



Diamond Micron Powder

多晶 · 單晶鑽石膏
Diamond Compound



DIAMOND MICRON POWDER DIAMOND COMPOUND (NANO) DIAMOND SLURRY DIAMOND NYLON BRUSH DIAMOND MOUNTED POINTS

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 宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Reference Table

BRIGHT-POLISHED

產品名稱 Product name		半導體材料 Semiconductor				電子材料 Electronic material			金屬材料 Metallic	
種類 Type	分類 Grade	Bare	GaAs	GaP	InP	LiNbO ₃	Sapphire	Crystal	Hard metal	Soft metal
鑽石粉	Dia-P						●		●	
碳化矽	GC,C	●					●	●	●	
氧化鋁	WA,A	●	●	●	●	●		●		●
石榴粉	GW		●	●	●					●
鑽石拋光液	DP senes						●		●	
氧化鋯粉	CP senes									
	SP senes									
	OP senes									
氧化鋁拋光液	Metal senes								●	●
	Crystal senes	●				●	●	●		
氧化鋁拋光液	Platic senes								●	●
	Metal senes		●	●	●				●	●
拋光墊	Cerium Pad								●	●
	Mout Pad									
	W series	●					●	●		●
	B series	●	●	●	●	●			●	

產品名稱 Product name		陶瓷材料 Ceramics			塑膠材料 Plastic		玻璃材料 Glass		
種類 Type	分類 Grade	Barium Titanate	Alumina ceramics	Sic ceramics	Plastic materials	Plastic lens	Optical lens	Optical glass	LCD glass
鑽石粉	Dia-P	●	●	●					
碳化矽	GC,C	●	●	●			●	●	●
氧化鋁	WA,A				●	●	●	●	●
石榴粉	GW						●	●	●
鑽石拋光液	DP senes	●	●	●					
氧化鋯粉	CP senes								●
	SP senes							●	
	OP senes						●		
氧化鋁拋光液	Metal senes								
	Crystal senes	●	●	●				●	●
氧化鋁拋光液	Platic senes								
	Metal senes								
拋光墊	Cerium Pad	●	●	●			●	●	●
	Mout Pad							●	●
	W series							●	●
	B series	●	●	●	●	●	●	●	●

聚胺酯類拋光皮

聚氨酯拋光皮，是由聚氨酯所發泡製成，其內含物能填充研磨材料，包括：氧化鈦、氧化鋯及純聚氨皮，本系列產品可搭配不同的拋光液，廣泛運用於光學晶體、光學平板玻璃、LCD基板減薄、金屬、合金、陶瓷材料，具有良好的拋光與平坦化特性。

產品型號	填充磨料	平均硬度	適用材質				
			硬質玻璃	軟質玻璃	晶體	陶瓷	合金
FC-15	氧化鈦	62~66	●	●	●		
FC-01	氧化鈦	75~80	●	●			●
FC-03	氧化鋯	70~75			●	●	
FC-05	氧化鋯	88~90			●	●	





FC-01
FC-03
FC-05

PU精密拋光皮

主要應用於精拋製程，其表面依照塗佈配方與發泡的溫度可區分為精緻型及粗糙型等種類，並依照背底基材可生產不用厚度的拋光墊，可搭配不同的拋光液使用，適合於：光電元件(GaAS, Gap, InP, Sapphire, Si wafer等)、玻璃元件精拋、金屬元件精拋等，主要在精拋光製程中增進平坦度、去除刮傷的重要製程，並可搭配不同的SBR進行曲面玻璃拋光。

編號 Item	厚度 mm	壓縮率 %	密度 g/cm ³	開孔 um	硬度 Shore A	最大尺寸 mm	應用
TP-050	0.5	7.4	0.69	50~85	80	1000	藍玻璃粗精拋，玻璃類拋光、石英、壓力板墊襯底用。
TP-080	0.8	6	0.32	50~75	86	1350	藍玻璃粗拋、藍寶石類拋光、光學元件精拋、半導體元件精拋。
FS-120	1.2	8~11	0.34	60~80	68~75	1350	陶瓷、塑膠、金屬。
TP-150	1.5	3	0.40	50~60	68~75	1350	藍寶石類拋光、光學玻璃拋光、金屬類拋光、光學元件精拋。
FS-180	1.8	15	0.45	65~68	68	1350	藍玻璃、光學玻璃拋光、金屬類拋光、光學元件精拋。



Diamond & cBN Tools

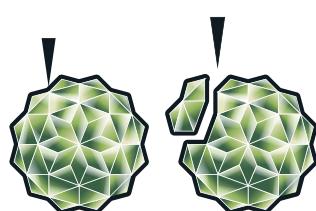
各類磨棒 / 砂輪量身訂製

鑽石粒度規格表

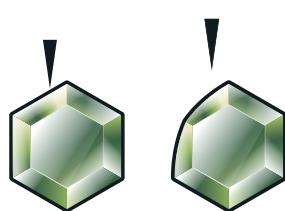
Diamond Grit Size Chart

規格	顏色	應用
番號No. 離子尺寸(μm)	Color	Applications
#300000 0.05 (0-0.1)	紅·金色 Red·Golden	超精密拋光 Ultra-precision polishing
#140000 0.1 (0-0.25)	藍·金色 Blue·Golden	
#60000 0.25 (0-0.5)	金色 Golden	詳細內容歡迎來電或洽詢現場業務人員 <small>以上為非規格品</small>
#28000 0.5 (0-1)	灰色 Grey	
#14000 1 (0-2)	白色 White	
#8000 3 (2-4)	黃色 Yellow	
#5000 4.5 (3-6)	淺棕色 Light Brown	
#3000 6 (4-8)	橙色 Orange	
#2000 8 (5-10)	淺紫色 Light Purple	
#1800 9 (6-12)	綠色 Green	
#1500 13 (10-16)	粉紅色 Pink	
#1200 15 (10-20)	藍色 Blue	
#1000 17.5 (15-20)	深綠色 Dark Green	
#800 25 (20-30)	咖啡色 Brown	
#600 35 (30-40)	紅色 Red	
#400 45 (40-50)	紫色 Purple	
#200 55 (50-60)	黑色 Black	

Diamond Grit Size Chart



多晶 Polycrystalline



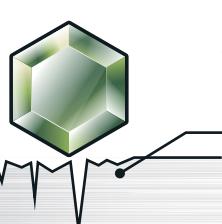
單晶 Monocrystalline

Differences

Polycrystalline diamond consists of numerous small grains in a random structure. This gives the toughness in all directions resulting in less surface damage.
 *Ultra Fast Polishing
 *Better Surface Finishes
 *Self Sharpening Particles



工件
Workpiece



- ◆ 相同粒號、工件材質、機器參數，多晶能更快實現理想拋光表面。
- ◆ 多晶鑽石微粉：球形多面體，銳口小。拋光時會逐漸崩裂成更小的晶體，產生新的銳口提供穩定的研磨力，表面細緻。
- ◆ 單晶鑽石微粉：晶體結構穩定、結晶面少、銳口深，容易造成表面產生較深的刮痕。拋光時單晶會逐漸鈍化，需要較長的研磨時間。
- ◆ 極大壓力下單晶較容易使工件內部殘存應力。

多晶/單晶鑽石粉/膏/液

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Diamond Micron Powder/Compound/Slurry



Polycrystalline / Monocrystalline Diamond Compound

圖片僅供參考，請以實物為準



鑽石膏說明

標準規格品為油溶性5公克，若需水溶性鑽石膏，請指明訂購。
Oil based, 5gram syringe is standard spec, custom package is also available upon request.
可使用在珠寶首飾及寶石，鋼鐵和硬金屬，鋁，鋅，冶金等材質上，
不建議使用在有鍍膜或有漆的表面上。
Can use on jewellery, gemstone, steel, hard metal, aluminium & zinc,
and all metallurgical purpose, not suitable for coating surface.

DIAMOND SLURRY

鑽石拋光液



Polycrystalline Diamond Micron Powder

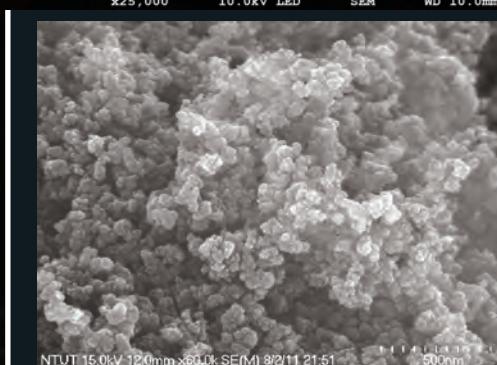
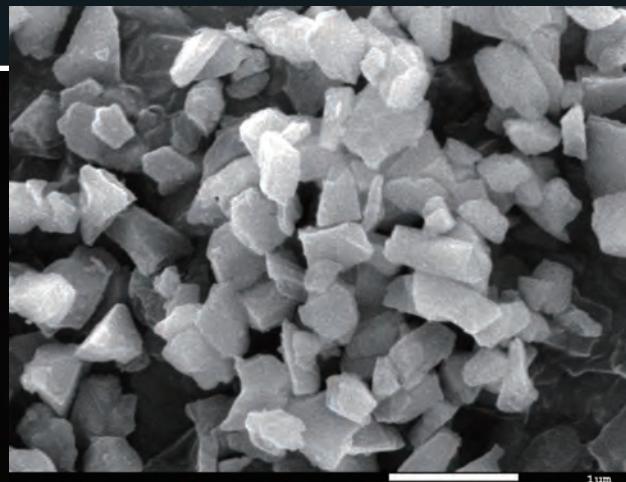


Monocrystalline Diamond Micron Powder



型號 Oder no.	材質 Abrasive	型態 Shape	背基 Backing	粒度 Grit(um)
HW-261X	氧化鋁 (AlO ₂)	圓片/片/捲 (Disc/Sheet/Roll)	平整薄膜 (Polyester Film)	0.3 / 3 / 5 / 9 / 12 / 30
HW-266X	氧化鋁 (AlO ₂)	圓片/片/捲 (Disc/Sheet/Roll)	PSA	0.3 / 3 / 9 / 12 / 30
HW-661X	鑽石 (Diamond)	圓片/片/捲 (Disc/Sheet/Roll)	平整薄膜 (Polyester Film)	0.1 / 0.5 / 1 / 3 / 6 / 9 / 15 / 30
HW-662XW	鑽石 (Diamond)	圓片/片/捲 (Disc/Sheet/Roll)	平整薄膜 (Polyester Film)	0.5 / 1 / 1.5 / 3 / 6 / 9
HW-263X	鑽石 (Diamond)	圓片/片/捲 (Disc/Sheet/Roll)	平整薄膜 (Polyester Film)	3 / 30 / 45 / 60

NANO DIAMOND SLURRY 奈米鑽石拋光液



規格	
番號No.	顆粒尺寸(nm)
#500000	30
#300000	50
#150000	100
#50000	300
#30000	500
#20000	800
#15000	1000

球狀奈米鑽石微粉

球狀奈米鑽石微粉是在超高壓、高溫、瞬態條件下合成的。其構造是通過不飽和鍵結合的多晶顆粒，微晶尺寸僅3-10奈米，具良好的韌性。球狀奈米鑽石微粉結構與天然的多經黑鑽(Carbonado)相似，相較一般靜壓單晶鑽石微粉，能提供更細緻的研磨拋光性能。

球狀奈米鑽石製造工藝簡介

- 合成：在特定條件下，使優質石墨轉化為球狀奈米鑽石。
- 處理：通過萃取等方法除去殘存的石墨等雜質。
- 分級：特殊分級技術將混合微粉分成不同粒徑的分散體。
- 後處理：通過沉降、乾燥、包裝等作業完成。

結構特點

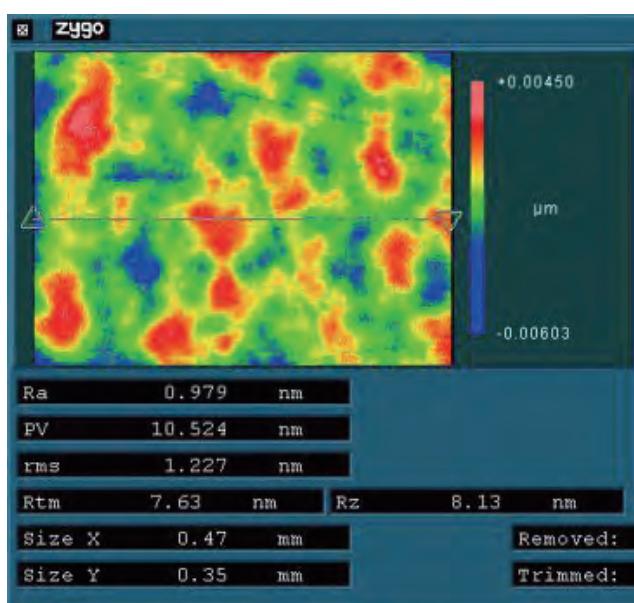
這種超細鑽石微粉呈各向同性，沒有解理面，因此不存在單晶鑽石微粉的容易沿解理面脆性斷裂的弱點。

性能特點

- 使用壽命比較長。
- 研磨過程中伴隨有奈米晶粒脫落，具有自銳性能。
- 研磨拋光過程中沒有脆性斷裂，不易劃傷工件表面。

主要用途

晶圓、超精密模具、寶石、陶瓷以及合金的奈米級以及Å埃級(奈米級以下)表面拋光。



氧化鋁(鈦)拋光粉/膏/液 二氧化矽拋光液

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Aluminum/Ce/SiO₂ Oxide Powder/Paste/Slurry

氧化鋁拋光膏/粉/液

氧化鋁拋光膏 Alumina Polishing Paste

適用範圍:

各類金屬、精密模具、藍寶石、鋁合金、陶瓷等最終道拋光，建議做為一般鑽石膏後的表面清潔使用，球狀氧化鋁在工件上會有修復拋痕的功用，並擁有低成本優勢，可使拋光後的表面拋痕更佳，降低表面粗糙度，得到更亮潔的表面，建議使用粒度為最後使用的鑽石膏同等級粒度或是使用更細一階粒度使用，如有更高等級拋光表面需求，擇建議選用奈米鑽石系列產品。

顏色 (color)	顆粒尺寸 (μm)
黃色 Yellow	0.3
蒂芬尼綠 Tiffany	0.5
紫色 Purple	1
紅色 Red	3



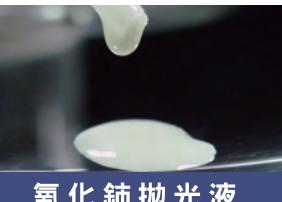
氧化鋁拋光粉/液 Alumina Powder / Alumina Polishing Slurry



氧化鋁拋光液

番號 No.	顆粒尺寸 (μm)	應用 Application	氧化鋁拋光粉 Powder	氧化鋁拋光液 Polishing Slurry
#300000	0.05	超精密拋光 Ultra-precision polishing	●	●
#60000	0.3		●	●
#28000	0.5	超鏡面拋光 Precision finishing	●	●
#14000	1		●	●
#8000	3	精密度拋光 Finishing	●	●
#3000	5		●	●

氧化鈦拋光粉/液



氧化鈦拋光液

氧化鈦拋光粉

適用範圍:

各式玻璃划傷處理及玻璃油污清潔使用，玻璃若有除痕需求，請務必搭配工具並以低速拋磨，建議可搭配羊毛輪配合電動/氣動工具進行研磨修復，大面積如汽車擋風玻璃等亦可搭配打蠟機或震動拋光機使用，如只是去除油霧達撥水及亮潔效果，可使用羊毛輪或海綿徒手施作即可。

產品型號	產品狀態	顆粒尺寸 (μm)	適用範圍與搭配拋光墊				
			一般青玻璃	白板光學玻璃	面板玻璃	光學元件	藍玻璃
RA-05	白色粉末狀/液	D50/0.5			●	●	
RA-10	白色粉末狀/液	D50/0.8			●	●	
RA-08	白色粉末狀/液	D50/1.0		●	●	●	
RA-01	白色粉末狀/液	D50/1.5	●	●	●		
RA-12	白色粉末狀/液	D50/2.0	●				
HAT-1205	紅色粉末狀/液	D50/1.2				●	●
HAT-1805	紅色粉末狀/液	D50/1.8	●	●			
RGB-1935	拋光液	D50/0.5				●	●
RGB-1938	拋光液	D50/0.8				●	●

二氧化矽拋光液

適用範圍：

SO-80 是專為 LiTaO₃、LiNbO₃、藍寶石等電子材料基底、金屬材料及陶瓷的拋光而開發的高純度膠態二氧化矽拋光液。顆粒的均勻性、分散性好，能高效的獲得無損傷的研磨拋光面。

產品型號	產品狀態	顆粒尺寸 (μm)	適用範圍
SO-80	拋光液	0.08	藍寶石 CaF ₂ BGO LiTaO ₃ LiNbO ₃

Felt Bobs

羊毛氈



彈性佳，氈合性能好，組織緊密不易鬆散，耐磨。
可使用於工件拋光、保溫、絕緣、消音/隔音墊片等。

W x L x T 300x900x3

規格 Specifications

單位 Unit:mm

羊毛輪 Felt Bobs ø6.0mm Shank

其他羊毛製品 Other Felt Products

	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



羊毛條 Felt Stick
Order no. AB-S06 AB-S10
WxTxL 6x6x100x45° 10x10x100x45°

帶柄羊毛條 Mounted Felt Stick
Order no. AB-R06 AB-R10 AB-R12
WxTxL 6x6x25 10x10x35 12x12x45

羊毛片 Felt Disc
ø25 ø1.7 3 AB-2503E
ø25 ø1.7 4 AB-2504E
ø25 ø1.7 5 AB-2505E

Felt Bobs-ø3.0mm Shank							
Order no.	AB-2020A	AB-0408C	AB-0509C	AB-0610C	AB-0810C	AB-1013C	
øD	20	4	5	6	8	10	
T	20	8	9	10	10	13	
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	8	9	10	10	14	20	20

Order no.	AB-1020J	AB-1220J	AB-1225J	AB-08B	AB-10B	AB-12B	AB-18B	AB-1014R	AB-1225R	AB-1218T	AB-1218H	AB-0610K	AB-0814K	AB-1014K	AB-1220K
øD	10	12	12	8	10	12	18	10	12	12	12	6	8	10	12
T	20	20	25	-	-	-	-	14	25	18	18	10	14	14	20

BESDIA® Ceramic Fiber Stones & Mini Ceramic Fiber Stones



粒度 Grit Size 使用建議 Applications

#180 #250	模具放電加工後支硬化表面層去除及機械切削粗糙刀痕之去除 To remove the rough machining surface or hard EDM scale of tool and die steels.
#320 #400	細微加工痕跡之去除一般拋磨 General lapping of finer surface scratch line of tool & die steels.
#700 #1000 #1200	精細研磨或鏡面處理前之拋光 Fine polishing & finishing.
ø3.0mm 圓柱 Round	可搭配刻磨機當成研磨棒使用(長度勿超過50mm長),亦或將之磨尖用於細微角落或夾縫處之研磨 It can be used like grinding point (max. length), or by sharpening it for detail lapping. 使用纖維石油時,請將工具與工件成30°~40°,端面研磨效果最佳 In order to reach the best performance, we recommend that the stone should be held up-right by making an angle of approx. 30°~45° to the work-piece.

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，

有下列優點：

- 更好的抗折強度，使用時更不易折斷。
- 相同的工作條件下，增加10~20%以上的研磨效率。
- 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:

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

粒度與顏色 Grit Size & Color Code

粒度 Grit Size	#150	#180	#250	#320	#400	#700	#1000	#1200
顏色 Color	紫 Purple	咖啡色 Coffee	橙色 Orange	灰色 Grey	藍色 Blue	黃色 Yellow	白色 White	橘紅色 RedOrange
代號 Code	P	C	O	G	B	Y	W	R

說明:#320灰色可取代舊有的#280黑色以及#360海軍藍

Note:#320 Grey instead of #280 Black and #360 Navy Blue of old stones.

T x W x L

粒度與編號 Grit Size & Order No.

(øD x L)	#150	#180	#250	#320	#400	#700	#1000	#1200
1x4x100	BSP-1004	BSC-1004	BSO-1004	BSG-1004	BSB-1004	BSY-1004	BSW-1004	BSR-1004
1x6x100	BSP-1006	BSC-1006	BSO-1006	BSG-1006	BSB-1006	BSY-1006	BSW-1006	BSR-1006
1x10x100	BSP-1010	BSC-1010	BSO-1010	BSG-1010	BSB-1010	BSY-1010	BSW-1010	BSR-1010
ø3.0x100	BGP-30	BGC-30	BGO-30	BGG-30	BGB-30	BGY-30	BGW-30	BGR-30

圓柱型 Round Type

扁平型 Stick Type

迷你纖維油石 Mini Ceramic Fiber Stones

Application Example



規格 Specifications

單位 Unit:mm

尺寸(mm) Dimensions (mm)	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-007
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

迷你纖維油石是將纖維油石切成微細尺寸，從0.5 x 0.5mm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，可解決一般石油或紅寶石易斷的困擾

Mini Ceramic Fiber Stones are cut by ceramic fiber stone, their size from 0.5 x 0.5 mm to 1 x 2mm.

Ideal for various mold and dies detail 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.

用途

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，以及各種微細或複雜部位之加工

Applications

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.

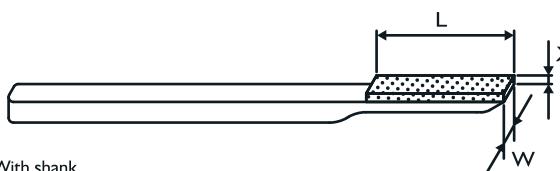
規格 Specifications	單位 Unit:mm	鑽石油石
鑽石油石主要使用於各種刀具研磨後之刃部修磨，以延長刀具之壽命及提高加工物之表面光潔度此外，亦適用於鈦鋼、陶瓷及硬化後鋼料之表面研磨。	Diamond Stone is considered as final finish for cutting tools. It is used to refine a surface by removing scratch lines and other surface imperfections. Therefore prolong the tool's life and smooth a surface finish. Also apply to lap the tungsten, ceramics and hardened steels.	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

標準粒度 Grit size available:

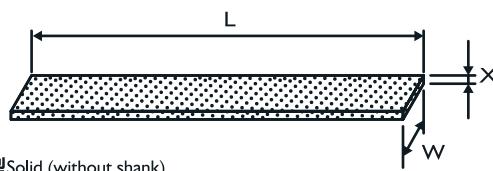
#200, #400, #600, #800, #1000,
#1200, #1800, #2000, #3000, #5000.



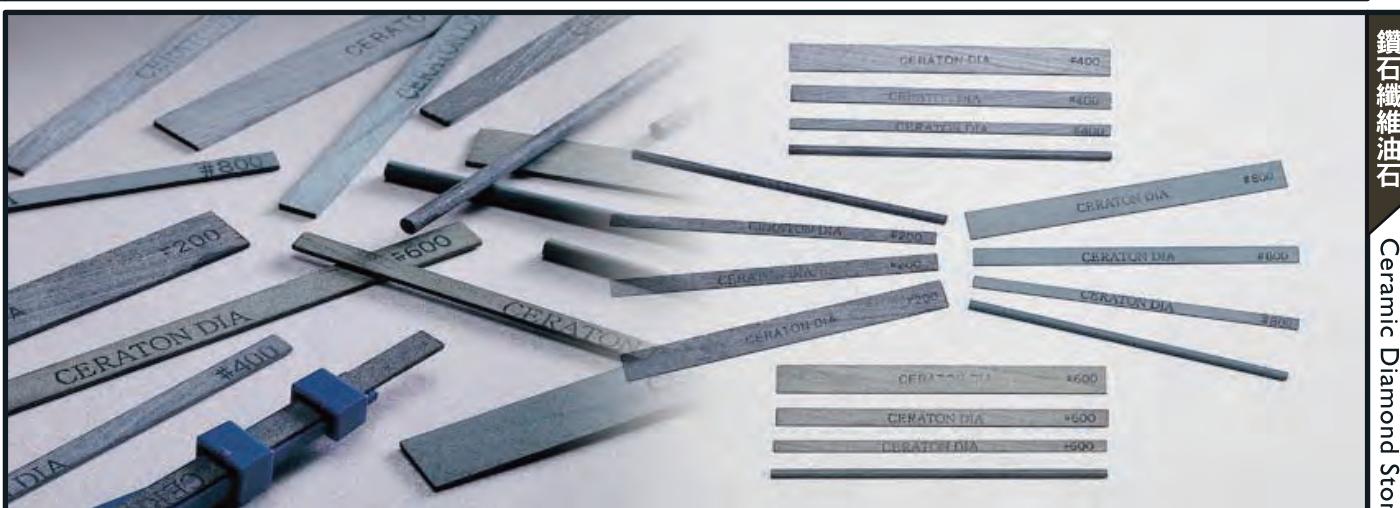
訂購時，敬請指名產品編號與所需粒度 When ordering, please specify order no. & grit size.



附柄型 With shank



實心(無柄)型 Solid (without shank)



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

In some special applications, ceramic cBN stones are also available, depend on your request.

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。

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

- 1.一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
- 2.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
- 3.一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
- 4.鑽石纖維石油適用於加工所有熱處理後的鋼材、碳化鈦、陶瓷及玻璃等

Features

- 1.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.
- 2.In comparison to the resinous diamond stones, ceramic diamond stone is more aggressive in cutting rate, resist loading, and hardly broken.
- 3.Materials those are difficult to be ground by ordinary ceramic stone, now the ceramic diamond stone can provide a much better cut.
- 4.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
Ix4x100	SDS-1042	SDS-1044	SDS-1046	SDS-1048
Ix6x100	SDS-1062	SDS-1064	SDS-1066	SDS-1068
Ix10x100	SDS-1102	SDS-1104	SDS-1106	SDS-1108
ø3x100	SDG-302	SDG-304	SDG-306	SDG-308

油石夾柄&油石&彈性帶柄砂輪

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Tool Holders & Oil Polishing Stones & Elastic Mounted Points



油石夾柄

Tool Holders

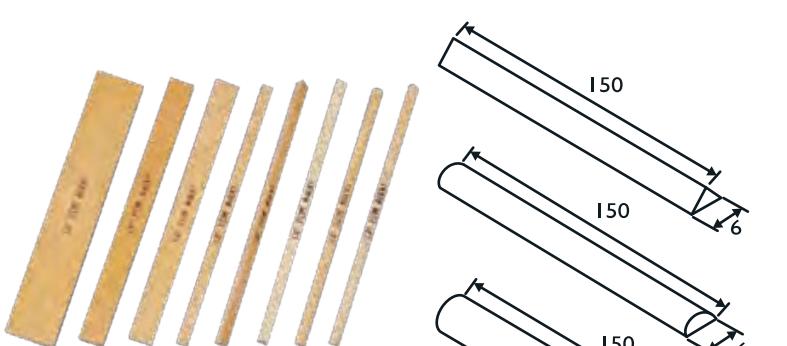
油石

Oil Polishing Stones

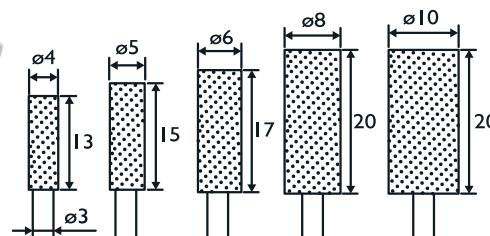
粒度Grit size:
#120, #180, #220, #320,
#400, #600, #800, #1000。



W x T x L:
25 x 6 x 150, 25 x 3 x 150, 13 x 13 x 150,
13 x 6 x 150, 13 x 3 x 150, 13 x 1.6 x 150,
6 x 6 x 150, 6 x 3 x 150, 10 x 10 x 150。



彈性帶柄砂輪



規格Specifications

粒度Grit size

單位Unit:mm

牛皮砂輪Resinoid point	#120	N413	N515	N617	N820	NI020
海綿砂輪Rubberize point	#120	R413	R515	R617	R820	RI020

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.

規格 Specifications

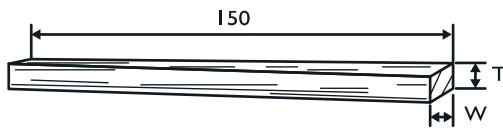
單位 Unit:mm

木條

Lapping Wood Stick



Order.no.	AFW-01H	AFW-02H	AFW-03H	AFW-04H
ØD	Ø3.2	Ø4.7	Ø6.4	Ø9.5



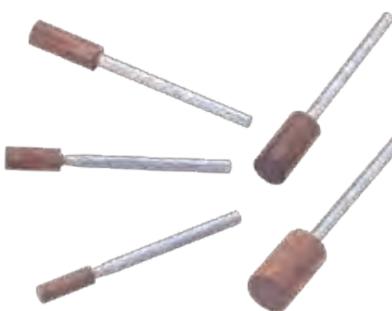
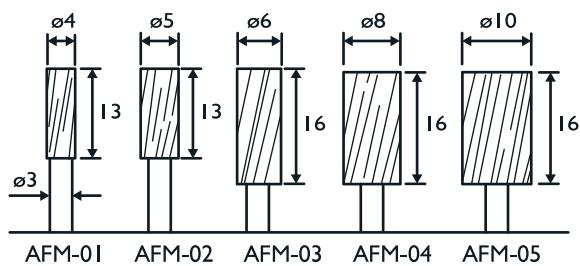
Order.no.	AFW-05H	AFW-06H	AFW-07H	AFW-08H
T x W	6.4 x 6.4	3.2 x 6.4	6.4 x 9.5	6.4 x 12.7

規格 Specifications

單位 Unit:mm

木棒

Wood Bobs

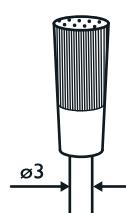


規格 Specifications

單位 Unit:mm

棕刷

Brush



Order no.	AFB-01	AFB-02
ØD	Ø4.8	Ø6.4



AFB-03	AFB-04
Ø19	Ø25.4

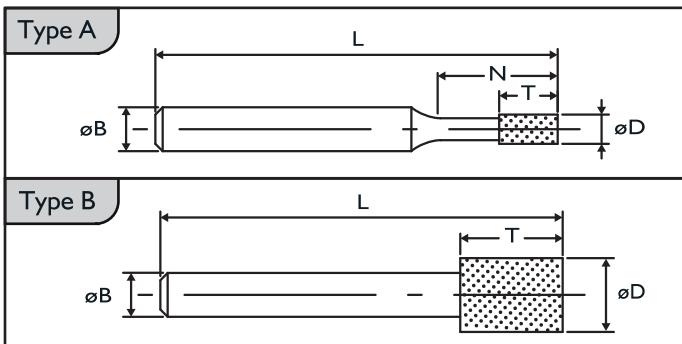


AFB-05	AFB-06
Ø9/16"	Ø1"

鑽石・氮化硼內孔磨棒

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Diamond & CBN Internal Points



電鍍

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.

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

鑽石適用於研磨鈮鋼、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

規格 Specifications

單位 Unit:mm

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

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

樹脂法 CBN內孔磨棒主要使用於內孔研磨及治具研磨

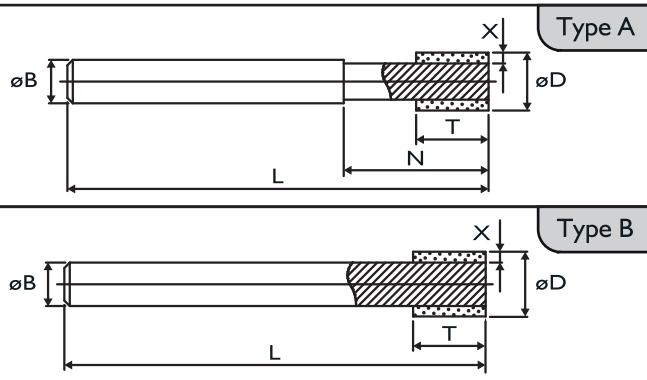
氮化硼(CBN)適用於研磨高速鋼及各種熱處理硬化後之合金鋼材

樹脂法

規格 Specifications

單位 Unit:mm

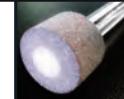
編號 Order no.	Type	øD	T	X	N	L	øB	粒度 Grit size
RIB-3040	A	4.0	5	1.0	12	45	3	#200
RIB-3045	A	4.5	6	1.25	12	45	3	#200
RIB-3050	A	5.0	6	1.5	12	45	3	#200
RIB-6060	A	6.0	6	2.0	15	80	6	#150
RIB-6070	A	7.0	8	2.5	15	80	6	#150
RIB-6080	A	8.0	8	3.0	20	80	6	#150
RIB-6100	A	10.0	10	2.0	20	80	6	#150
RIB-6120	B	12.0	10	3.0	-	80	6	#150
RIB-6140	B	14.0	10	4.0	-	80	6	#150
RIB-6160	B	16.0	10	4.0	-	80	6	#150
RIB-6180	B	18.0	10	5.0	-	80	6	#150
RIB-6200	B	20.0	10	6.0	-	80	6	#150



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

陶瓷法

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)



規格 Specifications

單位 Unit:mm

編號 Order no.	Type	øD	T	X	N	L	øB	粒度 Grit size
VIB-3040	A	4.0	6	1.0	12	60	3	#200
VIB-3050	A	5.0	6	1.5	12	60	3	#200
VIB-3060	A	6.0	6	2.0	12	60	3	#200
VIB-3080	A	8.0	8	3.0	12	60	3	#200
VIB-6100	B	10.0	8	2.0	-	80	6	#200
VIB-6120	B	12.0	10	3.0	-	80	6	#200
VIB-8140	B	14.0	12	3.0	-	80	8	#200
VIB-6140	B	14.0	12	4.0	-	80	6	#200
VIB-8160	B	16.0	12	4.0	-	80	8	#200
VIB-6160	B	16.0	12	5.0	-	80	6	#200
VIB-8180	B	18.0	12	5.0	-	80	8	#200
VIB-6180	B	18.0	12	6.0	-	80	6	#200

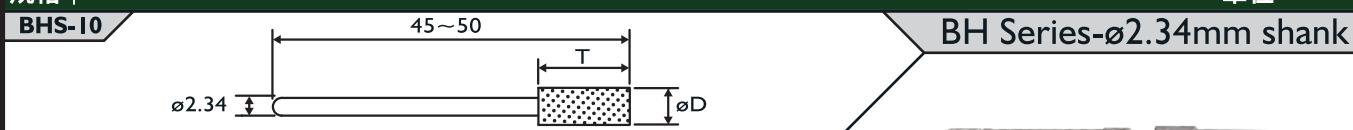
標準粒度外，其他粒度請指明訂購 Grit size in the above table is standard for that item, others are available upon request.

鑽石雕刻針

Diamond Mounted Points

規格 Specifications

單位 Unit:mm



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	-
Grit size	#200	#100	#100	#120	#150	#150	#120	#200	#200	#150

BH Series-ø2.34mm shank

套餐10支組，10種磨棒各一支

BHS-10

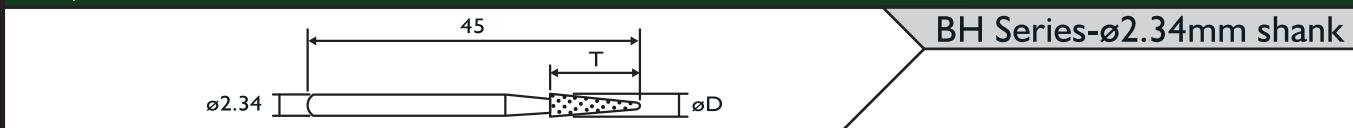
Order no.	BH11A	BH14A	BH19A	BH24A	BH27A	BH32A	BH39A	BH49A	BH14R	BH24R	BH20B	BH24B	BH30B	BH35B	BH39B
øD	1.1	1.4	1.9	2.4	2.7	3.2	3.9	4.9	1.4	2.4	2.0	2.4	3.0	3.5	3.9
T	7	7	7	7	7	7	10	10	10	13	-	-	-	-	-
Grit size	#150	#150	#120	#120	#120	#120	#120	#120	#150	#150	#150	#120	#120	#120	#120

Order no.	BH14C	BH19C	BH29C	BH39C	BH49C	BH18P	BH24P	BH29P	BH42P	BH14T	BH19T	BH26T	BH30S	BH30Y	BH17J
øD	1.4	1.9	2.9	3.9	4.9	1.8	2.4	2.9	4.2	1.4	1.9	2.6	3.0	3.0	1.7
T	7	7	7	10	10	10	12	14	6	7	7	7	6	-	10
Grit size	#150	#120	#120	#120	#120	#150	#150	#150	#150	#120	#120	#120	#120	#150	#150

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 *.

規格 Specifications

單位 Unit:mm



Order no.	D1	D2	D3	D4	A11	A12	A13	A21	A30	7A	8A	C3	C13	C23	TR	IR	KS	ILR	2R	2LR	3R	5R	6R	7R	8R	K6	K10	KA
øD	1	2	3	4	1	1.5	1.5	2.5	3	7	8	0.9	1.5	2	1.5	1.5	3.5	1.5	2	2.5	3	4	5	7	8	2	2.5	7
T	-	-	-	-	5	5	7	7	6	10	4	10	10	8	10	6	10	12	12	12	12	12	12	12	12	5	7	12

Order no.	I2BA	I4BA	I6BA	I9BA	T11	T12	T13	T30	IA	2A	2LA	3A	5A	6A	RZ	2LB	AI4	Kr5	Kr8	Kr9	A20	A31	I0B	I2B	I3B	I4B
øD	4	6	10	12	1	1.5	2	3	2	2.5	2.5	3	4	5	4	2.5	2.5	6	8	8	2.5	3	2.7	4	5	6
T	-	-	-	-	4	4	4	4	8	12	10	10	10	10	6	12	7	1.5	2	3	7	7	-	-	-	-

Order no.	16B	16BB	16BC	13nk	13mB	16mC	16mB	RT	10X	17X	18X	19X	23X	10BN	12BN	13BN	10mA	13mA
øD	10	10	10	5	13	16	16	5	1.8	4	6	10	16	2.5	4	5	10	13
T	-	-	-	-	2.5	2.5	3.5	7	0.5	0.8	1	1.6	2	-	-	-	2.5	3.5

Order no.	16mA	K25	K30	K35	K45	K50	K55	K60	20mA	88D	88C	88A
øD	16	4	5	6	10	10	12	12	20	22	22	22
T	3.5	0.4	0.6	0.5	0.5	1	0.6	1	3.5	0.45	0.35	0.45

客製品單一規格最低訂購量10支，約20個工作天

鑽石磨棒 & 綜合組裝

H 宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Diamond Mounted Points & Assortment set

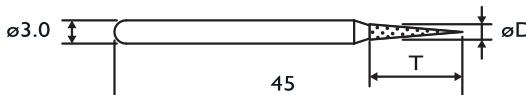
規格 Specifications

單位 Unit:mm

BMS-30

30支綜合組，含此表格有標示*記號磨棒各一支

BM Series-ø3.0mm shank



30 pieces assortment set, contains one each point which denoted by *.

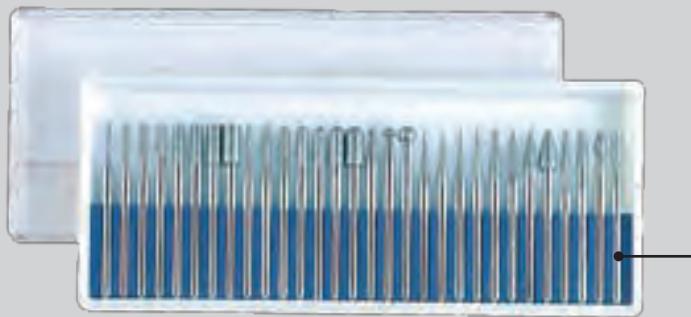
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Order no.	10A	15A	20A	25A	30A	35A	40A	50A	60A	10C	15C	20C	25C	30C	35C	40C	50C	60C	
øD	I	1.5	2	2.5	3	3.5	4	5	6	I	1.5	2	2.5	3	3.5	4	5	6	
T	8	8	8	8	10	10	10	10	10	8	8	8	8	10	10	10	10	10	
Grit size	#150	#150	#120	#120	#120	#120	#120	#100	#100	#150	#120	#120	#120	#120	#120	#100	#100	#100	

	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Order no.	20T	30T	30V	13R	14R	15R	20R	30R	20P	30P	40P	50P	60P	20F	30F	40F	50F	60F
øD	2	3	3	1.2	1.5	1.5	2	3	2	3	4	5	6	2	3	4	5	6
T	10	10	10	16	13	10	12	14	12	15	15	15	13	10	12	10	10	12
Grit size	#120	#120	#120	#150	#150	#150	#150	#120	#150	#150	#150	#150	#150	#120	#120	#120	#100	#100

	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Order no.	30J	40J	50J	60J	10B	15B	20B	25B	30B	40B	50B	60B	80B	30Q	40Q	50Q	60Q	20S	30S	40S
øD	3	4	5	6	I	1.5	2	2.5	3	4	5	6	8	3	4	5	6	2	3	4
T	14	9	10	13	-	-	-	-	-	-	-	-	-	5	7	9	10	4	6	8
Grit size	#120	#120	#120	#100	#200	#150	#150	#120	#120	#100	#100	#100	#100	#120	#120	#100	#120	#120	#120	

Assortment set

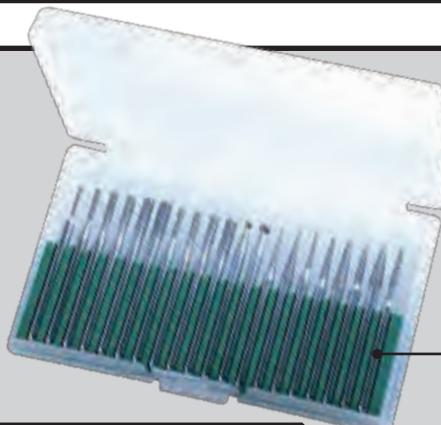
綜合組裝



BMS-30: 30支組 30pcs.set

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)

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 1/8" 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.



BMS-20: 20支組 20pcs.set

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

BL系列:ø1/8"柄 BL Series:ø1/8"Shank

BLS-30:30支組 BLS-30:30pcs.set
BLS-20:20支組 BLS-20:20pcs.set

Diamond Mounted Points & Diamond Taper Points

規格 Specifications

單位 Unit:mm

BC Series-ø6.0mm 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.



BC-10套裝10支組，含標示*號之磨棒各1支・訂購時請指明粒度。

ø6.5	ø8	ø10	ø10	ø10	ø18	ø8	ø10	ø16	ø20	ø6.5	ø8	ø10	ø6	ø10	ø6.5
15	15	10	10	19	32	26	15	16	20	15	15	19	32	1.2	22
65A	80A*	101A	100A	102A	180A	80B*	100B	160B	200B	65C*	80C	100C	60C	100E*	65F*

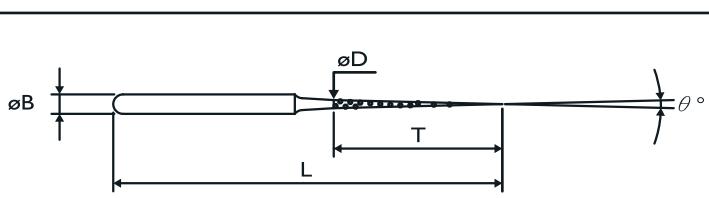
ø7	ø8	ø10	ø10	ø6	ø6	30°	28°	ø6	ø9	ø10	ø12	90°	ø14
22	15	19	19	12	15	15	20	10	13	18	16	25	18
70F	80F*	100F	100J	60P	61P	80P*	100P	60Q	90Q	100Q	120Q	100N	140PR

ø16	10°	ø6.5	ø4	ø25	20°	ø8	ø16.5	ø20	ø25	ø25
18	25	15	8	15	5	10	6	7	41	
160PR	65R*	80T*	250U	80V*	80VB	165Y	200Y	250Y	250X	

規格 Specifications

單位 Unit:mm

Diamond Taper Points



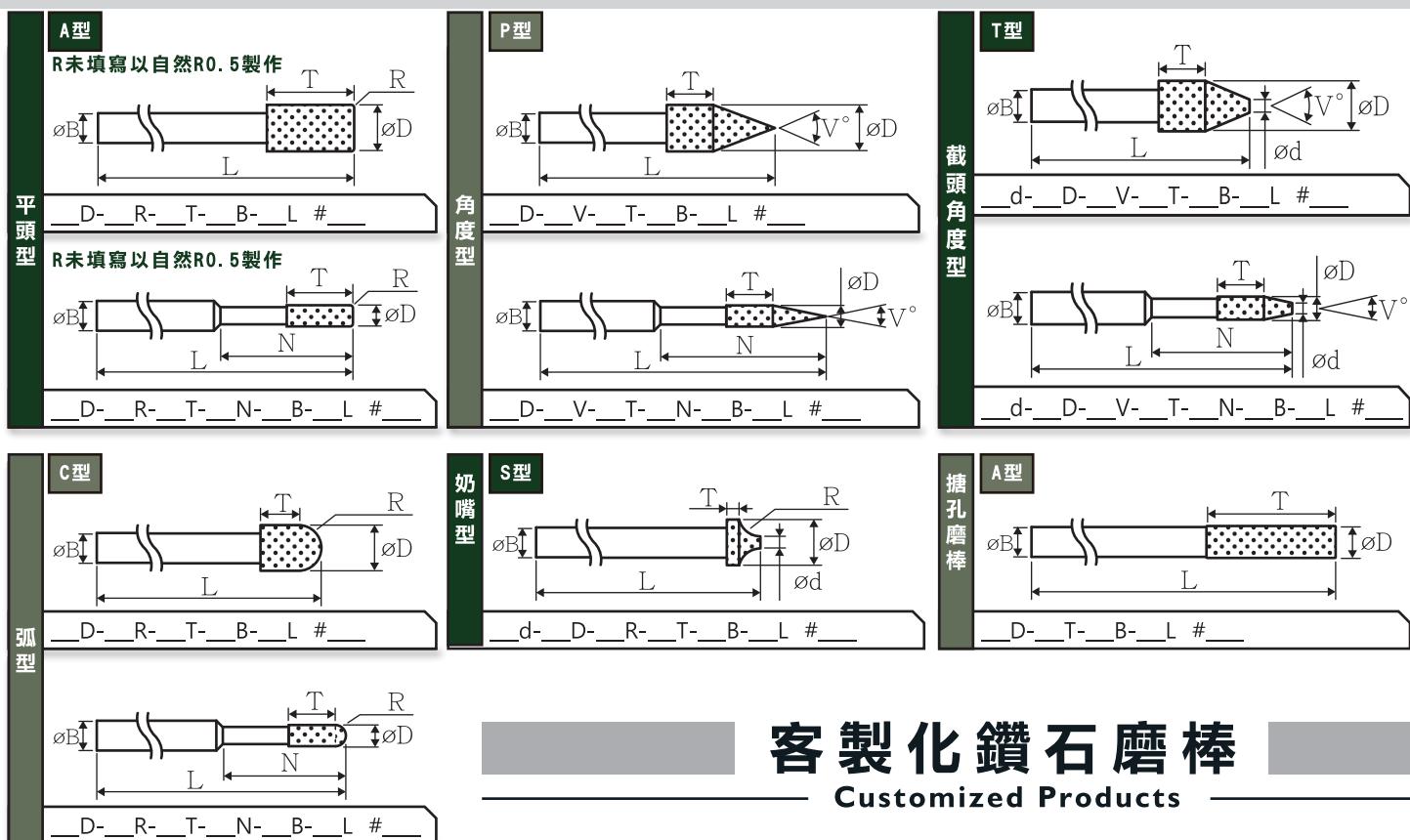
編號 Order no. øD T θ ° L øB 粒度 Grit size

18PL	ø1.8	25	3.1	50	ø3.0	#150
21PXL	ø2.1	34	2.8	55	ø3.0	#150
30PL	ø3.0	25	6.4	60	ø3.0	#150
48PL	ø4.8	26	9.6	55	ø3.0	#150
15PL	ø1.5	26	2.3	60	ø3.0	#150
20PXL	ø2.0	48	1.9	70	ø3.0	#150
23PXL	ø2.3	40	2.7	65	ø3.0	#150
25PXL	ø2.5	45	2.6	70	ø3.0	#150
30PXL	ø3.0	38	4.2	70	ø3.0	#150
60PI0	ø6.0	33	10	60	ø6.0	#120
60PI2	ø6.0	28	12	60	ø6.0	#120
60PI4	ø6.0	23	14	60	ø6.0	#120
60PI6	ø6.0	21	16	60	ø6.0	#120
60P20	ø6.0	17	20	60	ø6.0	#120
100P30	ø10.0	19	30	60	ø6.0	#120

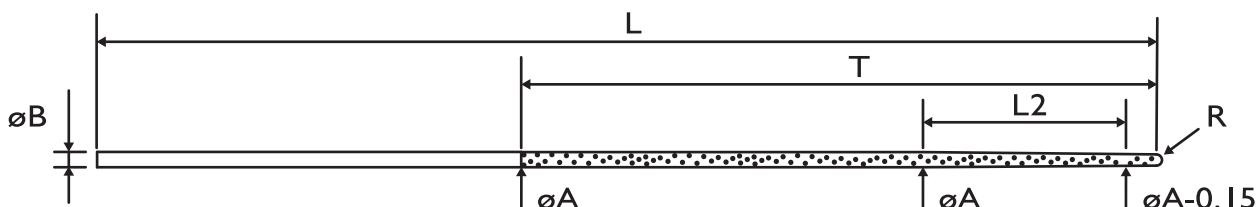
客製鑽石磨棒&穿孔磨棒

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Customized Products & Diamond Internal Boring Files



客製化鑽石磨棒 Customized Products



規格 Specifications

單位 Unit:mm

ØA O. D	ØB Shank													
1.0	0.70	2.0	1.70	3.0	2.70	4.0	3.70	5.0	4.60	6.0	5.60	7.0	6.70	
1.1	0.80	2.1	1.80	3.1	2.80	4.1	3.70	5.1	4.70	6.1	5.80	7.1	6.80	
1.2	0.90	2.2	1.90	3.2	2.90	4.2	3.80	5.2	4.80	6.2	5.90	7.2	6.90	
1.3	1.00	2.3	2.00	3.3	3.00	4.3	3.90	5.3	4.90	6.3	6.00	7.3	7.00	
1.4	1.10	2.4	2.10	3.4	3.10	4.4	4.00	5.4	5.00	6.4	6.10	7.4	7.10	
1.5	1.20	2.5	2.20	3.5	3.20	4.5	4.10	5.5	5.10	6.5	6.20	7.5	7.20	
1.6	1.30	2.6	2.30	3.6	3.30	4.6	4.20	5.6	5.20	6.6	6.30	7.6	7.30	
1.7	1.40	2.7	2.40	3.7	3.40	4.7	4.30	5.7	5.30	6.7	6.40	7.7	7.40	
1.8	1.50	2.8	2.50	3.8	3.50	4.8	4.40	5.8	5.40	6.8	6.50	7.8	7.50	
1.9	1.60	2.9	2.60	3.9	3.60	4.9	4.50	5.9	5.50	6.9	6.60	7.9	7.60	
													9.0	8.70

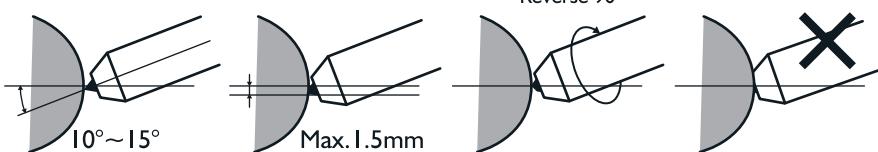
ØA O. D	斜面長L2 Taper Length	T Plated Length	L Total Length	粒度 Grit size
1.0~1.4	50	80	150	DI100
1.5~7.0	90	120	200	
7.1~9.0	80	120	250	

鑽石穿孔磨棒

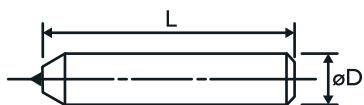
Diamond Internal Boring Files

Diamond Dressing Tools

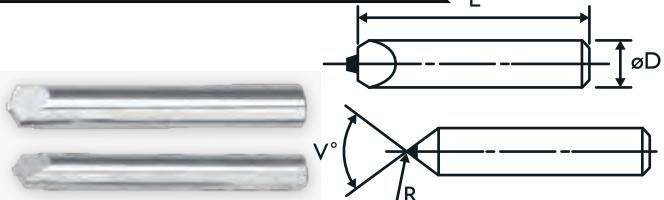
正確按裝及使用 Installation and operation



單石修刀 Single Point Diamond Dressers



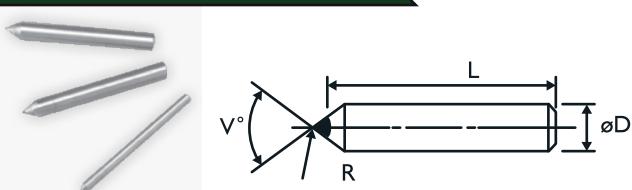
成型修刀 Chisel Type Diamond Dressers



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.

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

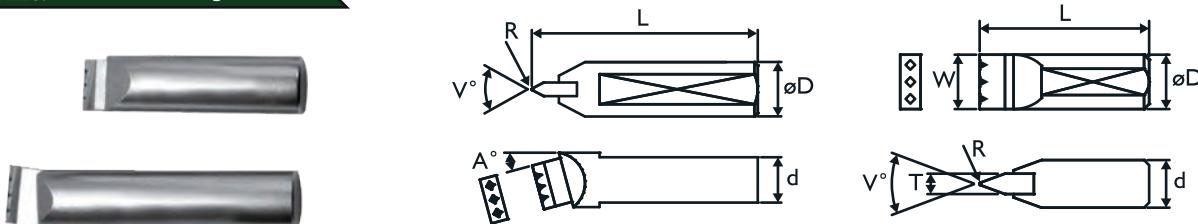
圓錐修刀 Coned Diamond Dressers



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.

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

CVD成型修刀 CVD Forming Dressers



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

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.

砂輪修整工具-修刀

H 宏威實業有限公司
HONWAY MATERIALS CO., LTD.

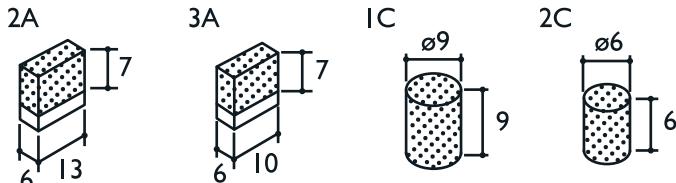
Diamond Dressing Tools

結合修刀

Impregnated Diamond Dressers



鑽石齒塊尺寸 The dimensions of diamond tips



編號 Order no.	鑽石齒塊 Diamond tips	粒度 Grit size	鐵柄形狀 Type of shank	鐵柄尺寸 Size of shank	適用範圍 Applications
DI-2AFC	2A	F		ø12x100L	
DI-2AMC	2A	M		ø12x50L	無心研磨, 圓筒研磨, 平面研磨砂輪尺寸 ø300x25到ø500x63
DI-2ARC	2A	R		ø11x30L	
DI-2AFD	2A	F		ø12x50L	For centerless, cylindrical, surface grinding.
DI-2AMD	2A	M		ø11x30L	Wheel size : ø300x25 to ø500x63
DI-2ARD	2A	R			
DI-ICFG	IC	F		ø12x50L	一般用途之研磨砂輪尺寸ø300或以下
DI-ICMG	IC	M		ø11x30L	For general purpose grinding.
DI-ICRG	IC	R			Wheel size: ø300and smaller.

粒度 Grit size: F:細目Fine M:中目Medium R:粗目Coarse

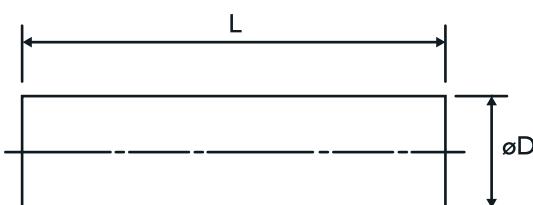
艾瑪合金

Molybdenum Rod



具有高強度、抗磨損的優異性能，常用於修整大規格的砂輪、鑽石砂輪、還有CBN砂輪，另外此款材料具有高融點、良好的導熱率和低的熱膨脹性能。

在高溫下可以抗氧化、強度高，此款合金修整出來的砂輪表面品質好，修整時間縮短，修整間隔增長，大幅提高生產效率及品質。



øD	L
ø10	
ø12	
ø16	
ø18	50

如需客訂請洽業務人員

聚晶鑽石、氮化硼車刀

PCD & PCBN Turning Tools

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 tools life, providing better control over part size and surface finishes,
reducing tool cost per machined part and improving machine productivity.



應用範圍 :

聚晶鑽石(PCD)
銅合金、鋁合金
燒結碳化鈷及陶瓷
預燒結碳化鈷及陶瓷
高矽鋁合金
F.R.P、硬橡膠、石墨
聚晶氮化硼(PCBN)
硬化鋼材(HRC 45~68)
耐熱鋼(SUS)
超耐熱鋼：鎳基合金，鈷基合金
鑄鐵：冷激鑄鐵、接種鑄鐵
燒結合金鋼：鎔鋁鋼、鎔鉻鋁鋼

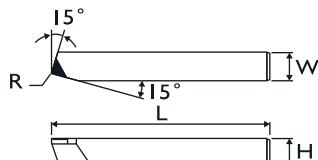
Applications :

Poly-crystalline Diamond (PCD)
Aluminum alloys、copper alloys、manganese alloys
Sintered carbide & ceramics
Green or semi-sintered carbide & ceramics
High-silicon aluminum alloys
Reinforced plastic、hard rubber、carbon、graphite
Polycrystalline Cubic Boron Nitride (PCBN)
Hardened steels (HRC 45 ~ 68) Tempering steels
Super alloys:
Cobalt and nickel base super alloys Cast iron:
Chilled iron,
Mehanite iron Sintered ferrous alloys:
SCM, SNCM

規格 Specifications

單位 Unit:mm

31型

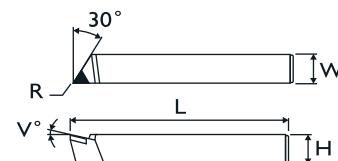


編號 Order no.	刀片材質 Tip material	W	H	L	R	V°	S
B4612-4G	PCBN	16	16	120	0.4	0	0
B4613-4G	PCBN	19	19	140	0.4	0	0

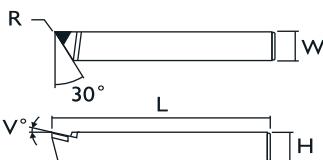
32型

編號 Order no.	刀片材質 Tip material	W	H	L	R	V°	S
D6732-5B	PCD	16	16	120	0.5	0	0
D6733-5B	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

33型

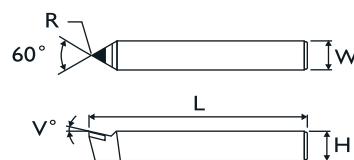


34型

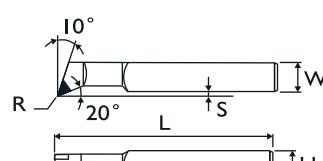


編號 Order no.	刀片材質 Tip material	W	H	L	R	V°	S
D6540-3F	PCD	10	10	80	0.3	10	0
D6541-3F	PCD	13	13	100	0.3	10	0
D6542-3F	PCD	16	16	120	0.3	10	0

35型



36型



編號 Order no.	刀片材質 Tip material	W	H	L	R	V°	S
D6772-5B	PCD	16	16	120	0.5	0	2
D6773-5B	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

Note: The turning tools with other specification, please offer detail drawing when ordering.

說明: 其他規格之車刀, 請提供詳細圖面訂購

鑽石銼刀片

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Diamond Tip Files

規格 Specifications

單位 Unit:mm

FAS-100T

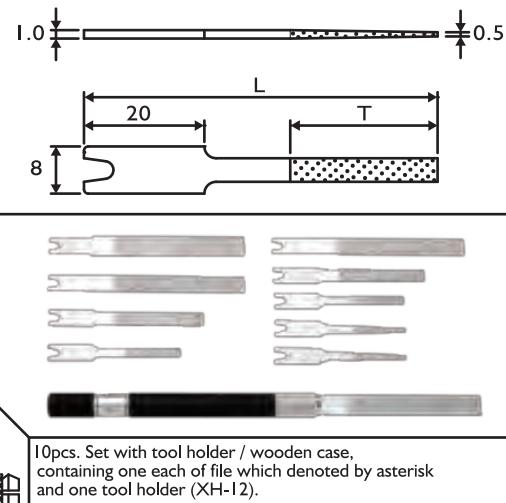
特點:

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

Features :

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

L	T	形狀	粒度	編號
		Cross-section	Grit size	Order no.
60	25	4~2 	#150 #200 #400	★ FA-426J ★ FA-426F FA-426V
60	25	4 	#150 #200 #400	★ FA-446J ★ FA-446F FA-446V
70	40	6 	#150 #200 #400	★ FA-667J ★ FA-667F FA-667V
70	40	8 	#150 #200 #400	FA-887J FA-887F FA-887V
90	60	8 	#150 #200 #400	★ FA-889J ★ FA-889F FA-889V
70	40	10 	#150 #200 #400	FA-107J FA-107F FA-107V
90	60	10 	#150 #200 #400	★ FA-109J ★ FA-109F FA-109V
60	25	3~2 	#200 #400 #600	FA-326F FA-326V FA-326X
60	25	4~3 	#200 #400 #600	FA-436F FA-436V FA-436X
70	40	3~2 	#200 #400 #600	FA-327F FA-327V FA-327X
70	40	4~3 	#200 #400 #600	FA-437F FA-437V FA-437X
(I22)			1.0	XH-12



10pcs. Set with tool holder / wooden case,
containing one each of file which denoted by asterisk
and one tool holder (XH-12).

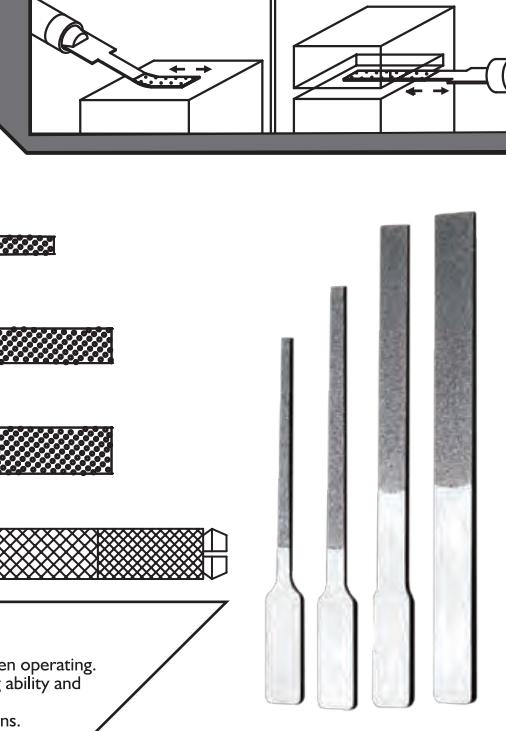
10支組木盒裝，含夾柄1支及有★標示之銼刀各1支。

規格 Specifications

單位 Unit:mm

FAS-600

L	T	形狀	粒度	編號
		Shape	Grit size	Order no.
70	40	2~3 	#150 #200 #400 #600	FA-632J FA-632F FA-632V FA-632X
80	50	4~3 	#150 #200 #400 #600	FA-643J FA-643F FA-643V FA-643X
90	50	6 	#150 #200 #400 #600	FA-666J FA-666F FA-666V FA-666X
90	50	8 	#150 #200 #400 #600	FA-688J FA-688F FA-688V FA-688X
(I22)			1.5 1.0	XH-32

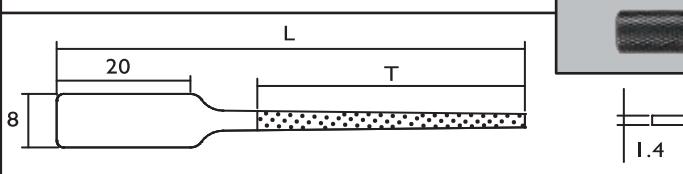


特點:

- 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

Features :

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 Bent Files & Diamond Hand Files

BF-90				BF-60			
• Total length: 140mm • Tool shank: Ø3.0mm • Diamond coating length: 20mm 全長: 140mm 柄徑: Ø3.0mm 鑽石長: 20mm				• Total length: 140mm • Tool shank: Ø3.0mm • Diamond coating length: 30mm 全長: 140mm 柄徑: Ø3.0mm 鑽石長: 30mm			
形狀 · 尺寸 Shape · Size(mm)	#150	#200	#400	形狀 · 尺寸 Shape · Size(mm)	#150	#200	#400
1. 6x1.3	BF-901	BF-901F	BF-901V	1. 5.5x1.2	BF-601	BF-601F	BF-601V
2. 2.5	BF-902	BF-902F	BF-902V	2. 5x2	BF-602	BF-602F	BF-602V
3. 3.5x1.5	BF-903	BF-903F	BF-903V	3. Ø3	BF-603	BF-603F	BF-603V
4. 3.5	BF-904	BF-904F	BF-904V	4. 2.5	BF-604	BF-604F	BF-604V
5. 5x2	BF-905	BF-905F	BF-905V	5. 3.5	BF-605	BF-605F	BF-605V
6. 3.5x1.5	BF-906	BF-906F	BF-906V	◆ 套裝5支組5 pcs.set	BF-600	BF-600F	BF-600V
7. 3.5x2	BF-907	BF-907F	BF-907V				
8. Ø3	BF-908	BF-908F	BF-908V				
9. 5x1.5	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				

鑽石異形銼刀

BF-80



• Total length: 155mm
 • Tool shank: 3.0mm square shank
全長: 155mm 柄徑: Ø3.0mm 方柄
 • Diamond coating length: 20~30mm (Double head)
鑽石長: 20~30mm (雙頭)

形狀 · 尺寸 Shape · Size(mm)	#200	#150	#400
1. 3x2	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10支組10 pcs.set	BF-800	BF-800J	BF-800V

鐵工用鑽石銼刀

IF-50鐵工用鑽石銼刀				CF-50鑽石平斜銼刀				金屬結合鑽石銼刀				
粒度 Grit size : #100				粒度 Grit size : #150, #200				Sintered Diamond Files				
全長 Total length	鑽石長 Dia. length	形狀 Cross-section	編號 Order no.	全長 Total length	鑽石長 Dia. length	形狀 Cross-section	編號 Order no.	全長 Total length	鑽石長 Dia. length	形狀 Cross-section	粒度 Grit size	編號 Order no.
215	80		IF-501	180	70		CF-501	54	20		#200	MMF-615F
215	80		IF-502	180	60		CF-502	54	20		#400	MMF-615V
215	80		IF-503	180	60		CF-503	54	20		#600	MMF-615X
215	80		IF-504	180	50		CF-504	72	20		#200	MDT-02F
215	80		IF-505	180	50		CF-505	72	20		#400	MDT-02V
CF-500木盒裝5支組 (5p cs. set / wooden case)								◆ 電動及氣動超音波研磨機專用				
								Special design for pneumatic or ultrasonic lapping machine.				

精密組鑽石銼刀

H 宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Diamond Needle Files

PF-10

• Total length: 140mm
• Tool shank: ø3.0mm
• Diamond coating length: 50mm
全長: 140mm, 柄徑: ø3.0mm, 鑽石長: 50mm

形狀 · 尺寸 Shape · Size(mm)	#120	#200	#400
1. 5.5x1.5	PF-101	PF-101F	PF-101V
2. 5x2	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-20

• Total length: 200mm
• Tool shank: ø4.0mm
• Diamond coating length: 70mm
全長: 200mm 柄徑: ø4.0mm 鑽石長: 70mm

形狀 · 尺寸 Shape · Size(mm)	#120	#200	#400
1. 8.5x1.6	PF-201	PF-201F	PF-201V
2. 7x2.5	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-10L

• Total length: 140mm
• Tool shank: ø3.0mm
• Diamond coating length: 70mm
全長: 140mm, 柄徑: ø3.0mm, 鑽石長: 70mm

形狀 · 尺寸 Shape · Size(mm)	#120	#200	#400
1. 5.5x1.5	PF-101L	PF-101LF	PF-101LV
2. 5x2	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. 5.4x1.5	PF-106L	PF-106LF	PF-106LV
7. 1.7x6	PF-107L	PF-107LF	PF-107LV
8. 6x2	PF-108L	PF-108LF	PF-108LV
9. 5x2	PF-109L	PF-109LF	PF-109LV
10. 6x1.5	PF-110L	PF-110LF	PF-110LV
★ 套裝10支組10 pcs.set	PF-100L	PF-100LF	PF-100LV

PFL-10

• Total length: 180mm
• Tool shank: ø3.0mm cover with PVC vinyl
• Diamond coating length: 25~50mm
全長: 180mm 柄徑: ø3.0mm
套膠柄 鑽石長: 25~50mm

形狀 · 尺寸 Shape · Size(mm)	#200	#150	#400
1. 5.5x1.5	PFL-101	PFL-101J	PFL-101V
2. 5x2	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. 5.5x1	PFL-106	PFL-106J	PFL-106V
7. 5.5x0.5	PFL-705	PFL-705J	PFL-705V
8. 5.5x0.8	PFL-708	PFL-708J	PFL-708V
9. ø2	PFL-03	PFL-03J	PFL-03V
10. 5.5x1.5	PFL-01	PFL-01J	PFL-01V
★ 套裝10支組10 pcs.set	PFL-100	PFL-100J	PFL-100V

PF-30

• Total length: 180mm
• Tool shank: ø3.4mm
• Diamond coating length: 60mm
全長: 180mm 柄徑: ø3.4mm 鑽石長: 60mm

形狀 · 尺寸 Shape · Size(mm)	#120	#200	#400
1. 7.5x1.5	PF-301	PF-301F	PF-301V
2. 6x2.1	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

PF-70 Thin flat type

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.	PF-70超薄平銼 此系列薄銼適用於窄縫加工		
• Total length: 140mm, Tool shank: 3.0mm • Diamond coating length: 40~50mm			
形狀 · 尺寸 Shape · Size(mm)	#150	#200	#400
1. 5.5x0.5	PF-705	PF-705F	PF-705V
2. 5.5x0.8	PF-708	PF-708F	PF-708V
3. 5.5x1.0	PF-710	PF-710F	PF-710V

鑽石(機械)平斜銼刀

Diamond Tapered (Hand / Machine) Files

規格 Specifications

單位 Unit:mm

PTF-100



全長 Total length	鑽石長 Dia. length	形狀 Cross-section	粒度 Grit size	編號 Order no.
130	30		#200 #400 #600	PTF-12F PTF-12V PTF-12X
130	30		#200 #400 #600	PTF-14F PTF-14V PTF-14X
130	30		#200 #400 #600	PTF-16F PTF-16V PTF-16X
140	50		#600	PF-103X



10支套裝 10 pcs. set in pvc pouch, contains one each of all above files.

CF-400



全長 Total length	鑽石長 Dia. length	形狀 Cross-section	粒度 Grit size	編號 Order no.
180	40		#150 #200 #400	CF-402J CF-402F CF-402V
180	50		#150 #200 #400	CF-404J CF-404F CF-404V
180	50		#150 #200 #400	CF-406J CF-406F CF-406V
180	50		#150 #200 #400	CF-408J CF-408F CF-408V



12支套裝 12 pcs. set in pvc pouch, contains one each of all above files.

規格 Specifications

單位 Unit:mm

MTP Series



全長 Total length	鑽石長 Dia. length	形狀 Cross-section	粒度 Grit size	編號 Order no.
72	25		#150 #200 #300 #400	MTP-12J MTP-12F MTP-12H MTP-12V
72	25		#150 #200 #300 #400	MTP-14J MTP-14F MTP-14H MTP-14V
72	25		#150 #200 #300 #400	MTP-16J MTP-16F MTP-16H MTP-16V



MTP-120

12支套裝 12 pcs. set in pvc pouch.

MTF Series



全長 Total length	鑽石長 Dia. length	形狀 Cross-section	粒度 Grit size	編號 Order no.
72	15		#200 #400 #600	MTF-13F MTF-13V MTF-13X
72	15		#200 #400 #600	MTF-16F MTF-16V MTF-16X
56	15		#200 #400 #600	MTF-23F MTF-23V MTF-23X
56	15		#200 #400 #600	MTF-26F MTF-26V MTF-26X



MTP-100

12支套裝 12 pcs. set in pvc pouch.

鑽石機械銼刀

H 宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Diamond Machine Files

MPF-10

- Total length:90mm
- Tool shank: \varnothing 3.0mm
- Diamond coating length:45mm



單位Unit:mm

全長:90mm 柄徑: \varnothing 3.0mm 鑽石長:45mm 形狀 · 尺寸 Shape · Size(mm)		編號Order no.	
	#150	#200	#400
1. 4x1.2	MPF-101	MPF-101F	MPF-101V
2. 5x2	MPF-102	MPF-102F	MPF-102V
3. \varnothing 3	MFF-103	MPF-103F	MPF-103V
4. 2.5	MPF-104	MPF-104F	MPF-104V
5. 5x2	MPF-109	MPF-109F	MPF-109V
★ 套裝5支組5 pcs.set	MPF-100	MPF-100F	MPF-100V

MBF-60

- Total length:85mm
- Tool shank: \varnothing 3.0mm
- Diamond coating length:30mm



單位Unit:mm

全長:85mm 柄徑: \varnothing 3.0mm 鑽石長:30mm 形狀 · 尺寸 Shape · Size(mm)		編號Order no.	
	#150	#200	#400
1. 5.5x1.2	MBF-601	MBF-601F	MBF-601V
2. 5x2	MBF-602	MBF-602F	MBF-602V
3. \varnothing 3	MBF-603	MBF-603F	MBF-603V
4. 2.5	MBF-604	MBF-604F	MBF-604V
5. 2.5	MBF-605	MBF-605F	MBF-605V
★ 套裝5支組5 pcs.set	MBF-600	MBF-600F	MBF-600V

MBF-90

- Total length:65mm
- Tool shank: \varnothing 3.0mm
- Diamond coating length:20~30mm



單位Unit:mm

全長:65mm 柄徑: \varnothing 3.0mm 鑽石長:20~30mm 形狀 · 尺寸 Shape · Size(mm)		編號Order no.	
	#150	#200	#400
1. 5.8x1.2	MBF-901	MBF-901F	MBF-901V
2. 3.2x1.4	MBF-902	MBF-902F	MBF-902V
3. 5x2	MBF-903	MBF-903F	MBF-903V
4. 3.2x1.4	MBF-904	MBF-904F	MBF-904V
5. \varnothing 3	MBF-905	MBF-905F	MBF-905V
6. \varnothing 3	MBF-906	MBF-906F	MBF-906V
7. 2.5	MBF-907	MBF-907F	MBF-907V
8. 3.2x1.4	MBF-908	MBF-908F	MBF-908V
9. 3.2x1.4	MBF-909	MBF-909F	MBF-909V
10. 3.5x2	MBF-910	MBF-910F	MBF-910V
★ 套裝10支組10 pcs.set	MBF-900	MBF-900F	MBF-900V

粉紅帶柄砂輪

Mounted Points

規格 Specifications

單位 Unit:mm

ø2.5	ø3	ø4	ø5	ø6	ø8	ø10
6	8	10	10	12	16	16
256A	308A	410A	510A	612A	816A	1016A



標準柄徑為 ø3.0mm，其他柄徑為 ø2.34mm 或 ø3.175mm。

請指明訂購 有 * 之尺寸，無法提供 ø2.34mm 柄。

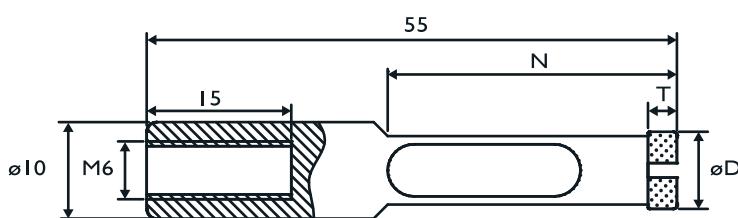
Note: ø3.0mm shank is standard, others (ø2.34 or ø3.175mm) depend on request.
The tools with " * " marked, just available for ø3.0 & ø3.175 shank.

ø3	ø4	ø5	ø6	ø8	ø10	ø12	ø3	ø3	ø4	ø7	ø8	ø12	ø6	ø4	ø6	ø8
8	10	10	10	12	16	24	10	12	12	13	13	24	9	12	16	16
30B	40B	50B	60B	80B	100B	120B	308T	310T	412T	710T	813R	1224R *	609S	412J	616J	816J

ø10	ø6	ø8	ø10	ø3	ø4	ø5	ø8	I3	I3	I3	I3	I6	I6	I6	I6
16	12	15	18	6	12	15	16	2	2	2	2	1	1	1	1
1016J	612P	815P	1018P *	306K	412K	515K	816K	I32E	I33E	I62E *	I63E				

電鑄鑽石鑽管

Electroplated Diamond Core Drills



規格 Specifications

單位 Unit:mm

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、石磨、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.

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.

編號 Order no.	øD mm inch	T 1/8" 3/16" 1/4" 5/16" 3/8" 1/2" 5/8" 3/4" 1"	N	粒度 Grit size	備註 Note
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

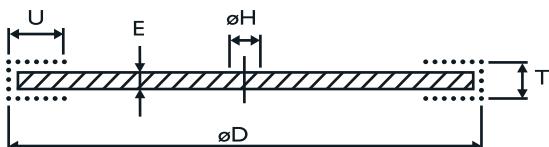
鑽石切片 & 電鑄鑽石鋸片

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Plated Diamond Disc & Electroplated Diamond Cutters

Plated Diamond Disc

鑽石切片



Type A



Type e

規格 Specifications

單位 Unit:mm

編號 Order no.	Type	ϕD	T	U	E	ϕH	粒度 Grit	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

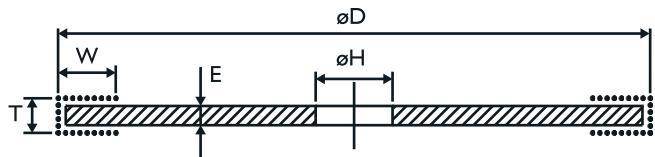
軸柄 Mandrel					
編號 Order no.	ϕD	ϕd	編號 Order no.	ϕD	ϕd
A. AK234	2.34	1.7	D. MK234	2.34	3.0
B. AK300	3.0	1.7	E. MK300	3.0	3.0
C. AK318	3.175	1.7	F. MK318	3.175	3.0



鑽石切片適用於切溝、切斷，研磨下列材質：
玻璃、鈦鋼、陶瓷、石材、硬橡膠、FRP、碳纖維、石磨以及複合材料等
Diamond disc use for grooving,cutting,& grinding the following materials:
glass,tungsten carbide,ceramic,stone,hard rubber,FRP,composite materials and graphite...etc

Electroplated Diamond Cutters

電鑄鑽石鋸片



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



規格 Specifications

單位 Unit:mm

編號 Order no.	ϕD	E	T	W	型式 Type	ϕH	粒度 Grit size
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

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.

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.

訂購砂輪時請指明下列事項：

1. 砂輪之形狀及各部尺寸：如IAI、I4AI
2. 磨料種料：鑽石或氮化硼
3. 粒度：例如：#150
4. 集中度：例如：C-75
5. 結合劑：例如：樹脂結合劑或金屬結合劑
6. 冷卻方式：乾磨或濕磨
7. 數量及交期：
8. 轉速及加工條件：
9. 多數製造商都會在砂輪上標示以下資訊：

When ordering, please specify :

1. Shape & dimensions of wheel : Ex. IAI, I4AI
2. Abrasive : Diamond or CBN
3. Grit size : Ex. #150
4. Concentration : Ex. C-75
5. Bond of wheel : Ex. Resin bond or Metal bond
6. Coolant : Dry or wet grinding
7. Quantity & Delivery date :
8. Spindle speed & grinding conditions :
9. Most of makers marked following information :

SDC 磨料種類 Abrasive	I50 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 N P R 硬Hard	25 50 75 100 125 150	R : 樹脂結合 Resin bond M : 金屬結合 Metal bond P : 電鑄法 Electroplated V : 陶瓷法 Vitrified	1.0mm 1.5mm 2.0mm 3.0mm 5.0mm 10.0mm
SD : 人造鑽石 Synthetic diamond	#100 #150				
SDC : 人造金屬披覆鑽石 Synthetic metal coating diamond	#200 #270 #325 #400 #600				
B : 氮化硼 Cubic boron nitride (CBN)					
BC : 金屬披覆氮化硼 CBN with metal coating					

使用鑽石與氮化硼時機 Choosing Diamond or CBN ?

* 鑽石

- 碳化鈷，半燒結碳化鈷工具及另件
- 陶瓷工具及另件
- 氧化鐵等之磁性材料
- 耐火材料及其製品
- 石材、寶石及半寶石、貝殼
- 玻璃、石英、瓷器
- 砂、鋒等電子另件
- 碳、石墨及其製品
- 磁磚、瀝青、混凝土、石棉
- 塑膠、加強塑料 (F.R.P.)
- 耐磨耗披覆材料

* Diamond

- Tungsten carbide, presintered carbide metal tools & construction units.
- Oxide ceramic materials.
- Ferrite, ceramic magnetic materials.
- Refractory products.
- Stones, gem & semi-precious stones, shell.
- Glass, porcelain, quartz.
- Graphite, carbon.
- Tiles, asbestos, asphalt, concrete.
- Plastics, F.R.P.
- Wear resistant coatings.

* 氮化硼

- SK,SKS,SKH等切削工具及另件
- SKD,Stellite等耐磨工具鋼材
- SCM,SCNM,SCr,SUJ等構造用鋼
- SUS(不鏽鋼)等之耐蝕金屬
- SUH鈦合金等之耐熱金屬
- 鑄鐵

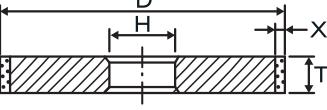
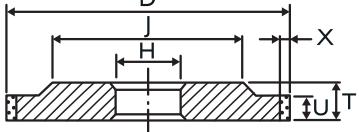
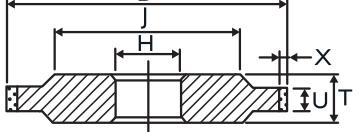
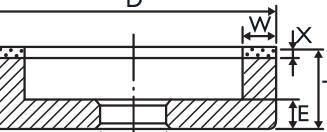
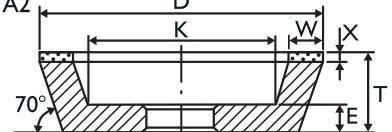
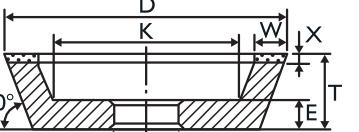
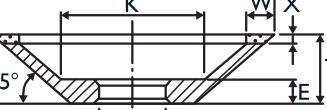
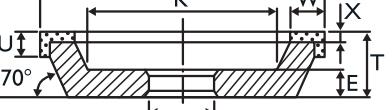
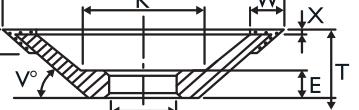
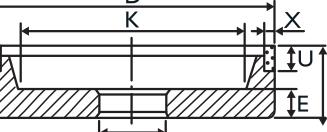
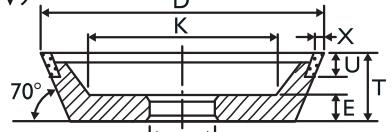
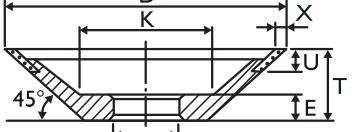
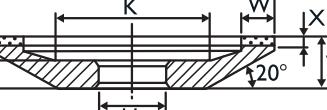
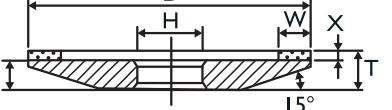
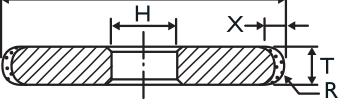
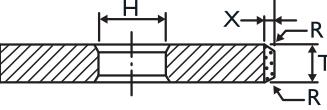
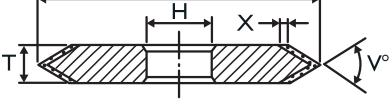
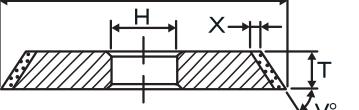
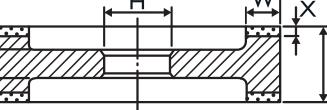
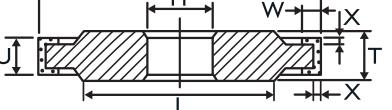
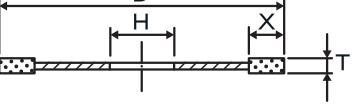
* CBN

- High alloy steels.
- High speed tool steels.
- Hot & cold working steels.
- Tempering steels, Spring steel.
- Ball bearing steel.
- Cast iron.

砂輪形狀及尺寸標示

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Shape & Dimensions of wheels

I1AI	3AI	I4AI
		
<u>D- H- T- X #</u>	<u>D- H- J- T- U- X #</u>	<u>D- H- J- T- U- X #</u>
6A2	IIA2	IIB2
		
<u>D- H- T- E- X- W #</u>	<u>D- H- K- T- E- X- W #</u>	<u>D- H- K- T- E- X- W #</u>
I2B2	IIC9	IIY9
		
<u>D- H- K- T- E- X- W #</u>	<u>D- H- K- T- E- X- U- W #</u>	<u>D- H- K- T- E- X- U- W #</u>
6A9	IIIV9	I2V9
		
<u>D- H- K- T- E- X- U #</u>	<u>D- H- K- T- E- X- U #</u>	<u>D- H- K- T- E- X- U #</u>
I2A2	4A2	IFFI
		
<u>D- H- K- T- E- X- W #</u>	<u>D- H- T- E- X- W #</u>	<u>D- H- T- X- R #</u>
ILI	IEE1	IVI
		
<u>D- H- T- X- R #</u>	<u>D- H- T- X- V #</u>	<u>D- H- T- X- V #</u>
9A3	I4UI	IAIR
		
<u>D- H- T- E- X- W #</u>	<u>D- H- J- T- X- U- W #</u>	<u>D- H- T- X #</u>

砂輪訂製方法 How to order a wheel?

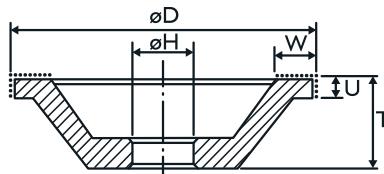
- 1.若是重複訂製, 請告知工作單編號即可 For repeated order, just tell us the manufacturing number.
- 2.若需我們為您設計砂輪, 則請告知 If you require us to design the wheels for you, please specify :
 - a.工件名稱, 材質, 硬度 Name, materials, hardness of work-piece.
 - b.機器名稱, 型式, 轉速及馬力 Name, type, horse power, spindle speed of machine.
 - c.加工條件及加工精度 Grinding conditions.
- 3.若自行設計砂輪, 則告知如下例: If you have your own design, please order as below :

14AI, 350D-10U-5X-25T-250J-127H, SDC 150N75R5.0, 濕磨 Wet grinding

規格 Specifications

單位 Unit:mm

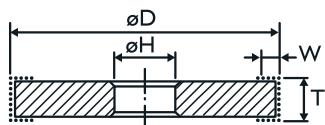
IIC9碗型砂輪



編號 Order no.	D	T	W	H	U	粒度 Grit size
WC-I005A	100	22	10	20	5	#100*
WC-I005B	100	35	10	20	5	#100*
WC-I005C	100	35	10	19.05	5	#100*
WC-I605A	100	35	16	20	5	#200*
WC-2005A	100	35	20	20	5	#200*

適合鈷鋼工具之研磨，成型用。 Ideal for carbide tool's grinding, forming and sharpening.

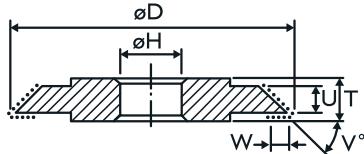
IAIU



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

適合鈷鋼刀具之研磨，成型用。 Ideal for carbide tool's sharpening.

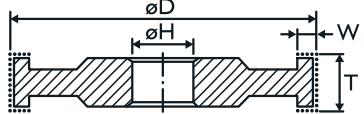
I4YI



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

適合鈷鋼刀具之研磨，成型用。 Ideal for carbide tool's sharpening.

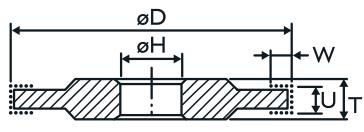
I4AI, I4AIU



編號 Order no.	D	T	W	H	粒度 Grit size
WS-0625A	150	25	-	25.4	#60*
WS-0625B	150	25	5	25.4	#60*

適合寶石、半寶石、石材研磨，成型用。 Ideal for carbide gem stone and stones grinding.

I4AIU



編號 Order no.	D	U	T	E	W	H	粒度 Grit size
WS-7063A	175	6	10	-	3	31.75	#200*
WS-7073A	175	7	10	-	3	31.75	#200*
WS-7083A	175	8	10	-	3	31.75	#200*
WS-7093A	175	9	10	-	3	31.75	#200*
WS-7103A	175	-	10	9.8	3	31.75	#200*
WS-7113A	175	-	11	10	3	31.75	#200*
WS-7123A	175	-	12	10	3	31.75	#200*
WS-7133A	175	-	13	10	3	31.75	#200*
WS-7143A	175	-	14	10	3	31.75	#200*
WS-7153A	175	-	15	10	3	31.75	#200*
WS-7163A	175	-	16	10	3	31.75	#200*

適合鐵粉心之研磨，成型用。 Ideal for ferrite core grinding.

說明：“*” 標準粒度，其餘粒度請指明訂購

樹脂鑽石砂輪

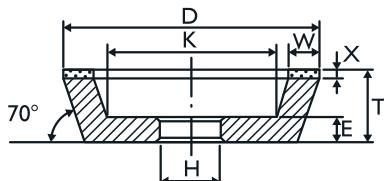
宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Resinoid Diamond & CBN Wheels

規格 Specifications

單位 Unit:mm

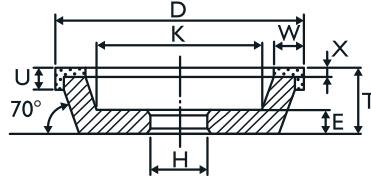
I1A2



編號 Order no.	D	W	X	T	H	粒度 Grit size
RD-04082A	100	8	2	40	20	SDC-I50*
RD-04103A	100	10	3	30	20	SDC-200*
RD-04103C	100	10	3	30	19.05	SDC-200*

適用於工具磨床，鎢鋼刀具研磨及成型
Apply on tool grinding machine, to grind or form the carbide tools.

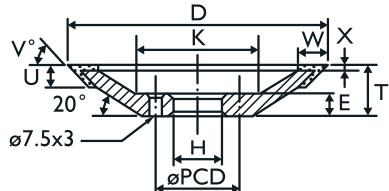
I1C9



編號 Order no.	D	W	X	U	T	H	粒度 Grit size
RD-04815A	100	8	1	5	40	20	SDC-I50*

適用於工具磨床，鎢鋼刀具研磨及成型
Apply on tool grinding machine, to grind or form the carbide tools.

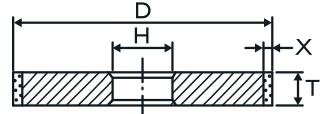
I2Y9C



編號 Order no.	D	W	U	X	T	H	V°	形狀	粒度 Grit size
RD-05815A	125	8	-	1	16	25	-	I2A2C	SDC-400*
RD-05815B	125	8	5	1	16	25	60°	I2Y9C	SDC-600*
RD-05815C	125	8	5	1	16	25	45°	I2Y9C	SDC-400*

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.

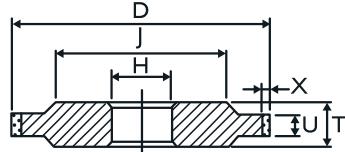
I4I



編號 Order no.	D	U	X	T	H	形狀	粒度 Grit size
RD-06033A	150	3	3	10	31.75	I4AI	SDC-150*
RB-06033A	150	3	3	10	31.75	I4AI	BC-150*
RD-06063A	150	6	3	10	31.75	I4AI	SDC-150*
RB-06063A	150	6	3	10	31.75	I4AI	BC-150*
RD-06083A	150	8	3	10	31.75	I4AI	SDC-150*
RD-06103A	150	-	3	10	31.75	I4AI	SDC-150*
RB-06103A	150	-	3	10	31.75	I4AI	BC-150*
RD-07063A	175	6	3	10	31.75	I4AI	SDC-150*
RD-07103A	175	-	3	10	31.75	I4AI	SDC-150*
RB-07103A	175	-	3	10	31.75	I4AI	BC-150*
RB-07133A	175	-	3	13	31.75	I4AI	BC-150*

適用於平面磨床、研磨鎢鋼、陶瓷 (SDC) 或硬化鋼材 (BC)
Apply on surface grinding machine, to grind carbide(SDC)or hardened steels(BC).

I4AI



編號 Order no.	D	T	X	H	粒度 Grit size
RD-06017A	150	1.0	7	31.75	SDC-120*
RB-06017A	150	1.0	7	31.75	BC-120*
RD-06017B	150	1.0	7	19.05	SDC-120*

適用於平面磨床 (Ø31.75孔) 或沖頭切斷機 (Ø19.05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)

說明：“*”標準粒度, 其餘粒度請指明訂購 Note:“*”Standard grit size,others depend on your request.

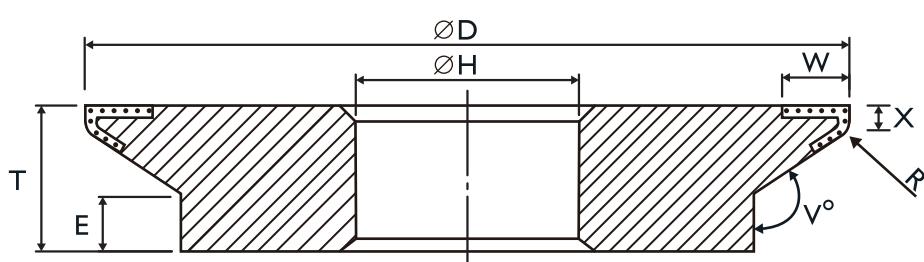


工藝 介紹	反轉電鑄	燒結
介紹	使用反轉電鑄將鑽石附著在台金表面，使每一粒磨料在研磨時都能積極參與研磨過程，擁有較長的使用壽命。	將預製好的滾輪安裝在模具中，倒入鑽石與結合劑混和的磨料後進行高溫高壓燒結。 待冷卻後修整露出鑽石晶粒。相比於僅晶粒厚度，該工法磨料厚度可達2-3mm。 常以修整滾輪或修整碗型的造型製作。
適合	對工件有嚴格公差要求的物件，非常適合精細的型材。	對精度要求不高的簡單型材，可以使型材長期保持原始形狀。適用於修整陶瓷法的CBN砂輪。
鑽石 選擇	天然/人造	天然/人造/CVD
鑽石 排列	規則/不規則	

介紹：使用鑽石修整滾輪進行砂輪整形時，能夠為製程最佳化提供最佳解決方案，多應用於高精度需求之成形研磨砂輪的修整（材質：氧化鋁、碳化矽、CBN砂輪等）。

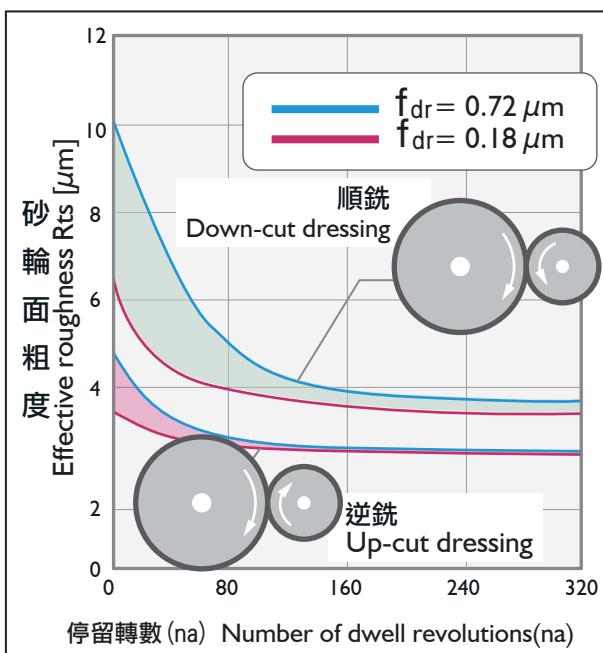
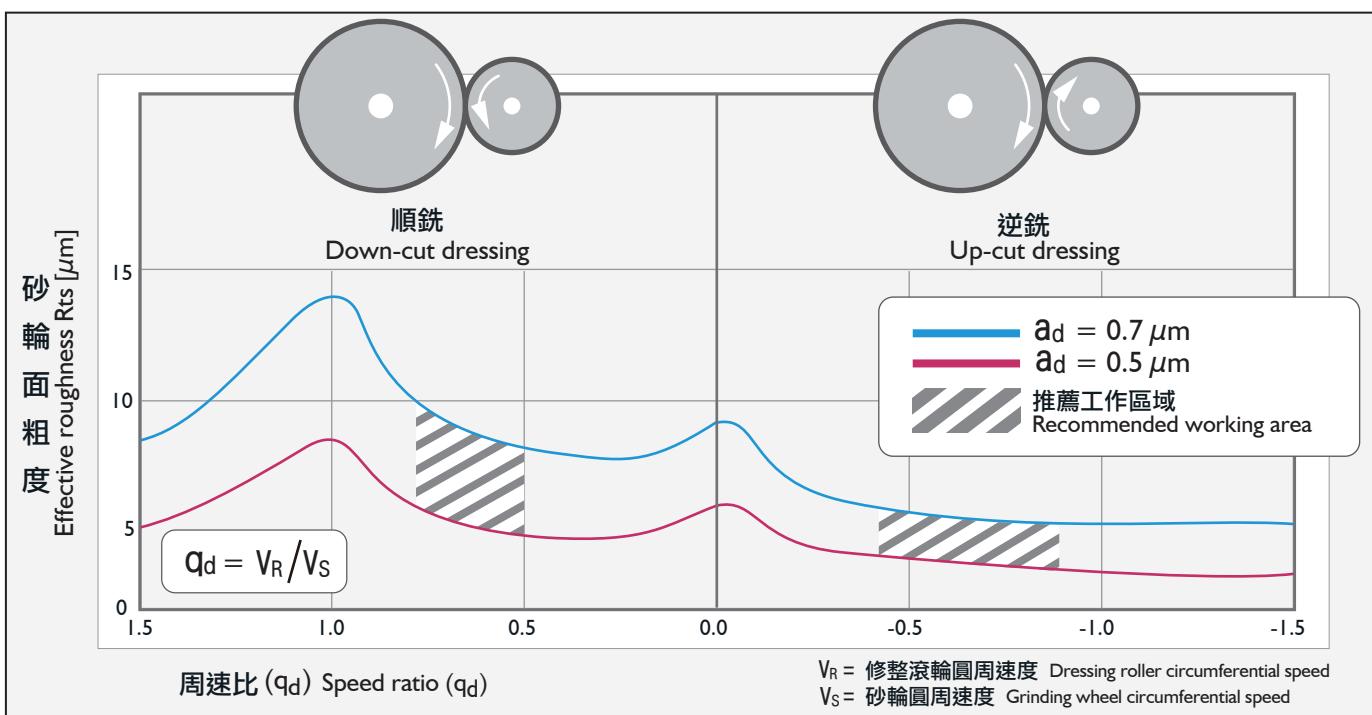
適用於：軸承、滾珠螺桿、滑軌、齒輪、刀治具、汽車及航太零件等產業之精密元件。在成形或批量研磨加工時維持砂輪形狀精度的自動化修整作業。

來圖範例：



如需客訂歡迎與業務洽詢

Diamond Roller



砂輪修整面粗度的4大影響數值

速比(q_d): 面粗度的影響最大，該值是透過修整滾輪的週轉速與砂輪的週轉數相除獲得的。

※請勿使用1或接近1的速度比，這樣的修整容易使砂輪消耗過快或導致滾輪損壞。

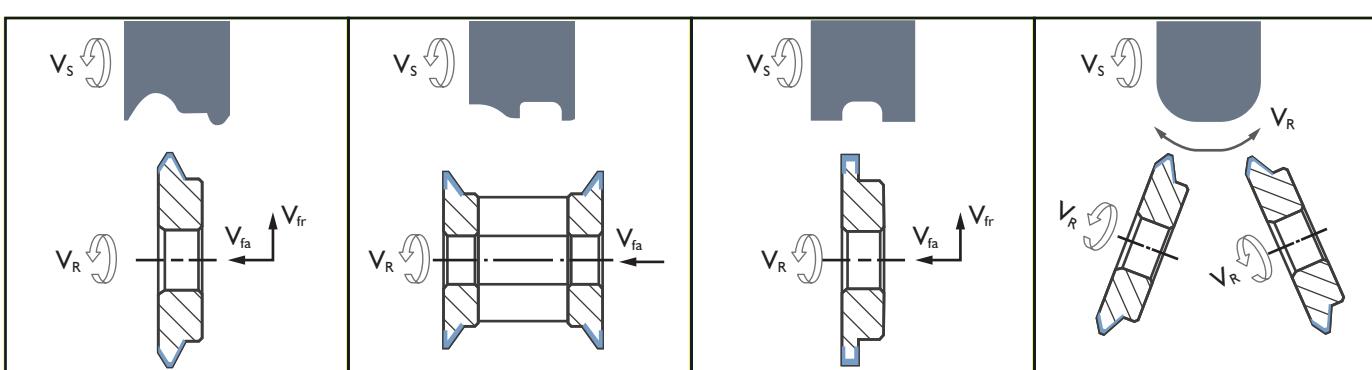
軸向進給速度(V_f): 能夠有效影響面粗度，一般而言粗磨修整為100-300mm/min；精磨修整為30-100mm/min。

停留轉數(na): 如左圖，轉速越低，面粗度越大；轉速越高，面粗度越低。當順銑的停留轉數約為150轉，逆銑的停留轉數約為50轉時，再進一步減少這些值會變得困難。

※儘管可能出現磨削燒傷的情況，也建議保持較低的停留轉數，但當面粗度較高時，應適當提高停留轉數。

進給數率(Ad): 砂輪每轉一圈滾輪徑向前進的量，如上圖。建議進給量以砂輪每圈0.25-0.5um進給。連續修整時，刀具以砂輪每轉0.2um的速率連續進給。

※修整時，進給量主要取決於修整滾輪的類型、所需要的砂輪輪廓、切削條件、粗磨還細磨，由於應用條件眾多，我們只能建議粗磨以0.1-0.5mm為標準，精磨以0.005-0.05mm為標準。



應用方法根據所需的砂輪輪廓，選擇不同類型的滾輪

鑽石毛刷(輪)

Diamond Nylon Brush / Wheel



產品適用範圍

- 1.硬質合金，如：碳化鈦，碳化鈮等難加工之材料研拋及倒角(鈍化)可提高刀具壽命和穩定性
- 2.藍寶石玻璃及寶石之研磨拋光
- 3.光學用藍玻璃毛邊拋修
- 4.太陽能矽晶塊研磨拋光
- 5.不規則形狀之工件研拋加工，如玉石雕像，大型石雕等難拋光之工件

產品使用之優越能

- 1.使用於超精密加工工程
- 2.具有極佳的研磨效果
- 3.具較長之平均使用期限
- 4.可運用於嚴苛之酸鹼環境，亦可耐高溫至270°C，及具有抗靜電之能力
- 5.不同於傳統砂輪，可加工不規則形體之工件
- 6.不同於傳統砂輪，加工硬脆材料時，不容易產生崩角或微裂痕
- 7.在加工工件時，對工件本身所殘留的內應力較小

Applications

This product can apply on super hard materials such as Titanium Carbide, Ceramic, Tungsten Carbide, Sapphire and jewelry, Blue Filter Glass, Solar Silicon Wafer etc., and can polish on irregular surface such as jade statue, stone sculpture which are difficult to process.

Advantage

- 1.Suitable for those precision projects, can have excellent polishing effect, and have longer product life.
- 2.Can sustain extreme acid and alkali treatment, high temperature up to 270°C and have anti-static ability.
- 3.Unlike traditional grindstone wheel, diamond brush(wheel) is capable to deal with irregular surface; moreover, and not likely to cause chipping.
- 4.The residual stress is lesser when applying on the object.

可供應毛刷之粒度表

規格 Specifications

Grit Size
#200
#400
#600
#800
#1000
#2000
#3000
#8000



桌上型旋轉毛刷機 Bench Brushing Machine



規格 Specification

外型尺寸 Appearance size: 500*310*315 mm

重量 Weight: 15 kg

電源(選配) Power supply(Optional): 110 or 220 V

轉速 Rotational Speed: 1240~4500 rpm

最大拋光輪尺寸 Brushes diameter(max): 127 mm



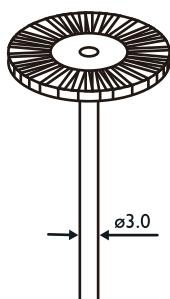
鑽石毛刷 (輪)

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Diamond Nylon Brush / Wheel

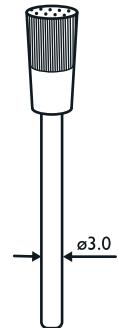
DBT系列

型號	番號 No.	柄徑(mm)
DBT-200	#200	ø3.0
DBT-400	#400	ø3.0
DBT-600	#600	ø3.0
DBT-800	#800	ø3.0
DBT-1000	#1000	ø3.0
DBT-2000	#2000	ø3.0
DBT-3000	#3000	ø3.0
DBT-8000	#8000	ø3.0



DB系列

型號	番號 No.	柄徑(mm)
DB-200	#200	ø3.0
DB-400	#400	ø3.0
DB-600	#600	ø3.0
DB-800	#800	ø3.0
DB-1000	#1000	ø3.0
DB-2000	#2000	ø3.0
DB-3000	#3000	ø3.0
DB-8000	#8000	ø3.0



商品特色：

- 需搭配電動研磨機
- 適用硬質類物品：翡翠、水晶、鎢鋼、鈦合金等
- 可克服部分不規則面：鈍化、研磨、拋光
- 尼龍材質，柔軟、耐磨
- 無需另外添加磨料，更環保
- 台灣研發製造

Product features:

- Requires an electric grinder.
- Suitable for hard items: jade, crystal, tungsten steel, titanium alloy, etc.
- Can passivate, grind and polish some irregular surfaces.
- Nylon material, soft and wear-resistant.
- No need to add abrasives, more environmentally friendly.
- Made in Taiwan.

產品注意事項：

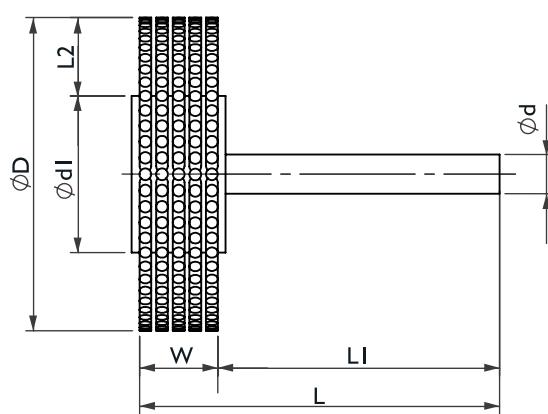
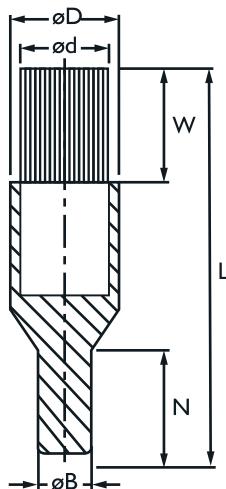
- 請勿大力擠壓刷毛以免變形
- 可視情況加水、油降溫以免融掉結塊



直柄鑽石研磨刷五金規格

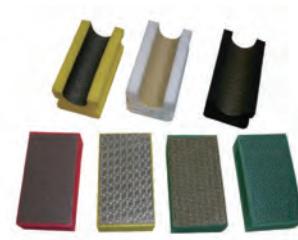
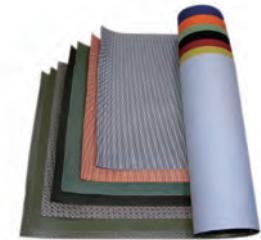
規格 Specifications							單位 Unit: mm	番號 No.
編號 Order no.	øD	ød	W	N	L	øB	番號 # 選擇	
DB6-10D	10	8	25	20	70	6	#200	
DB6-12D	12	10	25	20	70	6	#400	
DB6-16D	16	13	25	20	70	6	#600	
DB6-19D	19	16	25	20	70	6	#800	
DB6-22D	22	19	25	20	70	6	● #1000	
DB6-25D	25	23	25	20	70	6	#2000	
							#3000	
							★ #8000	

標準W: 25mm ● 有粗細 ★ 非常備品，請與業務洽詢



規格 Specifications								單位 Unit: mm	番號 No.
編號 Order no.	øD	ød	ød1	W	L1	L2	L	#	
DBT25-L6	25.4	6	13	8	31	6.2	46	#200	
DBT38-L6	38.1	6	26	8	31	6.1	46	#400	
DBT38-L9	38.1	6	20	8	31	9.1	46	#600	
DBT38-L12	38.1	6	13	8	31	12.6	46	#800	
DBT50-L7	50.8	6	35	8	31	7.9	46	● #1000	
DBT50-L12	50.8	6	26	8	31	12.4	46	#2000	
DBT50-L15	50.8	6	20	8	31	15.4	46	#3000	
DBT63-L9	63.5	6	45	8	31	9.3	46	★ #8000	
DBT63-L14	63.5	6	35	8	31	14.3	46		

※產品如有更新換代，可能與以上尺寸有些微誤差，歡迎與業務聯繫洽詢



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鑄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。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，因此研磨時不易塞目。且研磨後的工件表面非常均勻，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示區別，它可為片狀亦可將背膠作成環帶狀。

用途：鑽石布的運用很廣泛，例如：大理石，花崗石...等石材，可加工任何硬度之硬質鋼材，如：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 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.

Applications :

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

粒度 Grit size	標示顏色 Color	結合劑 Bond Material	尺寸與編號 Dimensions & Order No.			
			50 X 100	100 X 100	1,170 X 295	690 X 295
#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

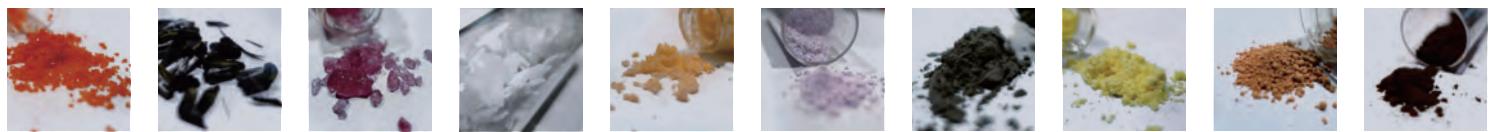
說明 Remark

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

稀有原物料

H 宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Rare Earth Materials



氧化類 (Oxidation)	氧化鑭(La_2O_3)、氧化鈦(CeO_2)、氧化鑑鉻($(\text{PrNd})_x\text{O}_y$)、氧化釔(Y_2O_3)、氧化釤(Sm_2O_3)、氧化釔(Eu_2O_3)、氧化鋯(Tb_2O_7)、氧化鑪(Dy_2O_3)、氧化釔(Ho_2O_3)、氧化鉿(Er_2O_3)、氧化釔(Gd_2O_3)、氧化鑪(Pr_6O_{11})、氧化釔(Nd_2O_3)、氧化鑪(Tm_2O_3)、氧化鑪(Yb_2O_3)、氧化鑪(Lu_2O_3)、氧化釔(Sc_2O_3)
氯化類 (Chlorinated)	氯化鑭($\text{LaCl}_3 \cdot x\text{H}_2\text{O}$)、氯化鈦($\text{CeCl}_3 \cdot x\text{H}_2\text{O}$)、氯化鑪($\text{PrCl}_3 \cdot x\text{H}_2\text{O}$)、氯化釔($\text{NdCl}_3 \cdot x\text{H}_2\text{O}$)、氯化釤($\text{YCl}_3 \cdot x\text{H}_2\text{O}$)、氯化釤($\text{SmCl}_3 \cdot 6\text{H}_2\text{O}$)、氯化釔($\text{EuCl}_3 \cdot 6\text{H}_2\text{O}$)、氯化鋯($\text{TbCl}_3 \cdot x\text{H}_2\text{O}$)、氯化鑪($\text{DyCl}_3 \cdot 6\text{H}_2\text{O}$)、氯化鉿($\text{ErCl}_3 \cdot x\text{H}_2\text{O}$)、氯化釔($\text{GdCl}_3 \cdot x\text{H}_2\text{O}$)、氯化鑪($\text{TmCl}_3 \cdot x\text{H}_2\text{O}$)、氯化鑪($\text{YbCl}_3 \cdot x\text{H}_2\text{O}$)、氯化鑪($\text{LuCl}_3 \cdot 6\text{H}_2\text{O}$)
無水氯化類 (Anhydrous chlorinated)	無水氯化鑭(LaCl_3)、無水氯化鈦(CeCl_3)、無水氯化鑪(PrCl_3)、無水氯化釔(NdCl_3)、無水氯化釔(EuCl_3)
氟化類 (Fluorinated)	氟化鑭(LaF_3)、氟化鈦(CeF_3)、氟化鑪(PrF_3)、氟化釔(NdF_3)、氟化釤(YF_3)、氟化釤(SmF_3)、氟化釔(TbF_3)、氟化鑪(DyF_3)
氫氧化類 (Hydroxide)	氫氧化鑭($\text{La}(\text{OH})_3$)、氫氧化鈦($\text{Ce}(\text{OH})_4$)、氫氧化鑪($\text{Pr}(\text{OH})_3$)、氫氧化釔($\text{Sm}(\text{OH})_3 \cdot x\text{H}_2\text{O}$)、氫氧化釔($\text{Nd}(\text{OH})_3$)、氫氧化釔($\text{Eu}(\text{OH})_3$)
金屬類 (Metal)	金屬鑭(La)、金屬鈦(Ce)、金屬鑪(Pr)、金屬釔(Nd)、金屬釤(Sm)、金屬釔(Gd)、金屬釔(Tb)、金屬鑪(Dy)、金屬鑪鐵(Dy-Fe)、金屬釔(Ho)、金屬釔鐵(Ho-Fe)、金屬釔(Tm)、金屬鑪(Yb)、金屬釔(Y)、金屬鑪(Lu)
硝酸類 (Nitric Acid)	硝酸鑭($\text{La}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$)、硝酸鈦($\text{Ce}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$)、硝酸鑪($\text{Pr}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$)、硝酸釔($\text{Nd}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$)、硝酸釤($\text{Sm}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$)、硝酸釔($\text{Eu}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$)、硝酸釔($\text{Gd}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$)、硝酸釔($\text{Tb}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$)、硝酸釔($\text{Dy}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$)、硝酸釔($\text{Ho}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$)、硝酸釔($\text{Er}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$)、硝酸釔($\text{Tm}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$)、硝酸釔($\text{Yb}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$)、硝酸釔($\text{Y}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$)、硝酸鑪($\text{Lu}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$)、硝酸鈰錳($(\text{NH}_4)_2\text{Ce}(\text{NO}_3)_6$)
醋酸類 (Acetic acid)	醋酸鑭($\text{La}(\text{CH}_3\text{COO})_3 \cdot x\text{H}_2\text{O}$)、醋酸鈦($\text{Ce}(\text{CH}_3\text{COO})_3 \cdot x\text{H}_2\text{O}$)、醋酸鑪($\text{Pr}(\text{CH}_3\text{COO})_3 \cdot x\text{H}_2\text{O}$)、醋酸釔($\text{Nd}(\text{CH}_3\text{COO})_3 \cdot x\text{H}_2\text{O}$)、醋酸釤($\text{Sm}(\text{CH}_3\text{COO})_3 \cdot x\text{H}_2\text{O}$)、醋酸釔($\text{Eu}(\text{CH}_3\text{COO})_3 \cdot x\text{H}_2\text{O}$)、醋酸釔($\text{Gd}(\text{CH}_3\text{COO})_3 \cdot x\text{H}_2\text{O}$)、醋酸釔($\text{Tb}(\text{CH}_3\text{COO})_3 \cdot x\text{H}_2\text{O}$)、醋酸釔($\text{Dy}(\text{CH}_3\text{COO})_3 \cdot x\text{H}_2\text{O}$)、醋酸釔($\text{Y}(\text{CH}_3\text{COO})_3 \cdot x\text{H}_2\text{O}$)
草酸類 (Oxalic acid)	草酸鑭($\text{La}_2(\text{C}_2\text{O}_4)_3 \cdot x\text{H}_2\text{O}$)、草酸鈦($\text{Ce}_2(\text{C}_2\text{O}_4)_3 \cdot x\text{H}_2\text{O}$)、草酸鑪($\text{Pr}_2(\text{C}_2\text{O}_4)_3 \cdot x\text{H}_2\text{O}$)、草酸釔($\text{Nd}_2(\text{C}_2\text{O}_4)_3 \cdot x\text{H}_2\text{O}$)、草酸釤($\text{Sm}_2(\text{C}_2\text{O}_4)_3 \cdot x\text{H}_2\text{O}$)、草酸釤($\text{Gd}_2(\text{C}_2\text{O}_4)_3 \cdot x\text{H}_2\text{O}$)、草酸釤($\text{Tb}_2(\text{C}_2\text{O}_4)_3 \cdot x\text{H}_2\text{O}$)、草酸鑪($\text{Dy}_2(\text{C}_2\text{O}_4)_3 \cdot x\text{H}_2\text{O}$)、草酸鑪($(\text{PrNd})_x(\text{C}_2\text{O}_4)_y$)
碳酸類 (Carbonic acid)	碳酸鑭($\text{La}_2(\text{CO}_3)_3 \cdot x\text{H}_2\text{O}$)、碳酸鈦($\text{Ce}_2(\text{CO}_3)_3 \cdot x\text{H}_2\text{O}$)、碳酸鑪($\text{Pr}_2(\text{CO}_3)_3 \cdot x\text{H}_2\text{O}$)、碳酸釔($\text{Nd}_2(\text{CO}_3)_3 \cdot x\text{H}_2\text{O}$)、碳酸釤($\text{Sm}_2(\text{CO}_3)_3 \cdot x\text{H}_2\text{O}$)、碳酸鑪($(\text{PrNd})_x(\text{CO}_3)_y$)
硫酸類 (Sulfuric acid)	硫酸高鈦($\text{Ce}(\text{SO}_4)_2 \cdot x\text{H}_2\text{O}$)
其它 (Other)	碳化矽(SiC)、氧化鋁(Al_2O_3)、氧化鋯(ZrO_2)、鈦酸鉿(BaTiO_3)、奈米金屬粉(Nano metal powder)、鎳包碳化矽(Ni coated SiC)、銅包碳化矽(Co coated SiC)、防偽螢光粉(Anti-counterfeiting fluorescent powder)、cBN立方氮化硼、銅錫粉(Copper tin powder)、燒結粉(Sintered powder)、多晶/單晶鑽石粉(Polycrystalline/Monocrystalline diamond powder)、各類鑽石粉末(Various diamond powders)

※ 是否可以進出口會依據海關相關規定而定。

※ 如需訂購，請洽業務。

※ Whether import or export is permitted depends on customs regulations.

※ Please contact sales for orders.

可依客戶需求調整各種純度、規格

Various purity and specifications can be adjusted according to your needs.



AR-800(P)



AP-200(Brush Type Only)



U-Lap 60 , 50 , 35

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。主機設計以前產地都是台灣製造，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。

特長:

*強勁的輸出功率:無刷機型最大250網的輸出功率;有刷機型最大150瓦的輸出功率，提供有效且快速支加工業。

*可接受廣域的輸出電壓: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。

*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。

*系統自動偵測:先進的高效率微處理可隨時偵測手機狀況，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，已發揮手機之最佳操作性能。

運用:

各種模具支研磨及拋光。

需要精準控制轉速的加工。

雕刻硬脆材料，話其他需要高轉速的加工。

石頭、玻璃、寶石等之精細研磨或拋光。

工作環境需安靜的場合最為適合。

Brand-new design, with its powerful output and 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.

Features:

*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.

*Wide ranges of input voltage are acceptable : Power AC60-260V, 60/60 Hz are all acceptable for our models. No need to worry about the inconsistent power supply.

*Overload protection prevents : Built-in overload protection prevents the hand piece from damage during an overloading.

* 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.

Applications:

*For polishing & Grinding of the mold & die.

*Require precise speed control while processing (the work-piece).

*For carving hard & brittle materials or work-piece requiring high-speed procession.

*For fine engraving or polishing of stone, glass and jewelry.

*You can immediately operate the machine by plugging in the power supply. It is highly recommended if the working environment requires serenity.

旋轉式電動工具-電源控制器

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Rotary Micromotor Controller



AR-800(P)

AR-800(P)雙功能輸出電源供應器 Dual-function Micromotor Controller		AR-800(P)內含配件 Include(Standard)
電源 Main supply	AC-90V ~ 250V, 50/60 Hz	
無刷輸出功率 Power of DC brushless	250watt	 腳踏開關 Foot Switch
無刷轉速 Speed of DC brushless	1,000 ~ 50,000 rpm	
有刷輸出功率 Power of DC brush	150watt(VA)	 電源線 Power Cond
有刷輸出電壓 Voltage output of DC brush	5 ~ 32V	
保險絲 Fuse	3.15A	
尺寸 Dimension	170x260x140mm(2.56kg)	

- * 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，調整最適合的轉速，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隨時偵測手機操作狀況，精準地控制各種手機之輸出，保戶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 brush and brushless motor hand Handpiece.
* Maximum power for hand piece with brush is 150 watt and 250 watt for brushless motor hand piece, providing high torque and optimal polishing performance.
* LEO 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.

AR-800(P)可選配手機 AR-800(P) Handpiece Optional		
	U-Lap 60 旋轉手機(無刷型)	Rotary Handpiece(DC Brushless Type) 轉速Speed:50,000rpm 扭力Torque:7.8Ncm 尺寸Size:ø29x161mm 重量Weigh:250g
	U-Lap 50 旋轉手機(有刷型)	Rotary Handpiece(DC Brush Type) 轉速Speed:40,000rpm 扭力Torque:4.5Ncm 尺寸Size:ø29x153mm 重量Weigh:260g
	U-Lap 35 旋轉手機(有刷型)	Rotary Handpiece(DC Brush Type) 轉速Speed:35,000rpm 扭力Torque:2.9Ncm 尺寸Size:ø29x152mm 重量Weigh: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)



HANDY-700

HANDY-700電源控制器 Brushless Rotary Micromotor Controller		HANDY-700內含配件 Include(Standard)
電源 Main supply	AC-110/220V,50/60 Hz	 腳踏開關 Foot Switch
輸出功率 Power of DC brushless	230watt	 電源線 Power Cond
轉速 Speed Range	1,000 ~ 50,000 rpm	
保險絲 Fuse	3A	
尺寸 Dimension	210x135x188mm(2.4kg)	

- * 轉速指數表(無段變速系統設計輸出從1,000到50,000轉)
- * 高扭力、低噪音、低振頻
- * 負載自動保護系統
- * 使用陶瓷培林、耐磨低消耗
- * 具有正逆轉功能
- * 手動/腳踏轉速控制系統
- * 具雙功能雙孔裝置(無碳刷/有刷手機)

- * Digital speed display window.
- * Maximum speed set mode possible.
- * Lowest noise, lowest vibration.
- * Self-diagnosis function.
- * Ceramic ball bearing.
- * Error code display, Auto-cruise function.
- * Vertical & easy-carry system.

HANDY-700可選配手機 HANDY-700 Handpiece Optional		
	U-Lap 60 旋轉手機(無刷型)	Rotary Handpiece(DC Brushless Type) 轉速Speed:50,000rpm 扭力Torque:7.8Ncm 尺寸Size:ø29x161mm 重量Weigh:250g
	U-Lap 50 旋轉手機(有刷型)	Rotary Handpiece(DC Brush Type) 轉速Speed:40,000rpm 扭力Torque:4.5Ncm 尺寸Size:ø29x153mm 重量Weigh:260g
	U-Lap 35 旋轉手機(有刷型)	Rotary Handpiece(DC Brush Type) 轉速Speed:35,000rpm 扭力Torque:2.9Ncm 尺寸Size:ø29x152mm 重量Weigh:230g

* 全部手機皆為選配商品，HANDY-700 內未包含，下單時請注意。All handpiece are Optional accessory, did not include in HANDY-700.

旋轉式電動工具-電源控制器

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Rotary Micromotor Controller



HANDY-ECO

HANDY-ECO電源控制器 Brushless Rotary Micromotor Controller		HANDY-ECO內含配件 Include(Standard)
電源 Main supply	100-120V/200-240V,50/60 Hz	 變速控制踏板 (FS6ON) Variable speed control pedal (FS6ON)
輸出功率 Power of DC brushless	140watt	 電源線 Power Cond
轉速 Speed Range	1,000 ~ 50,000 rpm	
尺寸 Dimension	141x185x97mm(1.6kg)	

作為無刷的非常高的功率控制器，Handy-Eco 最引以為豪的是它的空間垂直和水平樣式的應用程序。它有一個圓形支架，可以將手持機放置在機台上。您可以輕鬆地將 Handy-Eco 移動到任何地方，它會是供高品質工作的無刷控制器。可以通過一個控制速度的手控旋鈕，準確並安全作業。

特色

- * 自動安全過載保護系統
- * 數顯速度顯示窗
- * 變速控制踏板 (FS6ON)
- * 可以側放。

Needless to say its very high power as a brushless controller, Handy-Eco is most proud of its space applications for both vertical and horizontal style. It has a round cradle for a motor handpiece with a digital LCD. You can easily move Handy-Eco to anywhere, providing its high quality as a brushless controller. And it can control the speed through a hand dial, targeting at a safety work.

Features

- * Automatic safety overload protection system
- * Digital speed display window
- * Variable speed control pedal (FS6ON)
- * Can be laid on the side.

HANDY-ECO可選配手機 HANDY-ECO Handpiece Optional

	U-Lap 60 旋轉手機(無刷型)	Rotary Handpiece(DC Brushless Type) 轉速Speed:50,000rpm 尺寸Size:ø29x161mm 扭力Torque:7.8Ncm 重量Weigh:250g
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* 全部手機皆為選配商品，HANDY-ECO內未包含，下單時請注意。All handpiece are Optional accessory, did not include in HANDY-ECO.

Rotary Micromotor Controller



AP-200

AP-200有刷多功能輸出電源供應器

Multiple Functional Brush Rotary Power Controller

電源 Main supply	AC-90V ~ 250V, 50/60 Hz
無刷輸有刷輸出功率 Power of DC brush	70watt
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	192x156x98mm(800g)

AP-200內含配件 Include(Standard)



電源線 Power Cond

● 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.



- * 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 three 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.

AP-200可選配手機 AR-800(P) Handpiece Optional

	U-Lap 50 旋轉手機(有刷型)	Rotary Handpiece(DC Brush Type) 轉速Speed:40,000rpm 扭力Torque:4.5Ncm 尺寸Size:Ø29x153mm 重量Weigh:260g
	U-Lap 35 旋轉手機(有刷型)	Rotary Handpiece(DC Brush Type) 轉速Speed:35,000rpm 扭力Torque:2.9Ncm 尺寸Size:Ø29x152mm 重量Weigh: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

電動旋轉手機

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Rotary Handpiece

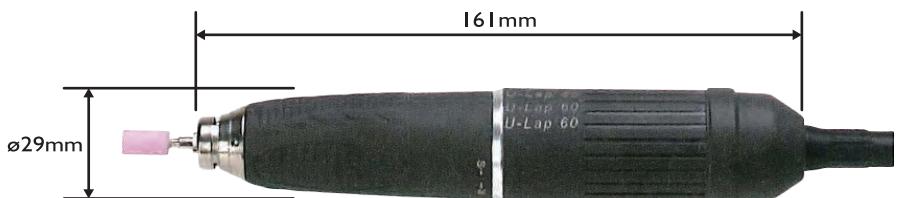
U-Lap 60 無刷旋轉手機/高扭力高轉速型

Rotary Handpiece(Brush Type) / High Torque & Speed Type

可更換夾頭: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.

可對應之電源供應器
Optional Power Controller



轉速Speed:50,000rpm
扭力Torque:7.8Ncm
尺寸Size:Ø29x161mm
重量Weigh:250g

內容物:
include:



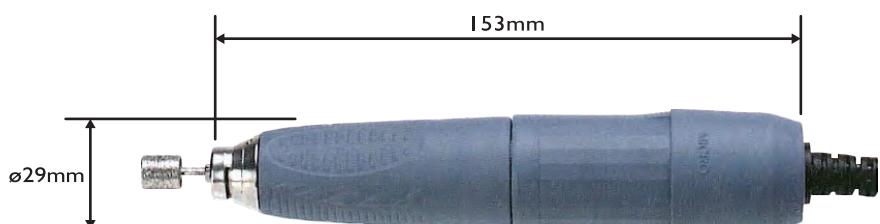
U-Lap 50 有刷旋轉手機/高轉速型

Rotary Handpiece(Brush Type) / High Speed Type

可更換夾頭: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.

可對應之電源供應器
Optional Power Controller



轉速Speed:40,000rpm
扭力Torque:4.5Ncm
尺寸Size:Ø29x153mm
重量Weigh:260g

內容物:
include:



U-Lap 35 有刷旋轉手機/經濟型

Rotary Handpiece(Brush Type) / Economic Type

可更換夾頭: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.

可對應之電源供應器
Optional Power Controller



轉速Speed:35,000rpm
扭力Torque:2.9Ncm
尺寸Size:Ø29x152mm
重量Weigh:230g

內容物:
include:



超音波振動研磨機-規格

Ultrasonic Lapping Machine-Specification

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.

特長：* 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。

- * 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。
- * 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。
- * 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。

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

- * Auto feedback system : Machine itself will automatically adjust frequency according to different tools to get the best performance.
- * Electronic transformer with regulation: To maintain the machine in good performance and protect it from damage even at an unstable supply of electric voltage.
- * 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.

運用: * 各種磨具之研磨及拋光

- * 塑膠製品複雜、精細部位之切斷或去毛邊
- * 印刷電路板(PCB)電子迴路修改
- * 石頭、玻璃、寶石等之精細雕刻或拋光
- * 布、橡膠薄膜之切斷

Applications: * For polish and grinding of the mold & die.

- * For cutting and deburring of plastics on intricate area.
- * For correction of PCB patterns.
- * For fine engraving or polishing of stone,glass and jewelry.
- * For cutting of rubber film,clothe,etc.



AR-108



AR-600(E)



AR-600



AR-800

規格 Specifications		單位 Unit:mm		
編號 Order no.		AR-108	AR-600(E)	AR-600
電源控制器 Power Controller				
電源 Main supply		AC-90V~250V,50/60 Hz		
超音波輸出 Ultrasonic output	36 watts	45 watts	45 watts	
振頻 Vibration frequency	18~25 kHz	18~26 kHz	18~26 kHz	
振幅 Stroke amplitude	10~35μm	3~40μm	3~40μm	
振頻調整 frequency adjustment	自動追尋 auto-tarcng			
消耗功率 Power consumption	46 watts	80 watts	100 watts	300 watts
保險絲 Fuse	2A time-lag type	2A time-lag type		3A time-lag type
直流馬達輸出 Output of DC motor	無 None	5~30V		5~32V
有刷輸出功率 Power of DC brush	無 None	Max.60 watts		Max.150 watts
無刷輸出功率 Power of DC brushless	無 None	無 None	Max.100 watts	Max.250 watts
尺寸 Dimensions(WxDxH)	192x156x96mm	170x240x140mm		170x260x140mm
重量 Weight	0.7 kg	2.0 kg		2.72 kg
手機 Handpiece				
超音波手機 Ultrasonic handpiece	GS-H06	GS-H09		* GS-H26
尺寸 Dimensions(WxDxH)	30x131mm	30x131mm		26x125mm
重量 Weight	185g	210g		170g
旋轉手機 Rotary handpiece				
有刷手機 Brush handpiece	無 None	☆	☆	☆
無刷手機 Brushless handpiece	無 None	無 None	☆	☆

註: * 亦可選用GS-H09手機 Note: GS-H09 could be selected instead of the model.

★ 選購配備 Optional accessory

超音波振動研磨機

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Ultrasonic Lapping Machine

AR-800旗艦多功能型 Multi-function Flagship Type

- * 全新設計旗艦型機種，擁有最先進的多功能設計，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150瓦，提供各種手機有更高的扭力，發會其最佳的研磨效果。
- * 先進的高效率微處理器，使用超音波的拋光效果更加穩定，更有效率。
- * 在使用無刷手機時，LED轉速顯示讓您可依據各種不同的工具，調整最合適轉速，以達到最有效率且最有安全的研磨效果。
- * 每次啟動機器，系統會自動將轉速歸"零"避免因手機高速啟動而造成危險。
- * 本機之標準配備含有超音波手機(GS-H26)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 .250 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 hanpiece. 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 ultrasonic handpiece.



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

- * AR-600(E)為AR208・AR303之升級版。
- * 全新設計，採用高效率微處理器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。
- * 本機之標準配備含有超音波手機(GS-H09)及有刷旋轉手機(U-Lap35)各一支。
- * 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.45 watts Ultrasonic output makes polishing job more effective.
- * Brush DC motor output is 5-30 volt and output power is 60 watts.
- * This machine includes one each of ultrasonic and brushless handpiece.



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。
- * 本機之標準配備含有超音波手機(GS-H09)及有刷旋轉手機(U-Lap35)各一支。
- * 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.
- * This machine includes one each of ultrasonic and brushless handpiece.



AR-108單功能型 Single Function Practical Type

- * 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。
- * Ultrasonic lapping function only.
- * The machine provides reliable quality and good performance.
- * Max.40 Watts output that satisfy difference of polishing works.
- * It is not only effective for lapping task,but also good for correction of PCB patterns.



超音波振動研磨機 - 手機

Ultrasonic Lapping Machine-Handpiece

	編號 Order no.	規格 Specifications	適合機種 Application
	GS-H06	<p>超音波手機 Ultrasonic handpiece</p> <p>最大輸出 Max.output:40 watts</p> <p>尺寸 Size:ø30x130mm</p> <p>重量 Weigh:185g</p>	AR-108
	GS-H09	<p>超音波手機 Ultrasonic handpiece</p> <p>最大輸出 Max.output:45 watts</p> <p>尺寸 Size:ø33x146mm</p> <p>重量 Weigh:254g</p>	AR-800 AR-600 AR-600(E)
	GS-H26	<p>超音波手機 Ultrasonic handpiece</p> <p>最大輸出 Max.output:40 watts</p> <p>尺寸 Size:ø27x125mm</p> <p>重量 Weigh:150g</p>	AR-800
 旋轉手機(有刷型)	U-Lap 35	<p>Rotary handpiece(DC Brush Type)</p> <p>轉速 Speed:35,000rpm</p> <p>扭力 Torque:2.9Ncm</p> <p>尺寸 Size:ø29x152mm</p> <p>重量 Weigh:230g</p>	AP-200 AR-600 AR-600(E) AR-800 HANDY-700
 旋轉手機(有刷型)	U-Lap 50	<p>Rotary handpiece(DC Brush Type)</p> <p>轉速 Speed:40,000rpm</p> <p>扭力 Torque:4.5Ncm</p> <p>尺寸 Size:ø29x153mm</p> <p>重量 Weigh:260g</p>	AP-200 AR-600 AR-600(E) AR-800 HANDY-700
 旋轉手機(無刷型)	U-Lap 60	<p>Rotary handpiece(DC Brushless Type)</p> <p>轉速 Speed:50,000rpm</p> <p>扭力 Torque:7.8Ncm</p> <p>尺寸 Size:ø29x161mm</p> <p>重量 Weigh:250g</p>	AR-600 AR-800 AR-800(P) HANDY-700 HANDY-ECO

Air Grinders

UG-500 精密型 Precision type



轉速 Speed: 60,000rpm
重量 Weight: 110g
尺寸 Dimensions: Ø20x160L(mm)

- 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 Ø30mm，亦可選購 Ø2.34 或 Ø31.75mm 為夾頭

• High-torque, quiet-running and well balance.
• Ideal for precision grinding and finishing works.
• Replaceable collet chuck : Ø3.0mm is standard, the Ø2.34 and Ø3.175mm collet are optional.

UG-400 經濟型 Economic type



轉速 Speed: 60,000rpm
重量 Weight: 130g
尺寸 Dimensions: Ø17x159L(mm)

- 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 Ø30mm 夾頭，若須 Ø2.34 或 Ø31.75mm 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 : Ø3.0mm is standard, the tool with Ø2.34 and Ø3.175mm collet are optional.

UG-300 雙夾頭型 Dual-Collet type



轉速 Speed: 35,000rpm
重量 Weight: 170g
尺寸 Dimensions: Ø22x180L(mm)

- 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：標準為 Ø30/Ø60mm 夾頭，其他 Ø31.75/Ø6.35mm 為選購
- 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.

GP-522 平面研磨機 Angle Surface grinder



轉速 Free Speed at 90 psi: 22,000rpm
夾頭 Collet chuck: M7 螺桿 M7 screw shaft
重量 Weight: 200g
尺寸 Dimensions: Ø16.5x136L(mm)

- 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

• 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.

GP-260 精密型 Precision type



轉速 Speed: 60,000rpm
重量 Weight: 180g
尺寸 Dimensions: Ø17.5x142L(mm)

- 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 Ø3.0mm 夾頭，Ø2.34 或 Ø3.175mm 請指明選購

• Ideal for precision grinding and finishing works.
• Fixed type collet chuck: Ø3.0mm is standard, the tools with Ø2.34 or Ø3.175mm collet are optional.

GP-380 高速型 High speed type



轉速 Speed: 80,000rpm
重量 Weight: 160g
尺寸 Dimensions: Ø20.3x143L(mm)

- 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：標準品為 Ø3.0mm 夾頭，Ø2.34 或 Ø3.175mm 為選購

• High speed, quiet-running and well balance.
• Ideal for precision grinding and finishing works.
• Replaceable collet chuck: Ø3.0mm is standard, the collet of Ø2.34 or Ø3.175mm collet are optional.

AG-45 平面研磨機 Angle surface grinder



轉速 Speed: 23,500rpm
重量 Weight: 180g
尺寸 Dimensions: Ø17x153Lx50H(mm)

- 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.

AG-90 平面研磨機 Angle surface grinder



轉速 Speed: 23,500rpm
重量 Weight: 170g
尺寸 Dimensions: Ø17x140Lx39H(mm)

- 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

• 90 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.

Pneumatic (Reciprocating/Swing) Lappers

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

行程Stroke:0.15mm
轉速Speed:35,000spm
重量Weight:190g
尺寸Dimensions:ø28x200mm



- 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.

UTR-30 涡輪式氣動超音波 Turbo Air Lappers

行程Stroke:0.3mm
轉速Speed:30,000spm
重量Weight:220g
尺寸Dimensions:ø28x200mm



- 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.

UTR-70 涡輪式氣動超音波 Turbo Air Lappers

行程Stroke:0.7mm
轉速Speed:28,000spm
重量Weight:220g
尺寸Dimensions:ø28x200mm



- 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.

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

編號Order:UR-120
行程Stroke:1.2mm
轉速Speed:12,000spm
重量Weight:370g
尺寸Dimensions:30x208mm



編號Order:UR-300
行程Stroke:3.0mm
轉速Speed:10,000spm
重量Weight:370g
尺寸Dimensions:30x208mm

- 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.

US-70, US-100 左右橫擺氣動銼磨機 Swing Air Lappers

編號Order:US-70
行程Stroke:0.7mm
轉速Speed:15,000spm
重量Weight:305g
尺寸Dimensions:ø28x205mm



編號Order:US-100
行程Stroke:1.0mm
轉速Speed:11,000spm
重量Weight:305g
尺寸Dimensions:ø28x205mm

- 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 stroke.
• 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-200 左右橫擺氣動銼磨機 Swing Air Lappers

編號Order:US-200
行程Stroke:2.0mm
轉速Speed:16,000rpm
重量Weight:520g
尺寸Dimensions:ø34x205mm



- 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 stroke.
• Bigger swing stroke suit for lapping bigger surface and excellent for deburring or works of die casting parts.

附屬工具 Accessory Tools

電著銼刀 FA series



電著銼刀 MTP, MTF series



金屬結合銼刀 Sintered diamond file



超級纖維油石 Ceramic fiber stone



鑽石磨棒 Diamond mounted point



帶柄砂輪 Abrasive mounted point



超音波振動研磨機

H 宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Ultrasonic Lapping Machine

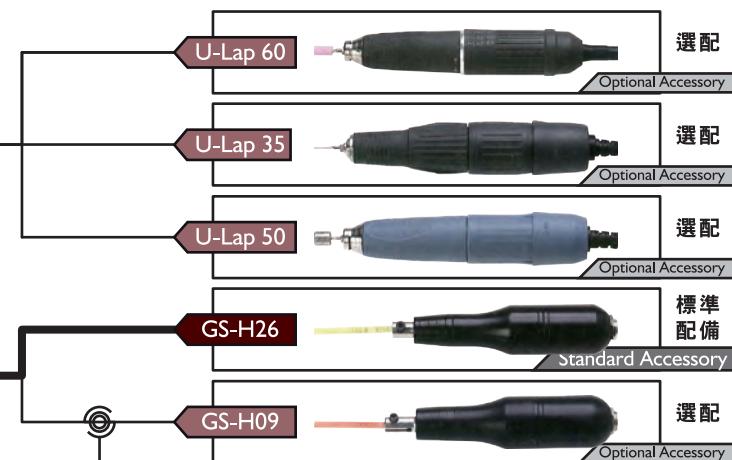
AR-800可搭配手機一覽表

Attachment Handpiece for AR-800



電動旋轉手機
Rotary Handpiece

超音波手機
Ultrasonic Handpiece



● 若要裝置GS-H09手機須轉換接頭 For connecting GS-H09 handpiece to AR-800

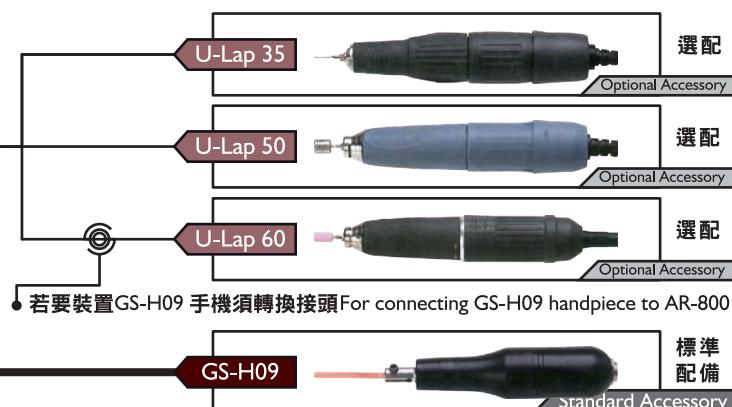
AR-600可搭配手機一覽表

Attachment Handpiece for AR-600



電動旋轉手機
Rotary Handpiece

超音波手機
Ultrasonic Handpiece



● 若要裝置GS-H09 手機須轉換接頭 For connecting GS-H09 handpiece to AR-800

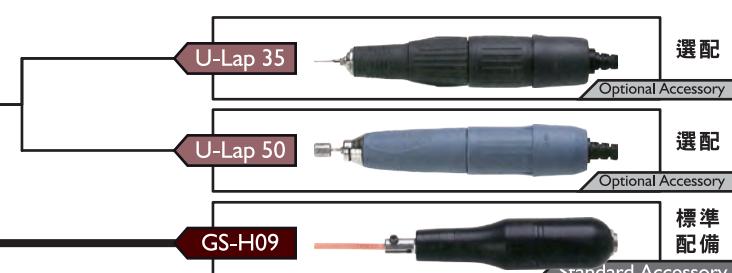
AR-600(E)可搭配手機一覽表

Attachment Handpiece for AR-600 (E)



電動旋轉手機
Rotary Handpiece

超音波手機
Ultrasonic Handpiece



AR-108可搭配手機一覽表

Attachment Handpiece for AR-108

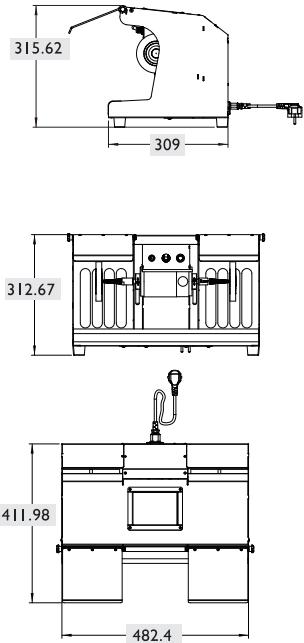
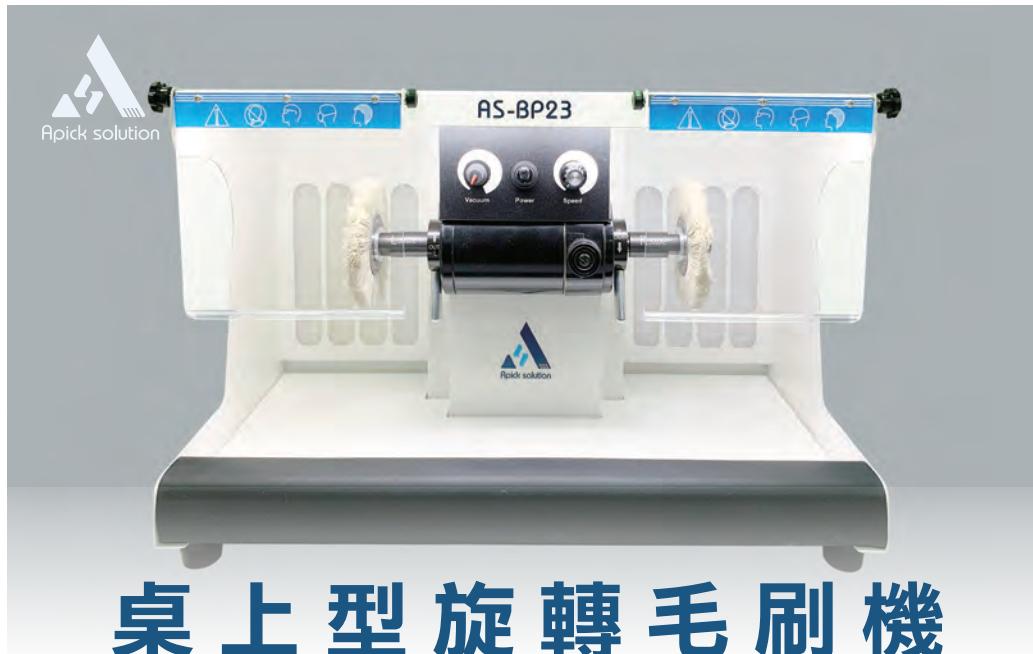


超音波手機
Ultrasonic Handpiece



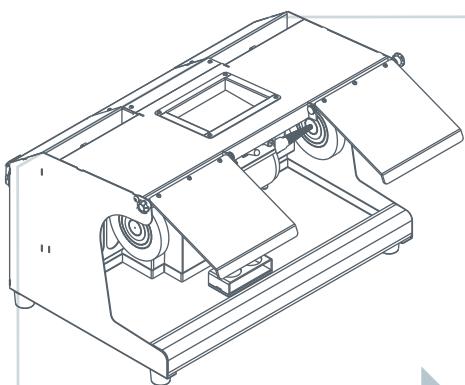
旋轉毛刷機

Variable Speed Brushing Machine



桌上型旋轉毛刷機

BENCH BRUSHING MACHINE



去毛邊

Deburring

倒角

Edge Honing

鈍化

Edge Preparation

拋光

Polishing

特點 Features

AS-BP23

“可依所需調節轉速”

“Adjustable rotational speed as needed”

“可更換多種研磨材質使用”

“Supports interchangeable grinding materials”

“具備粉塵分離的過濾系統”

“Filter system with dust separation”

“設置可調式壓克力保護罩”

“Equipped with adjustable acrylic protective shield”

“兩側設置PU靠墊，長時間較舒適作業”

“PU-cushioned sides for comfortable long-term use”

“設置Led燈照明，讓工作區更為明亮”

“Equipped with LED lighting for brighter workspace”

“輕巧方便且運行平穩又安靜”

“Portable, operates smoothly and quietly”

規格 Specification

型號 Model	AS-BP23
外型尺寸 Appearance size	500*310*315 mm
重量 Weight	15 kg
消耗電力 Power consumption	1.8 A /86.5 W
電源(選配) Power supply(Optional)	110 or 220 V
轉速 Rotational Speed	1240~4500 rpm
風速 Air speed	1080~2190 ft/min
軸數 Number of spindle	2 spindles
照度 Illuminance	3350 lux
操作中分貝值 Noise level	66 dB
最大拋光輪尺寸 Brushes diameter(max)	127 mm
濾網 Filter	8 Merv Rating ,3~10 micron

鏡面拋光設備

宏威實業有限公司
HONWAY MATERIALS CO., LTD.

Polishing Equipment

特點 Features

- 可快速設定加工時間。
- 可簡單快速更換使用各種噴砂材：粗、中、細、亮面。
- 適合工件小型工件：3D列印品（金屬件）、金工首飾、切削刀具、小型模具等小型工件。
- 可做刃口R角鈍化處理，防止刀具崩刃，增加刀具使用壽命，同時也改善並提高被加工表面粗糙度。
- 不僅針對刃口、另外對排屑槽也有拋光平滑效果進而改善刀具排屑能力。
- 柔軟性砂材用於精密零部件之毛邊去除，研磨移除量小，不易塌邊，適合曲面、段差、溝槽等部位噴拋。

應用範例 | Application examples

Comprehensive polishing for various complex-shaped workpieces, ensuring that no areas or narrow gaps are missed.

Suitable for various materials such as ceramics, different alloys, steel, glass, etc.

- Quick setup of processing time.
- Easy & quick replacement of sandblasting materials.
- Suitable for small workpieces: 3D printed parts (metal), metalworking jewelry, cutting tools, small molds, and small workpieces.
- Can be used for rounding and blunting of the cutting edge to prevent tool breakage, increase tool life, and improve surface roughness of the processed material. Also, polishing and smoothing effects on the groove can improve the cutting ability of the tool.
- Soft sandblasting material is suitable for removing burrs from precision components. It has a small grinding removal rate, is not easily collapsed, and is suitable for spraying on curved surfaces, steps, grooves, and other parts.



噴射拋光設備(大) Jet Polishing

Dimensional drawing of the appearance (mm)



附混料機



噴射拋光設備(小) Jet Polishing

Dimensional drawing of the appearance (mm)



樣品測試前後照片

適用各種複雜形狀工件的全面性拋光，細節狹縫處不漏拋。

適用各種不同的材料的工件，如：陶瓷、各類陶瓷、各類合金、鋼鐵、玻璃等。

氧化鋯 / 陶瓷



BEFORE



AFTER

鎢鋼



BEFORE



AFTER

鋼鐵



BEFORE



AFTER

陶瓷



BEFORE



AFTER

鏡面拋光設備

Polishing Equipment



附混料機
Attached AS-MIXER

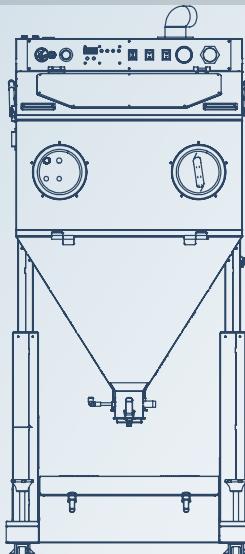
配件 Accessories

| 噴嘴 (Nozzle) : ø 9 mm

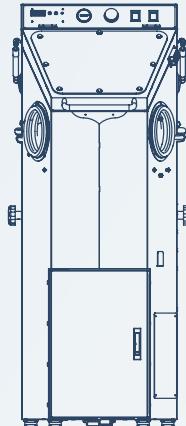


| 磨料混合器 (Abrasive mixer) : 1 pcs

| 手套 (Gloves) : 1 pair



AS-JP23L



AS-JP23

噴射拋光設備比較 Jet Polishing Equipment Comparison

規格 Specifications

型號	Model	AS-JP23L	AS-JP23
外型尺寸	Appearance size	700 x 911 x 1560 mm	453 x 482 x 1385 mm
門開口尺寸	Entryway size	670 x 320 mm	430 x 350 x 265 mm
腔體尺寸	Internal dimensions	670x450x310(Front D)x455(Back D) mm	Trapezoid 430(Upper W)x265(Down W)x390(L) x230(Front D)x450(Back D) mm
重量	Weight	80 kg	50 kg
電源	Power supply	110V / 220V	
消耗功率	Power consumption	550 W (Max.)	1350 W (Max.)
氣源接入口	Air inlet port	1/2 B	3/8 B
集塵馬達	Dust collector motor	1/4 HP	1 HP
吸砂管尺寸	Sand suction pipe size	16 mm	14 mm
噴砂管材質	Sandblasting nozzle material	矽膠 Silicone	
噴砂調氣功能	Sandblasting air adjustment function	有 Availability	有 Availability
脈衝式集塵器	Pulse-jet dust collector		
內部氣槍	Blasting gun		
氣槍調氣功能	Blasting gun air adjustment function	有 Availability	無 None
底部吹氣功能	Bottom air blow function		
自動升降功能	Automatic lifting function		
可承受工件尺寸	Maximum workpiece size	≤ 50 kg	≤ 30 kg
可放置工作空間	Maximum working space	550(W) x 350(D) x 250(H) mm	250(W) x 250(D) x 120(H) mm
建議空壓機容量	Recommended aircompressor capacity	5HP (3.7kW)	
空壓機濾水器	Air compressor filter	1 set	
半自動治具	Semi-automatic fixture	可選購 Optional	可選購 Optional

五軸超精拋光設備

Five-Axis Meta Polishing Equipment

 宏歲實業有限公司
HONWAY MATERIALS CO., LTD.

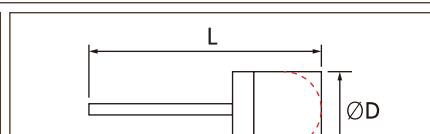


規格 Specification

型號	Model	AS-5190
外觀尺寸	Machine Dimensions	1350x1400x2500mm
X/Y/Z行程	X/Y/Z Axis Travel	500x320x450mm
加工件最大尺寸	Max. Workpiece Size	Ø300x200mm
最大素材厚度	Max. Workpiece Thickness	200 mm
最大加工角度	Max. Machining Angle	B Axis : ±110° C Axis : 360°
位置精度	Positioning Accuracy	±0.02 mm
主漏電斷路器	Main ELCB	30A
設備電壓	Machine Voltage	220 VAC
控制系統	Control System	HONWAY

超精拋光頭規格 Polishing Bit Specification

型號 Model	材質 Material	ØD	L	適用材質 Applications
DS-18D-PU	海綿+聚氨脂皮 Foam+PU	18	65	塑膠 Plastics
DS-18D-HW306	海綿+短纖維絨布 Foam+Short-fiber	18	60	無電解鎳 (精拋) Electroless Nickel (Fine Polishing)
10D-45L-Ce3-65	氧化鋯聚氨脂 CeO ₂ PU	10	45	玻璃 Glass
6D-45L-PU65	聚氨脂 PU	6	45	鋁 Al
10D-R-45L-PU25	聚氨脂 PU	10	45	無電解鎳 (精拋) Electroless Nickel (Fine Polishing)
6D-45L-PU65	聚氨脂 PU	6	45	無電解鎳 (粗拋) Electroless Nickel (Rough Polishing)
10D-R-45L-PU65	聚氨脂 PU	10	45	玻璃 Glass



※ 商品可能更新換代，以上規格我司保有變更之權利

※ Due to continuous product improvement, specifications are subject to change without notice.



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