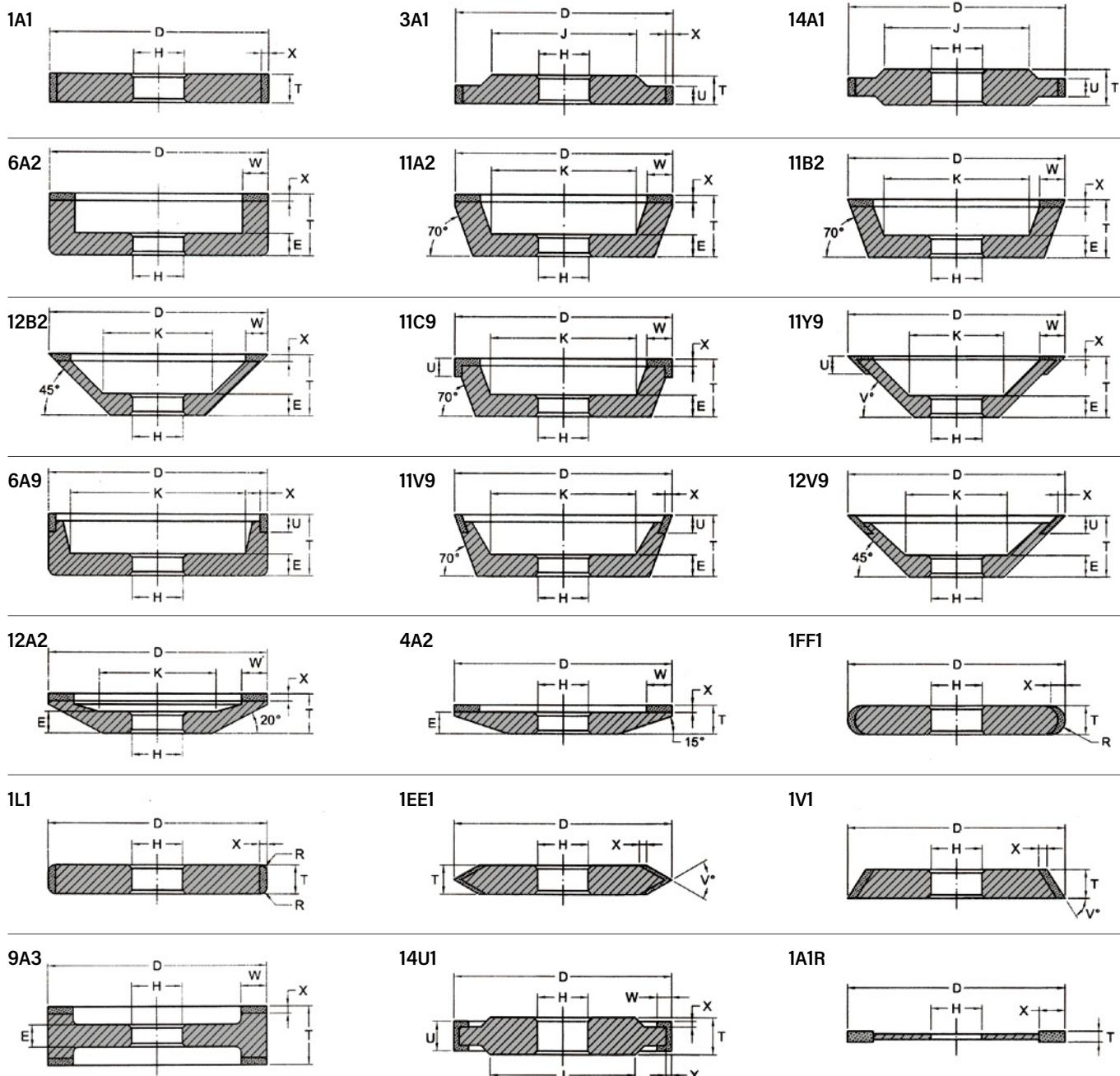
CBN Grinding Wheels

1. High alloy steels.
2. High speed tool steels.
3. Hot & cold working steels.
4. Tempering steels, Spring steel.
5. Ball bearing steel.
6. Cast iron.
7. Other steel after heat treatment.



Shape & Dimensions of Wheels

砂輪形狀及尺寸標示



砂輪訂製方法 / How to order a wheel?

若是重覆訂製，請告知工作單編號即可。

若需我們為您設計砂輪，則請告知：

- 工件名稱，材質，硬度。
- 機器名稱，型式，轉速及馬力。
- 加工條件及加工精度。

若自行設計砂輪，則告知如下例：

14A1, 350D-10U-5X-25T-250J-127H,
SDC 150N75R5.0, 溼磨。

For repeated order, just tell us the manufacturing number.

If you require us to design the wheels for you, please specify :

- Name, materials, hardness of work-piece.
- Name, type, horse power, spindle speed of machine.
- Grinding conditions.

If you have your own design, please order as below :
14A1, 350D-10U-5X-25T-250J-127H, SDC 150N75R5.0,
Wet grinding.

Electroplated Diamond & CBN Wheels

電鑄法鑽石與氮化硼砂輪



特性 / Characteristic

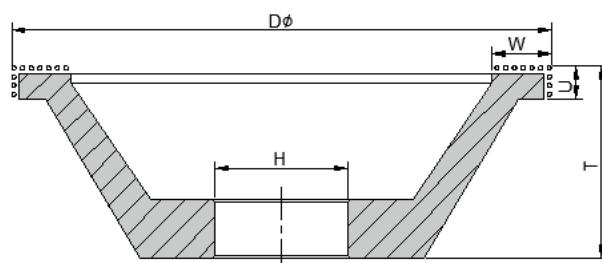
- 1. 良好的切削力。
 - 2. 良好的排屑性。
 - 3. 良好的原形保持力。
- 1. Good cutting force.
 - 2. Good chip removal.
 - 3. Good shape retention.

應用 / Application

內孔研磨、外圓研磨、平面及成型研磨、工具研磨、溝研段差研磨等。

Inner hole grinding, cylindrical grinding, plane and forming grinding, tool grinding, groove grinding, step grinding, etc.

電鑄法砂輪常用標準品規格 / Specifications for Electroforming Grinding Wheels



11C9 碗型砂輪

- * 適合鎢鋼工具之研磨，成型用。
- * Ideal for carbide tool's grinding, forming and sharpening.

編號 Order No.	D	T	W	U	H	粒度 Grit Size	備註 Remarks
WC-1005A	100	22	10	5	20	#100*	
WC-1005B	100	35	10	5	20	#100*	
WC-1005C	100	35	10	5	19.05	#100*	
WC-1605A	100	35	16	5	20	#200*	
WC-2005A	100	35	20	5	20	#200*	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Specifications for Electroplated Diamond & CBN Wheels

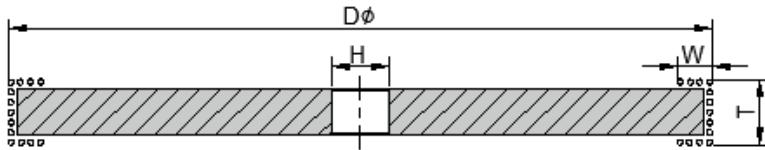
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電鑄法砂輪常用標準品規格

1A1U

* 適合鈷鋼工具之研磨，成型用。

* Ideal for carbide tool's grinding, forming and sharpening.

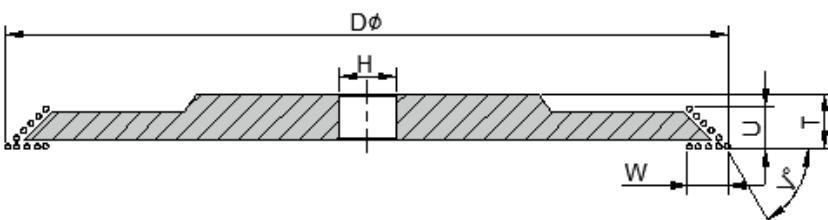


編號 Order No.	D	T	W	H	粒度 Grit Size	備註 Remarks
WS-6105A	150	10	5	31.75	#200*	
WS-6105B	150	10	5	12.70	#200*	
WS-6105C	150	10	5	15.88	#200*	

3Y1

* 適合鈷鋼工具之研磨，成型用。

* Ideal for carbide tool's grinding, forming and sharpening.

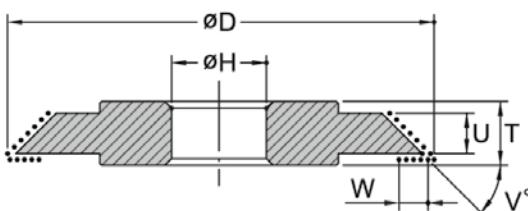


編號 Order No.	D	T	W	U	V°	H	粒度 Grit Size	備註 Remarks
WV-6645A	150	10	5	6	45	12.7	#200*	
WV-6645B	150	10	5	6	45	15.88	#200*	
WV-6660A	150	10	5	6	60	12.70	#200*	
WV-6660B	150	10	5	6	60	15.88	#200*	

14Y1

* 適合鈷鋼工具之研磨，成型用。

* Ideal for carbide tool's grinding, forming and sharpening.

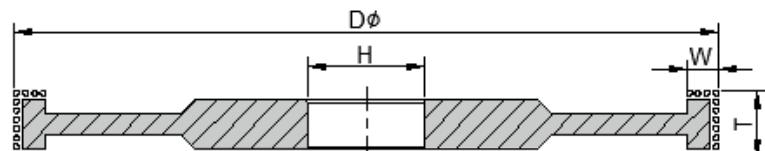


編號 Order No.	D	U	T	W	V°	H	粒度 Grit Size	備註 Remarks
WV-6645A	150	6	6	10	45°	12.70	#200*	
WV-6645B	150	6	6	10	45°	15.88	#200*	
WV-6660A	150	6	6	10	60°	12.70	#200*	
WV-6660B	150	6	6	10	60°	15.88	#200*	

14A1、14A1U

* 適合寶石、半寶石、石材研磨，成型用。

* Ideal for carbide gem stone and stones grinding.



編號 Order No.	D	T	W	H	粒度 Grit Size	備註 Remarks
WS-0625A	150	25	-	25.4	#60*	
WS-0625B	150	25	5	25.4	#60*	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Specifications for Electroplated Diamond & CBN Wheels

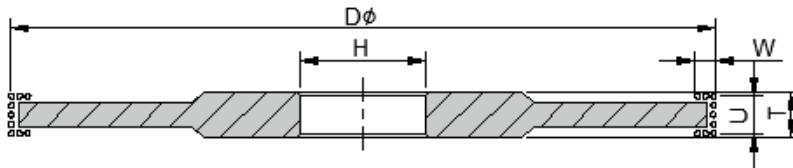
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電鑄法砂輪常用標準品規格

14A1U

* 適合鐵粉心之研磨，成型用。

* Ideal for ferrite core grinding.

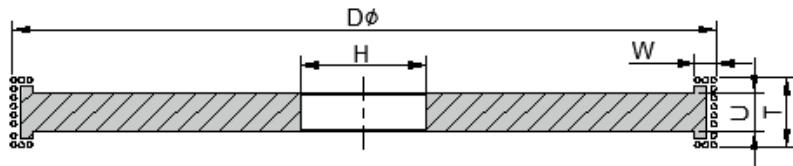


編號 Order No.	D	T	W	U	H	粒度 Grit Size	備註 Remarks
WS-7063A	175	10	3	6	31.75	#200*	
WS-7073A	175	10	3	7	31.75	#200*	
WS-7083A	175	10	3	8	31.75	#200*	
WS-7093A	175	10	3	9	31.75	#200*	

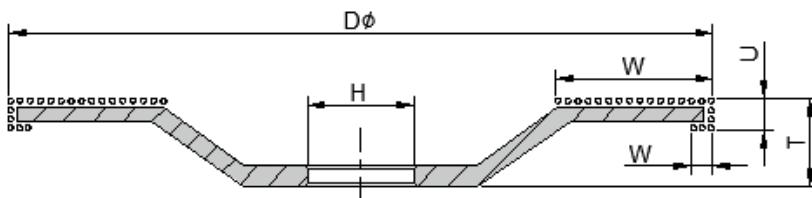
9A1U

* 適合鐵粉心之研磨，成型用。

* Ideal for ferrite core grinding.



編號 Order No.	D	T	W	E	H	粒度 Grit Size	備註 Remarks
WS-7103A	175	10	3	9.8	31.75	#200*	
WS-7113A	175	11	3	10	31.75	#200*	
WS-7123A	175	12	3	10	31.75	#200*	
WS-7133A	175	13	3	10	31.75	#200*	
WS-7143A	175	14	3	10	31.75	#200*	
WS-7153A	175	15	3	10	31.75	#200*	
WS-7163A	175	16	3	10	31.75	#200*	



編號 Order No.	D	T	W	U	H	粒度 Grit Size	備註 Remarks
103	103	12	22/2	2.5	16+3孔	#60*	

● 說明: " * " 標準粒度，其餘規格粒度請指明訂購或附上詳細圖面。/ Note: " * " standard granularity, please specify the order or attach detailed drawings for other granularity.

Resinoid Diamond & CBN Wheels

樹脂法鑽石與氮化硼砂輪



特性 \ Characteristic

- | | |
|--------------|-----------------------------|
| 1. 良好的加工精度。 | 1. Good machining accuracy. |
| 2. 良好的表面粗糙度。 | 2. Good surface roughness. |
| 3. 良好的砂輪壽命。 | 3. Good wheel life. |

應用 \ Application

內孔研磨、外圓研磨、平面及成型研磨、工具研磨、溝研段差研磨等。

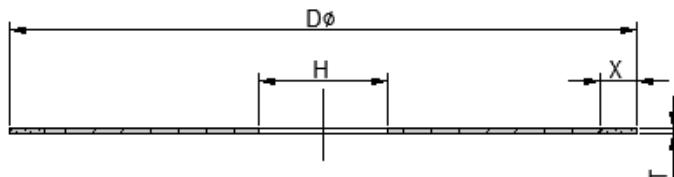
Inner hole grinding, cylindrical grinding, plane and forming grinding, tool grinding, groove grinding, step grinding, etc.

樹脂法砂輪常用標準品規格 \ Specifications for resinoid diamond & CBN wheels

1A1 R

* 適用於平面磨床 ($\varnothing 31.75$ 孔) 或沖頭切斷機 ($\varnothing 19.05$ 孔)，用於切斷鎢鋼，陶瓷 (SDC) 或硬化鋼材 (BC)。

* Apply on surface grinding machine or cutting machine, to cut the carbide,ceramics (SDC) or hardened steels (BC).



編號 Order No.	D	T	X	H	粒度 Grit Size	備註 Remarks
RD-06017A	150	1.0	7	31.75	D120*	
RB-06017A	150	1.0	7	31.75	B120*	
RD-06017B	150	1.0	7	19.05	D120*	
	150	1.0	7	19.05	B120*	
	200	1.0	7	19.05	D120*	
	200	1.0	7	31.75	D120*	

Specifications for Resinoid Diamond & CBN Wheels

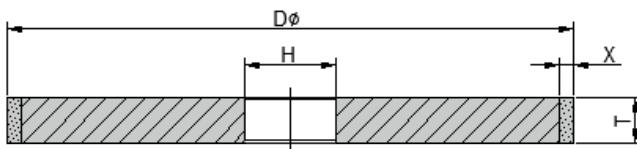
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樹脂法砂輪常用標準品規格

1A1

* 適用於平面磨床、研磨鈷鋼、
陶瓷 (SDC) 或硬化鋼材 (BC)。

* Apply on surface grinding
machine, to grind carbide(SDC)
or hardened steels(BC).

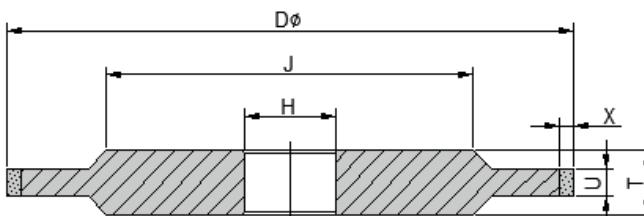


編號 Order No.	D	T	X	U	H	粒度 Grit Size	備註 Remarks
RD-06103A	150	10	3	-	31.75	D150*	
RB-06103A	150	10	3	-	31.75	B150*	
RD-07103A	175	10	3	-	31.75	D150*	
RB-07103A	175	10	3	-	31.75	B150*	
RB-07133A		175	13	3	-	31.75	B150*
		180	10	3	-	31.75	D150*
		180	10	3	-	31.75	B150*
		180	10	5	-	31.75	D150*
		180	10	5	-	31.75	B150*
		180	13	3	-	31.75	D150*
		180	13	3	-	31.75	B150*
		180	13	5	-	31.75	D150*
		180	13	5	-	31.75	B150*

14A1

* 適用於平面磨床、研磨鈷鋼、
陶瓷 (SDC) 或硬化鋼材 (BC)。

* Apply on surface grinding
machine, to grind carbide(SDC)
or hardened steels(BC).



編號 Order No.	D	T	X	U	H	粒度 Grit Size	備註 Remarks
RD-06033A	150	10	3	3	31.75	D150*	
RB-06033A	150	10	3	3	31.75	B150*	
RD-06063A	150	10	3	6	31.75	D150*	
RB-06063A	150	10	3	6	31.75	B150*	
RD-06083A	150	10	3	8	31.75	D150*	
RD-07063A		175	10	3	6	31.75	D150*
		300	15	5	-	101.6	D150*
		300	15	5	-	101.6	B150*
		300	15	5	-	101.6	D150*
		300	15	5	-	101.6	B150*
		350	15	5	-	127	D150*
		350	15	5	-	127	B150*
		350	20	10	-	127	D150*
		350	20	10	-	127	B150*
		350	15	10	-	127	D150*
		350	15	10	-	127	B150*

● 說明: " * " 標準粒度，其餘規格粒度請指明訂購或附上詳細圖面。/ Note: " * " standard granularity, please specify the order or attach detailed drawings for other granularity.

Specifications for Resinoid Diamond & CBN Wheels

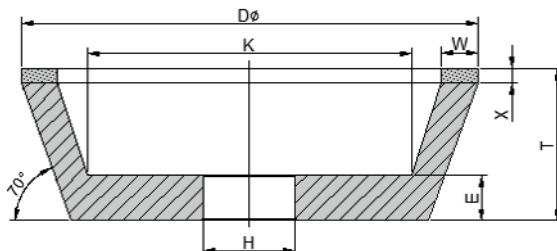
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樹脂法砂輪常用標準品規格

11A2

* 適用於工具磨床，鎢鋼刀具研磨及成型用。

* Apply on tool grinding machine, to grind or form the carbide tools.

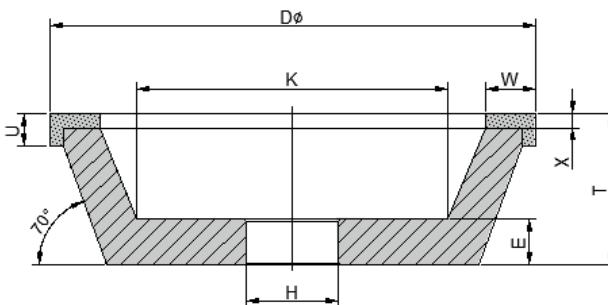


編號 Order No.	D	T	W	X	H	粒度 Grit Size	備註 Remarks
RD-04082A	100	40	8	2	20	D150*	
RD-04103A	100	30	10	3	20	D200*	
RD-04103C	100	30	10	3	19.05	D200*	

11C9

* 適用於工具磨床，鎢鋼刀具研磨及成型用。

* Apply on tool grinding machine, to grind or form the carbide tools.

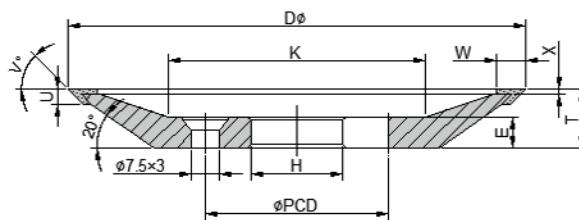


編號 Order No.g	D	T	W	X	U	H	粒度 Grit Size	備註 Remarks
RD-04815A	100	40	8	1	5	20	D150*	

12Y9C

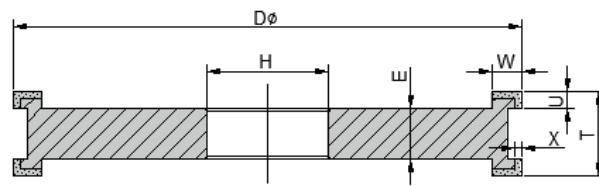
* 適用於自動車床刀具研磨機、鎢鋼車刀研磨。

* For tool grinding machine, to sharpen the carbide turning tools.



編號 Order No.	D	T	W	X	U	V°	H	粒度 Grit Size	備註 Remarks
RD-05815A	125	16	8	1	-	-	25	D400*	
RD-05815B	125	16	8	1	5	60°	25	D600*	
RD-05815C	125	16	8	1	5	45°	25	D400*	

9C3



編號 Order No.	D	T	W	X	U	H	粒度 Grit Size	備註 Remarks
	150	25	8	2	5	36	D200*	
	150	25	8	2	5	36	D400*	
	150	25	8	2	5	36	D600*	

● 說明: " * " 標準粒度，其餘規格粒度請指明訂購或附上詳細圖面。/ Note: " * " standard granularity, please specify the order or attach detailed drawings for other granularity.

Super Composite Diamond & CBN Wheel

超級複合式鑽石與 CBN 砂輪



在本公司研發人員努力下，我們開發出新一代的樹脂結合劑配方，這一系列全新的鑽石與 CBN 砂輪，擁有更長的加工壽命，更快的研磨效率，並降低砂輪的修整頻率，提供給您的是更高性價比的產品。

With the efforts of our R&D personnel, we have developed a new generation of resin bond formulations. This series of brand new diamond and CBN grinding wheels have longer processing life, faster grinding efficiency, and reduce the frequency of grinding wheels. What you get is a more cost-effective product.

特性 \ Characteristic

1. 使用特殊的複合式結合劑，以 600° C 超高燒結溫度製作而成 (市面上的燒結溫度為 180~240° C)。
2. 超級複合式砂輪可以承受更高的研磨熱度，不會因高溫脆化而降低對磨料的抓著力。
3. 砂輪壽命方面，比一般樹脂結合劑高出 3~6 倍。
4. 砂輪切削力比一般樹脂結合劑提升 2~4 倍的移除量。
5. 形狀保持力以及加工光潔度也大幅提升。

1. Using a special composite bond, it is made at an ultra-high sintering temperature of 600° C (the sintering temperature on the market is 180~240° C).
2. The super compound grinding wheel can withstand higher grinding heat, and will not reduce the grip on the abrasive due to high temperature embrittlement.
3. The life of the grinding wheel is 3~6 times longer than the general resin bond.
4. The cutting force of the grinding wheel is increased by 2~4 times the removal amount than the general resin bond.
5. Shape retention and processing finish are also greatly improved.

應用 \ Application

非常適用於 CNC 工具磨床的加工使用，尤其是銑刀，鑽頭，以及鎢鋼成型研磨。

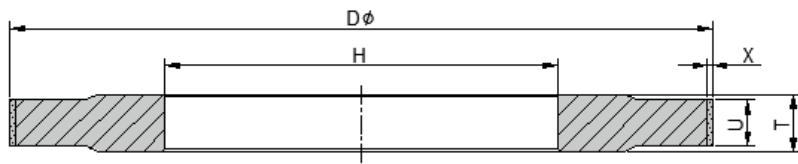
It is very suitable for the processing and use of CNC tool grinders, especially milling cutters, drill bits, and tungsten steel forming grinding.

Ceramic Grinding Wheels

陶瓷法砂輪常用標準品規格

* 適用於汽機車凸軸輪研磨。

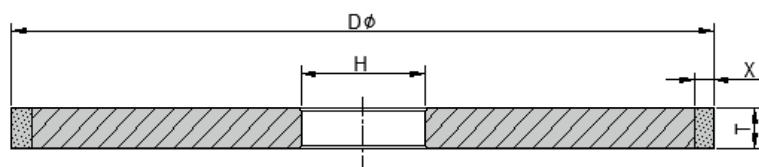
* Suitable for automatic lathe tool grinding machine, tungsten steel turning tool grinding.



編號 Order No.	D	T	X	U	H	粒度 Grit Size	備註 Remarks
610	40	40	8	25	304.8	B150	

* 適用於一般平面精密研磨。

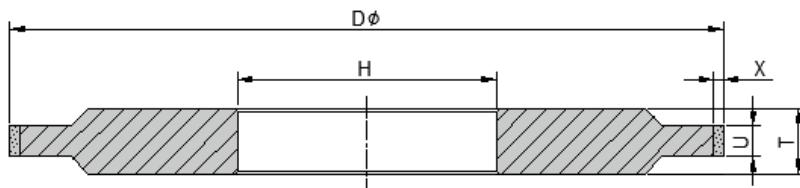
* Suitable for general plane precision grinding.



編號 Order No.	D	T	X	U	H	粒度 Grit Size	備註 Remarks
180	10	10	5	-	31.75	D150	
180	10	10	5	-	31.75	B150	
180	10	10	5	-	31.75	D400	
180	10	10	5	-	31.75	B400	

* 適用於一般平面精密研磨。

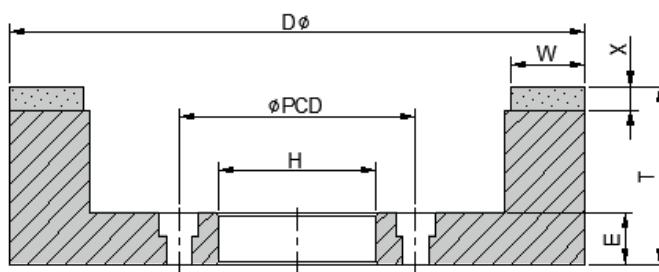
* Suitable for general plane precision grinding.



編號 Order No.	D	T	X	U	H	粒度 Grit Size	備註 Remarks
350	32	32	5	15	127	D150	
350	32	32	5	15	127	B150	
350	32	32	5	15	127	D400	
350	32	32	5	15	127	B400	

PCB、PCBN 等鑽石刀具研磨用砂輪 / PCB, PCBN & Other Diamond Tool Grinding Wheels

6A2



編號 Order No.	D	T	W	X	H	粒度 Grit Size	備註 Remarks
150	150	45	5	6	40+4 孔	VD600	
150	150	45	10	10	40+4 孔	VD1500	
150	150	45	20	10	40+4 孔	VD3000	
						VD5000	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Super Hard Tool Grinding Series

Grinding Wheel

KKdia
聯成鑽石

超硬刀具研磨系列砂輪

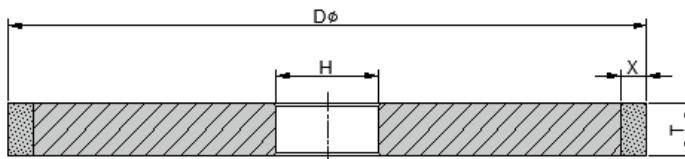
本公司針對 CNC 五軸工具研磨機生產高效能 HD 鑽石砂輪，通用於各大 CNC 五軸工具研磨機，研磨端銑刀、球型銑刀等各式刀具之開溝 (flute)、刀刃口 (relief)、屑槽 (gash) 等研磨。

The company produces high-performance HD diamond grinding wheels for CNC five-axis tool grinders, which are commonly used in major CNC five-axis tool grinders, grinding end mills, ball milling cutters and other tools such as flutes and cutting edges (Relief, Gash, etc. grinding).



鑽石與氮化硼砂輪常用標準品規格 \ Diamond and CBN Grinding Wheel standard product specifications

1A1



編號
Order No.

D

T

X

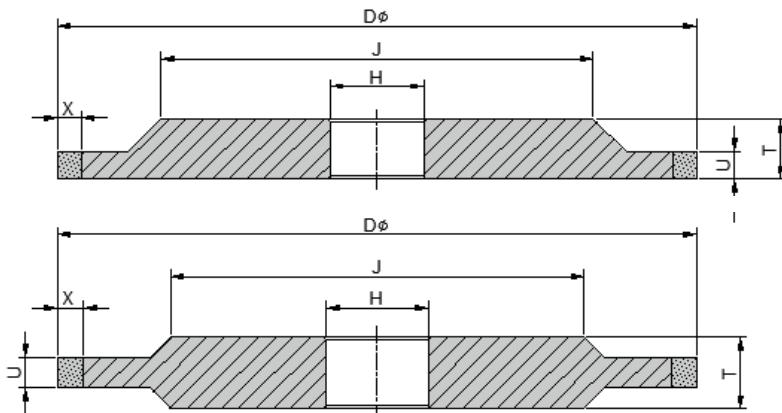
H

備註
Remarks

125	8~12	5、6	依客戶指定
-----	------	-----	-------

150	8~12	5、6	依客戶指定
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3A1、14A1



編號
Order No.

D

T

X

U

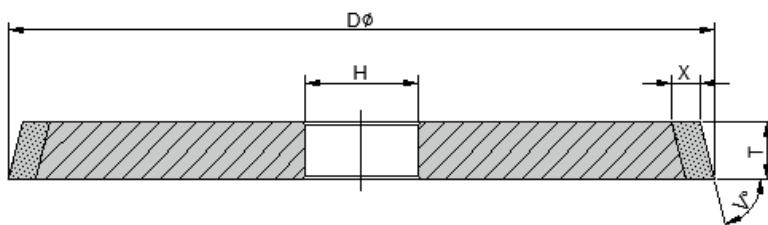
H

備註
Remarks

125	8~12	3、5	1~3	依客戶指定
-----	------	-----	-----	-------

150	8~12	5、6	4~10	依客戶指定
-----	------	-----	------	-------

1V1



編號
Order No.

D

T

X

V°

H

備註
Remarks

125	8~12	5、6	10°~45°	依客戶指定
-----	------	-----	---------	-------

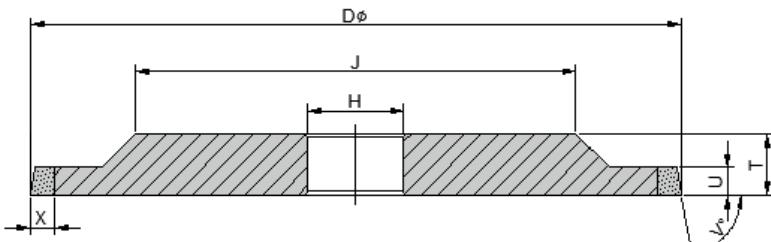
150	8~12	5、6	10°~45°	依客戶指定
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● 說明：其餘規格粒度請指明訂購或附上詳細圖面。 / Note: For other specifications, please indicate the order or attach a detailed drawing.

Specifications for Diamond & Boron Nitride Grinding Wheels

KKdia
聯成鑽石

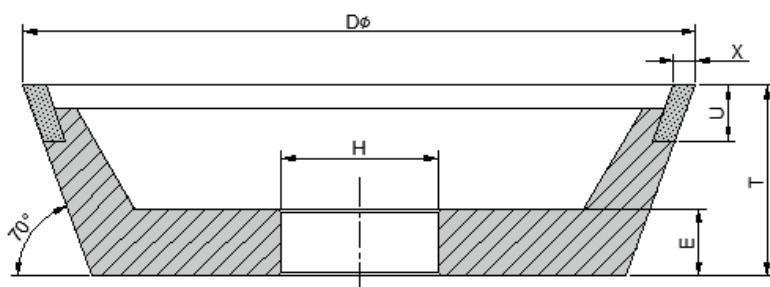
鑽石與氮化硼砂輪常用標準品規格



3V1、14V1

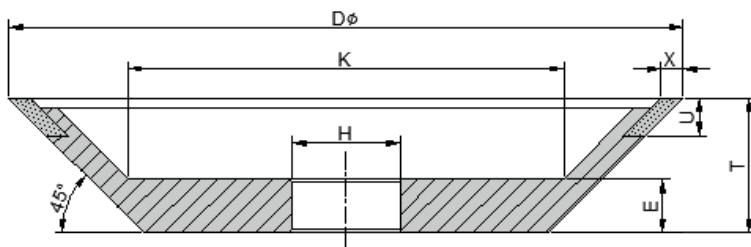
編號 Order No.	D	T	X	V°	U	H	備註 Remarks
	125	8~12	3、6	10°~45°	1~3		依客戶指定
	150	8~12	5、6	10°~45°	4~10		依客戶指定

11V9



編號 Order No.	D	S	T	X	U	H	備註 Remarks
	75	70°	30、35	3	6、8、10		依客戶指定
	85	70°	30、35	3	6、8、10		依客戶指定
	90	70°	30、35	3	6、8、10		依客戶指定
	100	70°	30、35	3	6、8、10		依客戶指定
	125	70°	30、35	3	6、8、10		依客戶指定

12V9



編號 Order No.	D	S	T	X	U	H	備註 Remarks
	100	45°	25、30	3	6、8、10		依客戶指定
	110	45°	25、30	3	6、8、10		依客戶指定
	125	45°	25、30	3	6、8、10		依客戶指定

● 說明: 其餘規格粒度請指明訂購或附上詳細圖面。 / Note: For other specifications, please indicate the order or attach a detailed drawing.

Grinding Wheel for Forming & Grinding The End Face of Ball Milling Cutter

KKdia
聯成鑽石

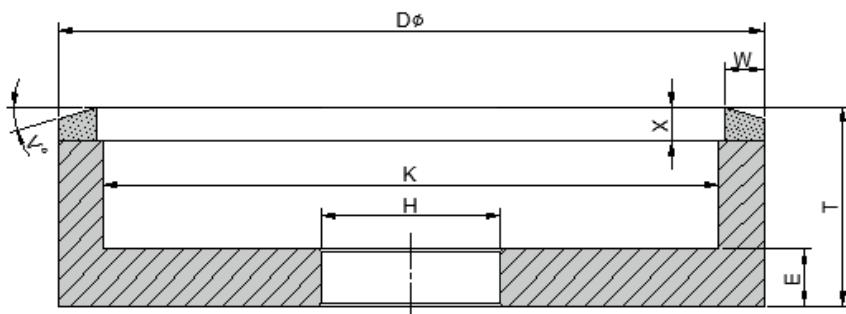
用於球型銑刀端面成型研磨之砂輪



複合式鑽石與氮化硼砂輪 / Hybrid Diamond/CBN grinding wheels

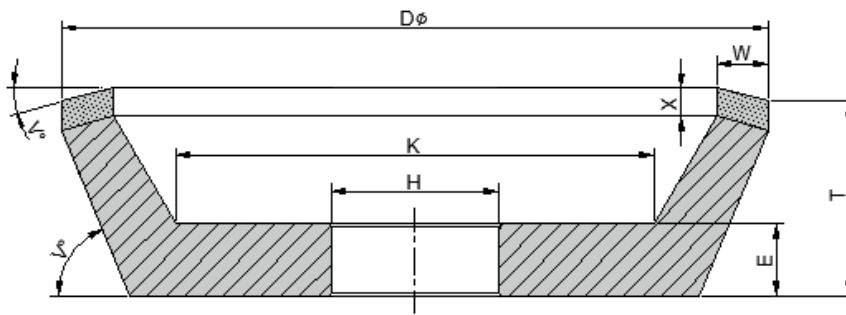
鑽石與氮化硼砂輪常用標準品規格 \ Diamond and CBN Grinding Wheel standard product specifications

6V5



編號 Order No.	D	W	X	V°	粒度 Grit Size	備註 Remarks
75	6~10	3~10			D200	
100	6~12	3~10			D250	B170
125	6~12	6~10		30°	D400	B400
150	8~12	6~15		45°	D600	B600
200	10~20	6~15			D800	

12V5



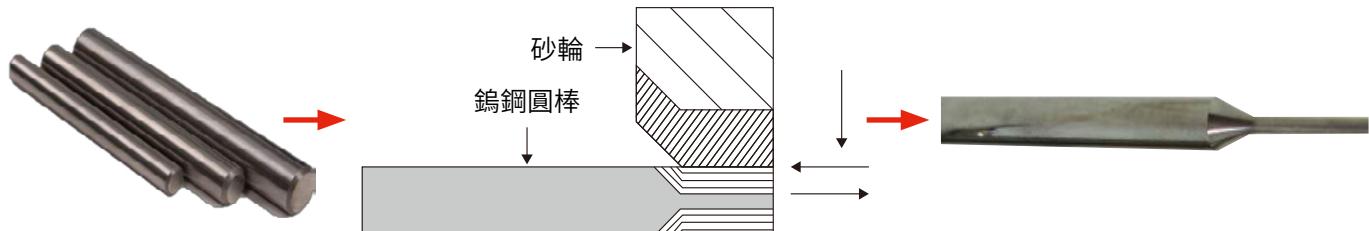
編號 Order No.	D	W	X	V°	粒度 Grit Size	備註 Remarks
75	6~10	3~10			D200	
100	6~12	3~10			D250	B170
125	6~12	6~10		30°	D400	B400
150	8~12	6~15		45°	D600	B600
200	10~20	6~15			D800	

● 說明: 其餘規格粒度請指明訂購或附上詳細圖面。 / Note: For other specifications, please indicate the order or attach a detailed drawing.

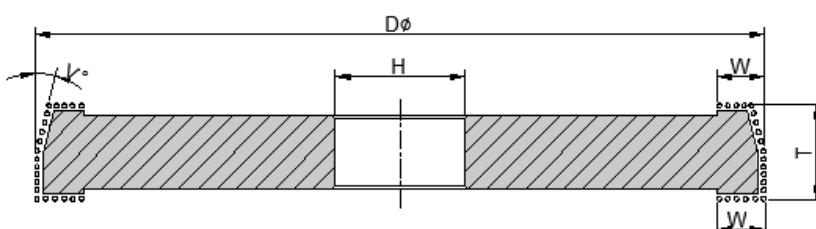
Special Grinding Wheel for Tungsten Steel Round Bar Breakage Grinding

KKdia
聯成鑽石

鈦鋼圓棒斷差研磨專用砂輪

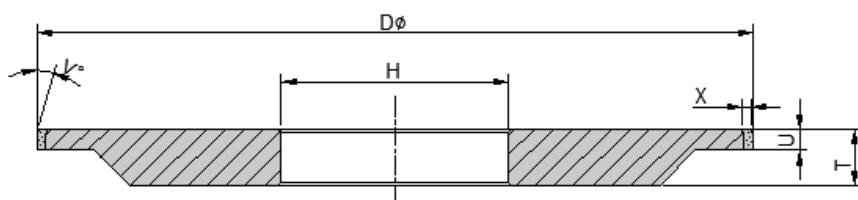


電鑄砂輪常用規格 \ Common specifications of electroforming grinding wheel

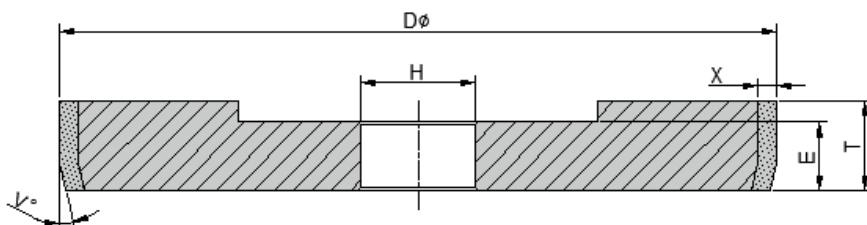


編號 Order No.	D	T	W	V°	H	粒度 Grit Size	備註 Remarks
175	175	20	10	15	31.75	#200	

樹脂砂輪常用規格 \ Common specifications of resin grinding wheels



編號 Order No.	D	T	U	X	V°	H	粒度 Grit Size	備註 Remarks
400	400	32	12	5	15	127	#150	
400	400	32	12	5	15	127	#200	
400	400	32	12	5	45	127	#150	
400	400	32	12	5	45	127	#800	



編號 Order No.	D	T	X	V°	H	粒度 Grit Size	備註 Remarks
200	200	25	5	12	31.75	#150	
200	200	25	5	12	31.75	#200	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Centerless Grinding of Diamonds & CBN Wheels

KKdia
聯成鑽石

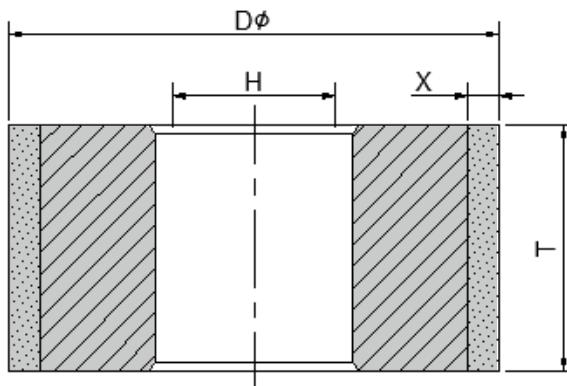
無心研磨鑽石與 CBN 砂輪



本公司生產高效能之無心研磨用鑽石與 CBN 砂輪，主要用於鎢鋼圓棒、陶瓷、玻璃、石英、矽棒及 H.S.S 圓棒之研磨加工。

The company produces high-performance centerless grinding diamond and CBN grinding wheels, which are mainly used for tungsten steel rods, ceramics, glass, quartz, silicon rods and Grinding of H.S.S round bars.

砂輪形式及規格 \ Grinding wheel form and specification



1A

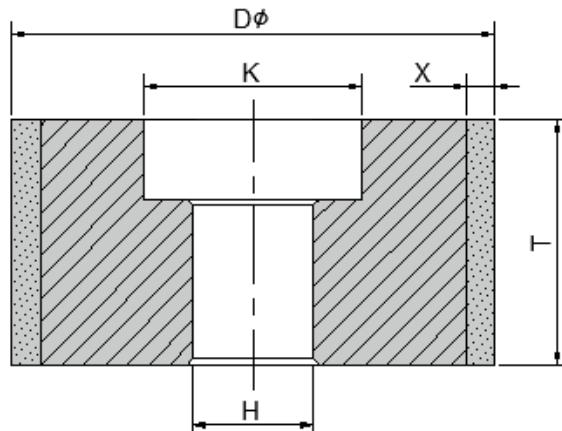
編號 Order No.	D	T	X	H	備註 Remarks
	300	50~150	5	120	
	350	75~150	5	127	
	400	75~205	5	203.2	
	450	75~205	5	208.6	
	510	100~305	5	228.6	
	610	100~300	5	304.8	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。 / Note: For other specifications, please indicate the order or attach a detailed drawing.

Centerless Grinding of Diamonds & CBN Wheels

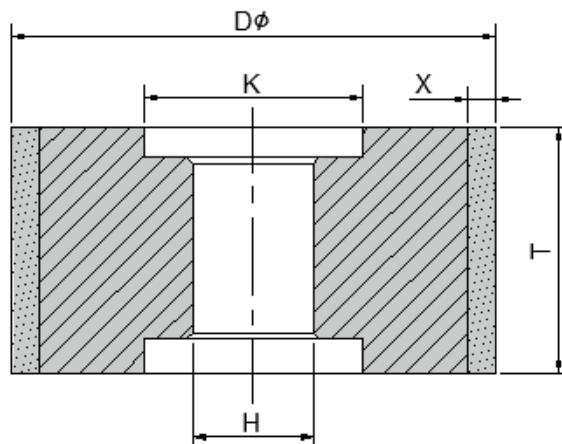
KKdia
聯成鑽石

無心研磨鑽石與氮化硼砂輪



5A

編號 Order No.	D	T	X	H	備註 Remarks
300	50~150	5	120		
350	75~150	5	127		
400	75~205	5	203.2		
450	75~205	5	208.6		
510	100~305	5	228.6		
610	100~300	5	304.8		



7A

編號 Order No.	D	T	X	H	備註 Remarks
300	50~150	5	120		
350	75~150	5	127		
400	75~205	5	203.2		
450	75~205	5	208.6		
510	100~305	5	228.6		
610	100~300	5	304.8		

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Diamond & Boron Nitride Cutting Wheels

KKdia
聯成鑽石

鑽石與氮化硼切斷砂輪

本公司生產鎢鋼專用切斷砂輪，及 H.S.S 專用切斷砂輪，主要用於鎢鋼及 H.S.S 圓棒之裁切使用，效率高、壽命佳。

Our company produces special cutting wheels for tungsten steel and H.S.S special cutting wheels, which are mainly used for cutting tungsten steel and H.S.S round bars, with high efficiency and long life.

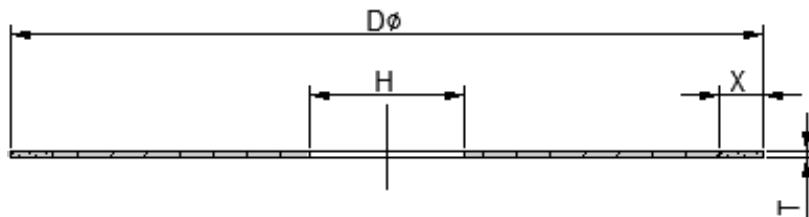


鑽石與氮化硼切斷砂輪常用標準品規格 \ Specifications for diamond and boron nitride cutting wheels

1A1 R

* 適用於平面磨床 (31.75 孔) 或沖頭切斷機 (19.05 孔)，用於切斷鎢鋼、陶瓷 (SDC) 或硬化鋼材 (BC)。

* Suitable for surface grinder (31.75 hole) or punch cutter (19.05 hole), used to cut tungsten steel, ceramic (SDC) or hardened steel (BC).



編號 Order No.	D	T	X	H	粒度 Grit Size	備註 Remarks
RD-06017A	150	1.0	7	31.75	D120	
	150	1.0	7	31.75	B120	
RD-06017B	150	1.0	7	19.05	D120	
	150	1.0	7	19.05	B120	
	200	1.0	7	19.05	D120	
	200	1.0	7	31.75	D120	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Metal Diamond & Boron Nitride Grinding Wheel

金屬法鑽石與氮化硼砂輪



特性 \ Characteristic

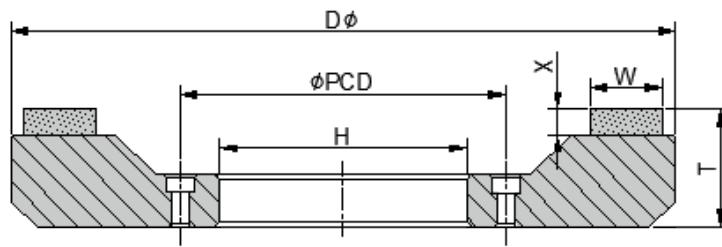
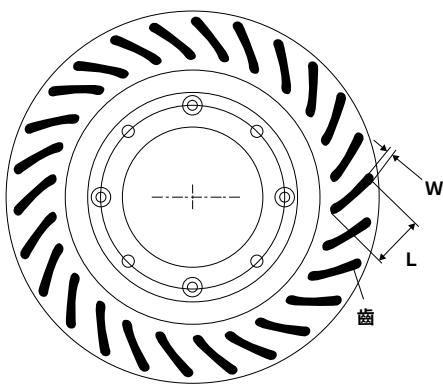
- 1. 良好的耐磨特性。
- 2. 良好的磨利保持力。
- 1. Good wear characteristics.
- 2. Good grinding retention.

應用 \ Application

齒輪研磨、工具研磨、超硬合金的研磨、電解研磨、仿孔研磨、精密加工、要求保持砂輪形狀不變的成形加工、輪廓加工、LED、陶瓷、玻璃、石英、半導體等硬脆材料研磨加工等。

Gear grinding, tool grinding, cemented carbide grinding, electrolytic grinding, hole-like grinding, precision processing, forming processing that requires the shape of the grinding wheel to remain unchanged, contour processing, LED, ceramic, glass, quartz, semiconductor and other hard and brittle materials grinding processing Wait.

晶圓背磨、LED、藍寶石加工專用研磨砂輪 / Special Grinding Wheels for Wafer Back Grinding, LED, Sapphire Processing



編號 Order No.	D	S	H	粒度 Grit Size	備註 Remarks
	150	26(3W×10X×35L)	6	D325/400	

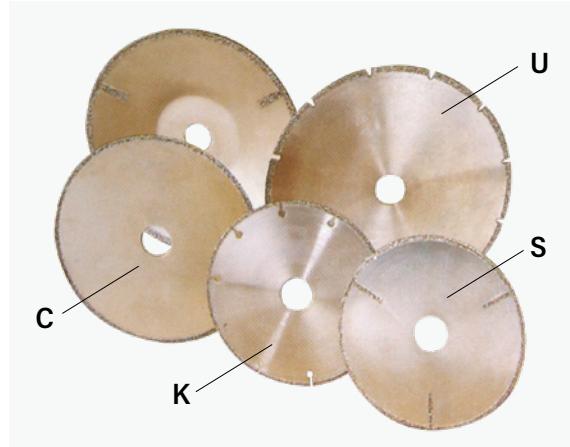
● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Electroplated Diamond Cutters

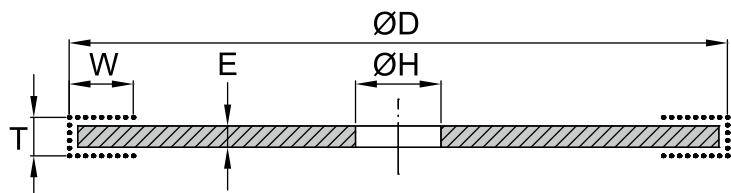
電鑄鑽石鋸片

此系列產品主要使用於大理石、磁磚、FRP、碳纖或石墨等之切割。

Electroplated Diamond Cutters are used for cutting marble, tile, FRP, carbon or graphics.



- C: 連續式 / Continuous rim type
- S: 幅條式 / Spoke type
- U: U 溝式 / U-slot type
- K: 水滴溝式 / Key hole slot type



單位 / Unit : mm

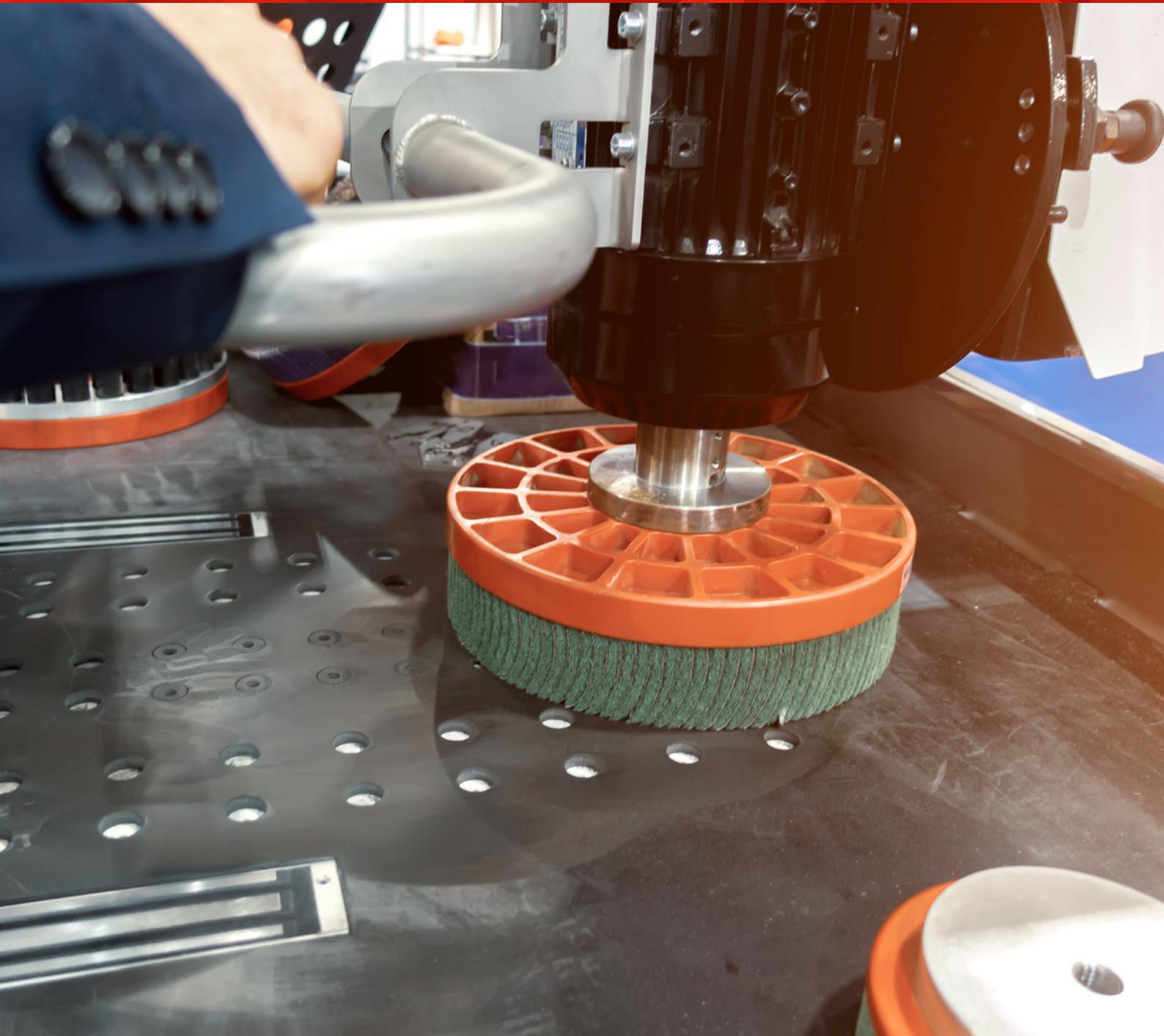
編號 Order No.	ØD	E	T	W	型式 Type	粒度 Grit Size	ØH
SP-05008	50	0.8	1.8	2~3	C,S,U	#40	
SP-06308	63	0.8	1.8	2~3	C,S,U	#40	
SP-10008	100	0.8	1.8	2~3	C,S,U	#40	
SP-11508	115	0.8	1.8	2~3	C,S,U	#40	
SP-11510K	115	1.0	2.0	2~3	K	#40	
SP-12508	125	0.8	1.8	2~3	C,S,U	#40	
SP-15008	150	0.8	1.8	2~3	C,S,U	#40	
SP-15012	150	1.2	2.2	2~3	C,S,U	#40	
SP-17512	175	1.2	2.2	2~3	C,S,U	#40	
SP-20012	200	1.2	2.2	2~3	C,S,U	#40	
SP-25012	250	1.2	2.2	2~3	C,S,U	#40	
SP-30012	300	1.2	2.2	2~3	C,S,U	#40	

訂購時，敬請指明。
Depend on your request.

●標準粒度外，其他粒度請指明訂購。/ Grit size in the above table is standard for that item, others are available upon request.

Diamond Brush Handle Ceramic Fiber Abrasive Brush

鑽石毛刷及陶瓷纖維毛刷



KK Dia
聯成鑽石

Diamond Brush

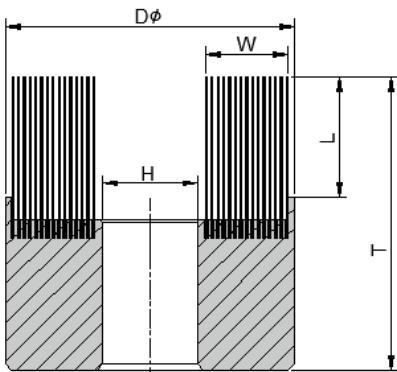
鑽石毛刷



應用 \ Application

- 1. 刀具鈍化。
 - 2. 去除所有物件加工後之毛邊。
 - 3. 平面、曲面或異形處拋光。
- 1. Tool passivation.
 - 2. Remove all burrs after processing.
 - 3. Polishing of flat, curved or irregular places.

毛刷常用標準品規格 / Common Standard Specifications of Brushes



毛刷輪
Brush wheel
6A2

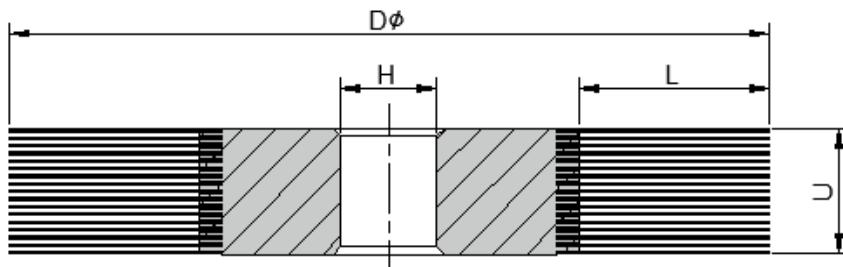
編號 Order No.	線徑 Wire Diameter	W	L	粒度 Grit Size	備註 Remarks
	0.2			#1000	
	0.2			#3000	
	0.2			#5000	
	0.5			#200	
	0.5			#400	
	0.5			#600	
	0.5			#800	
	0.5			#1000	
	0.7			#200	
	0.7			#400	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Common Standard Specifications of Brushes

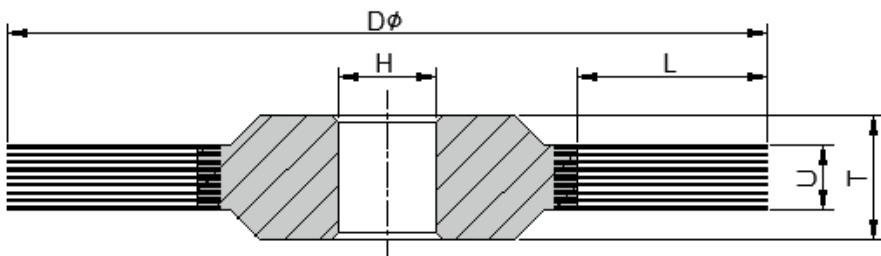
毛刷常用標準品規格

毛刷輪
Brush wheel
1A1



編號 Order No.	線徑 Wire Diameter	U	L	粒度 Grit Size	備註 Remarks
	0.2			#1000	
	0.2			#3000	
	0.2			#5000	
	0.5			#200	
	0.5			#400	
	0.5			#600	
	0.5			#800	
	0.5			#1000	
	0.7			#200	
	0.7			#400	

毛刷輪
Brush wheel
14A1

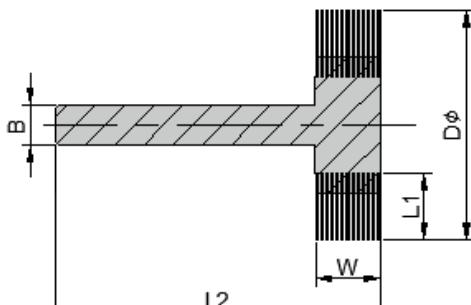


編號 Order No.	線徑 Wire Diameter	U	L	粒度 Grit Size	備註 Remarks
	0.2			#1000	
	0.2			#3000	
	0.2			#5000	
	0.5			#200	
	0.5			#400	
	0.5			#600	
	0.5			#800	
	0.5			#1000	
	0.7			#200	
	0.7			#400	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。 / Note: For other specifications, please indicate the order or attach a detailed drawing.

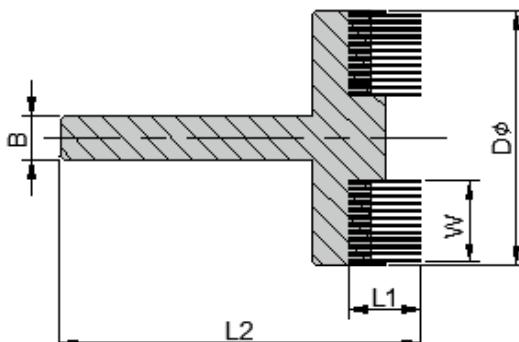
Common Standard Specifications of Brushes

毛刷常用標準品規格



帶柄式
With handle
TYPE A

編號 Order No.	線徑 Wire Diameter	W	L1/L2	粒度 Grit Size	備註 Remarks
	0.2			#1000	
	0.2			#3000	
	0.2			#5000	
	0.5			#200	
	0.5			#400	
	0.5			#600	
	0.5			#800	
	0.5			#1000	
	0.7			#200	
	0.7			#400	



帶柄式
With handle
TYPE B

編號 Order No.	線徑 Wire Diameter	W	L1/L2	粒度 Grit Size	備註 Remarks
	0.2			#1000	
	0.2			#3000	
	0.2			#5000	
	0.5			#200	
	0.5			#400	
	0.5			#600	
	0.5			#800	
	0.5			#1000	
	0.7			#200	
	0.7			#400	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。 / Note: For other specifications, please indicate the order or attach a detailed drawing.

貝斯迪亞® 帶柄陶瓷纖維研磨刷



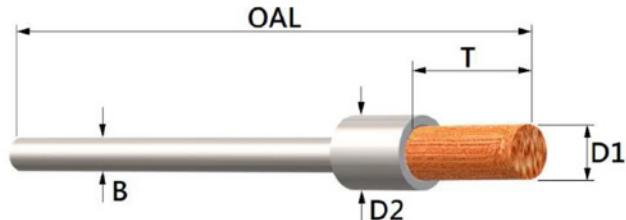
採用精選陶瓷纖維製作而成的纖維刷，適用於金屬、不銹鋼、鋁合金、鎂合金、部分石材…等，材質的研磨拋光。

用途：表面研磨及拋光、去除機械加工刀痕、去除毛刺、內孔研磨以及去除內交叉孔之毛刺…等。

優點：研磨效率高，加工面十分均勻。



請配戴護目鏡
Use eye protector



The fiber brush made of selected ceramic fibers is suitable for grinding and polishing materials such as metal, stainless steel, aluminum alloy, magnesium alloy, and some stone materials.

Uses : Surface grinding and polishing, removing machining tool marks, removing burrs, grinding internal holes, and removing burrs from internal cross holes... etc.

Advantages : high grinding efficiency and uniform processing surface.

粒度與顏色 / Grit Size & Color Code

粒度 Grit size	#180	#250	#320	#400	#700	#1000
顏色 Color code	咖啡色 Coffee	橙色 Orange	灰色 Grey	藍色 Blue	黃色 Yellow	白色 White

規格 / Specifications

單位 / Unit : mm

型號 Model No.	外徑		刷毛長 T	柄徑 B	總長 OAL	建議轉速 r.p.m	最高轉速 MAX r.p.m	應用 Application
	D1	D2						
BS020030-30	2	3						
BS030030-30	3	4	30	3	65	7,000rpm	10,000rpm	內孔研磨
BS050030-30	5	6						
BS020020-30	2	3						
BS030020-30	3	4	20	3	55	10,000rpm	16,000rpm	內孔研磨
BS050020-30	5	6						
BS020015-30	2	3						
BS030015-30	3	4	15	3	50	16,000rpm	22,000rpm	平面研磨 內孔研磨
BS050015-30	5	6						
BS050010-30	5	6	10	3	50	30,000rpm	40,000rpm	平面研磨 內孔研磨

● 訂購請註明型號與粒度。/ Please specify model and size when ordering.

貝斯迪亞® 帶柄陶瓷纖維研磨刷

使用建議 / Recommendations

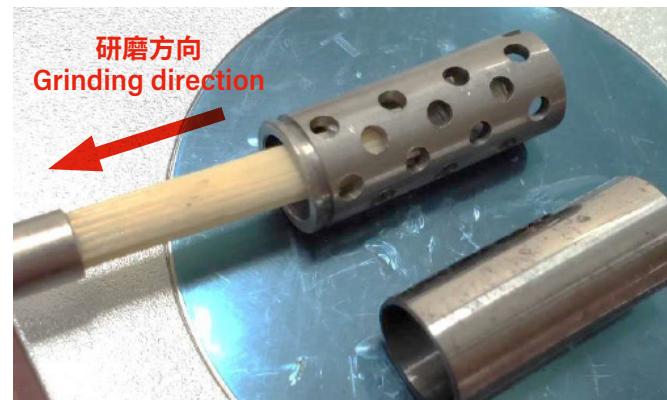
1. 此纖維刷請搭配可調速的電動手機進行操作。
2. 請按照上表的建議轉速進行使用。若超過建議轉速，將使纖維刷因離心力過大而斷裂。
3. 使用時，請佩戴護目鏡保護眼睛，以免在使用過程中受傷。

1. Please operate this fiber brush with an adjustable speed electric mobile phone.
2. Please follow the recommended speed in the above table for use. If the speed exceeds the recommended speed, the fiber brush will be broken due to excessive centrifugal force.
3. When using, please wear goggles to protect your eyes to avoid injury during use.

應用 / Application



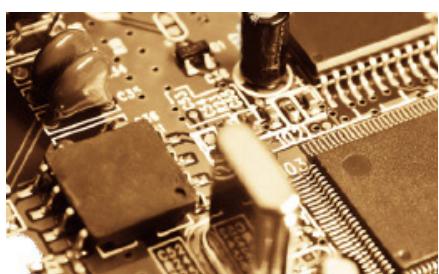
平面研磨、拋光
Plane grinding and polishing



內孔研磨、去毛邊 (內孔研磨方向注意)
Inner hole grinding, deburring
(Pay attention to the direction of inner hole grinding)

產業別 / Industry

電子業
Electronics industry



模具業
Mold industry



寶石加工
Gem processing



Diamond & CBN Internal Points Diamond Files

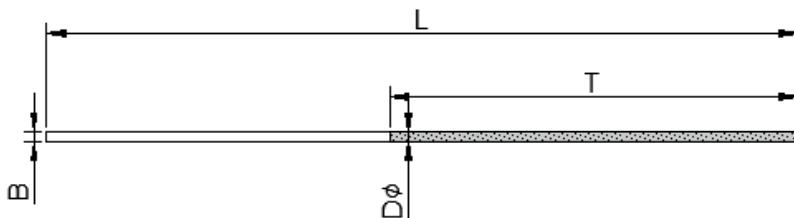
鑽石磨棒及銑刀



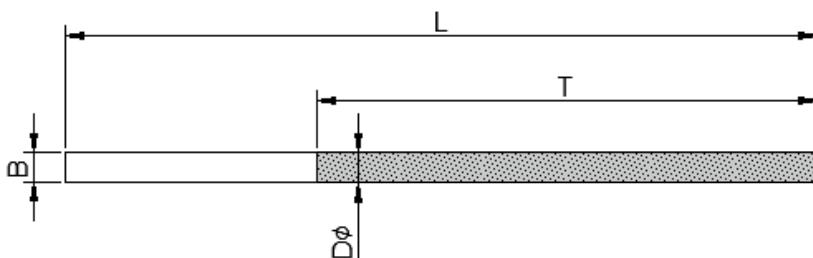
KKDia
聯成鑽石

Tungsten Steel Mold Through Hole Strip

鎢鋼模具通孔條



編號 Order No.	ϕD	T	B	L	粒度 Grit Size	備註 Remarks
	1.4	115	1.4	200	D100	
	1.6	115	1.6	200	D100	
	1.8	115	1.8	200	D100	
	2	115	2	200	D100	
	2.2	115	2.2	200	D100	
	2.4	115	2.4	200	D100	
	2.6	115	2.6	200	D100	
	2.8	115	2.8	200	D100	
	3	115	3	200	D100	
	3.2	115	3.2	200	D100	
	3.4	115	3.4	200	D100	
	3.6	115	3.6	200	D100	
	3.8	115	3.8	200	D100	
	4	115	4	200	D100	
	4.2	115	4.2	200	D100	
	4.4	115	4.4	200	D100	
	4.6	115	4.6	200	D100	
	4.8	115	4.8	200	D100	
	5	115	5	200	D100	
	5.2	115	5.2	200	D100	
	5.4	115	5.4	200	D100	
	5.6	115	5.6	200	D100	
	5.8	115	5.8	200	D100	
	6	115	6	200	D100	
	6.2	115	6.2	200	D100	

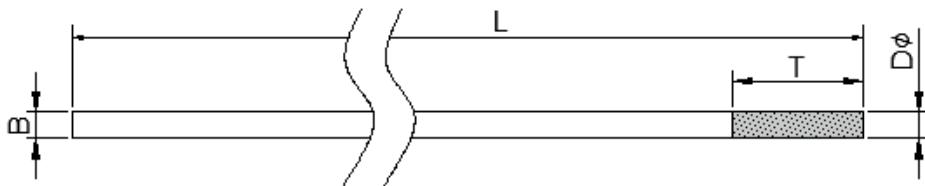


編號 Order No.	ϕD	T	B	L	粒度 Grit Size	備註 Remarks
	4.86	80	4.86	120	D400	

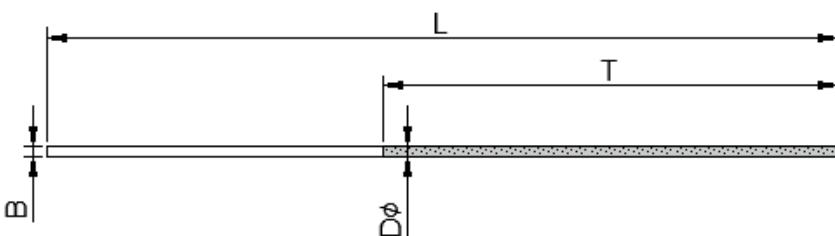
● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Tungsten Steel Mold Through Hole Strip

鎢鋼模具通孔條



編號 Order No.	ØD	T	B	L	粒度 Grit Size	備註 Remarks
	1.5	5	1.5	150	D80	
	1.5	5	1.5	150	D80	
	2	15	2	250	D100	
	2	15	2	250	D200	
	3	15	3	250	D100	
	3	15	3	250	D200	
	3	30	3	250	D80	
	3	30	3	250	D100	
	4	30	4	250	D80	
	4	30	4	250	D100	
	5	30	5	250	D80	
	5	30	5	250	D100	

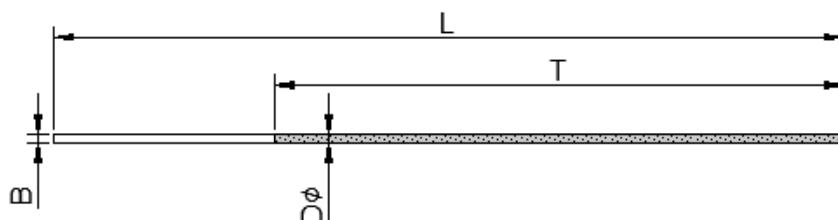


編號 Order No.	ØD	T	B	L	粒度 Grit Size	備註 Remarks
	1.6	120	1.8	200	D100	
	1.7	120	1.9	200	D100	
	1.8	120	2.0	200	D100	
	1.9	120	2.1	200	D100	
	2.0	120	2.2	200	D100	
	2.1	120	2.3	200	D100	
	2.2	120	2.4	200	D100	
	2.2	160	2.35	200	D100	
	2.3	160	2.45	200	D100	
	2.4	160	2.55	200	D100	
	2.5	160	2.65	200	D100	
	2.6	160	2.75	200	D100	
	2.7	160	2.85	200	D100	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。 / Note: For other specifications, please indicate the order or attach a detailed drawing.

Tungsten Steel Mold Through Hole Strip

鎢鋼模具通孔條

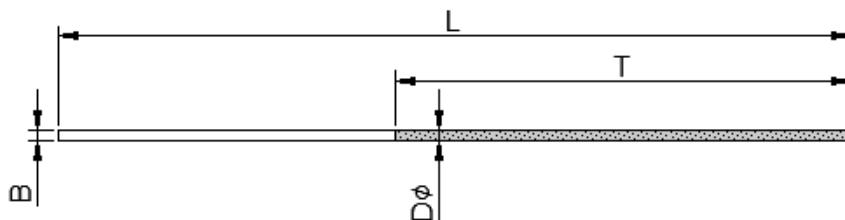


編號 Order No.	øD	T	B	L	粒度 Grit Size	備註 Remarks
	2.45	180	2.09	250	D100	
	2.65	180	2.29	250	D100	
	2.75	180	2.39	250	D100	
	2.85	180	2.49	250	D100	
	2.95	180	2.59	250	D100	
	3.05	180	2.69	250	D100	
	3.15	180	2.79	250	D100	
	3.25	180	2.89	250	D100	
	3.35	180	2.99	250	D100	
	3.45	180	3.09	250	D100	
	3.55	180	3.19	250	D100	
	3.85	180	3.49	250	D100	
	5.95	180	5.59	250	D100	
	6.05	180	5.69	250	D100	
	6.15	180	5.79	250	D100	
	6.25	180	5.89	250	D100	
	6.35	180	5.99	250	D100	
	6.45	180	6.09	250	D100	
	6.55	180	6.19	250	D100	
	6.65	180	6.29	250	D100	
	6.75	180	6.39	250	D100	
	6.85	180	6.49	250	D100	

● 說明:其餘規格粒度請指明訂購或附上詳細圖面。 / Note:For other specifications, please indicate the order or attach a detailed drawing.

Tungsten Steel Mold Through Hole Strip

鎢鋼模具通孔條

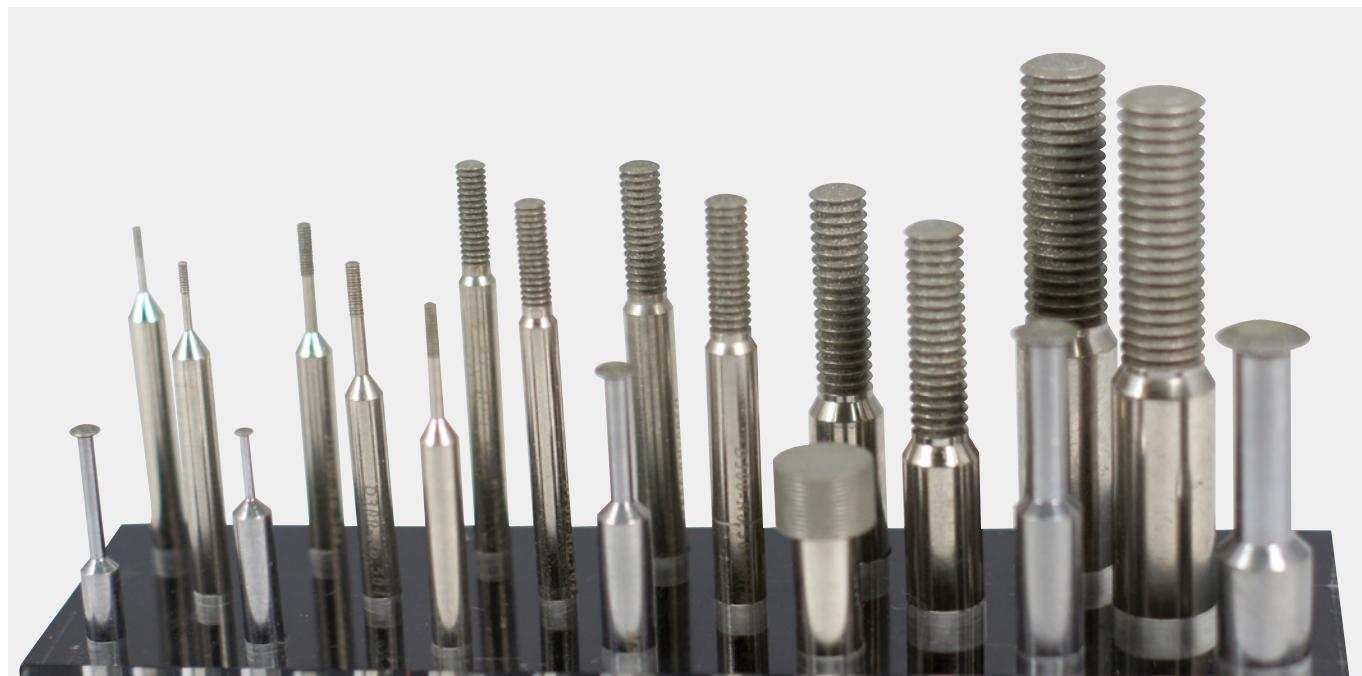


編號 Order No.	ϕD	T	B	L	粒度 Grit Size	備註 Remarks
	3.3	150	3.3	200	D100	
	3.4	150	3.4	200	D100	
	3.5	150	3.5	200	D100	
	3.7	150	3.7	200	D100	
	3.8	150	3.8	200	D100	
	3.9	150	3.9	200	D100	
	4.0	150	4.0	200	D100	
	4.1	150	4.1	200	D100	
	4.2	150	4.2	200	D100	
	4.3	150	4.3	200	D100	
	4.4	150	4.4	200	D100	
	4.5	150	4.5	200	D100	
	2.0	180	2.0	250	D100	
	2.1	180	2.1	250	D100	
	2.2	180	2.2	250	D100	
	2.3	180	2.3	250	D100	
	2.4	180	2.4	250	D100	
	2.5	180	2.5	250	D100	
	3.19	180	3.19	250	D100	
	3.55	180	3.55	250	D100	
	3.6	180	3.6	250	D100	
	3.7	180	3.7	250	D100	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Tapping Rod

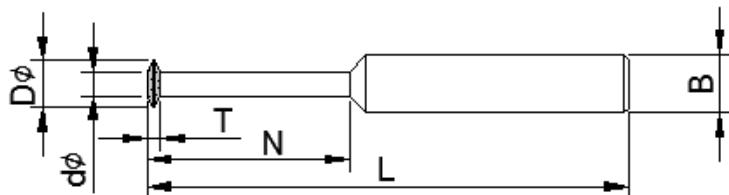
攻牙磨棒



產品說明 - 電鑄法鑽石攻牙磨棒應用在精密陶瓷、碳化鈷、石英等硬脆材料之鑽孔後之牙型研磨。

Product Description-Electroforming diamond tapping grinding rods are used for tooth grinding after drilling of precision ceramics, tungsten carbide, quartz and other hard and brittle materials.

TYPE A

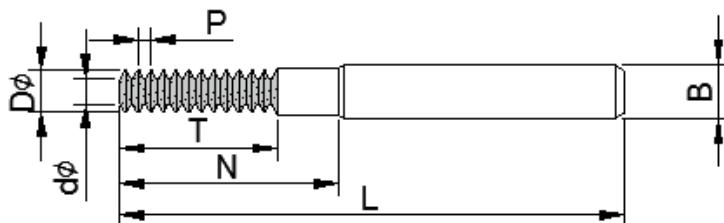


型號 Model	ØD	Ød	P	T	N	B	L	粒度 Grit Size	備註 Remarks
M2-	1.5	0.81	-	0.4	13	6	50	#200	
M3-	2.35	1.48	-	0.5	13	6	50	#200	
M4-	3.1	1.89	-	0.7	13	6	50	#200	
M5-	4	2.61	-	0.8	13	6	50	#200	
M6-	4.8	3.07	-	1	20	6	50	#200	
M8-	6.5	4.33	-	1.25	20	8(6)	80	#200	
M10-	8	5.4	-	1.5	30	10(6)	80	#200	
M12-	9	5.97	-	1.75	30	12(6)	80	#200	
M14-	11.3	7.84	-	2	40	12(6)	80	#200	
M16-	13	9.54	-	2	40	16(6)	80	#200	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

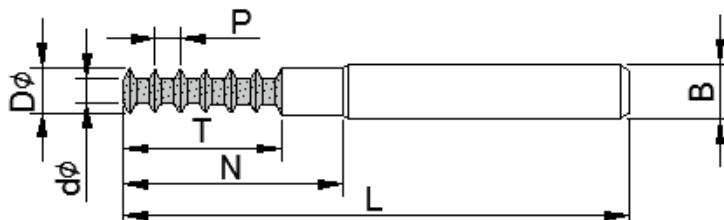
Tapping Rod

攻牙磨棒



TYPE B

型號 Model	ϕD	ϕd	P	T	N	B	L	粒度 Grit Size	備註 Remarks
M2.6-0250	2.05	1.27	0.45	6.3	12.3	6	100	#270	
M3-0235	2.35	1.48	0.5	8	18	6	100	#270	
M4-0310	3.1	1.89	0.7	10.5	20.5	6	100	#270	
M5-0400	4	2.61	0.8	12.8	12.8	6	100	#230	
M6-0480	4.8	3.07	1	16	16	6	100	#230	
M8-0650	6.5	4.33	1.25	20	20	8(6)	100	#230	
M10-0800	8	5.4	1.5	25.5	25.5	10(6)	100	#230	
M12-0900	9	5.97	1.75	31.5	31.5	12(6)	100	#230	
M14-1120	11.2	7.74	2	36	36	12(6)	100	#200	
M16-1300	13	9.54	2	40	40	16(6)	100	#200	
M18-1450	14.5	10.17	2.5	45	45	16(6)	100	#200	
M20-1630	16.3	11.97	2.5	45	45	16(6)	100	#200	
M2.6H-0207	2.7	1.92	0.45	6.3	16.3	6	100	#270	
M3H-0290	2.9	2.03	0.5	8	18	6	100	#270	
M4H-0400	4	2.79	0.7	10.5	10.5	6	100	#270	
M5H-0500	5	3.61	0.8	12.8	12.8	6	100	#230	
M6H-0600	6	4.27	1	16	16	8(6)	100	#230	
M8H-0800	8	5.83	1.25	20	20	8(6)	100	#230	
M10H-0990	9.9	7.3	1.5	25.5	25.5	10(6)	100	#230	
M12H-1190	11.9	8.87	1.75	31.5	31.5	12(6)	100	#230	
M14H-1390	13.9	10.44	2	36	36	16(6)	100	#200	
M16H-1570	15.7	12.24	2	40	40	16(6)	100	#200	
M18H-1780	17.8	13.47	2.5	45	45	20(6)	100	#200	
M20H-1960	19.6	15.27	2.5	50	50	20(6)	100	#200	



TYPE C

型號 Model	D	d	P	T	N	B	L	粒度 Grit Size	備註 Remarks
M2-0150	1.5	0.81	0.8	4.8	10.8	6	100	#270	
M2H-0200	2	1.31	0.8	4.8	10.8	6	100	#270	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Diamond & CBN Internal Points

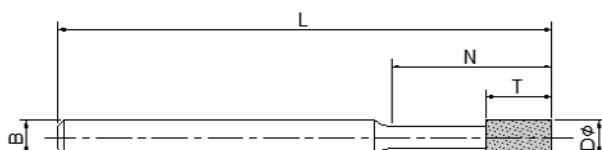
鑽石、氮化硼內孔磨棒

本系列產品主要使用於各種內孔研磨、治具研磨或小孔徑之精密研磨。

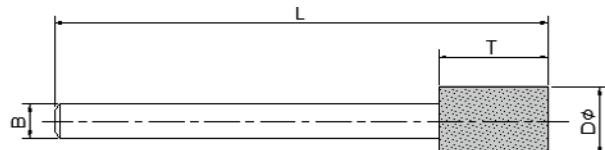
鑽石適用於研磨鎢鋼、陶瓷、藍寶石、玻璃…等。 氮化硼適用於研磨熱處理硬化後之各種合金鋼材。

Diamond internal points are used for jig, internal grinding, and precision grinding of small holes in carbide, ceramics, sapphire, glass etc.

CBN internal points are used similarly on tough, high carbon, high chrome harden steels.



TYPE A



TYPE B

編號 Order No.		Type	ØD	T	N	B	L	粒度 Grit Size
鑽石 Diamond	氮化硼 CBN							
ID-3003	IB-3003	A	0.3	2	4	3.0	35	#600
ID-3004	IB-3004	A	0.4	2	5	3.0	35	#400
ID-3005	IB-3005	A	0.5	2	5	3.0	35	#400
ID-3006	IB-3006	A	0.6	3	5	3.0	40	#200
ID-3007	IB-3007	A	0.7	3	8	3.0	40	#200
ID-3008	IB-3008	A	0.8	3	8	3.0	40	#200
ID-3009	IB-3009	A	0.9	4	8	3.0	40	#200
ID-3010	IB-3010	A	1.0	5	8	3.0	40	#200
ID-3015	IB-3015	A	1.5	5	8	3.0	45	#150
ID-3020	IB-3020	A	2.0	5	12	3.0	45	#150
ID-3025	IB-3025	A	2.5	5	15	3.0	45	#150
ID-3030	IB-3030	A	3.0	5	15	3.0	45	#150
ID-6040	IB-6040	A	4.0	10	22	3.0	80	#100
ID-6050	IB-6050	A	5.0	10	22	3.0	80	#100
ID-6060	IB-6060	A	6.0	10	22	3.0	80	#100
ID-3040	IB-3040	B	4.0	5	-	3.0	50	#150
ID-3050	IB-3050	B	5.0	8	-	3.0	50	#150
ID-3060	IB-3060	B	6.0	8	-	3.0	50	#150
ID-6070	IB-6070	B	7.0	10	-	6.0	80	#100
ID-6080	IB-6080	B	8.0	10	-	6.0	80	#100
ID-6090	IB-6090	B	9.0	10	-	6.0	80	#100
ID-6100	IB-6100	B	10	10	-	6.0	80	#100
ID-6120	IB-6120	B	12	10	-	6.0	80	#100
ID-6140	IB-6140	B	14	10	-	6.0	80	#100
ID-6160	IB-6160	B	16	10	-	6.0	80	#100
ID-6180	IB-6180	B	18	10	-	6.0	80	#100
ID-6200	IB-6200	B	20	10	-	6.0	80	#100

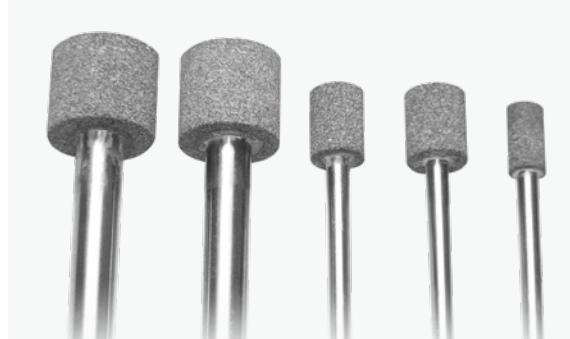
●說明:其餘規格粒度請指明訂購或附上詳細圖面。 / Note: For other specifications, please indicate the order or attach a detailed drawing.

Vitrified Diamond & CBN Internal Points

陶瓷法鑽石、氮化硼內孔磨棒

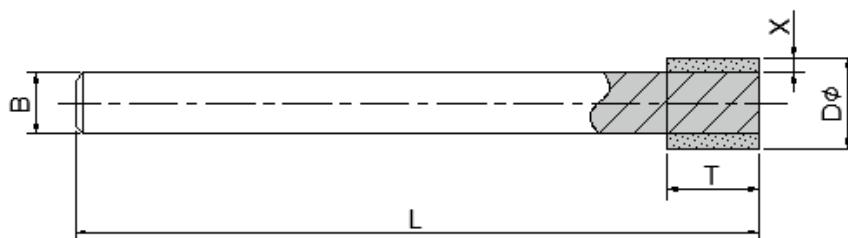
陶瓷法 CBN 內孔磨棒主要使用於內孔研磨及治具研磨。氮化硼 (CBN) 適用於研磨高速鋼及各種熱處理硬化後之合金鋼材 (濕磨)。

Vitrified CBN internal points are used for internal grinding and jig grinding of high speed steel and hardened alloy steel. (Wet Grinding)



TYPE A

編號 Order No.	ØD	T	X	N	B	L	粒度 Grit Size	備註 Remarks
VIB-3040	4.0	6	1.0	12	3	60	#200	
VIB-3050	5.0	6	1.5	12	3	60	#200	
VIB-3060	6.0	6	2.0	12	3	60	#200	
VIB-3080	8.0	8	3.0	12	3	60	#200	



TYPE B

編號 Order No.	ØD	T	X	B	L	粒度 Grit Size	備註 Remarks
VIB-6100	10.0	8	2.0	6	80	#200	
VIB-6120	12.0	10	3.0	6	80	#200	
VIB-8140	14.0	12	3.0	8	45	#200	
VIB-6140	14.0	12	4.0	6	80	#200	
VIB-8160	16.0	12	4.0	8	80	#200	
VIB-6160	16.0	12	5.0	6	80	#200	
VIB-8180	18.0	12	5.0	8	80	#200	
VIB-6180	18.0	12	6.0	6	80	#200	

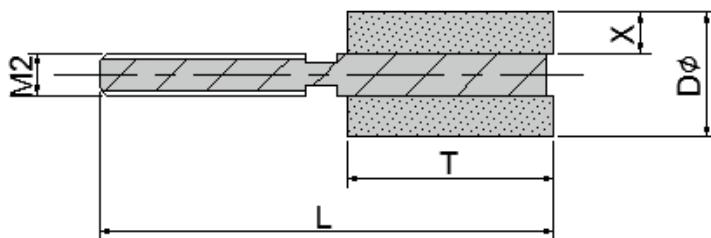
● 標準粒度外，其他粒度請指明訂購。/ Grit size in the above table is standard for that item, others are available upon request.

Vitrified Diamond & CBN Internal Points

陶瓷法鑽石、氮化硼內孔磨棒

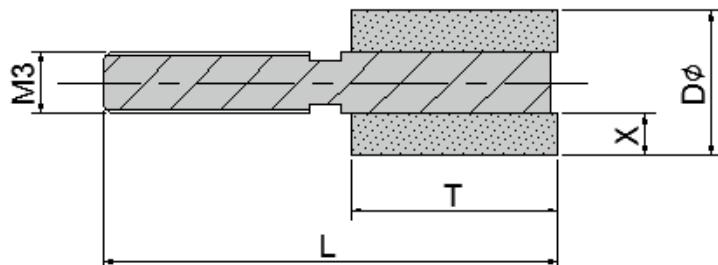
牙柄 \ Tooth handle

M2



編號 Order No.	øD	T	X	L	粒度 Grit Size	備註 Remarks
4	8	1	1	20	VB200	
5	8	1.5	1.5	20	VB200	
6	8	2	2	20	VB200	

M3



編號 Order No.	øD	T	X	L	粒度 Grit Size	備註 Remarks
6	12	2	2	24	VB200	
7	12	2	2	24	VB200	
7	15	2	2	27	VB200	
8	12	2	2	24	VB200	
8	15	2	2	27	VB200	
9	15	3	3	27	VB200	

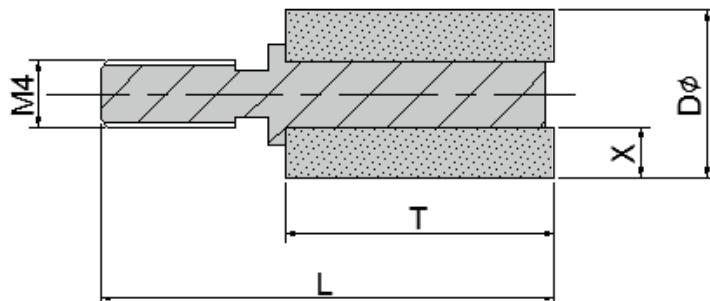
● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Vitrified Diamond & CBN Internal Points

陶瓷法鑽石、氮化硼內孔磨棒

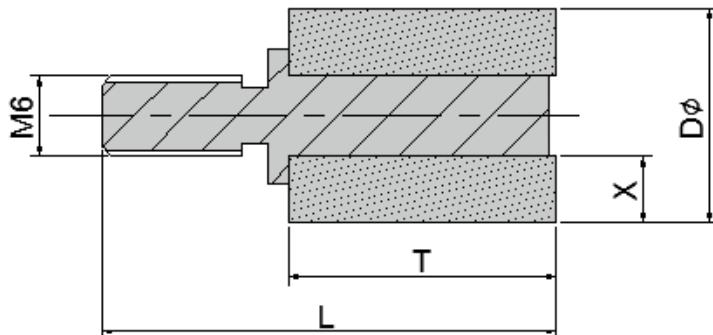
牙柄 \ Tooth handle

M4



編號 Order No.	ØD	T	X	L	粒度 Grit Size	備註 Remarks
9	15	3	27	VB200		
10	16	3	28	VB200		
11	16	3.5	28	VB200		
12	16	4	28	VB200		
13	16	4.5	28	VB200		
14	16	5	28	VB200		
15	16	5.5	28	VB200		

M6

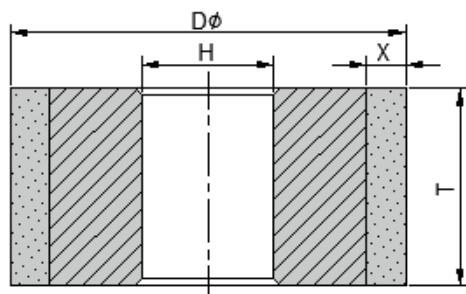


編號 Order No.	ØD	T	X	L	粒度 Grit Size	備註 Remarks
16	20	5	32	VB200		
16	25	5	37	VB200		
18	20	6	32	VB200		
18	25	6	37	VB200		
20	20	7	32	VB200		
20	25	7	37	VB200		

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

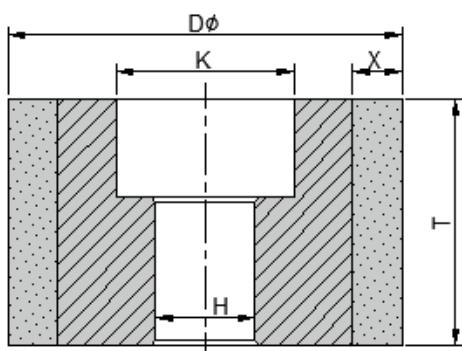
Vitrified Diamond & CBN Internal Points

陶瓷法鑽石、氮化硼內孔磨棒



1A

編號 Order No.	øD	T	X	H	粒度 Grit Size	備註 Remarks
16	20	20	3	6	VB150	
18	20	20	3	6	VB150	
20	20	20	3	6	VB150	



5A

編號 Order No.	øD	T	X	H	粒度 Grit Size	備註 Remarks
	20	25	3	6	VB150	
	25	25	3	6	VB150	
	25	25	3	8	VB150	
	30	25	5	6	VB150	
	30	25	5	8	VB150	
	35	25	5	6	VB150	
	35	25	5	8	VB150	
	35	30	5	6	VB150	
	35	30	5	8	VB150	
	40	30	5	8	VB150	

Resinoid Diamond & CBN Internal Points

樹脂法鑽石與氮化硼內孔磨棒

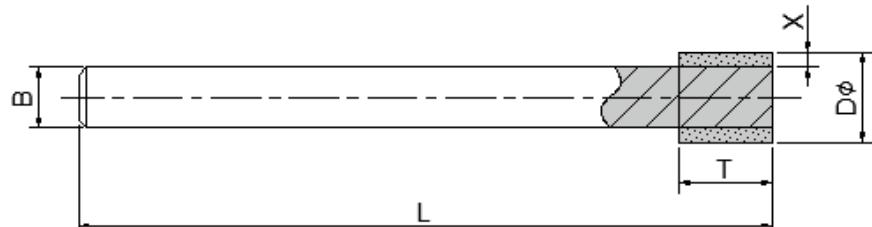
樹脂法 CBN 內孔磨棒主要使用於內孔研磨及治具研磨。氮化硼 (CBN) 適用於研磨高速鋼及各種熱處理硬化後之合金鋼材。

Resinoid CBN internal points are used for internal grinding and jig grinding of high speed steel and hardened alloy steel.



TYPE A

編號 Order No.	ØD	T	X	N	B	L	粒度 Grit Size	備註 Remarks
RIB-3040	4.0	5	1.0	12	3	45	#200	
RIB-3045	4.5	6	1.25	12	3	45	#200	
RIB-3050	5.0	6	1.5	12	3	45	#200	
RIB-6060	6.0	6	2.0	15	6	80	#150	
RIB-6070	7.0	8	2.5	15	6	80	#150	
RIB-6080	8.0	8	3.0	20	6	80	#150	
RIB-6100	10.0	10	2.0	20	6	80	#150	



TYPE B

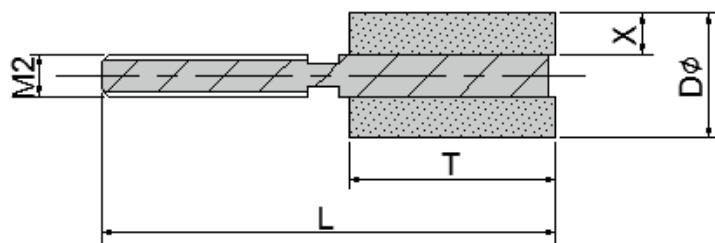
編號 Order No.	ØD	T	X	B	L	粒度 Grit Size	備註 Remarks
RIB-6120	12.0	10	3.0	6	80	#150	
RIB-6140	14.0	10	4.0	6	80	#150	
RIB-6160	16.0	10	4.0	6	80	#150	
RIB-6180	18.0	10	5.0	6	80	#150	
RIB-6200	20.0	10	6.0	6	80	#150	

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Resinoid Diamond & CBN Internal Points

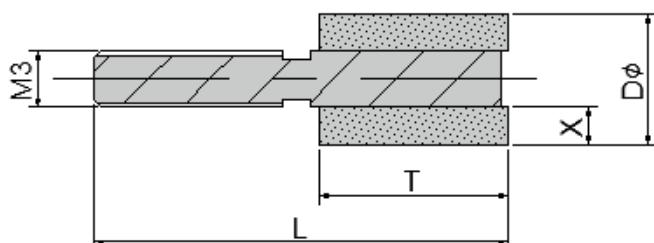
樹脂法鑽石與氮化硼內孔磨棒

牙柄 \ Tooth handle



M2

編號 Order No.	ϕD	T	X	L	粒度 Grit Size	備註 Remarks
4	8	1	20	B200		
5	8	1.5	20	B200		
6	8	2	20	B200		



M3

編號 Order No.	ϕD	T	X	L	粒度 Grit Size	備註 Remarks
6	12	2	24	B200		
7	12	2	24	B200		
7	15	2	27	B200		
8	12	2	24	B200		
8	15	2	27	B200		
9	15	3	27	B200		

● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

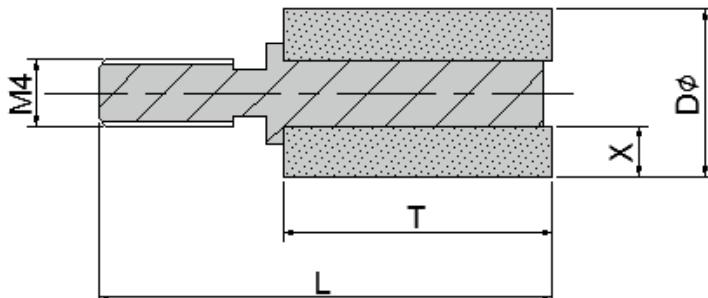
Resinoid Diamond & CBN Inner Hole Grinding Wheel Specifications

KKdia
聯成鑽石

樹脂法鑽石與氮化硼內孔研磨專用砂輪規格

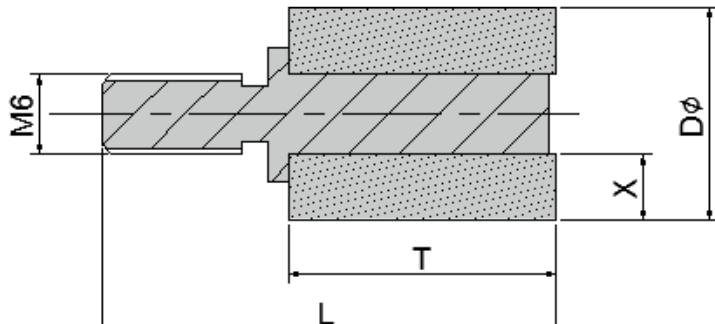
牙柄 \ Tooth handle

M4



編號 Order No.	ØD	T	X	L	粒度 Grit Size	備註 Remarks
9		15	3	27	B200	
10		16	3	28	B200	
11		16	3.5	28	B200	
12		16	4	28	B200	
13		16	4.5	28	B200	
14		16	5	28	B200	
15		16	5.5	28	B200	

M6



編號 Order No.	ØD	T	X	L	粒度 Grit Size	備註 Remarks
16		20	5	32	B200	
16		25	5	37	B200	
18		20	6	32	B200	
18		25	6	37	B200	
20		20	7	32	B200	
20		25	7	37	B200	

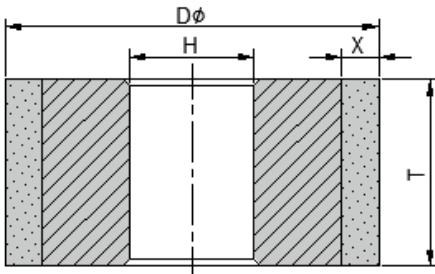
● 說明：其餘規格粒度請指明訂購或附上詳細圖面。/ Note: For other specifications, please indicate the order or attach a detailed drawing.

Resinoid Diamond & CBN Inner Hole Grinding Wheel Specifications

KKdia
聯成鑽石

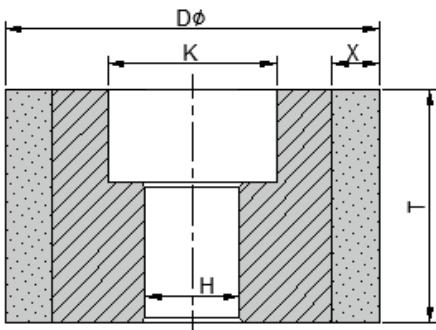
樹脂法鑽石與氮化硼內孔研磨專用砂輪規格

內孔研磨砂輪 \ Inner hole grinding wheel



1A

編號 Order No.	ϕD	T	X	H	粒度 Grit Size	備註 Remarks
16	20	20	3	6	B150	
18	20	20	3	6	B150	
20	20	20	3	6	B150	



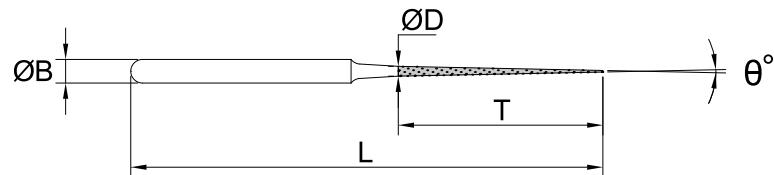
5A

編號 Order No.	ϕD	T	X	H	粒度 Grit Size	備註 Remarks
20	25	25	3	6	B150	
25	25	25	3	6	B150	
25	25	25	3	8	B150	
30	25	25	5	6	B150	
30	25	25	5	8	B150	
35	25	25	5	6	B150	
35	25	25	5	8	B150	
35	30	25	5	6	B150	
35	30	25	5	8	B150	
40	30	25	5	8	B150	
40	30	25	5	10	B150	
45	30	25	5	10	B150	
50	30	25	5	10	B150	
55	30	25	5	10	B150	
60	30	25	5	10	B150	
70	30	25	5	10	B150	
80	30	25	5	10	B150	
85	35	25	5	10	B150	
90	40	25	5	12	B150	
100	40	25	5	12	B150	
125	40	25	5	31.75	B150	
150	40	25	5	31.75	B150	

● 說明: 其餘規格粒度請指明訂購或附上詳細圖面。 / Note: For other specifications, please indicate the order or attach a detailed drawing.

Diamond Taper Points

鑽石磨棒



規格 / Specifications

單位 / Unit : mm

編號 Order No.	$\varnothing D$	T	0°	$\varnothing B$	L	粒度 Grit Size
18PL	$\varnothing 1.8$	25	3.1	$\varnothing 3.0$	50	#150
21PXL	$\varnothing 2.1$	34	2.8	$\varnothing 3.0$	55	#150
30PL	$\varnothing 3.0$	25	6.4	$\varnothing 3.0$	60	#150
48PL	$\varnothing 4.8$	26	9.6	$\varnothing 3.0$	55	#150
15PL	$\varnothing 1.5$	26	2.3	$\varnothing 3.0$	60	#150
20PXL	$\varnothing 2.0$	48	1.9	$\varnothing 3.0$	70	#150
23PXL	$\varnothing 2.3$	40	2.7	$\varnothing 3.0$	65	#150
25PXL	$\varnothing 2.5$	45	2.6	$\varnothing 3.0$	70	#150
30PXL	$\varnothing 3.0$	38	4.2	$\varnothing 3.0$	70	#150
60P10	$\varnothing 6.0$	33	10	$\varnothing 6.0$	60	#120
60P12	$\varnothing 6.0$	28	12	$\varnothing 6.0$	60	#120
60P14	$\varnothing 6.0$	23	14	$\varnothing 6.0$	60	#120
60P16	$\varnothing 6.0$	21	16	$\varnothing 6.0$	60	#120
60P20	$\varnothing 6.0$	17	20	$\varnothing 6.0$	60	#120
100P30	$\varnothing 10.0$	19	30	$\varnothing 6.0$	60	#120

Diamond Mounted Points

鑽石磨棒

BC Series - ø6.0 mm shank

粒度：#40、#60、#100 為標準粒度，訂購時請指明。

例如：BC-65A, #40

柄徑：ø6.0mm

全長：60~65mm

Grit size available in #40, #60 and #100, When ordering, please specify.

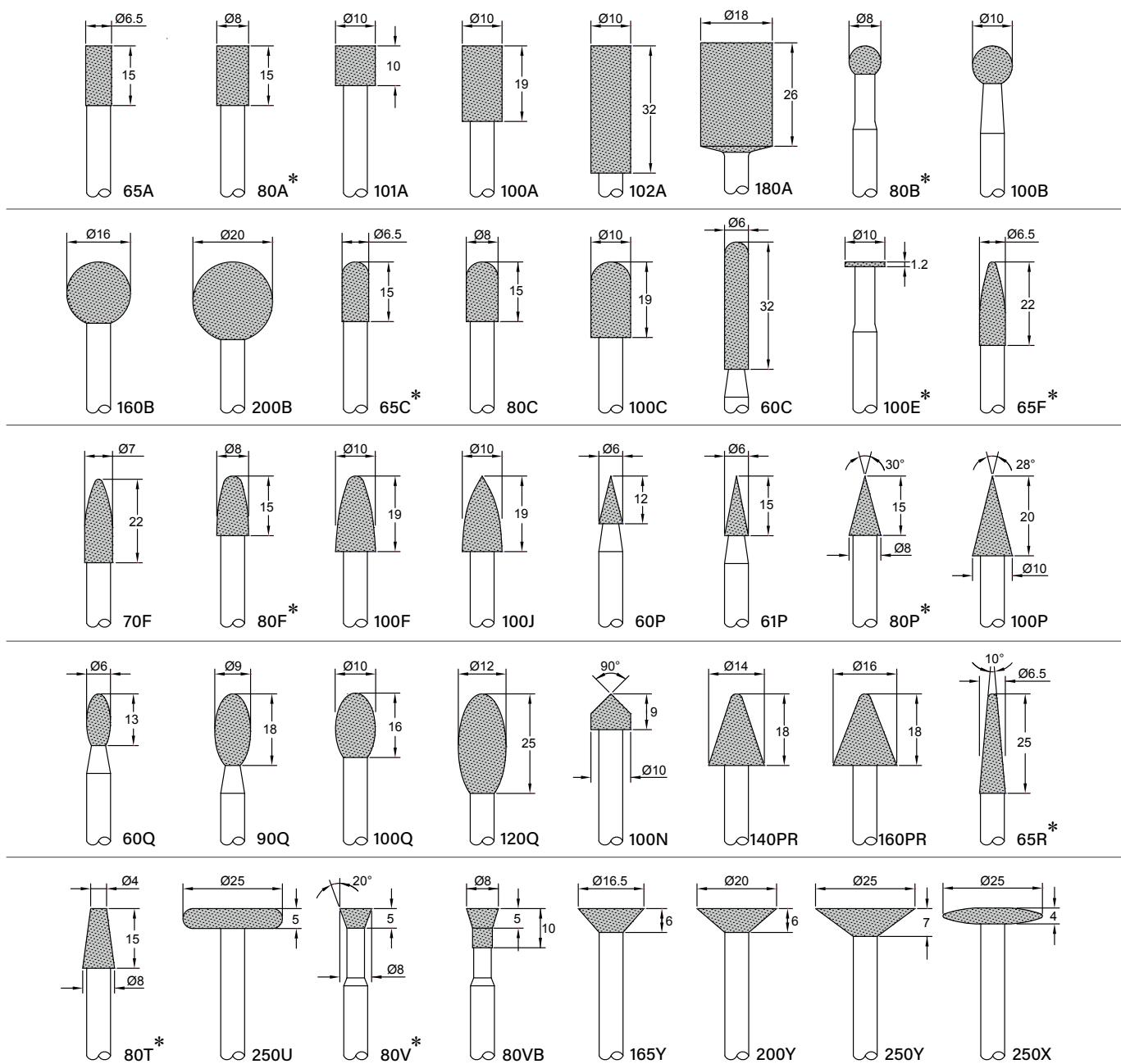
Ordering example : BC-65A, #40

Shank diameter : ø6.0mm

Total length : 60~65mm



單位 / Unit : mm

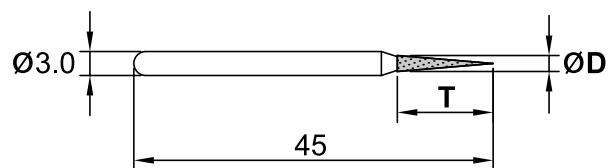


●BC-10：套裝 10 支組，含標示*號之磨棒各一支。訂購時請指明粒度，例如：BC-10, #60。/ BC-10 : 10 pcs. Assortment set, contains one each of above points, which denoted by *。Ordering example : BC-10, #60.

Diamond Mounted Points

鑽石磨棒

BC Series - ø3.0 mm shank



單位 / Unit : mm

編號 Order No.	10A	15A	20A	25A	30A	35A	40A	50A	60A	10C	15C	20C	25C	30C
øD	1	1.5	2	2.5	3	3.5	4	5	6	1	1.5	2	2.5	3
T	8	8	8	8	10	10	10	10	10	8	8	8	8	10
粒度 Grit Size	#150	#150	#120	#120	#120	#120	#120	#100	#100	#150	#150	#120	#120	#120

編號 Order No.	35C	40C	50C	60C	20T	30T	30V	13R	14R	15R	20R	30R	20P	30P
øD	3.5	4	5	6	2	3	3	1.2	1.5	1.5	2	3	2	3
T	10	10	10	10	10	10	10	16	13	10	12	14	12	15
粒度 Grit Size	#120	#120	#100	#100	#120	#120	#120	#150	#150	#150	#150	#120	#150	#150

編號 Order No.	40P	50P	60P	20F	30F	40F	50F	60F	30J	40J	50J	60J	10B	15B
øD	4	5	6	2	3	4	5	6	3	4	5	6	1	1.5
T	15	15	13	10	12	10	10	12	14	9	10	13	-	-
粒度 Grit Size	#150	#150	#150	#120	#120	#120	#100	#100	#120	#120	#120	#100	#200	#150

編號 Order No.	20B	25B	30B	40B	50B	60B	80B	30Q	40Q	50Q	60Q	20S	30S	40S
øD	2	2.5	3	4	5	6	8	3	4	5	6	2	3	4
T	-	-	-	-	-	-	-	5	7	9	10	4	6	8
粒度 Grit Size	#150	#120	#120	#120	#100	#100	#100	#120	#120	#100	#100	#120	#120	#120

● **BMS-30** : 30 支綜合組，含以上有標示*記號磨棒各 1 支。/ 30 pieces assortment set, contains one each point which denoted by * .

● **BMS-20** : 20 支綜合組，組裝內容如下 / 20 pieces set, contains one each of below : BM-10A, 15A, 20A, 25A, 30A, 35A, 15C, 20C, 25C, 30C, 20P, 30P, 15R, 20R, 30R, 20B, 30B, 20F, 30F, 20T.

● The tools with ø1/8" shank or with CBN abrasive are available upon your request.

Diamond Mounted Points

鑽石磨棒

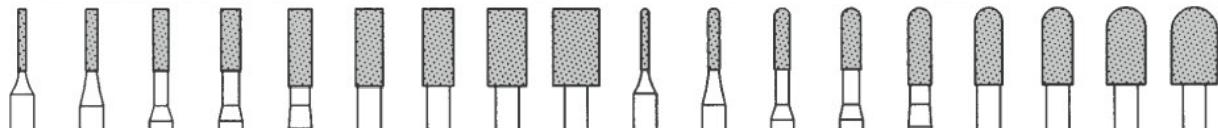
BM Series - ø3.0 mm shank

粒度：外徑 ø6.0mm 以上 : #100, ø2.0~5.0mm : #120,
 ø1.5mm 以下 : #150

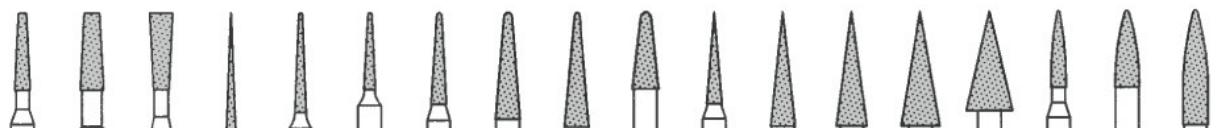
Grit size : øD over 6.0mm : #100, ø2.0~5.0mm : #120,
 ø1.5mm & under : #150



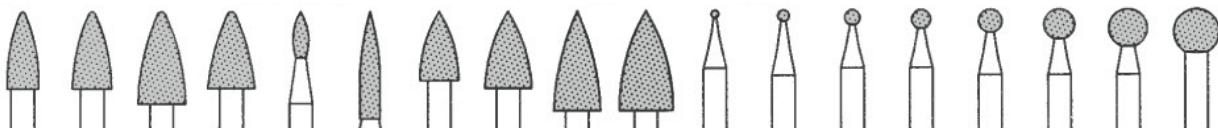
單位 / Unit : mm



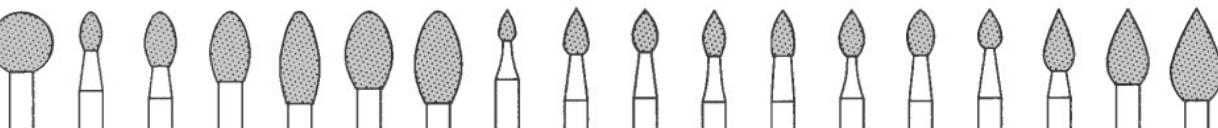
編號 Order No.	10A	15A	20A	25A	30A	35A	40A	50A	60A	10C	15C	20C	25C	30C	35C	40C	50C	60C
øD	ø1	ø1.5	ø2	ø2.5	ø3	ø3.5	ø4	ø5	ø6	ø1	ø1.5	ø2	ø2.5	ø3	ø3.5	ø4	ø5	ø6
T	8	8	8	8	10	10	10	10	10	8	8	8	8	10	10	10	10	10



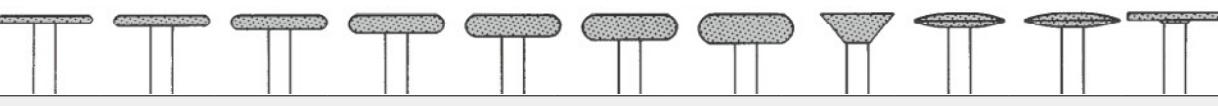
編號 Order No.	20T	30T	30V	13R	14R	15R	20R	30R	31R	32R	20P	30P	40P	50P	60P	20F	30F	33F
øD	ø2	ø3	ø3	ø1.2	ø1.5	ø1.5	ø2	ø3	ø3.3	ø3.3	ø2	ø3	ø4	ø5	ø6	ø2	ø3	ø3.3
T	10	10	10	16	13	10	12	14	15	10	12	15	15	15	13	10	10	15



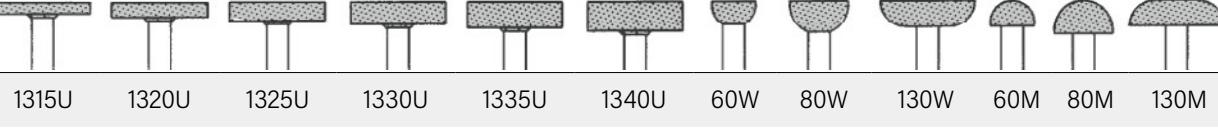
編號 Order No.	40F	50F	60F	61F	20J	30J	40J	50J	51J	60J	10B	15B	20B	25B	30B	40B	50B	60B
øD	ø4	ø5	ø6	ø6	ø2	ø3	ø4	ø5	ø5	ø6	ø1	ø1.5	ø2	ø2.5	ø3	ø4	ø5	ø6
T	10	10	12	10	6	14	9	10	13	13	-	-	-	-	-	-	-	-



編號 Order No.	80B	30Q	40Q	50Q	51Q	60Q	61Q	20S	30S	31S	32S	33S	34S	35S	36S	40S	50S	60S
øD	ø8	ø3	ø4	ø5	ø5	ø6	ø6	ø2	ø3	ø4	ø5	ø6						
T	-	5	7	9	12	10	12	4	6	5.5	6	6	6	6	5	8	10	12



編號 Order No.	1310U	1315U	1320U	1325U	1330U	1335U	1340U	100Y	120X	130X	1310E
øD	ø13	ø10	ø12	ø13	ø13						
T	1	1.5	2	2.5	3	3.5	4	4	2	2	1



編號 Order No.	1315U	1320U	1325U	1330U	1335U	1340U	60W	80W	130W	60M	80M	130M
øD	ø13	ø13	ø13	ø13	ø13	ø13	ø6	ø8	ø13	ø6	ø8	ø13
T	1.5	2	2.5	3	3.5	4	3.5	4.5	3.4	3.5	4.5	3.4

Assortment Set

綜合組裝

BMS-30 : 30 支組 / 30pcs.set

組裝內容如下：

BM - 10A、15A、20A、25A、30A、35A、40A、50A、
20B、30B、50B、15C、20C、25C、30C、
35C、40C、50C、20P、30P、15R、20R、
30R、30S、20F、30F、50F、20T、30T、30V (各
一支)。

Contains one each of below :

BM - 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A, 20B,
30B, 50B, 15C, 20C, 25C, 30C, 35C, 40C, 50C,
20P, 30P, 15R, 20R, 30R, 30S, 20F, 30F, 50F, 20T,
30T, 30V(One for each).



BMS-20 : 20 支組 / 20pcs.set

組裝內容如下：

BM - 10A、15A、20A、25A、30A、35A、15C、20C、
25C、30C、20P、30P、15R、20R、30R、20B、
30B、20F、30F、20T (各一支)。

Contains one each of below :

BM - 10A, 15A, 20A, 25A, 30A, 35A, 15C, 20C, 25C, 30C,
20P, 30P, 15R, 20R, 30R, 20B, 30B, 20F, 30F, 20T.
(One for each).



BL 系列 : ø1/8" 柄 / BL Series : ø1/8" Shank

所有 BM 系列磨棒均可以改成 ø1/8"柄，請指明訂購。

BLS-30 及 BLS-20 為標準庫存品之 ø1/8"柄磨棒，其內容物與 BMS-30 及 BMS-20 相同，只有柄徑不同。

Shank measure ø1/8" in diameter is available upon request.

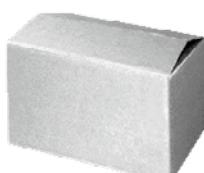
BL series are ø1/8"shank with all shapes and sizes the same as BM series.

BLS-30 and BLS-20 are standard assortment set stock available for ø1/8" shank, contains the same type of points as BMS-30 and BMS-20.



BLS-30 : 30 支組

BLS-30 : 30 pcs.set



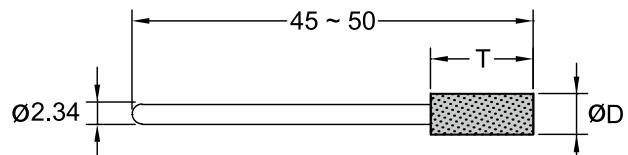
BLS-20 : 20 支組

BLS-20 : 20 pcs.set

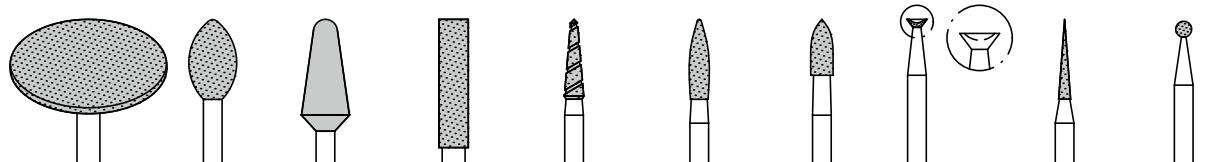
Diamond Mounted Points

鑽石磨棒

BH Series - ø2.34 mm shank

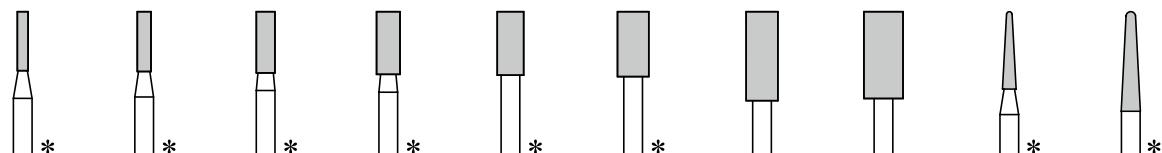


單位 / Unit : mm

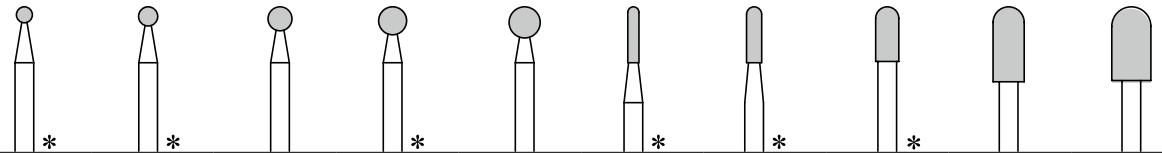


編號 Order No.	BH160E	BH60Q	BH60R	BH30A	BH25K	BH25J	BH25F	BH30V	BH15P	BH20B
øD	16	6.0	6.0	3.0	2.5	2.5	2.5	3.0	1.5	2.0
T	0.5	10	14	15	10	10	6	(45°)	10	-
粒度 Grit Size	#200	#100	#100	#120	#150	#150	#120	#200	#200	#150

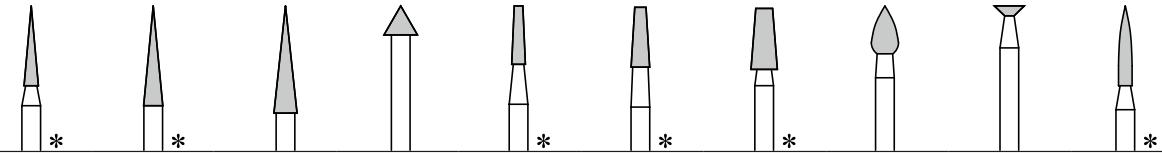
● **BHS-10** : 套裝 10 支組，含以上 10 種磨棒各 1 支。 / 10 pcs. set, contains one each of all above points.



編號 Order No.	BH11A	BH14A	BH19A	BH24A	BH27A	BH32A	BH39A	BH49A	BH14R	BH24R
øD	1.1	1.4	1.9	2.4	2.7	3.2	3.9	4.9	1.4	2.4
T	7	7	7	7	7	7	10	10	10	13
粒度 Grit Size	#150	#150	#120	#120	#120	#120	#120	#120	#150	#150



編號 Order No.	BH20B	BH24B	BH30B	BH35B	BH39B	BH14C	BH19C	BH29C	BH39C	BH49C
øD	2.0	2.4	3.0	3.5	3.9	1.4	1.9	2.9	3.9	4.9
T	-	-	-	-	-	7	7	7	10	10
粒度 Grit Size	#150	#120	#120	#120	#120	#150	#120	#120	#120	#120



編號 Order No.	BH18P	BH24P	BH29P	BH42P	BH14T	BH19T	BH26T	BH30S	BH30Y	BH17J
øD	1.8	2.4	2.9	4.2	1.4	1.9	2.6	3.0	3.0	1.7
T	10	12	14	6	7	7	7	6	-	10
粒度 Grit Size	#150	#150	#150	#150	#120	#120	#120	#120	#150	#150

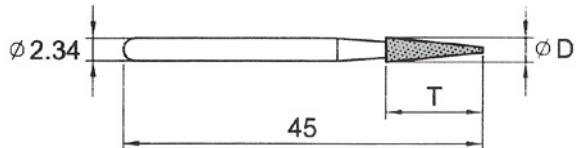
● **BHS-30** : 套裝 30 支組，含以上 30 種磨棒各 1 支。 / 30 pcs. set, contains one each of all above points.

● **BHS-20** : 套裝 20 支組，含以上有 * 標示之磨棒各 1 支。 / 20 pcs. set, contains one each of points which denoted by * .

Diamond Mounted Points

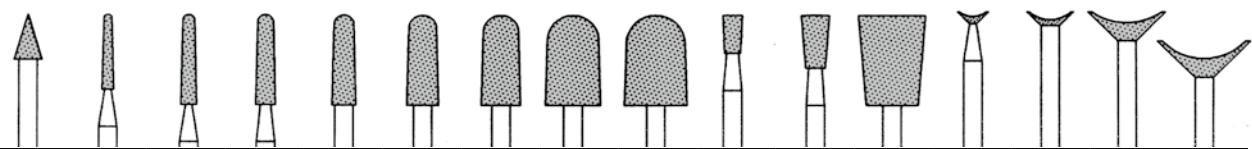
鑽石雕刻針

BH Series - ø2.34mm shank

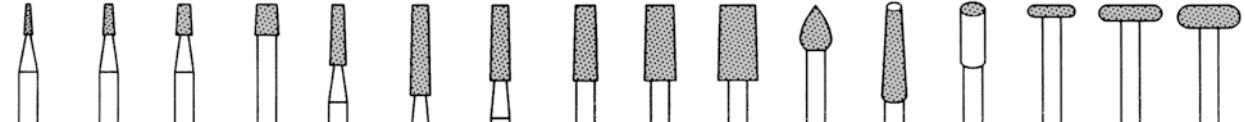


單位 / Unit : mm

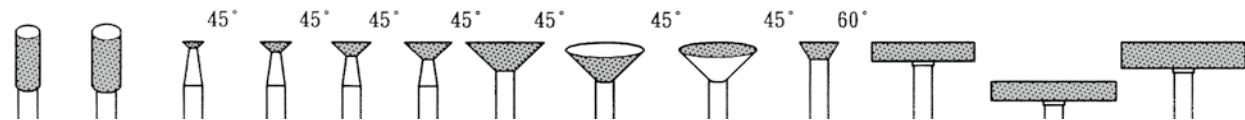
編號 Order No.	D1	D2	D3	D4	A11	A12	A13	A21	A30	7A	8A	C3	C13	C23	TR	1R
øD	1	2	3	4	1	1.5	1.5	2.5	3	7	8	0.9	1.5	2	1.5	1.5
T	-	-	-	-	5	5	7	7	7	6	10	4	10	10	8	10



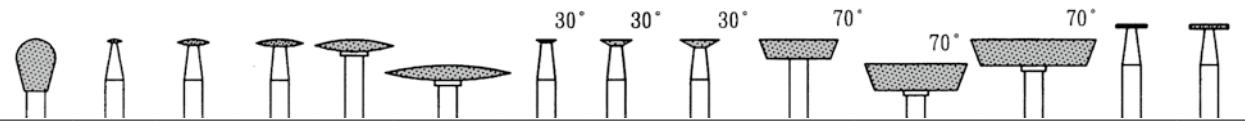
編號 Order No.	KS	1LR	2R	2LR	3R	5R	6R	7R	8R	K6	K10	KA	12BA	14BA	16BA	19BA
øD	3.5	1.5	2	2.5	3	4	5	7	8	2	2.5	7	4	6	10	12
T	6	10	12	12	12	12	12	12	12	5	7	12	-	-	-	-



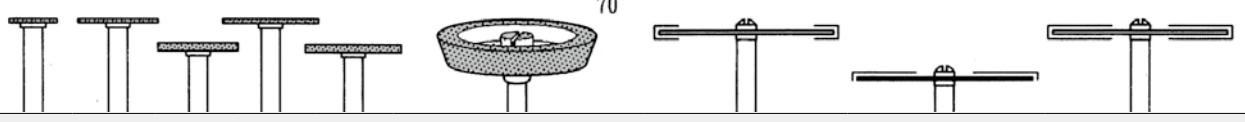
編號 Order No.	T11	T12	T13	T30	1A	2A	2LA	3A	5A	6A	RZ	2LB	A14	Kr5	Kr8	Kr9
øD	1	1.5	2	3	2	2.5	2.5	3	4	5	4	2.5	2.5	6	8	8
T	4	4	4	4	8	12	10	10	10	10	6	12	7	1.5	2	3



編號 Order No.	A20	A31	10B	12B	13B	14B	16B	16BB	16BC	13nk	13mB	16mC	16mB
øD	2.5	3	2.7	4	5	6	10	10	10	5	13	16	16
T	7	7	-	-	-	-	-	-	-	-	2.5	2.5	3.5



編號 Order No.	RT	20X	17X	18X	19X	23X	10BN	12BN	13BN	10mA	13mA	16mA	K25	K30
øD	5	1.8	4	6	10	16	2.5	4	5	10	13	16	4	5
T	7	0.5	0.8	1	1.6	2	-	-	-	2.5	3.5	3.5	0.4	0.6



編號 Order No.	K35	K45	K50	K55	K60	20mA	88D	88C	88A
øD	6	10	10	12	12	20	22	22	22
T	0.5	0.5	1	0.6	1	3.5	0.45	0.35	0.45

Diamond Needle Files

精密組鑽石銼刀

PF-10

全長 : 140mm / 柄徑 : ø3.0mm / 鑽石長 : 50mm

Total length : 140mm

Tool shank : ø3.0mm

Diamond coating length : 50mm



單位 / Unit : mm

形狀與尺寸 Shape & Size	編號 Order No.		
	#120	#200	#400
1. 5.5 x 1.5	PF-101	PF-101F	PF-101V
2. 5 x 2	PF-102	PF-102F	PF-102V
3. Ø3	PF-103	PF-103F	PF-103V
4. 2.5	PF-104	PF-104F	PF-104V
5. 3.5	PF-105	PF-105F	PF-105V
套裝 5 支組 / 5 pcs. set	PF-100	PF-100F	PF-100V

PF-10L

全長 : 140mm / 柄徑 : ø3.0mm / 鑽石長 : 70mm

Total length : 140mm

Tool shank : ø3.0mm

Diamond coating length : 70mm



單位 / Unit : mm

形狀與尺寸 Shape & Size	編號 Order No.		
	#120	#200	#400
1. 5.5 x 1.5	PF-101L	PF-101LF	PF-101LV
2. 5 x 2	PF-102L	PF-102LF	PF-102LV
3. Ø3	PF-103L	PF-103LF	PF-103LV
4. 2.5	PF-104L	PF-104LF	PF-104LV
5. 3.5	PF-105L	PF-105LF	PF-105LV
6. 5.4 x 1.5	PF-106L	PF-106LF	PF-106LV
7. 1.7 x 6	PF-107L	PF-107LF	PF-107LV
8. 6 x 2	PF-108L	PF-108LF	PF-108LV
9. 5 x 2	PF-109L	PF-109LF	PF-109LV
10. 6 x 1.5	PF-110L	PF-110LF	PF-110LV
套裝 10 支組 / 10 pcs. set	PF-100L	PF-100LF	PF-100LV

PF-70 超薄平銼 Thin flat type

此系列薄銼適用於窄縫加工。

全長 : 140mm / 柄徑 : ø3.0mm / 鑽石長 : 40~50mm

This thin flat type files with 0.5 ~ 1.0mm thickness,
it is suitable for filing some narrow gap.

Total length : 140mm

Tool shank : ø3.0mm

Diamond coating length : 40~50mm



單位 / Unit : mm

形狀與尺寸 Shape & Size	編號 Order No.		
	#150	#200	#400
1. 5.5 x 0.5	PF-705	PF-705F	PF-705V
2. 5.5 x 0.8	PF-708	PF-708F	PF-705V
3. 5.5 x 1.0	PF-710	PF-710F	PF-710V

Diamond Needle Files

精密組鑽石銼刀

PFL-10

全長 : 180mm / 柄徑 : ø3.0mm 套膠柄 / 鑽石長 : 25~50mm

Total length : 180mm

Tool shank : ø3.0mm cover with PVC vinyl

Diamond coating length : 25~50mm



形狀與尺寸 Shape & Size	單位 / Unit : mm		
	#200	#150	#400
1. 5.5 x 1.5	PFL-101	PFL-101J	PFL-101V
2. 5 x 2	PFL-102	PFL-102J	PFL-102V
3. Ø3	PFL-103	PFL-103J	PFL-103V
4. 2.5	PFL-104	PFL-104J	PFL-104V
5. 3.5	PFL-105	PFL-105J	PFL-105V
6. 5.5 x 1	PFL-106	PFL-106J	PFL-106V
7. 5.5 x 0.5	PFL-705	PFL-705J	PFL-705V
8. 5.5 x 0.8	PFL-708	PFL-708J	PFL-708V
9. Ø2	PFL-03	PFL-03J	PFL-03V
10. 5.5 x 1.5	PFL-01	PFL-01J	PFL-01V
套裝 10 支組 / 10 pcs. set	PFL-100	PFL-100J	PFL-100V

PF-20

全長 : 200mm / 柄徑 : ø4.0mm / 鑽石長 : 70mm

Total length : 200mm

Tool shank : ø4.0mm

Diamond coating length : 70mm



形狀與尺寸 Shape & Size	單位 / Unit : mm		
	#120	#200	#400
1. 8.5 x 1.6	PF-201	PF-201F	PF-201V
2. 7 x 2.5	PF-202	PF-202F	PF-202V
3. Ø4	PF-203	PF-203F	PF-203V
4. 3.5	PF-204	PF-204F	PF-204V
5. 4.5	PF-205	PF-205F	PF-205V
套裝 5 支組 / 5 pcs. set	PF-200	PF-200F	PF-200V

PF-30

全長 : 180mm / 柄徑 : ø3.4mm / 鑽石長 : 60mm

Total length : 180mm

Tool shank : ø3.4mm

Diamond coating length : 60mm



形狀與尺寸 Shape & Size	單位 / Unit : mm		
	#120	#200	#400
1. 7.5 x 1.5	PF-301	PF-301F	PF-301V
2. 6 x 2.1	PF-302	PF-302F	PF-302V
3. Ø3.5	PF-303	PF-303F	PF-303V
4. 3	PF-304	PF-304F	PF-304V
5. 4	PF-305	PF-305F	PF-305V
套裝 5 支組 / 5 pcs. set	PF-300	PF-300F	PF-300V

Diamond Bent Files

鑽石異形銼刀

BF-60

全長 : 140mm / 柄徑 : ø3.0mm / 鑽石長 : 30mm

Total length : 140mm

Tool shank : Ø3.0mm

Diamond coating length : 30mm



單位 / Unit : mm

形狀與尺寸 Shape & Size	#150	#200	#400	編號 Order No.
1. 5.5 x 1.2	BF-601	BF-601F	BF-601V	
2. 5 x 2	BF-602	BF-602F	BF-602V	
3. Ø3	BF-603	BF-603F	BF-603V	
4. 2.5	BF-604	BF-604F	BF-604V	
5. 3.5	BF-605	BF-605F	BF-605V	
套裝 5 支組 / 5 pcs. set	BF-600	BF-600F	BF-600V	

BF-80

全長 : 155mm / 柄徑 : 3.0mm 方柄 / 鑽石長 : 20~30mm (雙頭)

單位 / Unit : mm

Total length : 155mm

Tool shank : 3.0mm square shank

Diamond coating length : 20~30mm (Double head)



形狀與尺寸 Shape & Size	#200	#150	#400	編號 Order No.
1. 3 x 2	BF-801	BF-801J	BF-801V	
2. Ø2	BF-802	BF-802J	BF-802V	
3. Ø3	BF-803	BF-803J	BF-803V	
4. Ø3	BF-804	BF-804J	BF-804V	
5. 3	BF-805	BF-805J	BF-805V	
6. 3	BF-806	BF-806J	BF-806V	
套裝 6 支組 / 6 pcs. set	BF-800	BF-800J	BF-800V	

BF-90

全長 : 140mm / 柄徑 : ø3.0mm / 鑽石長 : 20mm

單位 / Unit : mm

Total length : 140mm

Tool shank : Ø3.0mm

Diamond coating length : 20mm



形狀與尺寸 Shape & Size	#150	#200	#400	編號 Order No.
1. 6 x 1.3	BF-901	BF-901F	BF-901V	
2. 2.5	BF-902	BF-902F	BF-902V	
3. 3.5 x 1.5	BF-903	BF-903F	BF-903V	
4. 3.5	BF-904	BF-904F	BF-904V	
5. 5 x 2	BF-905	BF-905F	BF-905V	
6. 3.5 x 1.5	BF-906	BF-906F	BF-906V	
7. 3.5 x 2	BF-907	BF-907F	BF-907V	
8. Ø3	BF-908	BF-908F	BF-908V	
9. 5 x 1.5	BF-909	BF-909F	BF-909V	
10. Ø2.3	BF-910	BF-910F	BF-910V	
套裝 10 支組 / 10 pcs. set	BF-900	BF-900F	BF-900V	

Diamond Tapered Hand Files

鑽石平斜銼刀



PTF-100



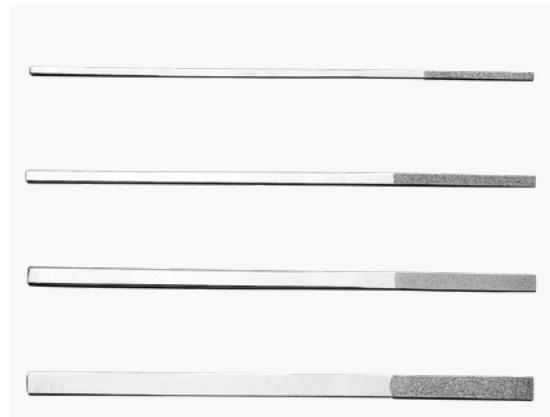
CF-400

PTF-100



編號 Order No.	全長 Total Length	鑽石長 Dia. Length	形狀 Cross-Section	粒度 Grit Size
PTF-12F				#200
PTF-12V	130	30		#400
PTF-12X				#600
PTF-14F				#200
PTF-14V	130	30		#400
PTF-14X				#600
PTF-16F				#200
PTF-16V	130	30		#400
PTF-16X				#600
PF-103X	140	50		#600
PTF-100	10 支套裝 / 10 pcs. set in pvc pouch, contains one each of all above files			

CF-400



編號 Order No.	全長 Total Length	鑽石長 Dia. Length	形狀 Cross-Section	粒度 Grit Size
CF-402J				#150
CF-402F	180	40		#200
CF-402V				#400
CF-404J				#150
CF-404F	180	50		#200
CF-404V				#400
CF-406J				#150
CF-406F	180	50		#200
CF-406V				#400
CF-408J				#150
CF-408F	180	50		#200
CF-408V				#400
CF-400	12 支套裝 / 12 pcs. set in pvc pouch, contains one each of all above files			

Diamond Hand Files

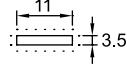
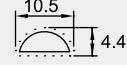
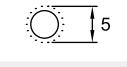
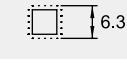
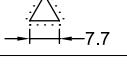
鐵工用鑽石銼刀

IF-50 鐵工用鑽石銼刀 / Diamond Hand Files

粒度 : #100

Grit size : #100

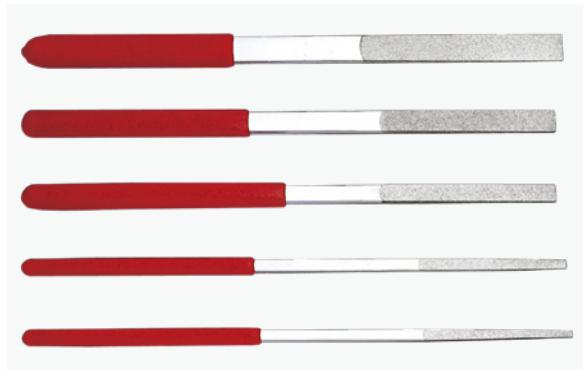


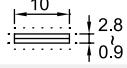
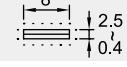
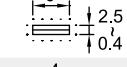
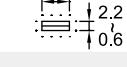
編號 Order No.	全長 Total Length	鑽石長 Dia. Length	形狀 Cross-Section	單位 / Unit : mm
IF-501	215	80		
IF-502	215	80		
IF-503	215	80		
IF-504	215	80		
IF-505	215	80		

CF-50 鑽石平斜銼刀 / Diamond Hand Tapered Files

粒度 : #150, #200

Grit size : #150, #200

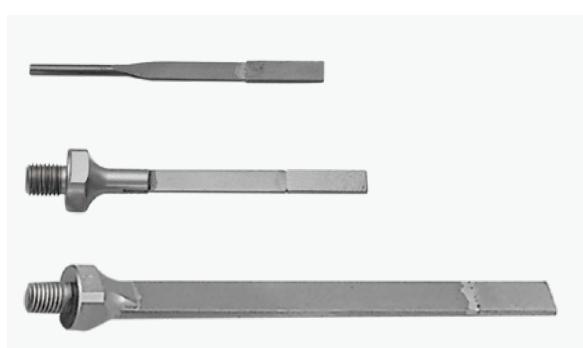


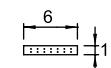
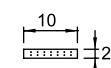
編號 Order No.	全長 Total Length	鑽石長 Dia. Length	形狀 Cross-Section	單位 / Unit : mm
CF-501	180	70		
CF-502	180	60		
CF-503	180	60		
CF-504	180	50		
CF-505	180	50		
CF-500	木盒裝 5 支組 / 5pcs. set / wooden case			

金屬結合鑽石銼刀 / Sintered Diamond Files

電動及氣動超音波研磨機專用。

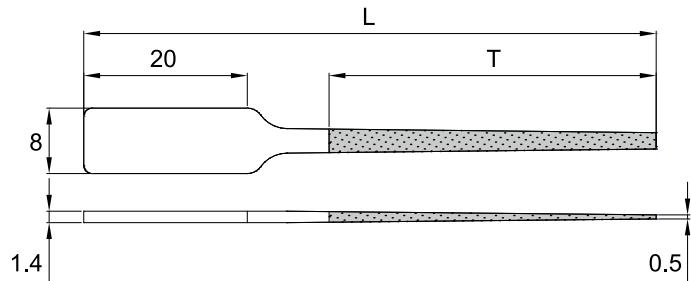
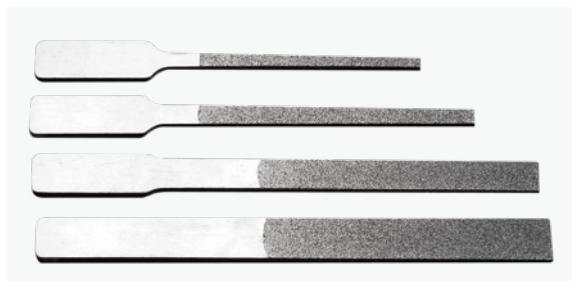
Special design for pneumatic or ultrasonic lapping machine.



編號 Order No.	全長 Total Length	鑽石長 Dia. Length	形狀 Cross-Section	粒度 Grit Size
MMF-615F				#200
MMF-615V	54	20		#400
MMF-615X				#600
MDT-02F				#200
MDT-02V	72	20		#400
MDT-02X				#600
MDT-03F				#200
MDT-03V	105	20		#400
MDT-03X				#600

Diamond Tip Files

鑽石銼刀片



編號 Order No.	L	T	形狀 Shape	粒度 Grit Size
FA-632J				#150
* FA-632F	70	40	3~2 	#200
* FA-632V				#400
* FA-632X				#600
* FA-643J				#150
* FA-643F	80	50	4~3 	#200
* FA-643V				#400
FA-643X				#600
* FA-666J				#150
* FA-666F	90	50	6 	#200
FA-666V				#400
FA-666X				#600
* FA-688J				#150
* FA-688F	90	50	8 	#200
FA-688V				#400
FA-688X				#600
XH-32	(122)			

FAS-600 10 支綜合組裝包含上表有
* 標示之銼刀各一支。（銼刀夾柄另購） /
10pcs. assortment set / pvc pouch, containing
one each of file which denoted by asterisk. (Tool
holder is optional.)

特點 \ Features

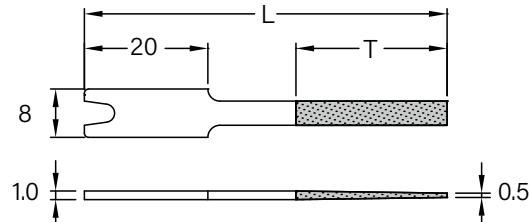
1. 節省材料。
2. 配合夾柄 (XH-32) 使用，手感更好。
3. 全新製程，切削力及壽命更好。
4. 可手持操作，亦可夾於機器上使用。
5. 銼刀形狀設計更合乎人體工學。
6. 可取代一般鑽石平斜銼刀。



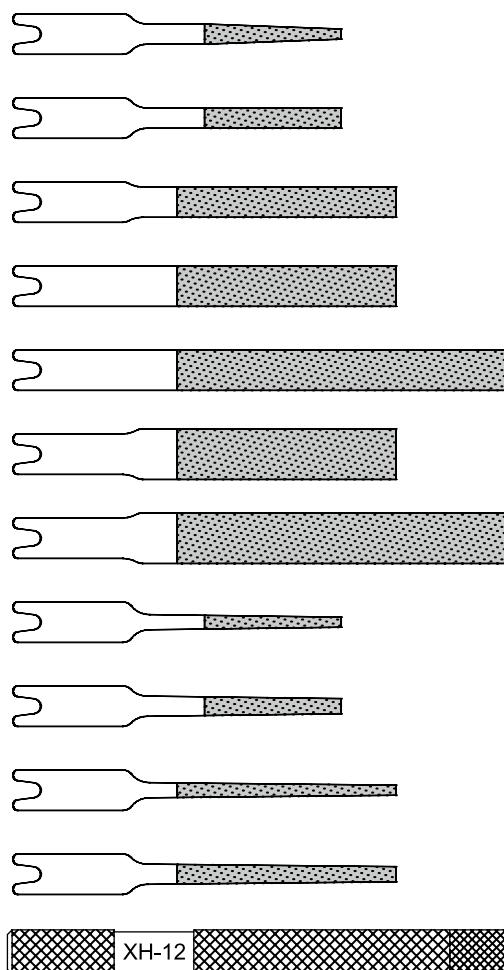
1. Less material usage.
2. The usage of holder (XH-32) makes it feel much better when operating.
3. Brand-new manufacturing process provides a better cutting ability and also prolongs the tool life.
4. Both suitable for hand-held and machine-mounted operations.
5. The designation is complied with the ergonomic.
6. Be able to replace the general diamond tapered hand files.

Diamond Tip Files

鑽石銼刀片



單位 / Unit : mm

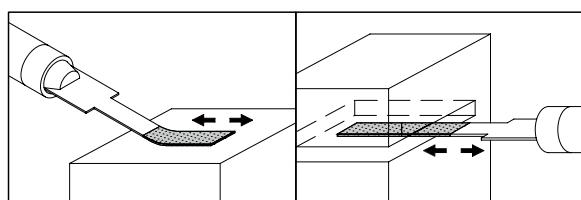


編號 Order No.	L	T	形狀 Shape	粒度 Grit Size
* FA-426J				#150
* FA-426F	60	25	4~2 1.0 0.5	#200
FA-426V				#400
* FA-446J				#150
* FA-446F	60	25	4 1.0 0.5	#200
FA-446V				#400
* FA-667J				#150
* FA-667F	70	40	6 1.0 0.5	#200
FA-667V				#400
FA-887J				#150
FA-887F	70	40	8 1.0 0.5	#200
FA-887V				#400
* FA-889J				#150
* FA-889F	90	60	8 1.0 0.5	#200
FA-889V				#400
FA-107J				#150
FA-107F	70	40	10 1.0 0.5	#200
FA-107V				#400
* FA-109J				#150
* FA-109F	90	60	10 1.0 0.5	#200
FA-109V				#400
FA-326F				#200
FA-326V	60	25	3~2 1.0 0.5	#400
FA-326X				#600
FA-436F				#200
FA-436V	60	25	4~3 1.0 0.5	#400
FA-436X				#600
FA-327F				#200
FA-327V	70	40	3~2 1.0 0.5	#400
FA-327X				#600
FA-437F				#200
FA-437V	70	40	4~3 1.0 0.5	#400
FA-437X				#600
XH-12		(122)		1.0

10支組木盒裝，含夾炳1支及有*標示之銼刀各1支。
FAS-100T 10pcs. Set with tool holder / wooden case, containing one each of file which denoted by asterisk and one tool holder (XH-12).

特點 \ Features

- 富彈性，可彎曲研磨。
- 厚度只有1mm，適合夾縫研磨。
- 適合用於各種銼磨機及手持加工。



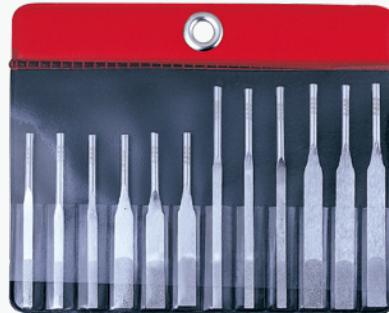
- With the maximum thickness of 1mm only, the files are suitable for narrow and deep gap processing. Contoured to make difficult-to-reach areas readily accessible.
- They are tapered in thickness to make possible perfectly flat filing and flexible for bending while still maintaining their hardness.
- Both suitable for hand-held and machine-mounted operations.

Diamond Tapered Machine Files

鑽石機械平斜銼刀



MTP-120



MTF-100

MTP Series



編號 Order No.	全長 Total Length	鑽石長 Dia. Length	形狀 Cross-Section	粒度 Grit Size
MTP-12J				#150
MTP-12F	72	25		#200
MTP-12H				#300
MTP-12V				#400
MTP-14J				#150
MTP-14F	72	25		#200
MTP-14H				#300
MTP-14V				#400
MTP-16J				#150
MTP-16F	72	25		#200
MTP-16H				#300
MTP-16V				#400
MTP-120	12 支套裝 / 12 pcs. set in pvc pouch.			

MTF Series



編號 Order No.	全長 Total Length	鑽石長 Dia. Length	形狀 Cross-Section	粒度 Grit Size
MTF-13F				#200
MTF-13V	72	15		#400
MTF-13X				#600
MTF-16F				#200
MTF-16V	72	15		#400
MTF-16X				#600
MTF-23F				#200
MTF-23V	56	15		#400
MTF-23X				#600
MTF-26F				#200
MTF-26V	56	15		#400
MTF-26X				#600
MTF-100	12 支套裝 / 12 pcs. set in pvc pouch.			

Diamond Machine Files

鑽石機械銼刀

MPF-10

全長 : 90mm / 柄徑 : ø3.0mm / 鑽石長 : 45mm

Total length : 90mm

Tool shank : ø3.0mm

Diamond coating length : 45mm



單位 / Unit : mm

形狀與尺寸 Shape & Size	編號 Order No.		
	#150	#200	#400
1. 4 X 1.2	MPF-101	MPF-101F	MPF-101V
2. 5 X 2	MPF-102	MPF-102F	MPF-102V
3. Ø3	MFF-103	MPF-103F	MPF-103V
4. 2.5	MPF-104	MPF-104F	MPF-104V
5. 5 X 2	MPF-109	MPF-109F	MPF-109V
套裝 5 支組 / 5 pcs. set	MPF-100	MPF-100F	MPF-100V

MBF-60

全長 : 85mm / 柄徑 : ø3.0mm / 鑽石長 : 30mm

Total length : 85mm

Tool shank : ø3.0mm

Diamond coating length : 30mm



單位 / Unit : mm

形狀與尺寸 Shape & Size	編號 Order No.		
	#150	#200	#400
1. 5.5 X 1.2	MBF-601	MBF-601F	MBF-601V
2. 5 X 2	MBF-602	MBF-602F	MBF-602V
3. Ø3	MBF-603	MBF-603F	MBF-603V
4. 2.5	MBF-604	MBF-604F	MBF-604V
5. 3.5	MBF-605	MBF-605F	MBF-605V
套裝 5 支組 / 5 pcs. set	MBF-600	MBF-600F	MBF-600V

MBF-90

全長 : 65mm / 柄徑 : ø3.0mm / 鑽石長 : 20~30mm

單位 / Unit : mm

Total length : 65mm

Tool shank : Ø3.0mm

Diamond coating length : 20~30mm



形狀與尺寸 Shape & Size	編號 Order No.		
	#150	#200	#400
1. 5.8 X 1.2	MBF-901	MBF-901F	MBF-901V
2. 3.2 X 1.4	MBF-902	MBF-902F	MBF-902V
3. 5 X 2	MBF-903	MBF-903F	MBF-903V
4. 3.2 X 1.4	MBF-904	MBF-904F	MBF-904V
5. Ø3	MBF-905	MBF-905F	MBF-905V
6. Ø3	MBF-906	MBF-906F	MBF-906V
7. 2.5	MBF-907	MBF-907F	MBF-907V
8. 3.2 X 1.4	MBF-908	MBF-908F	MBF-908V
9. 3.2 X 1.4	MBF-909	MBF-909F	MBF-909V
10. 3.5 X 2	MBF-910	MBF-910F	MBF-910V
套裝 10 支組 / 10 pcs. set	MBF-900	MBF-900F	MBF-900V

Plated Diamond Disc

鑽石切片

鑽石切片適用於切溝、切斷，研磨下列材質：玻璃，鋁鋼、陶瓷、石材、硬橡膠、FRP、碳纖維、石墨以及複合材料，…等。

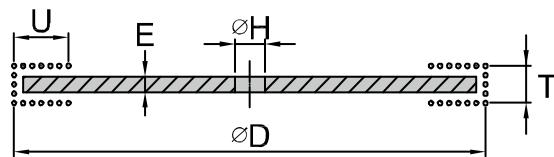
Diamond disc use for grooving, cutting, & grinding the following materials : glass, tungsten carbide, ceramic, stone, hard rubber, FRP, composite materials and graphite…etc.



TYPE A



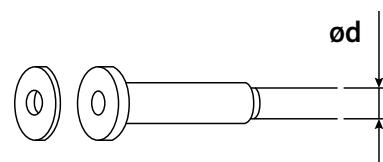
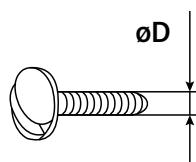
TYPE E



單位 / Unit : mm

編號 Order No.	Type	ØD	T	U	E	ØH	粒度 Grit Size	軸柄 Mandrel
BM-190E	E	19	0.4	2	0.2	1.7	#200	A,B,C
BM-190A	A	19	0.4	6	0.2	1.7	#200	A,B,C
BM-220E	E	22	0.4	2	0.2	1.7	#200	A,B,C
BM-220A	A	22	0.4	8	0.2	1.7	#200	A,B,C
BM-250E	E	25	0.4	2	0.2	1.7	#200	A,B,C
BM-250A	A	25	0.5	8	0.2	1.7	#150	A,B,C
BM-300E	E	30	0.4	2	0.2	1.7	#200	A,B,C
BM-300A	A	30	0.5	8	0.2	1.7	#150	A,B,C
BM-221E	E	22	0.4	2	0.2	3.0	#200	D,E,F
BM-221A	A	22	0.4	8	0.2	3.0	#200	D,E,F
BM-251E	E	25	0.4	2	0.2	3.0	#200	D,E,F
BM-251A	A	25	0.5	8	0.2	3.0	#150	D,E,F
BM-301E	E	30	0.4	2	0.2	3.0	#200	D,E,F
BM-301A	A	30	0.5	10	0.2	3.0	#150	D,E,F

軸柄 / Mandrel



單位 / Unit : mm

編號 Order No.	ØD	Ød
A. AK234	2.34	1.7
B. AK300	3.0	1.7
C. AK318	3.175	1.7
D. MK234	2.34	3.0
E. MK300	3.0	3.0
F. MK318	3.175	3.0

Diamond Dressing Tools PCD & PCBN Turning Tools

鑽石修刀及鑽石車刀

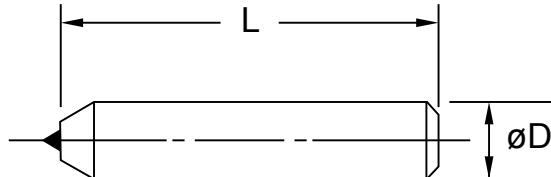


KKDia
聯成鑽石

Diamond Dressing Tools

鑽石修刀

單石修刀 / Single Point Diamond Dressers

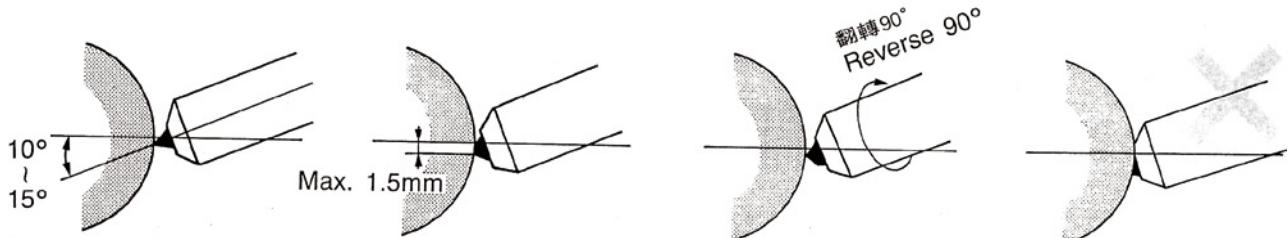


單位 / Unit : mm

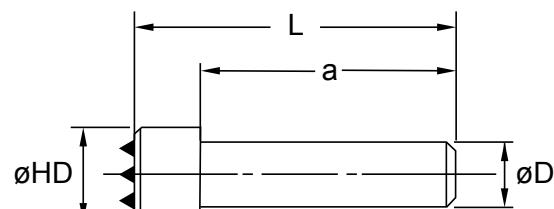
編號 Order No.	鑽石番號 Dia. wt. Code	大約重量 (克拉) Approx. wt.(cts.)	適用砂輪 Grinding Wheels Size
DS005	#5	0.18	
DS010	#10	0.20	Ø150 x 25 以下 / or smaller.
DS015	#15	0.25	
DS020	#20	0.35	
DS025	#25	0.50	Ø150 ~ Ø300 x 25
DS033	#33	0.75	
DS050	#50	1.0	Ø300 ~ Ø450 x 25 ~ 40
DS075	#75	1.5	Ø450 ~ Ø600 x 50 ~ 100
DS100	#100	2.0	Ø600 以上 / or larger.

● 訂購時請說明編號及鐵柄尺寸或提供詳細圖面。/ When ordering, please specify order no. & shank size or detail drawing.

正確按裝及使用 / Installation and operation



多石修刀 / Multi Point Diamond Dressers



單位 / Unit : mm

編號 Order No.	總鑽石重量 Total Stone Weight	鑽石顆數 Nos. of Stone	鑽石層數 Nos. of Stone Layer
DM03201	1.0 Carat	3	1
DM05101	1.0 Carat	5	1
DM06101	1.0 Carat	6	1
DM07101	1.4 Carat	7	1
DM03101	0.6 Carat	3	1

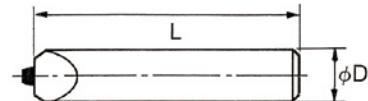
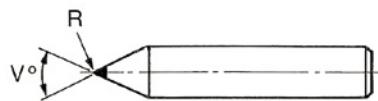
● 訂購時請說明編號及鐵柄尺寸或提供詳細圖面。/ When ordering, please specify order no. & shank size or detail drawing.

Diamond Forming Dressers

成型修刀

成型修刀 / Chisel Type Diamond Dressers

成型修刀用於砂輪之成形修整，或內、外弧之成形修整。/ For forming accurate radii and forms on grinding wheels.



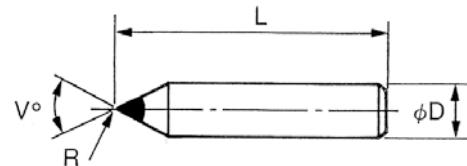
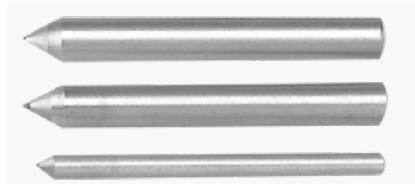
單位 / Unit : mm

編號 Order No.	鑽石角度 (V°)	鑽石端弧度 (R)	鑽石原料 Diamond Material
DF0255	55°	0.2 R	天然鑽石 Nature Diamond
DF0560	60°	0.5 R	天然鑽石 Nature Diamond
DF0255F	55°	0.2 R	人造鑽石 Synthetic Diamond
DF0560F	60°	0.5 R	人造鑽石 Synthetic Diamond

●訂購時請說明編號及鐵柄尺寸或提供詳細圖面。/ When ordering, please specify order no. & shank size or detail drawing.

圓錐修刀 / Coned Diamond Dressers

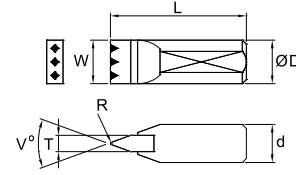
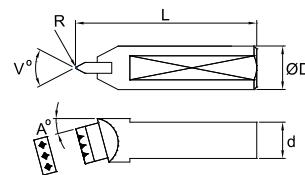
圓錐修刀用於砂輪之成形修整，或內、外弧之成形修整。/ For forming accurate radii and forms on grinding wheels.



單位 / Unit : mm

編號 Order No.	鑽石角度 (V°)	鑽石端弧度 (R)	鑽石原料 Diamond Material
DC600	60°	0.02~0.03R	Ø1/8" x 1" L
DC601	60°	0.02~0.03R	Ø1/8" x 2" L
DC602	60°	0.02~0.03R	Ø1/4" x 2" L
DC603	60°	0.02~0.03R	Ø3/8" x 2" L
DC604	60°	0.02~0.03R	Ø10 x 50L(mm)

CVD 成型修刀 / CVD Forming Dressers



單位 / Unit : mm

編號 Order No.	V°	A°	W	R	ØD	d	L	鑽石顆數 Stone Nos.
CVD-F0240-1	40	-	8	0.2	8	-	25	3
CVD-F0255-1	55	-	10	0.2	12	11	40	3
CVD-F02550-T1	55	15	10	0.2	12	10	50	3
CVD-F02550-T2	55	6	10	0.2	12	11.5	50	3

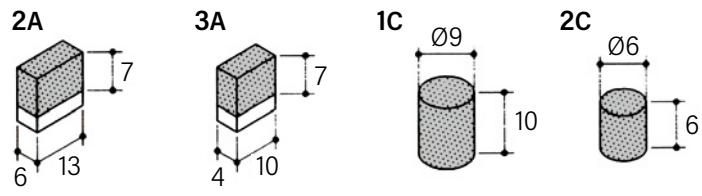
●其他規格請提供詳細圖面訂購。/ Other size, please offer detail drawing to order.

Impregnated Diamond Dressers

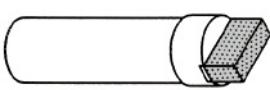
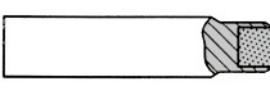
結合修刀



鑽石齒塊尺寸 / The dimensions of diamond tips



單位 / Unit : mm

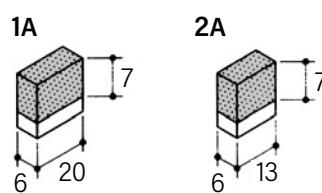
鐵柄形狀 Type of Shank	編號 Order No.	鑽石齒塊 Diamond Tips	粒度 Grit Size	鐵柄尺寸 Size of Shank	適用範圍 Applications
	DI-2AFC	2A	F	Ø12 x 100L	無心研磨，圓筒研磨，平面研磨砂輪尺寸 Ø300x25 到 Ø500x63。 For centerless, cylindrical, surface grinding. Wheel size : Ø300x25 to Ø500x63.
	DI-2AMC	2A	M	Ø12 x 50L	
	DI-2ARC	2A	R	Ø11 x 30L	
	DI-2AFD	2A	F	Ø12 x 50L	無心研磨，圓筒研磨，平面研磨砂輪尺寸 Ø300x25 到 Ø500x63。 For centerless, cylindrical, surface grinding. Wheel size : Ø300x25 to Ø500x63.
	DI-2AMD	2A	M	Ø11 x 30L	
	DI-2ARD	2A	R		
	DI-1CFG	1C	F		一般用途之研磨砂輪尺寸 Ø300 或以下。 For general purpose grinding. Wheel size: Ø300 and smaller.
	DI-1CMG	1C	M	Ø12 x 50L Ø11 x 30L	
	DI-1CRG	1C	R		

• 粒度 / Grit size : F - 細目 / Fine 、 M - 中目 / Medium 、 R - 粗目 / Coarse

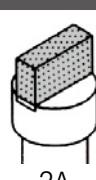
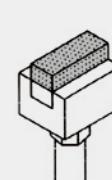
手持式鑽石修刀 / Hand Diamond Dressers



鑽石齒塊尺寸 / The dimensions of diamond tips



單位 / Unit : mm

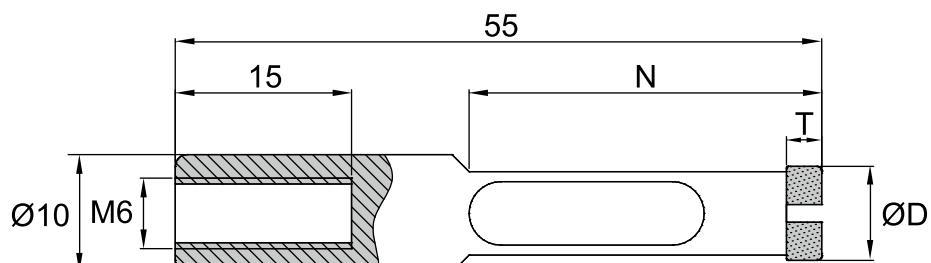
形式 Form	編號 Order No.	鑽石齒塊 Diamond Tips	粒度 Grit Size
Type 01 總長 / Total length : 160mm	HD-01R		
	HD-01F		R: 粗目 / Coarse F: 細目 / Fine
Type 02 總長 / Total length : 200mm	HD-02R		
	HD-02F		R: 粗目 / Coarse F: 細目 / Fine
			或者 or
		方向 1 Direction 1	方向 2 Direction 2

Electroplated Diamond Core Drills

電鑄鑽石鑽管

此系列產品主要使用於 FRP、超硬磁磚、人造花崗岩、花崗岩、拋光石英磚、瓷器、大理石、陶器、赤土陶器、玻璃、石墨、石材等材料之鑽孔。

Electroplated Diamond Core Drills are used for drilling FRP, hard tiles, artificial granite, granite, quartz, porcelain, marble, ceramic, terra cotta ceramic, glass, graphite & stone.



單位 / Unit : mm

編號 Order No.	$\varnothing D$		T	N	粒度 Grit Size	備註 Remarks
	mm	inch				
ESD-032	3.2	1/8"	10	25	#60	Solid Drills
ECD-050	5.0	3/16"	3	30	#60	Core Drills
ECD-065	6.5	1/4"	3	30	#60	Core Drills
ECD-080	8	5/16"	3	30	#60	Core Drills
ECD-100	10	3/8"	3	30	#60	Core Drills
ECD-130	13	1/2"	3	30	#60	Core Drills
ECD-160	16	5/8"	3	35	#60	Core Drills
ECD-191	19.05	3/4"	3	35	#60	Core Drills
ECD-254	25.4	1"	3	35	#60	Core Drills

● 標準粒度外，其他粒度請指明訂購。/ Grit size in the above table is standard for that item, others are available upon request.

PCD & PCBN Turning Tools

聚晶鑽石、氮化硼車刀

聚晶鑽石和聚晶氮化硼車刀與其他切削刀具比較，具有較高之硬度及耐磨耗性，其優點如下：有較長之刀具壽命，提高工件加工精度及表面光製度，降低工件加工成本以及提高機器生產力。

PCD & PCBN have higher hardness & abrasion resistance than other cutting tools. The advantages of these features are : improving tool's life, providing better control over part size and surface finishes, reducing tool cost per machined part and improving machine productivity.



應用 \ Application

聚晶鑽石 (PCD)

1. 銅合金、鋁合金。
2. 燒結碳化鈷及陶瓷。
3. 預燒結碳化鈷及陶瓷。
4. 高矽鋁合金。
5. F.R.P、硬橡膠、石墨。

聚晶氮化硼 (PCBN)

1. 硬化鋼材 (HRC 45 ~ 68)。
2. 耐熱鋼 (SUS)。
3. 超耐熱鋼：鎳基合金，鈷基合金。
4. 鑄鐵：冷激鑄鐵、接種鑄鐵。
5. 燒結合金鋼：鉻鉻鋼、鎳鉻鉻鋼。

Polycrystalline Diamond (PCD)

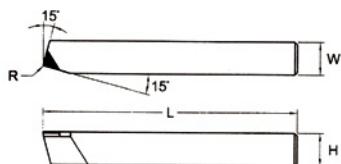
1. Aluminum alloys、copper alloys、manganese alloys.
2. Sintered carbide & ceramics.
3. Green or semi-sintered carbide & ceramics.
4. High-silicon aluminum alloys.
5. Reinforced plastic、hard rubber、carbon、graphite.

Polycrystalline Cubic Boron Nitride (PCBN)

1. Hardened steels (HRC 45 ~ 68).
2. Tempering steels.
3. Super alloys : Cobalt and nickel base super alloys.
4. Cast iron : Chilled iron, Meehanite iron.
5. Sintered ferrous alloys : SCM, SNCM.

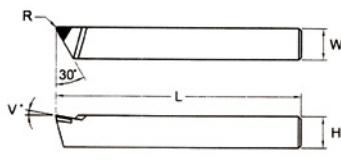
單位 / Unit : mm

31型

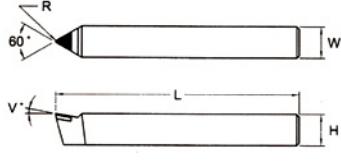


編號 Order No.	刀片材質 Tip Material	W	H	L	R	V°	S
B4612-4G	PCBN	16	16	120	0.4	0	0
B4613-4G	PCBN	19	19	140	0.4	0	0
D6732-5A	PCD	16	16	120	0.5	0	0
D6733-5A	PCD	19	19	140	0.5	0	0
B6630-4G	PCBN	10	10	80	0.4	0	0
B6631-4G	PCBN	13	13	100	0.4	0	0
B6632-4G	PCBN	16	16	120	0.4	0	0
D6530-3F	PCD	10	10	80	0.3	10	0
D6531-3F	PCD	13	13	100	0.3	10	0
D6532-3F	PCD	16	16	120	0.3	10	0
D6540-3F	PCD	10	10	80	0.3	10	0
D6541-3F	PCD	13	13	100	0.3	10	0
D6542-3F	PCD	16	16	120	0.3	10	0
D6752-5A	PCD	16	16	120	0.5	0	0
D6753-5A	PCD	19	19	140	0.5	0	0
B6650-4G	PCBN	10	10	80	0.4	0	0
B6651-4G	PCBN	13	13	100	0.4	0	0
B6652-4G	PCBN	16	16	120	0.4	0	0
D6550-3F	PCD	10	10	80	0.3	10	0
D6551-3F	PCD	13	13	100	0.3	10	0
D6552-3F	PCD	16	16	120	0.3	10	0
D6772-5A	PCD	16	16	120	0.5	0	2
D6773-5A	PCD	19	19	140	0.5	0	2
B6672-4G	PCBN	16	16	120	0.4	0	2
B6673-4G	PCBN	19	19	140	0.4	0	2
D6571-3F	PCD	13	13	100	0.3	10	2
D6572-3F	PCD	16	16	120	0.3	10	2

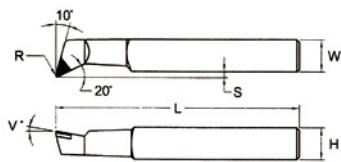
34型



35型



37型



●其他規格之車刀，請提供詳細圖面訂購。/ The turning tools with other specification, please offer detail drawing when ordering.

Ultrasonic Lapping Machine Air Grinders

超音波與氣動研磨機



KKDia
聯成鑽石

Ultrasonic Lapping Machine

超音波振動研磨機

超音波振動研磨機，以每秒兩萬多次的超高頻微細振動，可輕鬆地解決各種模具的複雜或細微部位之加工。以前難以加工的溝槽、肋骨、角落或複雜及微細等部位，現在使用超音波振動研磨機，將可有效地且省時地完成各種模具之研磨及拋光工作。

Ultrasonic Lapping Machine with micro vibration stroke and extra-high frequency (22,000 times per second), which can easily handle most intricate jobs for various molds and dies.

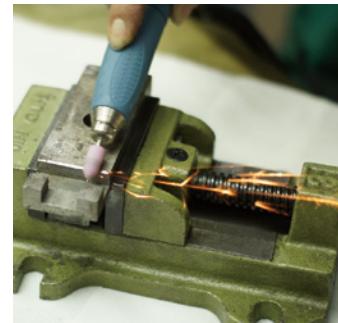
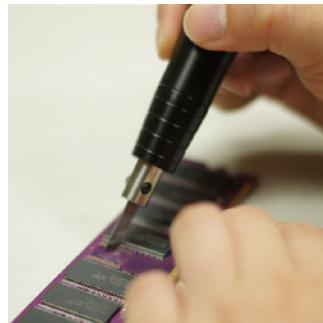
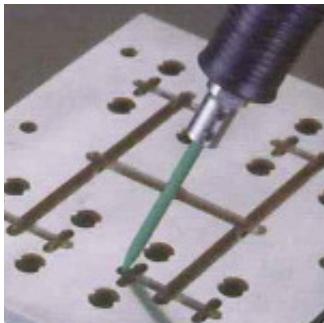
The difficult traditional process of slots, ribs, detail corners, intricate areas becomes so easy with time saving, and efficiently reach a quality result of polishing and finishing Process.



應用 \ Application

1. 各種磨具之研磨及拋光。
2. 塑膠製品複雜、精細部位之切斷或去毛邊。
3. 印刷電路板 (PCB) 電子迴路修改。
4. 石頭、玻璃、寶石等之精細雕刻或拋光。
5. 布、橡膠薄膜等之切斷。

1. For polish and grinding of the mold & die.
2. For cutting and deburring of plastics on intricate area.
3. For correction of PCB patterns.
4. For fine engraving or polishing of stone, glass and jewelry.
5. For cutting of rubber film, clothe, etc.



特長 \ Features

1. 強勁的輸出功率：

最大 45 瓦的輸出功率，提供有效且快速之加工作業。

2. 自動追尾迴路：

機器會根據各種不同工具，自動檢測並選擇最佳之輸出振頻以發揮各種工具之最佳性能。

3. 電子穩壓變壓器：

電子變壓器兼具穩壓效果，即使在電源不穩定之情況下，依然可維持機器良好的操作性能，且可保護機器不致受損。

4. 空振檢知迴路設計：

當手機未與工件接觸時，機器會自動降低輸出功率，以延長手機壽命，並可防止工具因空振導致發燙或燒毀。

1. Powerful output :

Max.45 watts of output power enables you to achieve any polishing task at the best performance.

2. Auto feedback system :

Machine itself will automatically adjust frequency according to different tools to get the best performance.

3. Electronic transformer with regulation :

To maintain the machine in good performance and protect it from damage even at an unstable supply of electric voltage.

4. Detecting circuit of suspending :

When handpiece is not in used, the unit will automatically reduce the output power. It does not only prolong the life of the handpiece transducer but also keep the tools from heating up.

Ultrasonic Lapping Machine

超音波振動研磨機

AR-800 旗艦多機能型 / Multi-function Flagship Type

旗艦主打 / Flagship



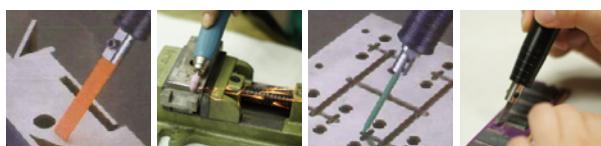
全新設計旗艦型機種，擁有最先進的多機能設計，結合超音波，有刷及無刷直流等三種輸出。

- 無刷直流輸出最大 250 瓦，有刷直流輸出最大 150 瓦，提供各種手機有更高的扭力，發揮其最佳的研磨效果。
- 先進的高效率微處理器，使超音波的拋光效果更加穩定，更有效率。
- 在使用無刷手機會時，LED 轉速顯示，讓您可依據各種不同的工具，調整最合適轉速，以達到最有效率且安全的研磨效果。
- 每次啟動機器，系統會自動地將轉速歸“零”，避免因手機會高速啟動而造成危險。
- 本機之標準配備含有超音波手機會 (GS-H26) 及無刷旋轉手機會 (U-Lap60) 各一支。

With the most advanced design that provides the multi-function of Ultrasonic, Brush DC (direct-current) and Brushless DC output.

- All new design with high-efficiency microprocessor that give the machine with perfect performance.
- The brushless DC with max. 300 watts and brush DC with max. 150 watts output power that gives your handpiece with high torque and high speed running.
- The LED speed display shows you the running speed of brushless handpiece. You can select the best and safe speed according to various tools and diameter.
- Once turn on the machine, the system will automatically adjust the speed to “Zero”, that keep you away from the damage caused by high speed running of handpiece.
- This machine includes one each of ultrasonic and brushless handpiece.

基礎應用實例 / Applications



模具精修
Mold & Die
Polish

研磨加工
Grinding

細縫 & 溝槽
微加工
Correction of
Intricate area

PCB
板迴路修改
Correction of
PCB patterns

標準規格 / Specifications

電源控制器 / Power Controller	
電源 / Main supply	AC-90V ~ 250V, 50/60Hz
超音波輸出 / Ultrasonic output	45 watts
振頻 / Vibration frequency	18 ~ 26 kHz
振幅 / Stroke amplitude	3 ~ 40 μm
振頻調整 / Frequency adjustment	自動追尋 / auto-tracing
消耗功率 / Power consumption	300 watts
保險絲 / Fuse	3A time-lag type
直流馬達輸出 / Output of DC motor	5 ~ 32V
有刷輸出功率 / Power of DC brush	Max. 150 watts
無刷輸出功率 / Power of DC brushless	Max. 300 watts
尺寸 / Dimensions	170 x 260 x 140mm
重量 / Weight	2.72kg
手機會 / Handpiece	
超音波手機會 / Ultrasonic handpiece	* GS-H26
尺寸 / Dimensions	Ø27 x 125mm
重量 / Weight	150g
旋轉手機會 / Rotary Handpiece	
有刷手機會 Brush handpiece	◎
無刷手機會 Brushless handpiece	U-Lap 60
AR-800 整組實際內容物 (標準組) / Set Include (Standard)	
超音波手機會 Ultrasonic handpiece	(GS-H26) Ø27 x 125mm
無刷手機會 Brushless handpiece	(U-Lap60) Ø29 x 161mm
電源線 Power cord	18AWG x 3C x 180cm
手機會線 Handpiece cord	3C x 150cm
六角板手 Wrench (HEX)	HEX (62mm)
手機會座 Handpiece rest	110 x 50 x 35mm
夾頭拆卸架 Tool Changing rack	For 10mm holder
板手 Wrench	140mm (10/12)
轉接頭 (M6) Adapter (M6)	For M6 shank tool
夾頭 (Ø3.0mm) Holder (Ø3.0mm)	For Ø3mm shank tool
夾頭 (3.0mm) Holder (3.0mm)	For oil stone (3mm)
夾頭 (1.0mm) Holder (1.0mm)	For ceramic fiber stone (1.0mm)
腳踏開關 Foot switch	Cord length 150cm

● 註 / Note : * 亦可選用 GS-H04 手機會。/ GS-H04 could be selected instead of the model.

◎ 選購配備。/ Optional accessory.

Ultrasonic Lapping Machine

超音波振動研磨機

AR-108 單功能型 / Single Function Practical Type

熱銷商品 / Top Sale

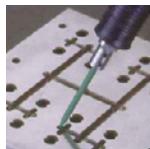


- 超音波研磨單功能輸出。
- 具有可信賴的品質及良好的操作性能。
- 最大 40 瓦輸出，滿足各種加工需求。
- 除了模具拋光外，亦可用於電路板 (PCB) 之電子迴路修改。
- 平易近人的價格，打破超音波研磨機都很昂貴的迷思。
- Ultrasonic lapping function only.
- The machine provides reliable quality and good performance.
- Max.40 watts output that satisfy various of polishing works.
- It is not only effective for lapping task, but also good for correction of PCB patterns.
- Attractive price would absolutely change your image of an expensive ultrasonic unit.

基礎應用實例 / Applications



模具精修
Mold & Die
Polish



細縫 & 溝槽
微加工
Correction of
Intricate area



PCB
板迴路修改
Correction of
PCB patterns

標準規格 / Specifications

電源控制器 / Power Controller		
電源 / Main supply	AC-90V ~ 250V, 50/60Hz	
超音波輸出 / Ultrasonic output	40 watts	
振頻 / Vibration frequency	18 ~ 25 kHz	
振幅 / Stroke amplitude	10 ~ 35 μm	
振頻調整 / Frequency adjustment	自動追尋 / auto-tracing	
消耗功率 / Power consumption	46 watts	
保險絲 / Fuse	2A time-lag type	
直流馬達輸出 / Output of DC motor	無 / None	
有刷輸出功率 / Power of DC brush	無 / None	
無刷輸出功率 / Power of DC brushless	無 / None	
尺寸 / Dimensions	192 x 156 x 96mm	
重量 / Weight	0.7kg	
手機 / Handpiece		
超音波手機 / Ultrasonic handpiece	GS-H06	
尺寸 / Dimensions	Ø30x130mm	
重量 / Weight	175g	
AR-108 整組實際內容物 (標準組) / Set Include (Standard)		
超音波手機 Ultrasonic handpiece		(GS-H06) Ø30 x 130mm
電源線 Power cord		18AWG x 3C x 180cm
手機線 Handpiece cord		3C x 150cm
六角板手 Wrench (HEX)		HEX (62mm)
手機座 Handpiece rest		110 x 50 x 35mm
夾頭拆卸架 Tool changing rack		For 11mm holder
板手 Wrench		140mm (10/11)
夾頭 (Ø3.0mm) Holder (Ø3.0mm)		For Ø3mm shank tool
夾頭 (1.0mm) Holder (1.0mm)		For ceramic fiber stone (1.0mm)
腳踏開關 Foot switch		Cord length 150cm

Ultrasonic Lapping Machine

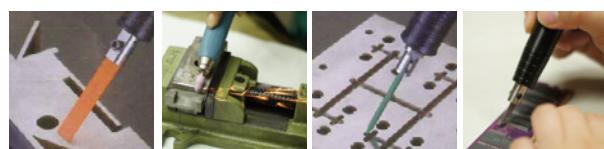
超音波振動研磨機

AR-600(E) 雙功能強力型 / Dual-function Powerful Type



- AR-600(E) 為 AR-208 , AR-303 之升級版。全新的設計，採用高效率微處理器使操作性能更穩定且提升拋光效率。
- 超音波及 DC 馬達雙輸出，提供您雙重功能之各種研磨及拋光作業。
- 最大 45 瓦之超音波輸出，使拋光效率更加提升。
- 有刷 DC 馬達輸出電壓為 5~30 伏特，輸出功率為 60 瓦。
- AR-600(E) is the upgrade model of AR-208 and AR-303. All new design with high-efficiency microprocessor that gives the machine with more steady and effective performance.
- This dual-function machine provides you the versatility of both Ultrasonic and mechanical polishing.
- Max.40 watts output that satisfy various of polishing works.
- Max. 45 watts Ultrasonic output makes polishing job more effective.
- Brush DC motor output is 5~30 volt and output power is 60 watts.

基礎應用實例 / Applications



模具精修
Mold & Die
Polish

研磨加工
Grinding

細縫 & 溝槽
微加工
Correction of
Intricate area

PCB
板迴路修改
Correction of
PCB patterns

標準規格 / Specifications

電源控制器 / Power Controller		
電源 / Main supply	AC-90V ~ 250V, 50/60Hz	
超音波輸出 / Ultrasonic output	45 watts	
振頻 / Vibration frequency	18 ~ 26 kHz	
振幅 / Stroke amplitude	3 ~ 40 μm	
振頻調整 / Frequency adjustment	自動追尋 / auto-tracing	
消耗功率 / Power consumption	80 watts	
保險絲 / Fuse	2A time-lag type	
直流馬達輸出 / Output of DC motor	5 ~ 30V	
有刷輸出功率 / Power of DC brush	Max. 60 watts	
無刷輸出功率 / Power of DC brushless	無 / None	
尺寸 / Dimensions	170 x 260 x 140mm	
重量 / Weight	2.0kg	
手機 / Handpiece		
超音波手機 / Ultrasonic handpiece	GS-H04	
尺寸 / Dimensions	Ø33x146mm	
重量 / Weight	254g	
旋轉手機 / Rotary Handpiece		
有刷手機 Brush handpiece	◎	
AR-600E 整組實際內容物 (標準組) / Set Include (Standard)		
超音波手機 Ultrasonic handpiece		(GS-H04) Ø33 x 146mm
電源線 Power cord		18AWG x 3C x 180cm
手機線 Handpiece cord		3C x 150cm
六角板手 Wrench (HEX)		HEX (62mm)
手機座 Handpiece rest		110 x 50 x 35mm
夾頭拆卸架 Tool changing rack		For 12mm holder
板手 Wrench		140mm (10/12)
夾頭 (Ø3.0mm) Holder (Ø3.0mm)		For Ø3mm shank tool (2pcs)
夾頭 (3.0mm) Holder (3.0mm)		For oil stone (3mm)
夾頭 (1.0mm) Holder (1.0mm)		For ceramic fiber stone (1.0mm)
腳踏開關 Foot switch		Cord length 150cm

● 註 : ◎ 選購配備。/ Note : Optional accessory.

Ultrasonic Lapping Machine

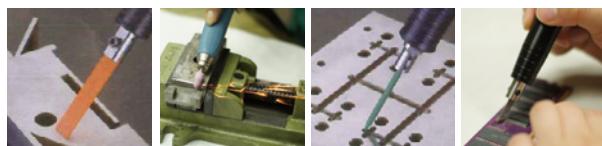
超音波振動研磨機

AR-600 三功能實用型 / Triple Function Practical Type



- AR-600 採用高效率微處理器設計，使操作性能更穩定且提升拋光效率。
- 結合超音波，有刷直流及無刷直流三種輸出，滿足更多功能手機使用。
- 無刷直流輸出功率最大 100 瓦，有刷輸出為 60 瓦。
- 無刷手機的優點為：高轉速、高扭力、壽命長、低噪音，不必更換碳刷且無碳刷產生的粉塵。
- AR-600 with high-efficiency microprocessor design that gives the machine with more steady and effective performance.
- Combine the Ultrasonic, brush DC and brushless DC output in one package, you can adapt most of the handpiece for your polishing work.
- Brushless DC output power is 100 watts and brush DC output power is 60 watts.
- The advantage of Brushless handpiece are : high speed, high torque, longer tool life, and low noise, no need to change carbon brush and no dust cause by carbon brush worn out.

基礎應用實例 / Applications



模具精修
Mold & Die
Polish

研磨加工
Grinding

細縫 & 溝槽
微加工
Correction of
Intricate area

PCB
板迴路修改
Correction of
PCB patterns

標準規格 / Specifications

電源控制器 / Power Controller	
電源 / Main supply	AC-90V ~ 250V, 50/60Hz
超音波輸出 / Ultrasonic output	45 watts
振頻 / Vibration frequency	18 ~ 26 kHz
振幅 / Stroke amplitude	3 ~ 40 μm
振頻調整 / Frequency adjustment	自動追尋 / auto-tracing
消耗功率 / Power consumption	100 watts
保險絲 / Fuse	2A time-lag type
直流馬達輸出 / Output of DC motor	5 ~ 30V
有刷輸出功率 / Power of DC brush	Max. 60 watts
無刷輸出功率 / Power of DC brushless	Max. 100 watts
尺寸 / Dimensions	170 x 260 x 140mm
重量 / Weight	2.0kg
手機 / Handpiece	
超音波手機 / Ultrasonic handpiece	GS-H04
尺寸 / Dimensions	Ø33 x 146mm
重量 / Weight	254g
旋轉手機 / Rotary Handpiece	
有刷手機 Brush handpiece	U-Lap 35
無刷手機 Brushless handpiece	◎
AR-600 整組實際內容物 (標準組) / Set Include (Standard)	
超音波手機 Ultrasonic handpiece	
有刷手機 Brush handpiece	
電源線 Power cord	
手機線 Handpiece cord	
六角板手 Wrench (HEX)	
手機座 Handpiece rest	
夾頭拆卸架 Tool changing rack	
板手 Wrench	
夾頭 (Ø3.0mm) Holder (Ø3.0mm)	
夾頭 (3.0mm) Holder (3.0mm)	
夾頭 (1.0mm) Holder (1.0mm)	
腳踏開關 Foot switch	
(GS-H04) Ø33 x 146mm	
(U-Lap 35) Ø29 x 152mm	
18AWG x 3C x 180cm	
3C x 150cm	
HEX (62mm)	
110 x 50 x 35mm	
For 12mm holder	
140mm (10/12)	
For Ø3mm shank tool	
For oil stone (3mm)	
For ceramic fiber stone (1.0mm)	
Cord length 150cm	

● 註 : ◎ 選購配備。/ Note : Optional accessory.

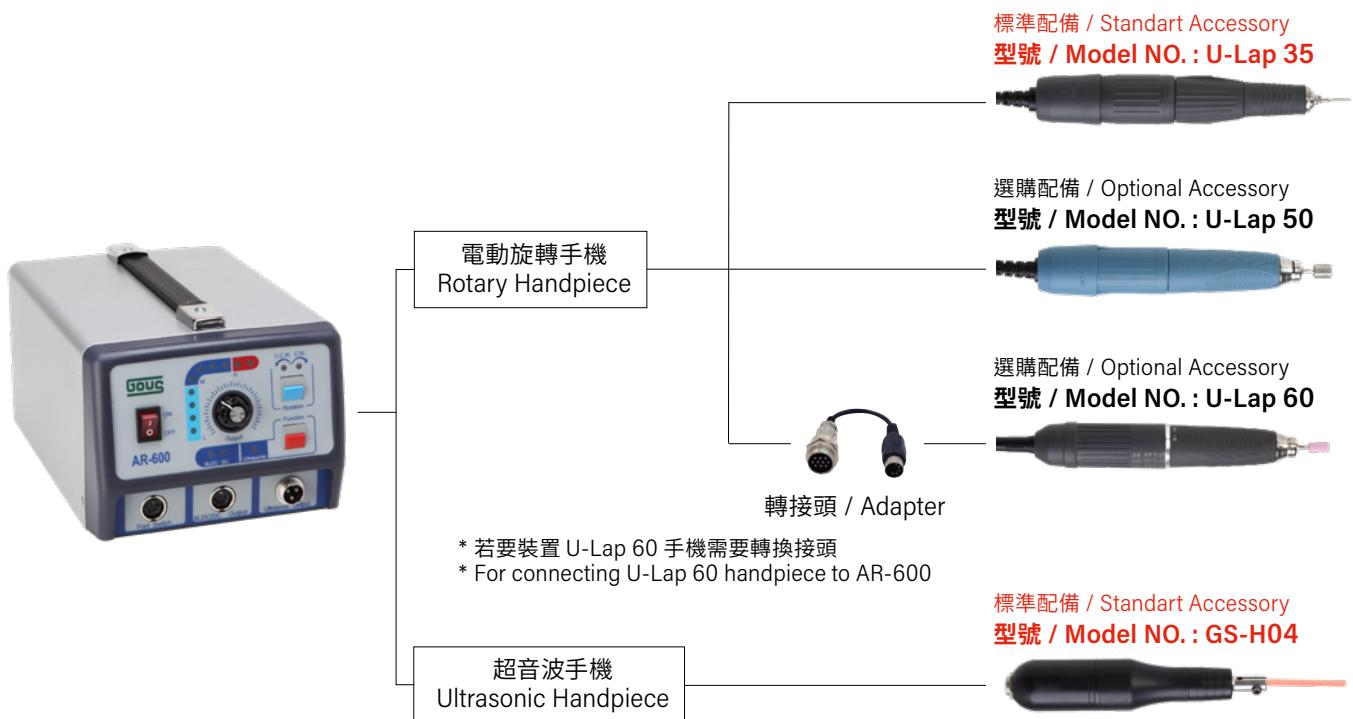
Ultrasonic Lapping Machine

超音波振動研磨機

AR-800 可搭配手機一覽表 / Attachment Handpiece for AR-800



AR-600 可搭配手機一覽表 / Attachment Handpiece for AR-600



●標準配備用**紅色顯示**，其餘皆為選購商品。/ Standard Accessory that **marking in RED**, other Handpiece are Optional Accessory.

Ultrasonic Lapping Machine

超音波振動研磨機

AR-600 (E) 可搭配手機一覽表 / Attachment Handpiece for AR-600 (E)



電動旋轉手機
Rotary Handpiece

選購配備 / Optional Accessory
型號 / Model NO. : U-Lap 35



超音波手機
Ultrasonic Handpiece

標準配備 / Standart Accessory
型號 / Model NO. : GS-H04



AR-108 可搭配手機一覽表 / Attachment Handpiece for AR-108



超音波手機
Ultrasonic Handpiece

標準配備 / Standart Accessory
型號 / Model NO. : GS-H06



● 標準配備用紅色顯示，其餘皆為選購商品。/ Standard Accessory that marking in RED, other Handpiece are Optional Accessory.

超音波手機 / Ultrasonic Handpiece

型號 / Model No. : GS-H04

最大輸出 / Max. output : 45Watts

尺寸 / Size : Ø33 x 146mm

重量 / Weight : 254g



型號 / Model No. : GS-H06

最大輸出 / Max. output : 40Watts

尺寸 / Size : Ø30 x 130mm

重量 / Weight : 175g



型號 / Model No. : GS-H26

最大輸出 / Max. output : 40Watts

尺寸 / Size : Ø27 x 125mm

重量 / Weight : 150g



Rotary Micromotor Controller

旋轉式電動工具 - 電源控制器

全新的設計，具有強力的輸出以及精確的控制，擁有多樣化的機種適合每種不同的研磨需求。各種的安全設計避免人員及設備損傷的風險。

貼心的功能設計，搭配上精準的轉速控制，讓工作更輕鬆。主機設計以及產地都是台灣製造，兼顧了品質與價格優勢。拋光、研磨、雕刻都能輕鬆應付，初學者也能輕鬆上手。

Brand-new design, with its powerful output & precise controlling function, we provide various models for different grinding needs. Our (brand-new) design mainly focus on all kinds of safety function and avoid any risk of injury while operating the products.

With its friendly design and accurate rotational speed control, our products will make your job much easier and efficient. All of our models are made in TAIWAN so the quality and price advantage are both included. It would be much easier to handle polishing, grinding and engraving task, even the beginner can operate it without any difficulties. While using our products.



應用 / Application

1. 各種模具之研磨及拋光。
2. 需要精準控制轉速的加工。
3. 雕刻硬脆材料，或其他需要高轉速的加工。
4. 石頭、玻璃、寶石等之精細研磨或拋光。
5. 只需要接上電源就可使用，方便簡單！
6. 工作環境需安靜的場合最為適合。

1. For polishing & Grinding of the mold & die.
2. Require precise speed control while processing (the work-piece).
3. For carving hard & brittle materials or work-piece requiring high-speed procession.
4. For fine engraving or polishing of stone, glass and jewelry.
5. You can immediately operate the machine by plugging in the power supply. It is highly recommended if the working environment requires serenity.

特長 / Features

1. 強勁的輸出功率：

無刷機型最大 250 瓦的輸出功率，有刷機型最大 150 瓦的輸出功率，提供有效且快速之加工作業。

2. 可接受廣域的輸入電壓：

所有機型可接受的電源皆為 AC90 ~ 250V, 50/60HZ, 不用再為了電源不符合而煩惱，且安全有保障。

3. 過載保護裝置：

當手機處於過載時系統會自動斷電，以保護機器以及手機不至於受損。

4. 系統自動偵測：

先進的高效率微處理器可以隨時偵測手機狀況，精確地控制各種手機之輸出，保護迴路及扭力補償及穩定轉速，以發揮手機之最佳操作性能。

1. Powerful output :

Max.250 watts of output power for our brushless models, Max.150 watts of output power for brush models enables you to achieve any polishing task at the best performance.

2. Wide ranges of input voltage are acceptable :

Power AC60~250V, 50/60Hz are all acceptable for our models. No need to worry about the inconsistent power supply.

3. Overload protection prevents :

Build in overload protection prevents the hand piece from damage during an overloading.

4. High-Efficiency microprocessor :

Advanced High-Efficiency microprocessor will automatically detects the operation of hand-piece anytime, precisely controlling the output power, circuit protection, torque compensation and maintain the machine in good performance.

Rotary Micromotor Controller

旋轉式電動工具 - 電源控制器

AR-800 (P) 雙功能輸出電源供應器 / Dual-Function Micromotor Controller



- 全新設計旗艦型機種，採用先進的高效率微處理器設計，結合有刷及無刷馬達雙輸出。
- 有刷馬達輸出最大 150 瓦，無刷馬達輸出最大 250 瓦，使各種手機有更高的扭力，發揮其最佳的研磨效率。
- LED 轉速顯示，使用無刷手機時，讓您可依據各種不同的工具及外徑，調整最合適的轉速，以達到最有效率且安全的研磨效果。
- 使用有刷手機時，LED 數字顯示輸出電壓，一樣可以換算手機轉速，做最有效率且安全的研磨作業。
- 先進的高效率微處理器可以隨時偵測手機操作狀況，精準地控制各種手機之輸出，保護迴路及扭力補償及穩定轉速，以發揮手機之最佳操作性能。
- High Performance micro processor design. Compatible for both brushand brushless motor hand Handpiece.
- Maximum power for hand piece with brush is 150watt and 250watt for brushless motor hand piece, providing high torque and optimal polishing performance.
- LED RPM display. The display can be adjusted to suit different tools and sizes to reflect the appropriate RPM information. A safe and efficient polishing is guaranteed.
- During the use of hand piece with brush, the LED will display voltage, but it can also be converted to display RPM to promote safe and optimal performance operation.
- Advanced high performance micro processor can passively detect the working condition of the hand piece during usage, precisely adjusting various hand piece output, RPM and torque compensation accordingly and monitor to maintain the performance at maximum. The protection circuit is also monitored to provide best protection.

基礎應用實例 / Applications



修整毛邊
Deburring



雕刻
Carving



拋光
Polishing

標準規格 / Specifications

電源控制器 / Power Controller	
電源 / Main supply	AC-90V~250V, 50/60Hz
無刷輸出功率 / Power of DC brushless	250 watt
無刷轉速 / Speed of DC brushless	1,000 ~ 50,000 rpm
有刷輸出功率 / Power of DC brush	150 watt (VA)
有刷輸出電壓 / Voltage output of DC brush	5~32V
保險絲 / Fuse	3.15A
尺寸 / Dimension	170 x 260 x 140mm (2.56kg)

內含配件 / Include (Standard)

	腳踏開關 Foot switch
	電源線 Power cord

專業工具 - 選購 / Professional Tools ※Optional

	鑽石磨棒 Diamond mounted points
	帶柄砂輪 Mounted points

AR-800 (P) 可選配手機 / Handpiece ※Optional

型號 Model No.	規格 Specifications
 U-Lap60 旋轉手機 / 無刷型	Rotary handpiece (DC brushless type) 轉速 / Speed : 50,000 rpm 扭力 / Torque : 7.8 Ncm 尺寸 / Dimension : Ø29 x 161mm 重量 / Weight : 250g
 U-Lap50 旋轉手機 / 有刷型	Rotary handpiece (DC brush type) 轉速 / Speed : 40,000 rpm 扭力 / Torque : 4.5 Ncm 尺寸 / Dimension : Ø29 x 153mm 重量 / Weight : 260g
 U-Lap35 旋轉手機 / 有刷型	Rotary handpiece (DC brush type) 轉速 / Speed : 35,000 rpm 扭力 / Torque : 2.9 Ncm 尺寸 / Dimension : Ø29 x 152mm 重量 / Weight : 230g

- 全部手機皆為選配商品，AR-800 (P) 內未包含，下單時請注意！
All handpiece are Optional accessory, did not include in AR-800(P).

Rotary Micromotor Controller

旋轉式電動工具 - 電源控制器

AP-300 無刷型電源控制器 / Brushless Rotary Micromotor Controller



- 可使用於 AC-90~240V, 50/60Hz 的電源，不必切換任何開關，也沒有插錯電源而毀損機器的風險。
- LED 數字轉速顯示，讓您可依據各種不同的工具及外徑，調整最合適轉速，以達到最有效率且安全的研磨效果。
- 內建過負載保護程式，確保手機不致因過載使用而損壞。
- 系統會自動偵測手機之使用狀況，隨時對各種操作條件給予不同的扭力補償以穩定操作轉速，充分發揮手機之操作性能。
- 建議搭配 U-Lap 60 無刷手機使用。
- 可選購一般開關型或可調速型腳踏開關。
- Can be plugged into AC 90 ~240V, 50/60Hz power outlet. No need to switch between different power outlets and eliminates the risk of plugging into wrong power rating outlet.
- LED RPM display. The display can be adjusted to suit different tools and sizes to reflect the appropriate RPM information. A safe and efficient polishing is guaranteed.
- Build in overload protection prevents the hand piece from damage during an overloading instance.
- The system will detect the current usage status of the hand piece and adjust the torque accordingly to stabilize the RPM. This feature ensures that the hand piece will always be at the optimal performance.
- U-Lap 60 Brushless hand piece is recommended to be paired with AP-300.
- U-Lap 60 Brushless hand piece is recommended to be paired with Conventional On-Off pedal switch and Adjustable pedal switch are optional.

標準規格 / Specifications

電源控制器 / Power Controller	
電源 / Main supply	AC-90~250V, 50/60Hz
無刷輸出功率 / Power of DC brushless	100 watt
無刷轉速 / Speed of DC brushless	1,000 ~ 50,000 rpm
保險絲 / Fuse	2A
尺寸 / Dimension	192 x 146 x 98mm (800g)
內含配件 / Include (Standard)	
	保險絲 Fuse
	電源線 Power cord
專業工具 - 選購 / Professional Tools ※Optional	
	鑽石磨棒 Diamond mounted points
	羊毛輪 Felt bobs
AP-300 (P) 可選配手機 / Handpiece ※Optional	
型號 Model No.	規格 Specifications
	Rotary handpiece (DC Brushless Type) 轉速 / Speed : 50,000 rpm 扭力 / Torque : 7.8 Ncm 尺寸 / Dimension : Ø29x161mm 重量 / Weight : 250g

- U-Lap 60 手機為選配商品，AP-300 內未包含，下單時請注意！
U-Lap handpiece are Optional accessory, did not include in AR-300.

基礎應用實例 / Applications



修整毛邊
Deburring



雕刻
Carving



拋光
Polishing

Rotary Micromotor Controller

旋轉式電動工具 - 電源控制器

AP-200 有刷型多功能電源控制器 / Multiple Functional Brush Rotary Power Controller



- AP-200 為先進設計的電源控制器，此電源供應器提供了三功能輸出選擇：正常功能、緩啟動功能及扭力自動補償功能。
- 過負載保護裝置：當電動手機處於過載時系統會自動斷電，以保護機器及手機不至於受損。
- 可以選購一般開關型或可調速型腳踏開關。
- AP-200 is a more advanced Power Controller for hand piece with brush. That provide there different output functions : Normal, slow-start, and self torque compensation.
- Overload Protection : The system will be shut down when an overload occurs to protect the controller and hand piece from damage.
- Conventional On-Off pedal switch and Adjustable pedal switch are optional.

標準規格 / Specifications

電源控制器 / Power Controller	
電源 / Main supply	AC-90V~250V, 50/60Hz
有刷輸出功率 / Power of DC brush	70 watt
有刷輸出電壓 / Voltage output of DC brush	5~32V
最大過載保護 / Max overload current protection	3A
保險絲 / Fuse	2A
尺寸 / Dimension	192 x 156 x 98mm (800kg)

基礎應用實例 / Applications



修整毛邊
Deburring



雕刻
Carving



拋光
Polishing

● **正常功能輸出 (N)**：當一般操作時使用，此時系統依一般功能輸出。
Normal Output (N) : For use during typical operation.

● **緩啟動功能 (S)**：當您切換至此功能時，即使將輸出調到最高轉速，系統仍然控制手機於最低轉速，但接觸工件開始研磨時，系統會自動地將轉速提升到最高轉速。這個功能主要運用於避免高速運轉時不小心去磨到不想磨到或不能磨到的部位，您可以很精確地控制想加工的地方。此外，對於工件表面凹凸不平處這個功能也能減少研磨時之跳動。

Slow Start (S) : When switched to this mode , the system will control the RPM to the lowest speed when the hand piece is at idle and when the hand piece detect any object, the RPM will rise to the set speed. The main purpose of this function is to reduce the risk of having accident from happening during high RPM application. We can point at the work area more easily and precisely. This will reduce the chance of accidentally touching wrong spot. When working on subjects with uneven surfaces under this mode, can keep the hand piece at stable position more easily.

● **扭力自動補償功能 (IR)**：當您使用一些直徑較大（如 Ø20mm 砂布輪）或不能高速使用的工具（如鬃刷輪）時，由於研磨壓力使轉速下降或較低轉速時扭力較低，當切換至此功能時系統會自動補償扭力穩定轉速。一般研磨工具建議使用正常功能輸出。

Automatic torque Compensation (IR) : When using any large diameter tools or low RPM tools, the RPM will be slowed down due to the friction. When IR mode is turned on, The system will compensate for the loss of speed to stabilize the RPM. When using normal tools, normal function is recommended.

內含配件 / Include (Standard)	
	電源線 Power Cord
專業工具 - 選購 / Professional Tools ※Optional	
	鑽石磨棒（錐形） Diamond Taper Points
	彈性帶柄砂輪 Elastic Mounted Points
AP-200 可選配手機 / Handpiece ※Optional	
型號 Model No.	規格 Specifications
	U-Lap50 旋轉手機 / 有刷型 Rotary Handpiece (DC Brushless Type) 轉速 / Speed : 40,000 rpm 扭力 / Torque : 4.5 Ncm 尺寸 / Dimension : Ø29 x 153mm 重量 / Weight : 260g
	U-Lap35 旋轉手機 / 有刷型 Rotary Handpiece (DC Brushless Type) 轉速 / Speed : 35,000 rpm 扭力 / Torque : 2.9 Ncm 尺寸 / Dimension : Ø29 x 152mm 重量 / Weight : 230g

● 全部手機皆為選配商品，AP-200 內未包含，下單時請注意！
All handpiece are Optional accessory, did not include in AP-200.

Rotary Handpiece

電動旋轉手機

U-Lap 60 無刷旋轉手機 / 高扭力高轉速型 / Rotary Handpiece (Brushless Type) / High Torque & Speed Type



U-Lap 50 有刷旋轉手機 / 高轉速型 / Rotary Handpiece (Brush Type) / High Speed Type



U-Lap 35 有刷旋轉手機 / 經濟型 / Rotary Handpiece (Brush Type) / Economic Type



- 可更換式夾頭：標準夾頭 Ø3mm，亦可選購 Ø2.34mm 或 Ø3.175mm 夾頭。
Replaceable collet chuck : Ø3.0mm is standard, the Ø2.34mm and Ø3.175mm collet are optional.

Air Grinders

氣動旋轉刻磨機

UG-500 標準型 / Standard type

- 高扭力、低噪音、精密型刻磨機。
- 適用於精密研磨及修整作業。
- 可更換式夾頭：標準夾頭為 $\varnothing 3.0\text{mm}$ ，亦可選購 $\varnothing 2.34$ 或 $\varnothing 3.175\text{mm}$ 為夾頭。
- High-torque, quiet-running and well balance.
- Ideal for precision grinding and finishing works.
- Replaceable collet chuck : $\varnothing 3.0\text{mm}$ is standard, the $\varnothing 2.34$ and $\varnothing 3.175\text{mm}$ collet are optional.

 60,000 rpm



進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
90psi (6.2kg/cm ²)	110g	$\varnothing 20 \times 160\text{L}$ (mm)

UG-400 經濟型 / Economic type

- 經濟型，適用於精密研磨及修整作業。
- 夾頭不可更換：標準品為 $\varnothing 3.0\text{mm}$ 夾頭，若須 $\varnothing 2.34$ 或 $\varnothing 3.175\text{mm}$ 夾頭請指明選購。
- 低耗風量，高扭力，品質佳。
- Reliable quality and competitive price.
- Fixed type collet chuck : $\varnothing 3.0\text{mm}$ is standard, the tool with $\varnothing 2.34$ and $\varnothing 3.175\text{mm}$ collet are optional.

 50,000 rpm



進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
90psi (6.2kg/cm ²)	130g	$\varnothing 17 \times 159\text{L}$ (mm)

GP-260 精密型 / Precision type

- 精密型，適用於精密研磨及修整作業。
- 夾頭不可更換，標準品為 $\varnothing 3.0\text{mm}$ 夾頭。
- $\varnothing 2.34$ 或 $\varnothing 3.175\text{mm}$ 請指名選購。
- High-torque, quiet-running and well balance.
- Ideal for precision grinding and finishing works.
- Fixed type collet chuck : $\varnothing 3.0\text{mm}$ is standard, the tools with $\varnothing 2.34\text{mm}$ or $\varnothing 3.175\text{mm}$ collet are optional.

 60,000 rpm



進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
90psi (6.2kg/cm ²)	180g	$\varnothing 17.5 \times 142\text{L}$ (mm)

GP-380 高速型 / High speed type

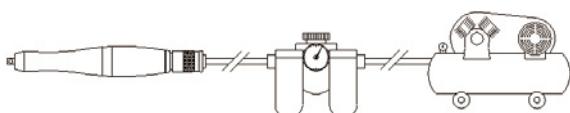
- 高轉速、精密型刻磨機。
- 適用於精密研磨及雕刻作業。
- 可更換式夾頭：標準夾頭為 $\varnothing 3.0\text{mm}$ ，亦可選購 $\varnothing 2.34$ 或 $\varnothing 3.175\text{mm}$ 為夾頭。
- High speed, quiet-running and well balance.
- Ideal for precision grinding and finishing works.
- Replaceable collet chuck : $\varnothing 3.0\text{mm}$ is standard, the $\varnothing 2.34$ and $\varnothing 3.175\text{mm}$ collet are option.

 80,000 rpm



進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
90psi (6.2kg/cm ²)	160g	$\varnothing 20.3 \times 143\text{L}$ (mm)

連接三點組合 / 3-in-1 Units



潤滑 , 濾水 , 控制壓力 / Filter , Regulator , Lubricator



使用需潤滑
(Need lubricator oil)



請配戴耳罩
(Use ear plug)



請配戴護目鏡
(Use eye protector)

Air Grinders

氣動旋轉刻磨機

UG-300 雙夾頭型 / Dual-Collet type

- 重負荷、高扭力，泛用型適用於清除毛邊倒角、鎢鋼刀銑磨及焊接面磨除等。
- 雙夾頭兩用型：標準夾頭為 ø3.0/ø6.0mm 夾頭，亦可選購 ø3.175 或 ø6.35mm 為夾頭。
- High torque, heavy-duty, general-purpose applicable on deburring, chamfering, milling and finishing the welded surfaces...etc.
- Dual collet chuck : ø3.0 / ø6.0mm is standard, the collet of ø3.175 / ø6.35mm is optional.

 35,000 rpm

CE



進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
90psi (6.2kg/cm ²)	170g	Ø22x180L (mm)

GP-522 平面研磨機 / Angle Surface grinder

- 120 度彎頭研磨機。
- 夾頭 : M7 螺桿，可鎖接碗型砂輪或砂布片。
- 適用於平面研磨，倒角及焊接面之修整。
- 120 degree angle surface grinder.
- Collet chuck : M7 screw shaft for mounting abrasive cup sheets and abrasive paper disc.
- Ideal for surface grinding, chamfering, deburring and finishing the welded surfaces...etc.

 22,000 rpm

CE



進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
90psi (6.2kg/cm ²)	200g	Ø16.5x136L (mm)

AG-45 平面研磨機 / Angle Surface grinder

- 45 度彎頭平面研磨機，適用於平面研磨，倒角及焊接面之修整。
- 夾頭 : M7 螺桿，可鎖接碗形輪或砂布片。
- 45 degree angle surface grinder.
- Collet chuck : M7 screw shaft for mounting abrasive cup wheels and abrasive paper disc.
- Ideal for surface grinding, chamfering, deburring and finishing the welded surfaces...etc.

 23,500 rpm

CE



進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
90psi (6.2kg/cm ²)	180g	Ø17x153Lx50H (mm)

AG-90 平面研磨機 / Angle Surface grinder

- 90 度彎頭平面研磨機，適用於平面研磨，倒角及焊接面之修整。
- 夾頭 : M7 螺桿，可鎖接碗形輪或砂布片。
- 90degree angle surface grinder.
- Collet chuck : M7 screw shaft for mounting abrasive cup wheels and abrasive paper disc.
- Ideal for surface grinding, chamfering, deburring and finishing the welded surfaces...etc.

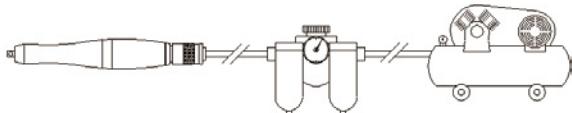
 23,500 rpm

CE



進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
90psi (6.2kg/cm ²)	170g	Ø17x140Lx39H (mm)

連接三點組合 / 3-in-1 Units



潤滑 , 濾水 , 控制壓力 / Filter , Regulator , Lubricator



使用需潤滑
(Need lubricator oil)



請配戴耳罩
(Use ear plug)



請配戴護目鏡
(Use eye protector)

Pneumatic Reciprocating Lappers

氣動銑磨機

微行程渦輪式氣動超音波 / UTR-20 Micro Stroke Turbo Air Lappers

- 超高速、微動行程 (0.15mm) 機種，最適於微細部位及邊角部位之研磨。
- 超低振動，加工角落時沒有撞擊感。
- High speed, micro stroke(0.15mm) and low vibration.
- It suits for details and corner area's lapping.

45,000 spm

CE



行程 Stock	進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
0.15mm	90psi(6.2kg/cm ²)	190g	Ø28x200L(mm)

渦輪式氣動超音波 / UTR-30 Turbo Air Lappers

- 使用氣動渦輪馬達，維修容易。
- 低噪音、低振動、壽命長。
- UTR-30 適合模具細微部分之加工。
- Driven by turbine air motor.
- Low noise, low vibration and durable tool life.
- UTR-30 suits for detail area's lapping.

40,000 spm

CE



行程 Stock	進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
0.3mm	90psi(6.2kg/cm ²)	220g	Ø28x200L(mm)

渦輪式氣動超音波 / UTR-70 Turbo Air Lappers

- 使用氣動渦輪馬達，維修容易。
- 低噪音、低振動、壽命長。
- UTR-70 適用於高效率及較大面積之研磨。
- Driven by turbine air motor.
- Low noise, low vibration and durable tool life.
- UTR-70 suits for general purpose polishing and finishing process of mold and die.

35,000 spm

CE



行程 Stock	進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
0.7mm	90psi(6.2kg/cm ²)	220g	Ø28x200L(mm)

超高速往復式氣動銑磨機 / UR-50 Ultra Air Lappers

- 超高速、高扭力機種。
- UR-50 適用於高效率之研磨及清除毛邊或倒角。
- Extra High speed, high torque.
- UR-50 features in efficiency polishing and deburring or chamfering work.

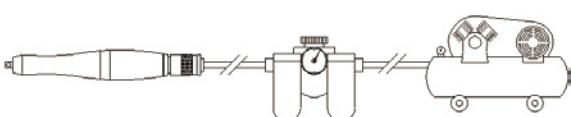
45,000 spm

CE



行程 Stock	進氣壓力 Air Pressure	重量 Weight	尺寸 Dimension
0.5mm	90psi(6.2kg/cm ²)	220g	Ø23x185L(mm)

連接三點組合 / 3-in-1 Units



潤滑 , 濾水 , 控制壓力 / Filter , Regulator , Lubricator



使用需潤滑
(Need lubricator oil)



請配戴耳罩
(Use ear plug)



請配戴護目鏡
(Use eye protector)

Pneumatic Reciprocating Lappers

氣動銼磨機

往復式氣動銼磨機 / UR-120, UR-300 Recipro Air Lappers

- 高扭力、低噪音、低振動。
- 較長行程適合大面積之研磨，並適合各種鑄件或零件之清除毛邊及倒角。
- High-torque, quiet-running and low vibration.
- Long reciprocating stroke suits for lapping big surfaces, and excellent for deburring or chamfering works of die casting parts.

UR-120
12,000 spm

UR-300
10,000 spm



UR-120 行程 / Stock	UR-300 行程 / Stock	進氣壓力 /Air Pressure	重量 / Weight	尺寸 / Dimension
1.2mm	3.0mm	90psi(6.2kg/cm ²)	370g	Ø30x208L(mm)

左右橫擺式氣動銼磨機 / US-70, US-100 Swing Air Lappers

- 特殊設計使主要磨耗零件十分容易更換。
- 氣動左右橫擺行程。
- 適合模具淺溝、深肋及公母模接合面等之研磨，防止研磨時工具滑落而傷及模具之銳角。
- Side to side stocke.
- Special design enable the easiest method of changing the consuming or worn out parts.
- Ideal for filing lapping and polishing shallow surfaces, deep ribs and parting lines.

US-70
15,000 spm

US-100
14,000 spm



US-70 行程 / Stock	US-100 行程 / Stock	進氣壓力 /Air Pressure	重量 / Weight	尺寸 / Dimension
0.7mm	1.0mm	90psi(6.2kg/cm ²)	305g	Ø28x205L(mm)

左右橫擺式氣動銼磨機 / US-200 Swing Air Lappers

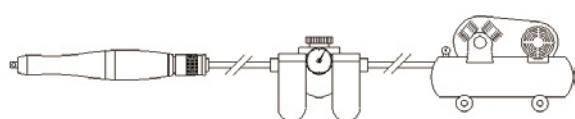
- 氣動左右橫擺行程。
- 較大行程，適於較大面積之研磨，並適合各種鑄件或零件之清除毛邊及倒角。
- Side to side stocke.
- Bigger swing stroke suit for lapping bigger surface and excellent for deburring or chamfering works for die casting parts.

US-200
10,000 spm



行程 / Stock	進氣壓力 /Air Pressure	重量 / Weight	尺寸 / Dimension
2.0mm	90psi(6.2kg/cm ²)	520g	Ø34x205L(mm)

連接三點組合 / 3-in-1 Units



潤滑 , 濾水 , 控制壓力 / Filter , Regulator , Lubricator



使用需潤滑
(Need lubricator oil)



請配戴耳罩
(Use ear plug)



請配戴護目鏡
(Use eye protector)

Other Polishing Tools

其他拋磨工具



KKDia
聯成鑽石

Wood Bobs & Brush

棕刷及木條

木條 / Lapping Wood



單位 / Unit : mm				
	編號 Order No.	AFW-05H	AFW-06H	AFW-07H
T x W		6.4 x 6.4	3.2 x 6.4	6.4 x 9.5
單位 / Unit : mm				
	編號 Order No.	AFW-01H	AFW-02H	AFW-03H
ØD		Ø3.2	Ø4.7	Ø6.4
單位 / Unit : mm				
	編號 Order No.	AFW-04H		
ØD		Ø9.5		

木棒 / Wood Bobs



	Ø4	Ø5	Ø6	Ø8	Ø10
Ø3	13	13	16	16	16
AFM-01		AFM-02	AFM-03	AFM-04	AFM-05

棕刷 / Brush

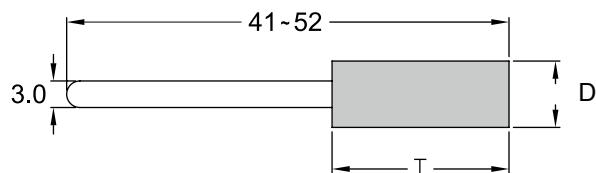


單位 / Unit : mm				
	編號 Order No.	AFB-01	AFB-02	
ØD		Ø4.8	Ø6.4	
單位 / Unit : mm				
	AFB-03	AFB-04		
Ø19		Ø25.4		
單位 / Unit : mm				
	AFB-05	AFB-06		
Ø9/16"		Ø1"		

Felt Bobs

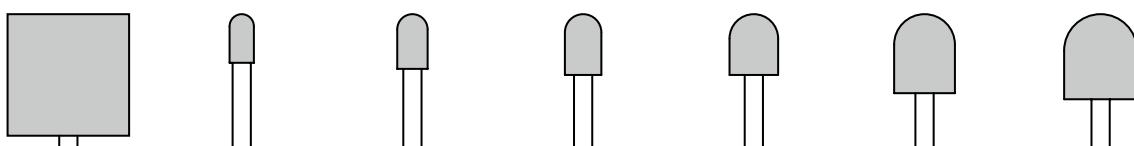
羊毛輪

羊毛輪 / Felt Bobs - ø3.0mm Shank

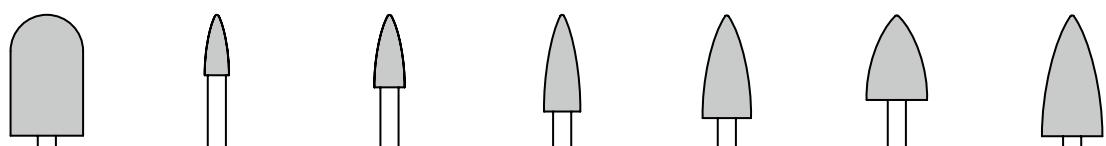


單位 / Unit : mm

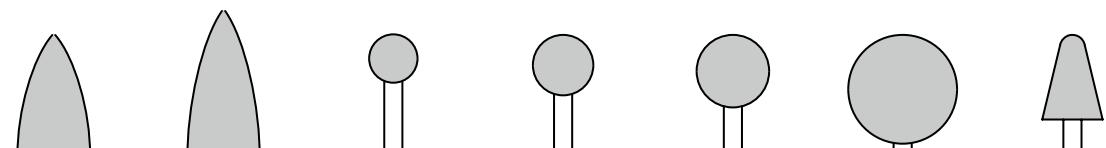
編號 Order No.	AB-0410A	AB-0509A	AB-0610A	AB-0810A	AB-1014A	AB-1220A	AB-1520A
øD	4	5	6	8	10	12	15
T	10	9	10	10	14	20	20



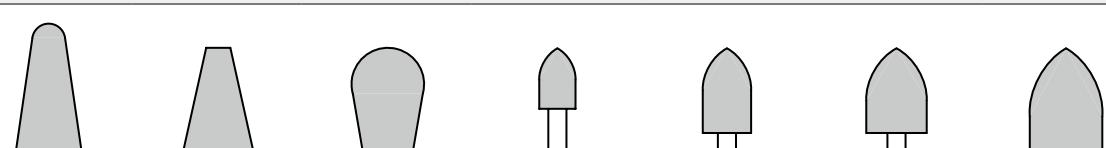
編號 Order No.	AB-2020A	AB-0408C	AB-0509C	AB-0610C	AB-0810C	AB-1013C	AB-1214C
øD	20	4	5	6	8	10	12
T	20	8	9	10	10	13	14



編號 Order No.	AB-1220C	AB-0410J	AB-0512J	AB-0616J	AB-0817J	AB-1014J	AB-1020J
øD	12	4	5	6	8	10	10
T	20	10	12	16	17	14	20



編號 Order No.	AB-1220J	AB-1225J	AB-08B	AB-10B	AB-12B	AB-18B	AB-1014R
øD	12	12	8	10	12	18	10
T	20	25	-	-	-	-	14

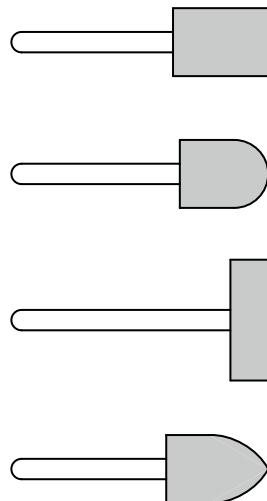
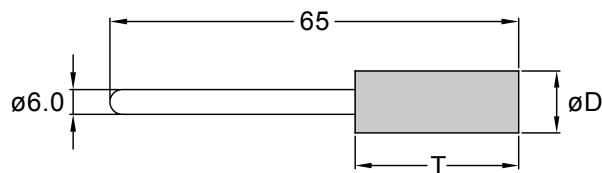


編號 Order No.	AB-1225R	AB-1218T	AB-1218H	AB-0610K	AB-0814K	AB-1014K	AB-1220K
øD	12	12	12	6	8	10	12
T	25	18	18	10	14	14	20

Felt Bobs

羊毛輪

羊毛輪 / Felt Bobs - ø6.0mm Shank



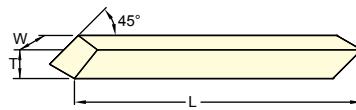
單位 / Unit : mm

編號 Order No.	øD	T
AC-1225A	12	25
AC-1525A	15	25
AC-2025A	20	25
AC-2530A	25	30
AC-1520C	15	20
AC-2025C	20	25
AC-2530C	25	30
AC-3208E	32	8
AC-4010E	40	9.6
AC-1525K	15	25
AC-2025K	20	25
AC-2530K	25	30

其他羊毛製品 / Other Felt Products



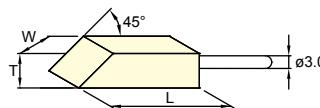
羊毛條 / Felt Stick



單位 / Unit : mm

編號 Order No.	AB-S06	AB-S10
WxTxL	6x6x100x45°	10x10x100x45°

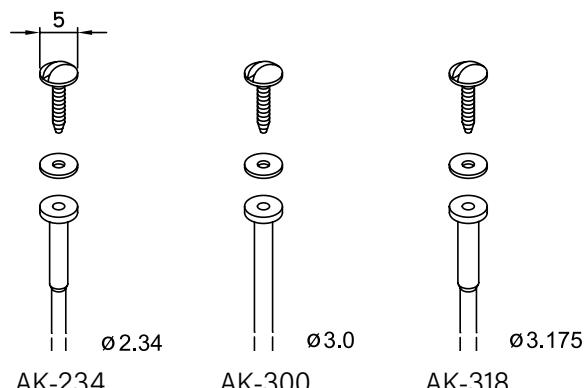
帶柄羊毛條 / Mounted Felt Stick



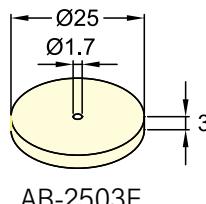
單位 / Unit : mm

編號 Order No.	AB-R06	AB-R10	AB-R12
WxTxL	6x6x25	10x10x35	12x12x45

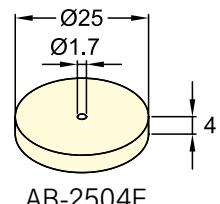
軸柄 / Mandrel For Felt Disc



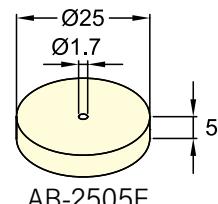
羊毛片 / Felt Disc



AB-2503E



AB-2504E



AB-2505E

BESDIA® Ceramic Fiber Stones

貝斯迪亞® 纖維油石



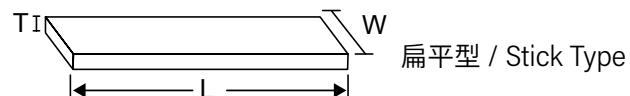
全新的**貝斯迪亞® 纖維油石**，採用精選陶瓷纖維以獨特的結合材料及製造方法，比以前我們銷售的產品，有下列優點：

1. 有更好的抗折強度，使纖維油石更不易折斷。
2. 在相同的工作條件下，增加 10~20% 以上的研磨率。
3. 在絕大多數的工作條件下，增加 10~30% 以上的研磨比 (工具壽命更長)。

All New **BESDIA® Ceramic Fiber Stone** use the special ceramic fibers combined with the unique bonding material and manufacturing process. Compare to the previous one we sold :

1. Our improvements in production processes give better tensile strength to the stones, hence fewer breakages.
2. A polishing efficiency increase of 10% to 20% has been achieved.
3. Durability under the same working conditions has been increased by 10% to 30%.

規格 / Specifications



粒度與顏色 / Grit Size & Color Code

粒度 Grit size	#180	#250	#320	#400	#700	#1000	#1200
顏色 Color code	咖啡色 Coffee	橙色 Orange	灰色 Grey	藍色 Blue	黃色 Yellow	白色 White	橘紅色 Red Orange
代號 / Code	C	O	G	B	Y	W	R

粒度與編號 / Grit Size & Order No.

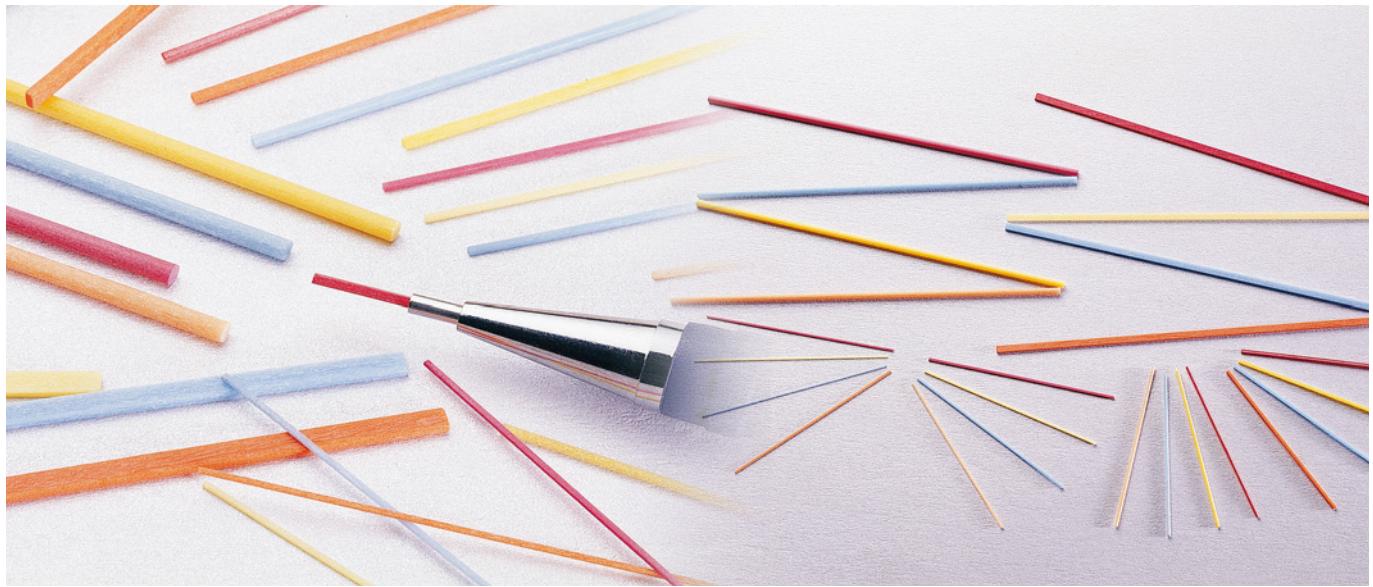
單位 / Unit : mm

TxWxL(ØDxL)		粒度與編號 / Grit Size & Order No.						
		#180	#250	#320	#400	#700	#1000	#1200
1 x 4 x 100	BSC-1004	BSO-1004	BSG-1004	BSB-1004	BSY-1004	BSW-1004	BSR-1004	
1 x 6 x 100	BSC-1006	BSO-1006	BSG-1006	BSB-1006	BSY-1006	BSW-1006	BSR-1006	
1 x 10 x 100	BSC-1010	BSO-1010	BSG-1010	BSB-1010	BSY-1010	BSW-1010	BSR-1010	
Ø3.0 x 100	BGC-30	BGO-30	BGG-30	BGB-30	BGY-30	BGW-30	BGR-30	

●說明:#320 灰色可取代舊有的 #280 黑色及 #360 海軍藍。/ Note:#320 Grey instead of #280 Black and #360 Navy Blue of old stones.

Mini Ceramic Fiber Stones

迷你纖維油石



迷你纖維油石是將纖維油石切成微細尺寸，從0.5x0.5mm到1x2mm。專門使用於各種模具之細微部位或是其他類似之加工。由於陶瓷纖維具有高抗折強度，可解決一般油石或紅寶石易斷的困擾。

Mini Ceramic Fiber Stones are cut by ceramic fiber stone, their size from 0.5x0.5mm to 1x2mm. Ideal for various mold and dies lapping.

Traditional oil stone and ruby stones in such a small sizes are very easy to break, while mini ceramic stone provide high strength and high elasticity. Due to its hard to break, they resolve the problem of using these stones.

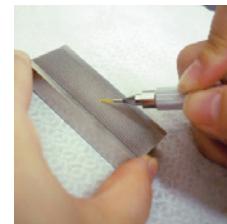
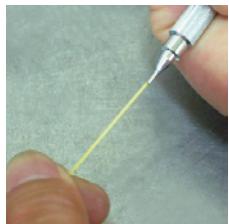
應用 / Application

迷你纖維油石可適用於各種模具之研磨及各種零件之精細拋光尤其是雕刻部位之加工，微小肋部，模具角部精細拋磨，以及各種細微或複雜部位之加工。

It is good for all type of molds and dies fine and super fine finishing. Especially for engraving parts, slight ribs, R ribs, corners, complicated area and details.

Besides, all other tool parts that needs details lapping, Our mini ceramic fiber stone will be the wonderful tools.

應用實例 / Application Example



規格 / Specifications

單位 / Unit : mm

尺寸 Dimensions	粒度與編號 Grit Size & Order No.				使用夾頭 Holder
	#250	#400	#700	#1200	
0.5 x 0.5 x 50L	MOS-055	MBS-055	MYS-055	MRS-055	XH-107
0.7 x 0.7 x 50L	MOS-075	MBS-075	MYS-075	MRS-075	XH-009
0.9 x 0.9 x 50L	MOS-095	MBS-095	MYS-095	MRS-095	XH-013
1.0 x 2.0 x 100L	MOS-121	MBS-121	MYS-121	MRS-121	XH-200
ø0.9 x 50L	MOG-105	MBG-105	MYG-105	MRG-105	XH-009
ø2.0 x 100L	MOG-201	MBG-201	MYG-201	MRG-201	XH-200

Tool Holders

油石夾柄



單位 / Unit : mm

編號 Order No.	可挾持尺寸 Holding Capacity	運用 Applications
XH-007	Square 0.5x0.5 or Round ø0.7	迷你纖維油石 For Mini Fiber Stone
XH-009	Square 0.7x0.7 or Round ø0.9	迷你纖維油石 For Mini Fiber Stone
XH-200	Flat 2x1 or Round ø2.0	迷你纖維油石 For Mini Fiber Stone
XH-013	Square 0.9x0.9 or Round ø1.3	迷你纖維油石 For Mini Fiber Stone
XH-22	Round ø3.0	纖維油石 For Fiber Stone
XH-041	平形 / Flat 4x1	纖維油石 For Fiber Stone
XH-061	平形 / Flat 6x1	纖維油石 For Fiber Stone
XH-101	平形 / Flat 10x1	纖維油石 For Fiber Stone
XH-062	平形 / Flat 6x2~6x3	一般油石 For Oil Stone
XH-133	平形 / Flat 13x3	一般油石 For Oil Stone
XH-136	平形 / Flat 13x6.3	一般油石 For Oil Stone

Ceramic Diamond Stones

鑽石纖維油石



鑽石纖維油石是將鑽石磨料與陶瓷纖維以熱固型樹脂結合而成。由於鑽石優越的切削效果加上陶瓷纖維的高抗折強度，結合成一個完美的拋磨工具。鑽石磨料均勻地分布在陶瓷纖維上，使超級鑽石油石任何面均可研削且加工面很均勻，如此可以減少後續的加工作業時間。

Ceramic diamond stones are made of diamond abrasives and ceramic fibers bonded together with thermosetting resin.

Thanks diamond for its outstanding cutting performance in combination with the superior tensile strength of ceramic fiber, generates ceramic diamond stone, a perfect lapping tool.

Diamond particles are sprayed on ceramic fibers for excellent uniform cutting action on every angle and therefore reduce after processing work.

特長 / Features

- 一般纖維油石只能用端面研削，而鑽石纖維油石任何面均有研磨效果。
- 與樹脂鑽石油石比較，鑽石纖維油石有較佳的切削能力、不易塞目及不易折斷等優點。
- 一些用一般纖維油石不易加工的材料，現在用鑽石纖維油石可以有效的切削。
- 鑽石纖維油石適合使用於加工所有熱處理後的鋼材、碳化鎢、陶瓷及玻璃等。

- The ordinary ceramic fiber stone is efficient only to lap its end side or edge, while the ceramic diamond stone works well with any sides.
- In comparison to the resinous diamond stones, ceramic diamond stone is more aggressive in cutting rate, resist loading, and hardly broken.
- Materials those are difficult to be ground by ordinary ceramic stone, now the ceramic diamond stone can provide a much better cut.
- Ceramic diamond stone is ideal for lapping all kinds of harden steels, EDM surface, tungsten carbide, ceramics and glasses efficiently.

規格 / Specifications

單位 / Unit : mm

	#200	#400	#600	#800
1 x 4 x 100	SDS-1042	SDS-1044	SDS-1046	SDS-1048
1 x 6 x 100	SDS-1062	SDS-1064	SDS-1066	SDS-1068
1 x 10 x 100	SDS-1102	SDS-1104	SDS-1106	SDS-1106
Ø 3 x 100	SDG-302	SDG-304	SDG-306	SDG-308

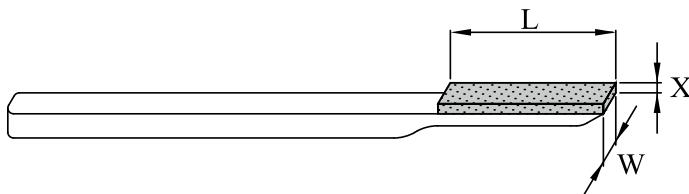
- 其他粒度及尺寸亦可訂製。在某些特殊的用途，氮化硼纖維油石亦可訂製，敬請指名訂購。/ In some special applications, ceramic CBN stones are also available, depend on your request.

Diamond Stones

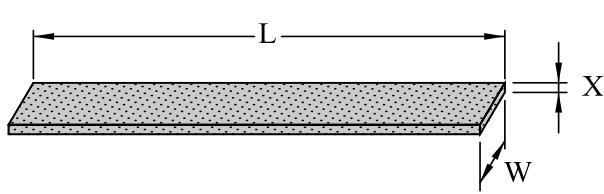
鑽石油石

鑽石油石主要使用於各種刀具研磨後之刃部修磨，以延長刀具之壽命及提高加工物之表面光製度。此外，亦適用於鎢鋼、陶瓷及硬化後鋼料之表面研磨。

Diamond Stone is considered as final finish for cutting tools. It is used to refine a surface by removing scratch lines and other surface imperfections. Therefore prolong the tool's life and smooth a surface finish. Also apply to lap the tungsten, ceramics and hardened steels.



附柄型 / With shank



實心 (無柄) 型 / Solid (without shank)

單位 / Unit : mm

規格 / Specifications



尺寸 Dimensions W-(R)-X-L	柄部材質 Shank material	編號 Order No.
10-2-40	塑膠柄 Plastic shank	RSH-01
5-2-40	鐵柄 Steel shank	RSH-02
5-2.5R-4-40	鐵柄 Steel shank	RSH-03
10-2-30	鋁柄 Aluminum shank	RSH-04
10-3-120	-	RS-04
6-3-100	-	RS-05
4-4-100	-	RS-06
6-2-100	-	RS-08

● 說明 / Remark :

- 標準粒度 : #200, #400, #600, #800, #1000, #1200, #1800, #2000, #3000, #5000。 / Grit size available : #200, #400, #600, #800, #1000, #1200, #1800, #2000, #3000, #5000.
- 訂購時，敬請指名產品編號與所需粒度。 / When ordering, please specify order no. & grit size.

Diamond Compounds

Diamond Micron Powders

KKdia
聯成鑽石

鑽石膏、鑽石微粉

鑽石膏 / Diamond Compounds



編號 Order No.	顆粒尺寸 Micron range (μm)	相等篩目 Mesh size (approx.)	標示顏色 Color code
PDR-280	0.5 (0-1)	#28,000	白 / White
PDR-140	1 (0-2)	#14,000	白 / White
PDR-080	3 (2-4)	#8,000	黃 / Yellow
PDR-050	4.5 (3-6)	#5,000	淺棕 / Light brown
PDR-030	6 (4-8)	#3,000	橙 / Orange
PDR-020	8 (6-10)	#2,000	淺紫 / Lilac
PDR-018	9 (6-12)	#1,800	綠 / Green
PDR-015	13 (10-16)	#1,500	粉紅 / Pink
PDR-012	15 (10-20)	#1,200	藍 / Blue
PDR-010	17.5 (15-20)	#1,000	深綠 / Dark green
PDR-008	25 (20-30)	#800	咖啡 / Brown
PDR-006	35 (30-40)	#600	紅 / Red
PDR-004	50 (40-60)	#400	紫 / Purple
PDR-002	90 (80-100)	#200	黑 / Black

● 說明 / Remark :

- 標準規格品為油溶性，若需水溶性鑽石膏，請指明訂購。/ Oil soluble is standard carries, other carries depend on your request.
- 標準容量為 5 公克，其他容量：10 公克或 18 公克裝，亦可指訂。/ Containers : Plastic syringes, 5 grams per syringe. Others (10 or 18 grams) depend on your request.
- 若需稀釋使用，本公司亦提供稀釋油。/ We also supply thinners for your special applications.
- 高濃度系列亦可依需求而提供。/ High concentrations diamond compounds is also available, depend on your requirement.

鑽石微粉 / Diamond Micron Powders



編號 / Order No.		顆粒尺寸 Micron range (μm)	相等篩目 Mesh size (approx.)
10 Carat	50 Carat		
DR-1280	DR-5280	0.5 (0-1)	#28,000
DR-1140	DR-5140	1 (0-2)	#14,000
DR-1080	DR-5080	3 (2-4)	#8,000
DR-1050	DR-5050	4.5 (3-6)	#5,000
DR-1030	DR-5030	6 (4-8)	#3,000
DR-1018	DR-5018	9 (6-12)	#1,800
DR-1012	DR-5012	15 (10-20)	#1,200
DR-1008	DR-5008	25 (20-30)	#800
DR-1006	DR-5006	35 (30-40)	#600
DR-1004	DR-5004	50 (40-60)	#400
DR-1002	DR-5002	90 (80-100)	#200

● 說明 / Remark :

- 一品牌鑽石微粉乃經過精密設備嚴格篩選，粒度精確顆粒結晶形狀劃一。它適用於各種鋼模、超硬合金、陶瓷、寶石、半寶石等之精密拋光或鏡面拋光。/ Our micron powders are precision graded from virgin material and especially designed for lapping and polishing operations. Particularly, those requiring the strictest dimensions accuracy and the finest surface finish.
- 對於某些需求更精密或更均勻表面拋光之要求，請購時特別指明，本公司將提供更精密顆粒尺寸之微粉供選用。/ For works that require ultra high finish, we also supply powders with closer tolerance of the micron range upon your request.

Diamond Foils

鑽石砂布

鑽石砂布是以銅箔為基材，電著上一層鑽石粉，鑽石磨料佈滿整個銅箔表面。其特色為有較長之工具壽命，可以用刀片自由裁剪成所需尺寸及形狀，然後黏貼在各種工具上，成為您所需的自製工具。其優異的切削效果及多種粒度可供選擇，適合各種模具、鎢鋼、硬陶瓷、石材、玻璃等之研磨及拋光。另一種運用為將之黏在機器零件上增加耐磨耗及防止打滑。

Diamond powders are fully sprayed on the surface of copper foil, this features in longer tool life. The diamond foils can be cut to any shape & size easily, and stick on to your own tools, thus allowing for a whole range of tailored tools.

Aggressive cutting action and wide range of grit sizes produce fast cutting or polishing on hard steels of any hardness.
tungsten carbides, stones, glass and hard ceramics...etc.
Other application of diamond foils is to stick on parts of machine to increase the wear resistant and avoid the sliding.



尺寸 Dimensions	粒度與編號 Grit size & Order No.									
	#120	#150	#200	#300	#400	#600	#800	#1200	#1800	
10 x 100mm	XF-1012	XF-1015	XF-1020	XF-1030	XF-1040	XF-1060	XF-1080	XF-1120	XF-1180	
50 x 100mm	XF-2012	XF-2015	XF-2020	XF-2030	XF-2040	XF-2060	XF-2080	XF-2120	XF-2180	
100 x 100mm	XF-3012	XF-3015	XF-3020	XF-3030	XF-3040	XF-3060	XF-3080	XF-3120	XF-3180	
200 x 200mm	XF-4012	XF-4015	XF-4020	XF-4030	XF-4040	XF-4060	XF-4080	XF-4120	XF-4180	

- 說明：標準品全部將砂布背膠，只要撕下保護層即可使用。若特殊用途可指定無背膠砂布，自行用其他方式將砂布固著於所需之工具或零件上。 / Remark : All standard foils come with PSA backing, when using, please remove the backing paper. The foils without PSA backing are also available on demand. For special applications, the users may use his own method to stick the foil on to the tools or parts.

鑽石砂布、網狀鑽石布之運用例 / Application Example of Diamond Foils & Diamond Cloth



Diamond Cloth

鑽石布



片狀 / Sheet type



片狀 / Sheet type



環狀 / Belt type



附墊型 / Pad type

鑽石布是將鑽石粉以電著法或樹脂結合法固著於帆布上，以前這種產品只有傳統砂布而已。

不同於傳統砂布的是；它有極佳的切削力，且在磨料與磨料間留有空隙作為研磨時逃屑用，因此研磨時不易塞目，且研磨後之工件表面非常均勻。

鑽石布可以用刀片或剪刀輕易地剪裁成所需要之尺寸，做成所需之工具。

鑽石布的粒度均以不同之顏色標示以資區別。它可為片狀亦可將之背膠作成環帶狀。

The application of diamond power on a flexible cloth has allowed the development of a new generation of diamond tools.

This tools perform a more aggressive cutting action than any other abrasive tool, thanks to its flexibility and to the spacing between islands, the diamond cloth can be easily cut with scissors, thus allowing for a whole range of traditional abrasives only.

All diamond cloth products are color coded for easy identification of mesh and these series products can be in sheet, discs self-adhesive or velcro backing, or in belt type.

應用 / Application

鑽石布的運用很廣泛，例如：大理石，花崗石…等石材加工。任何硬度之硬質鋼材，碳化鈷，硬陶瓷披覆鋼材，硬陶瓷…等研磨，玻璃之倒角及磨邊，各種模具之研磨及拋光。

The applications of diamond cloth are:
Wet grinding (lapping) harden steel of any hardness, tungsten carbide, hard ceramic coated steels, glass, hard ceramic, marble, granite and stone…etc, or for the lapping of mold and die.

規格 / Specifications

單位 / Unit : mm

粒度 Grit size	標示顏色 Color	結合劑 Bond Material	尺寸與編號 Dimensions & Order No.			
			50x100	100x100	1.170x295	690x295
#60	綠色 / Green	鎳 / Ni bond	XZ-1006N	XZ-2006N	XZ-5006N	-
#120	黑色 / Black	鎳 / Ni bond	XZ-1012N	XZ-2012N	XZ-5012N	-
#200	紅色 / Red	鎳 / Ni bond	XZ-1020N	XZ-2020N	XZ-5020N	-
#400	黃色 / Yellow	鎳 / Ni bond	XZ-1040N	XZ-2040N	XZ-5040N	-
#600	白色 / White	鎳 / Ni bond	XZ-1060N	XZ-2060N	XZ-5060N	-
#1000	藍色 / Blue	鎳 / Ni bond	XZ-1100N	XZ-2100N	XZ-5100N	-
#500	白色 / White	樹脂 / Resin Bond	XZ-1050R	XZ-2050R	-	XZ-6050R
#1000	藍色 / Blue	樹脂 / Resin Bond	XZ-1100R	XZ-2100R	-	XZ-6100R
#8000	橙色 / Orange	樹脂 / Resin Bond	XZ-1800R	XZ-2800R	-	XZ-6800R

● 說明 / Remark :

- 標準尺寸 50x100mm 及 100x100mm 均有背膠，若不背膠請指明。/ Standard 50x100mm and 100x100mm come with PSA backing, others come without PSA backing, please specify.
- 其他尺寸或形狀之鑽石布，請與我們業務人員聯絡。/ Other size or type (shape), depend on your request.

Mounted Points

帶柄砂輪



規格 / Specifications

單位 / Unit : mm

編號 Order No.	256A	308A	410A	510A	612A	816A	1016A*	30B	40B

編號 Order No.	50B	60B	80B	100B	120B	308T	310T	412T	710T

編號 Order No.	813R	1224R*	609S	412J	616J	816J	1016J	612P	815P

編號 Order No.	1018P*	306K	412K	515K	816K	132E	133E	162E*	163E*

● 說明 / Remark :

- 標準柄徑為 Ø3.0mm，其他柄徑為 Ø2.34mm 或 Ø3.175mm，請指明訂購。/ Ø3.0mm shank is standard, others (Ø2.34 or Ø3.175mm) depend on request.
- 有 " * " 之尺寸，無法提供 Ø2.34mm 柄。/ The tools with " * " marked, just available for Ø3.0 & Ø3.175 shank.

Oil Polishing Stones

油石

EDM 系列油石

主要用來去除各種模具 EDM 加工後之硬化表層。

DF 系列油石

主要使用於一般模具機械加工之痕跡去除及拋光作業。

EDM series stones are specially for removing the hard scale generated by the EDM process on all type of mold and die steels.

DF series stones are suitable for removing the machined surface scratch and general lapping & polishing all mold and die steels.



形狀 . 尺寸 / Shape, Dimension, Grit Size

形狀 Shape	尺寸 Dimension	粒度 Grit Size
長方形 / Rectangle	6x3x150mm(1/4" x1/8" x6")	
	6x6x150mm(1/4" x1/4" x6")	
	13x1.5x150mm(1/2" x1/16" x6")	
	13x3x150mm(1/2" x1/8" x6")	
	13x6x150mm(1/2" x1/4" x6")	#120 , #180 , #220 , #320 ,
	13x13x150mm(1/2" x1/2" x6")	#400 , #600 , #800 , #1000 ,
	25x13x150mm(1" x1/8" x6")	#1200
	25x6x150mm(1" x1/4" x6")	
	25x13x150mm(1" x1/2" x6")	
	10x10x150mm(3/8" x3/8" x6")	
圓形 / Round Type	6mm 圓 x 150mm (1/4" 圓 x6") 6mm Round x 150mm	#120 , #180 , #220 , #320 , #400 , #600 , #800 , #1000 , #1200
半圓形 / Half Round Type	6mm 半圓 x 150mm (1/4" 半圓 x6") 6mm Half Round x 150mm	#120 , #180 , #220 , #320 , #400 , #600 , #800 , #1000 , #1200
三角形 / Triangle Type	6mm 三角 x 150mm (1/4" 三角 x6") 6mm Triangle x 150mm	#120 , #180 , #220 , #320 , #400 , #600 , #800 , #1000 , #1200

●以上規格以及粒度為標準品，若您有特別需要的規格或粒度，請與我們聯絡。

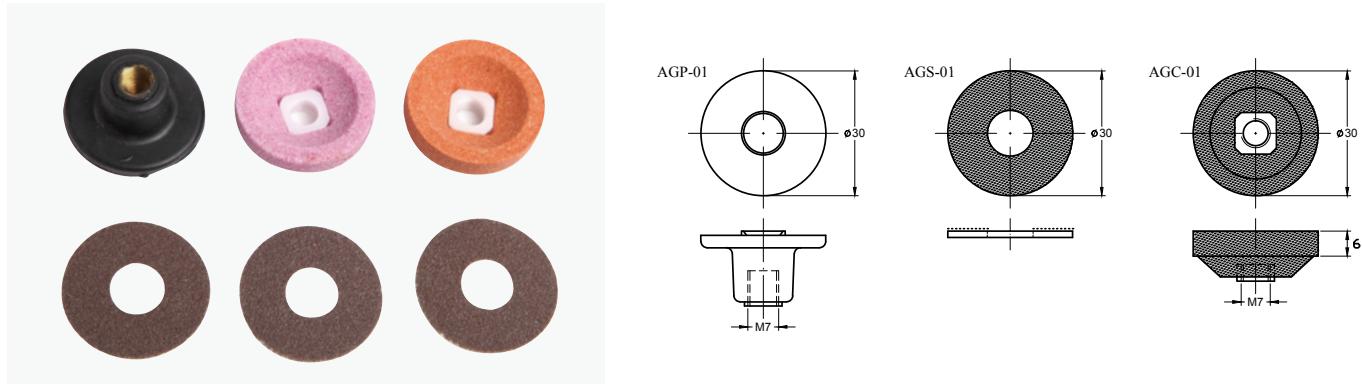
Above specifications are standards, Customization Available.

Rubber Pad, Paper Disc, Cup Wheels, Elastic Mounted Points

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橡膠皿、砂布片、碗型砂輪、彈性帶柄砂輪

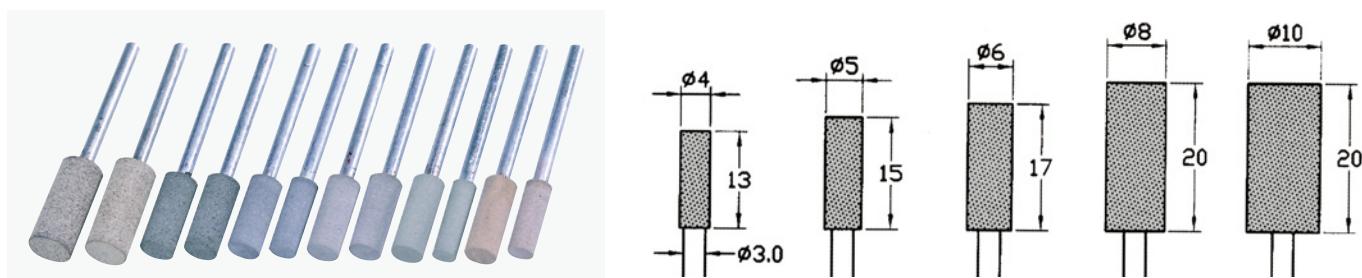
橡膠皿、砂布片、碗型砂輪 / Rubber Pad. Paper Disc. Cup Wheels



型號 Order No.	規格 Description	粒度 Grit Size	包裝單位 Unit
AGP-01	橡膠皿 / Rubber Pad	-	1 piece
AGS-01	砂布片 / Paper Disc	#60、#100、#150、#240 、#320、#400、#600	150 pcs./box (盒裝)
AGC-01	碗型砂輪 / Cup Wheels	#60、#100、#150	48 pcs./box (盒裝)

● 備註 : 適用機型 GP-522 , AG-45 , AG-90 。 / Note : Standard accessory tools of GP-522 , AG-45 , AG-90.

彈性帶柄砂輪 / Elastic Mounted Points



產品名稱 Products	粒度 Grit Size	編號 Order No.				
牛皮帶柄砂輪 Resinoid Mounted Point	#120	N413	N515	N617	N820	N1020
海綿帶柄砂輪 Rubberize Mounted Point	#120	R413	R515	R617	R820	R1020
陶瓷帶柄砂輪 Ceramic Mounted Point	#120、#220、#320	C413	C515	C617	C820	C1020

● 包裝單位 : 100 支 / 盒 。 / Unit : 100pcs/Box.



聯成鑽石工業有限公司
台中市西屯區廣福路311巷29號

K.K. Diamond Industrial Co., Ltd.

No. 29, Ln. 311, Guangfu Rd., Xitun Dist.,
Taichung City 407011, Taiwan

📞 +886-4-2706-1711

📠 +886-4-2706-1712

✉️ service@kk-dia.com

