

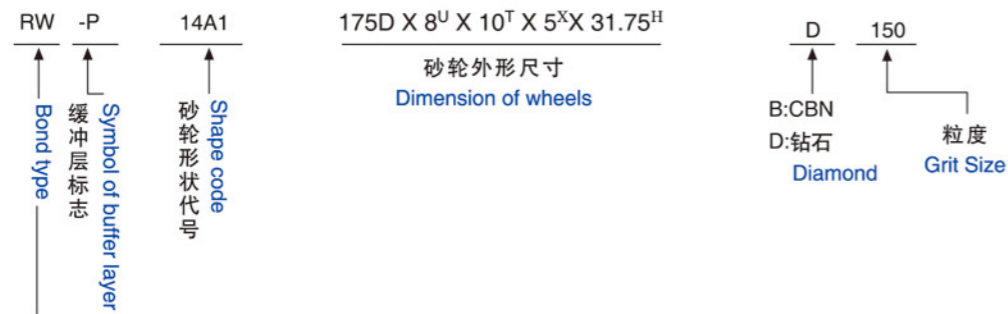
订购砂轮时，请指明以下事项

1. 砂轮规格，包括：结合剂、形状代号（请参照下两页）、尺寸和粒度。最好能提供您的设计图纸或您满意的砂轮的标识。
2. 工件材料和硬度，这是决定使用CBN还是钻石的重要信息。
3. 加工参数，如：主轴转速、走刀速度、进刀量和冷却方式。
4. 数量和交期
5. 其他要求，如所需的表面光洁度和精度。

Please indicate the following information when placing a new order.

1. **Wheel specification** including bond type, shape code (please refer to the next two pages), dimension and grit size. It is better to give us your drawing or to show us the label of the wheel you bought from previous supplier and used well.
2. **Workpiece material and hardness.** It is very important information for deciding to use diamond or CBN.
3. **Machining parameters** such as spindle speed, feed rate, depth of cut and coolant type.
4. **Quantity and time for delivery**
5. **Other requirements** such as required surface roughness and required accuracy tolerance.

For repeated order, please provide the production number on the wheel or the label showed on the package as below



R.W:树脂砂轮 RW: Resin bond wheel
V.W:陶瓷砂轮 VW: Vitrified bond wheel
M.W:金属砂轮 MW: Metal bond wheel
E.W:电铸砂轮 EW: Electroplated wheel

使用钻石与氮化硼的选用/Choosing Diamond or CBN?

※钻石

- 碳化钨，半烧结碳化钨工具及另件
- 陶瓷工具及另件
- 氧化铁等磁性材料
- 耐火材料及其制品
- 石材、宝石及半宝石、贝壳
- 玻璃、石英、瓷器
- 砂、锆等电子另件
- 碳、石墨及其制品
- 磁砖、沥青、混凝土、石棉
- 塑胶、加强塑料(FRP)
- 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.
- Glass, porcelain, quartz.
- Graphite, carbon.
- Tiles, asbestos, asphalt, concrete.
- Plastics, FRP.
- Wear resistant coatings.

※氮化硼

- SK, SKS, SKH等切削工具及另件
- SKD, Stellite等耐磨工具钢材
- SCM, SNCM, SCr, SUJ等构造用钢
- SUS(不锈钢)等耐蚀金属
- SUH钛合金等耐热金属
- 铸铁

※CBN

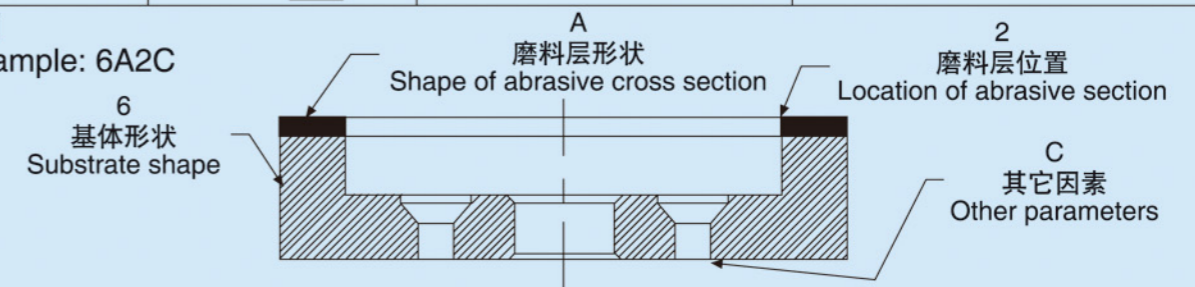
- High alloy steels (SK, SKS, SKH)
- High speed tool steels (HSS)
- Hot & cold working steels (SKD)
- Tempering steels
- Ball bearing steels
- Spring steels
- Cast iron
- Stainless steel (SUS)

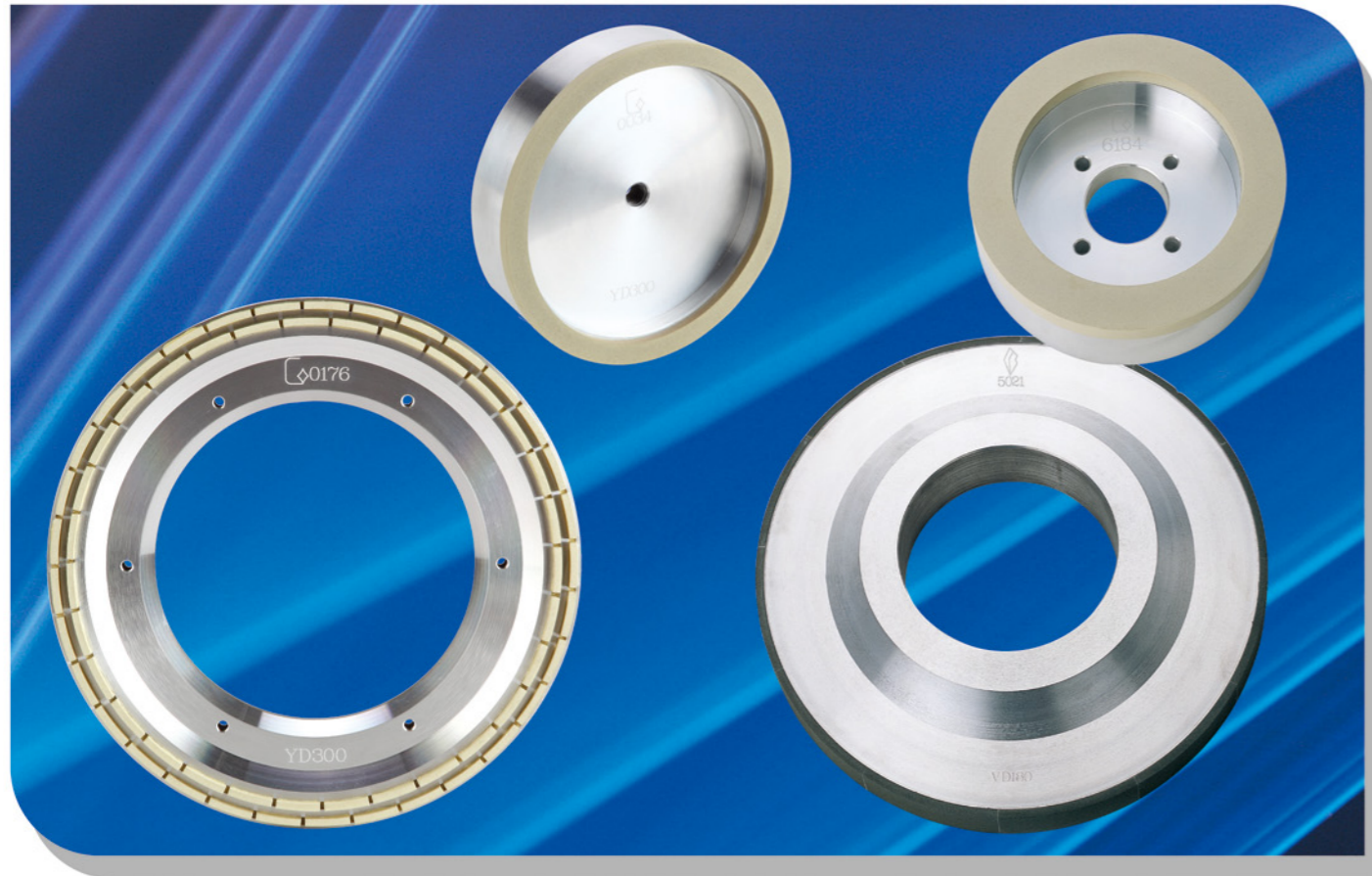
形状代号标准
Code standard (ISO)

基体形状 Substrate shape	磨料层形状 Shape of abrasive cross section	磨料层位置 Location of abrasive section	其它因素 Other parameters
1	A, AH, B	1 周边 Periphery	B 埋头孔 Drill & counterbore C 锥形埋头孔 Drill & countersunk
2	C, CH	2 端面 Side	H 直孔 Plain hole T 螺纹孔 Screwed hole
3	D, DD	3 两端面 Both side	M 直孔和螺纹孔 Holes plain & screwed hole P 单面减薄 One side thinned
4	E, EE	4 内斜面或弧面 Inside bevel or arc	Q 磨料层嵌入 Working part inset R 双面减薄 Both sides thinned
6	F, FF	5 外斜面或弧面 Outside bevel or arc	S 扇形磨料层锯齿 Segmented abrasive section
9	G, H	6 周边一部分 Part of periphery	SS 扇形磨料层锯齿与带槽 Segmented & slotted
11	J, K, L, LL	7 端面一部分 Part of side	V 磨料层倒镶式 Inverted
12	M, P	8 整体 Throughout	W 在心轴上 On the spindle
14	Q, QQ, S, U	9 边角 Corner	Y 倒镶式嵌入 Inserted & inverted
15	V, Y	10 内孔 Center bore	

代号举例

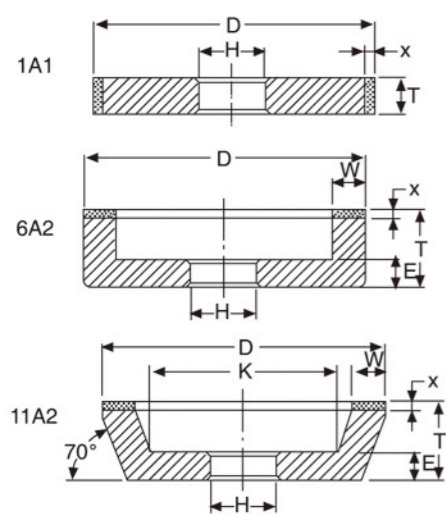
Code example: 6A2C





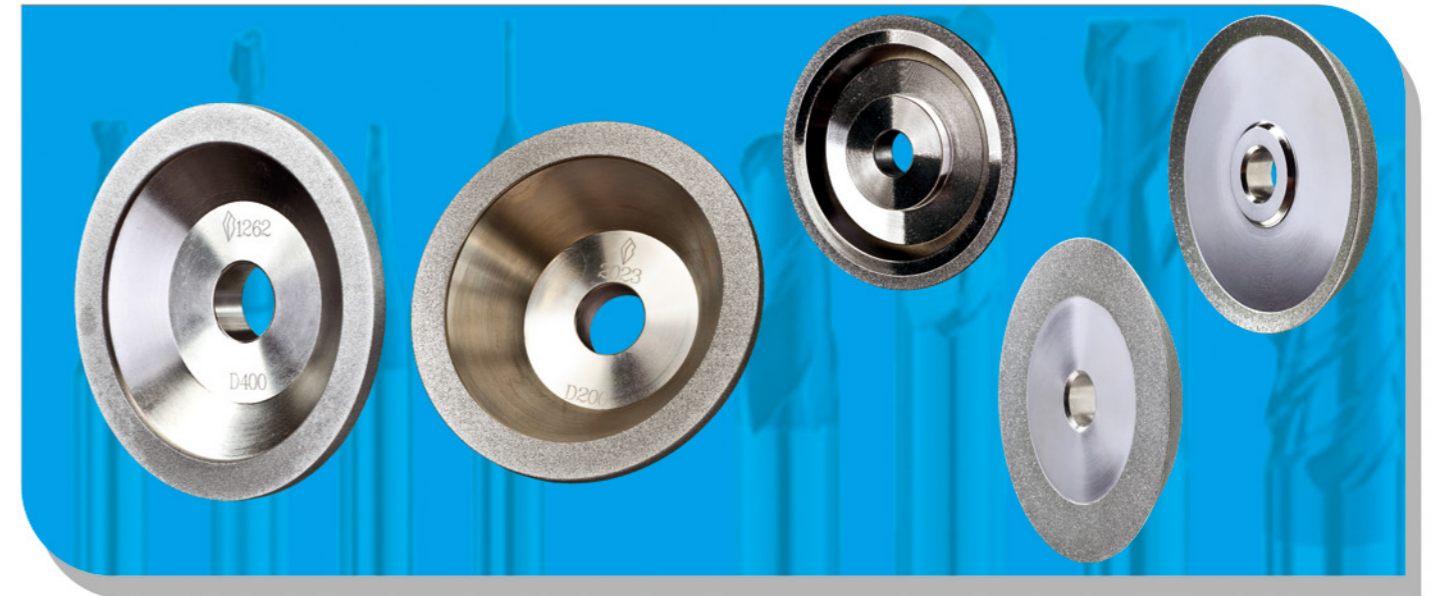
在传统材料（如：石材、碳化钨、热处理钢）的加工中，树脂结合剂和金属结合剂砂轮发挥了很重要的作用，随着自动化工业生产的不断发展和半导体产业快速兴起，树脂和金属结合剂砂轮已不能完全解决新工艺及新材料的精密加工要求。自上世纪末，佳品就致力于开发半导体业及各种耐磨零部件（如：喷涂料杆）磨削用陶瓷砂轮，经过公司技术人员的不懈努力，现已成功配合多个行业特殊材料及特殊工艺的加工要求。以下列出的是公司已建立的标准规格：

Resin bond diamond wheel and metal bond diamond wheel have played a very important role in the working of traditional materials (e.g. stone, TC, hardened steel, glass etc.) with the rapid growth of semiconductor industry and the development of automatic processing, apparently they cannot meet all the demands of new technics and precision work to some new materials. CP DIAMOND is always keeping to developing vitrified bond diamond wheels which are used to semiconductor industry and motor industry. Now we have many kinds of products which have been successfully applied to many new materials and technics for various customers. Hereunder are our specifications for your reference.



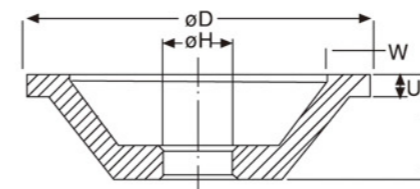
D(mm)	T(mm)	X(mm)	H(mm)	粒度 / Grit size	用途 / Application
152	10	5	31.75	D150/B150	组合冲压模板、精密机械零部件、轴承等 Split punch, precision machine parts, bearing to target coated by hard layer etc.
175	10	5	31.75	D150/B150	
300-600	15-40	5	127	B150	表面喷涂零件如：大型注塑机料杆 Hard coated layer grinding of parts such as Injection machine charging ram
660	50	5-10	205	D300	
D(mm)	W(mm)	X(mm)	H(mm)	粒度 / Grit size	用途 / Application
150	3-20	5-10	40	D200-1200	钻石/PCD刀具 Diamond & PCD lathe tool
150	3-10	5-10	M12x1.75	D300-3000	蓝宝石/砷化镓 GaAs & sapphire
254	4	8+1	155	D300-3000	硅晶圆回收/Recycle of silicon wafers
D(mm)	W(mm)	X(mm)	H/T(mm)	粒度 / Grit size	用途 / Application
125	8	4	31.75/35	D300/600	PCD刀具 / PCD lathe tools

注意：钻石砂轮不适用于高速钢或其它含铁硬质材料的研磨，若需研磨此类材料应指明订制CBN砂轮。
Note: when your workpiece is made of HSS or other hardened ferrous materials you should chose CBN wheels instead of diamond wheels



11C9碗型砂轮
Cup wheels

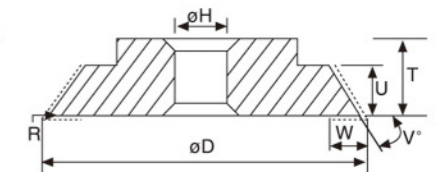
适合钨钢工具之研磨，成型用。
Ideal for tungsten carbide tool's grinding, forming and resharpening



产品代号 Order No.	D	T	W	H	U	可供粒度 Grit size
E.W 11C9	100	22	10	20/19.05	5	#100
E.W 11C9	100	35	10	20	5	#150
E.W 11C9	100	35	10	19.05	5	#200
E.W 11C9	100	22	10	31.75	5	#300
E.W 11C9	100	35	10	31.75	5	#400



3Y1砂轮
3Y1 wheels



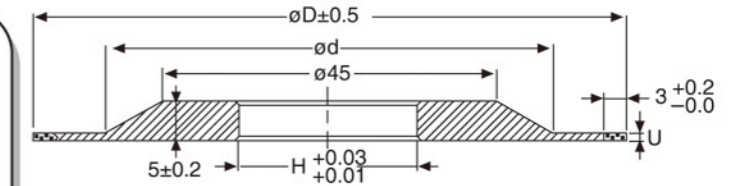
适合钨钢圆铣刀片的成型、修锐。
Ideal for tungsten carbide saw blade cutter's grinding, forming and resharpening

D	U	T	W	H	V°	R	备选粒度 Grit size
150	4	9	5	25	45°	0.5	D150, D200
					40°	0.2	D150, D200



生产工序 procedures	砂轮形状 Shape of wheel	D	T	U	X	H	V°	备选粒度 Grit size	配合设备 Equipment
下料切断 Cutting	1A1R	152	1		7	19.05		D120	切断专机不同孔径 Specialized grinding machine which has various bore diameter
		125	0.8		5	25.4		D120	
总长加工 Length grinding	14A1	350	32	15	5	127		D150,D200	平面磨床 Surface Grinding Machine
柄径研磨 Shank grinding	1A1	300-350	100		5	120		D200,D400	无芯磨床 Centerless Grinding Machine
头径研磨 O.D grinding	3A1	200-290	20	17	5	31.75/50.8		D200,D400	专用磨床 Specialized Grinding Machine
PCB钻头切槽 Grooving of PCB drill bit	4A1Q-P	100	6	1.5	6	10		D800	CNC磨床
	4A1Q-P	152	8	2-3	10	31.75		D1000	CNC grinding machine
铣刀切槽加工 Grooving of end mills	14A1	75	6-12	2-8	5	客户指定 Customer order		D150	CNC磨床 CNC grinding machine
	1V1	85					10,15	D200	
	3V1	90		3-10			20,30	D300	
	14V1	100					45	D400	
	11V9	125		5-10	3		70	D600	
	12V9	152					45	D800	

1. 粗磨砂轮
Rough Grinding Wheels



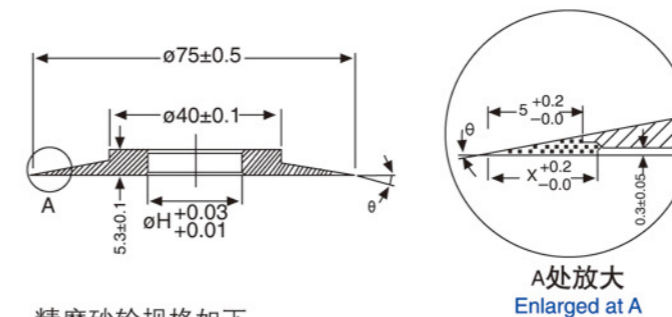
粗磨砂轮规格如下
Standard specification as below

D	d	U	H	结合剂 Bond	备选粒度 Grit Size
75	60	1.0	24.00	树脂 Resin	D200
	63	0.5			
80	64	1.0	22.23		D400
	64	0.7			
	68	0.5			

用途:粗磨

特点: 1.锐利, 研磨速度快
2.自锐性好, 修整次数少

Application: Rough grinding on profile grinding machine
Features: 1. Sharp, higher grinding speed.
2. Better self-sharpening ability, lower dressing frequency
3. Optimised technology prolongs lifetime by more than 30%



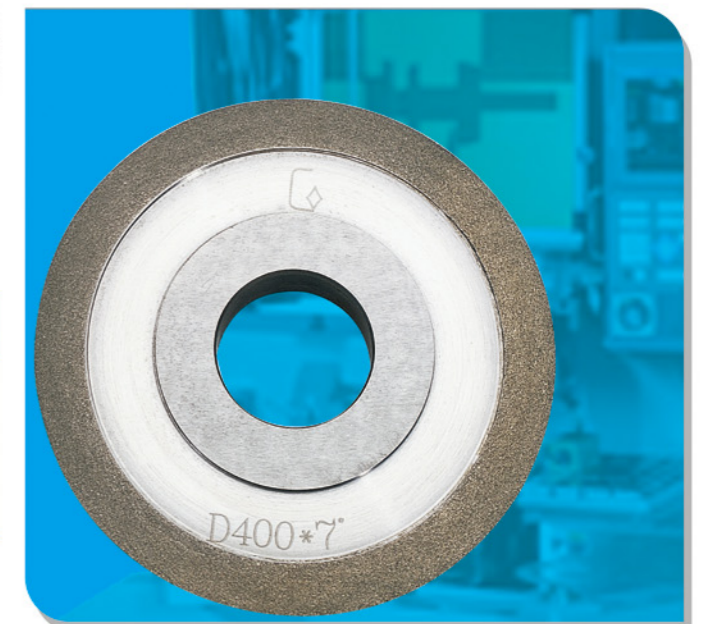
精磨砂轮规格如下
Standard specification as below:

D	H	θ	X	结合剂 Bond	备选粒度 Grit Size
75	22.23	7°	7	金属 Metal	D400
		10°			
		12°	10	树脂 Resin	D600
		15°			

用途:精修
特点: 1.粒度细, 研磨后的表面光洁度高
2.精度高

Application: Precise grinding on profile grinding machine
Features: 1. fine grain, lower ground surface roughness
2. high precision

2. 精磨砂轮
Precise Grinding Wheels





研磨膏(5g)

Diamond compounds



说明:

1. 标准规格品为油性, 若需水溶性研磨膏, 请指明订购。
2. 5克以针管罐装, 10克以铝管罐装。
3. 若需稀释使用, 本公司亦提供稀释液。

Remark:

1. Oil soluble is standard carries, other carries depend on your request.
2. Containers: 5g/pc with plastic syringes, 10g/pc with aluminium tube.
3. High concentrations diamond compounds is also available, depend on your requirement.

钻石微粉标准

Standard of micron powders

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

钻石微粉

Micron powders



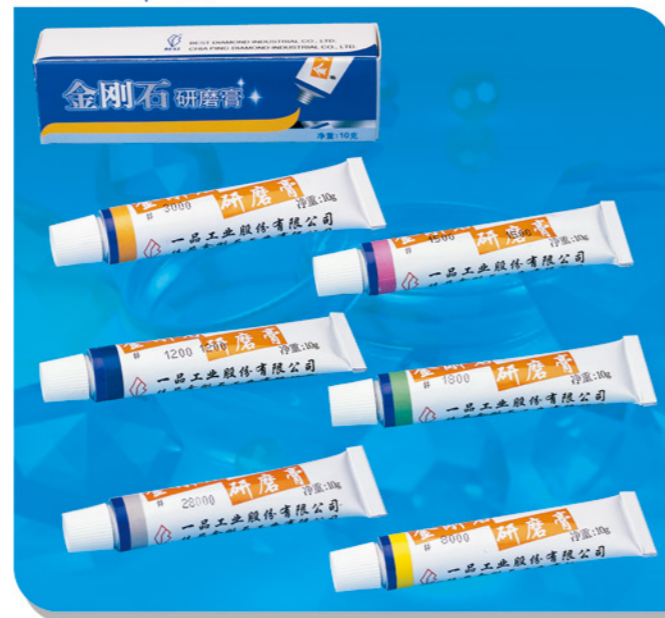
研磨膏标准

Standard of diamond compounds

编号 Order no.	颗粒尺寸 Micron range (μm)	相等筛目 Mesh size (approx)	标示颜色 Color code
PDR-600	0.125(0-0.25)	#60,000	深灰/Dark grey
PDR-280	0.5(0-1)	#28,000	灰/Grey
PDR-140	1(0-2)	#14,000	白/White
PDR-080	3(2-4)	#8,000	黄/Yellow
PDR-050	4.5(3-6)	#5,000	浅棕/Light brown
PDR-030	6(4-8)	#3,000	橙/Orange
PDR-020	8(5-10)	#2,000	浅紫/Lilac
PDR-018	9(6-12)	#1,800	绿/Green
PDR-015	13(10-16)	#1,500	粉红/Pink
PDR-012	15(10-20)	#1,200	蓝/Blue
PDR-010	17.5(15-20)	#1,000	深绿/Dark green
PDR-008	25(20-30)	#800	咖啡/Brown
PDR-006	35(30-40)	#600	红/Red
PDR-004	50(40-60)	#400	紫/Purple
PDR-002	90(80-100)	#200	黑/Black

研磨膏(10g)

Diamond compounds

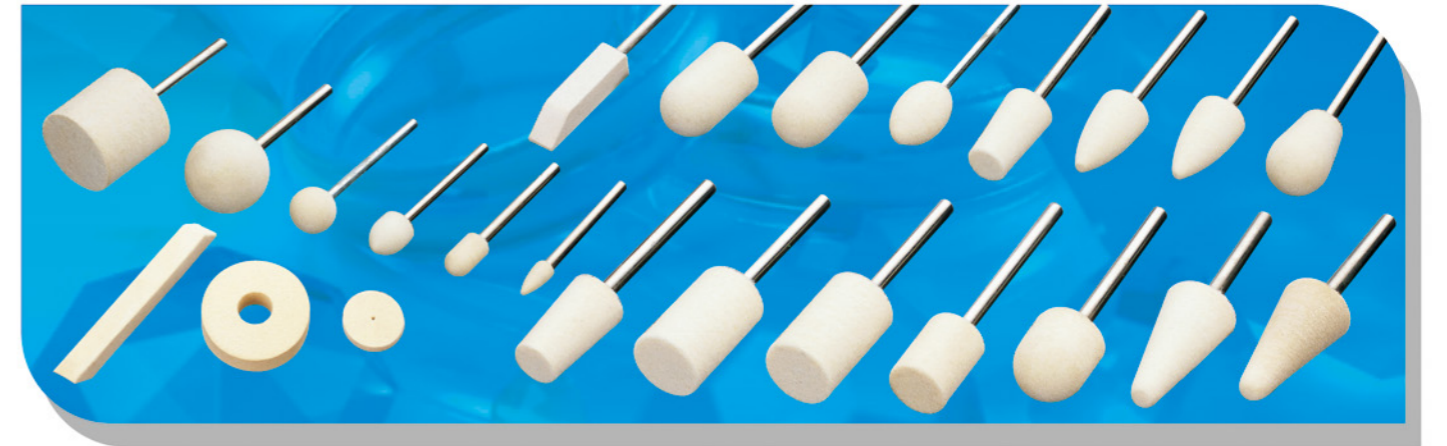


说明:

1. 佳品钻石微粉及经过精密设备严格筛选, 粒度精确, 颗粒结晶形状统一。它适用于各种钢模、超硬合金、陶瓷、宝石、半宝石等之精密抛光或镜面抛光。
2. 对于某些需求更精密或更均匀表面抛光之要求, 请在订购时, 特别指明, 本公司将提供更精密颗粒尺寸之微粉供选用。

Remark:

1. Cpdia micron powders are exactly graded from virgin material and especially designed for lapping and polishing operations. Particularly, those requiring the strictest dimensions accuracy and the finest surface finish.
2. For work which requires ultra high finish, we also supply powders with a narrower distribution range upon your request.



用途:

配合研磨膏等抛光磨料用于各种材质模具制品的抛光作业。

特点

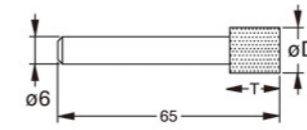
- a. 采用进口羊毛板制作, 不会带来杂质破坏抛光表面
- b. 精确的加工成型, 保证使用时无震动感

Application:

Polishing various moulds with diamond compounds and other polishing materials

Features:

- a. Imported wool-board. There are no impurities to damage polishing surface.
- b. Precision forming technology ensures non-vibration sense during operation.



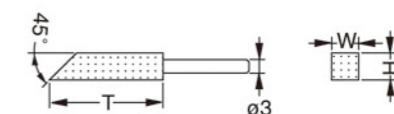
单位:mm
Unit:mm

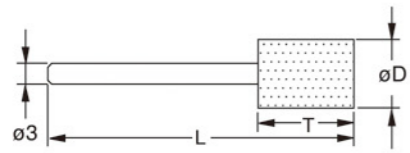
型号 Order No.	FK-1014A	FK-1214A	FK-1520A	FK-2020A	FK-1225A	FK-1525A
刀径 ϕD	10	12	15	20	12	15
刀长T	14	14	20	20	25	25

型号 Order No.	FK-2025A	FK-2530A	FK-1520C	FK-2025C	FK-2530C
刀径 ϕD	20	25	15	20	25
刀长T	25	30	20	25	30

型号 Order No.	FK-3208E	FK-4010E	FK-1520K	FK-2025K	FK-2530K
刀径 ϕD	32	40	15	20	25
刀长T	8	10	20	25	30

型号 Order No.	AB-R6	AB-R10	AB-R12
刀径WxH	6x6	10x10	12x12
刀长T	25	35	45





单位:mm
Unit:mm

型号 Order No.	AB-0408A	AB-0509A	AB-0610A	AB-0810A	AB-1014A	AB-1220A	AB-1520A	AB-2020A
刀径 ϕD	4	5	6	8	10	12	15	20
刀长T	8	9	10	10	14	20	20	20

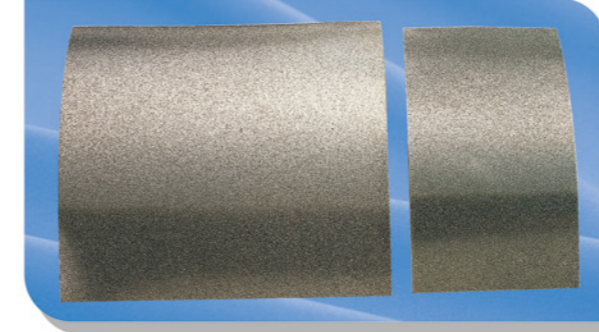
型号 Order No.	AB-0408C	AB-0509C	AB-0610C	AB-0810C	AB-1014C	AB-1214C	AB-1220C
刀径 ϕD	4	5	6	8	10	12	12
刀长T	8	9	10	10	14	14	20

型号 Order No.	AB-0410J	AB-0512J	AB-0616J	AB-0817J	AB-1014J	AB-1020J	AB-1220J
刀径 ϕD	4	5	6	8	10	10	12
刀长T	10	12	16	17	14	20	20

型号 Order No.	AB-1225J	AB-08B	AB-10B	AB-12B	AB-18B	AB-1014R	AB-1225R
刀径 ϕD	12	8	10	12	18	10	12
刀长T	25	-	-	-	-	14	25

型号 Order No.	AB-1218T	AB-1218H	2503E	2504E	2505E
刀径 ϕD	12	12	25	25	25
刀长T	18	18	3	4	5

钻石箔
Diamond foil

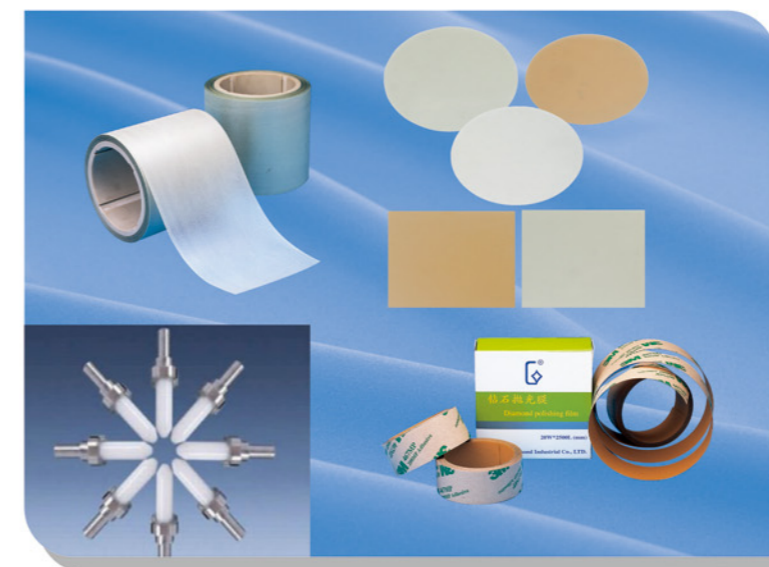


结合方式: 电镀镍
用途: 各种材料打磨, 抛光, 清理。
特点: a、柔软; b、锐利; c、寿命长; d、使用方便。
Flexible and self-adhesive diamond coated metal foils with galvanic bonding. It can be easily cut to the required size and shape which makes them excellent for making tools adapted to special applications.

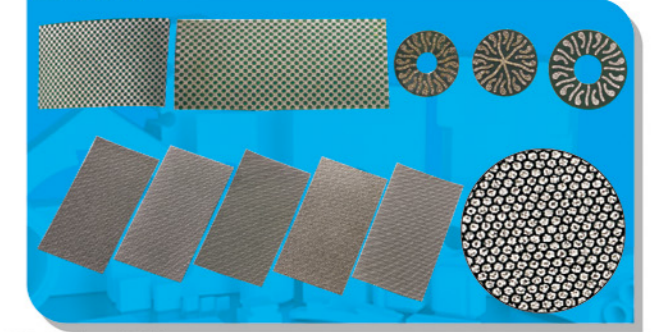


钻石箔标准尺寸 Standard size	可选粒度 Grit size
50Wx100L	#60 #100 #120 #150 #200
100Wx100L	#300 #400 #600 #800 #1200...
200Wx200L	

钻石膜
Diamond film

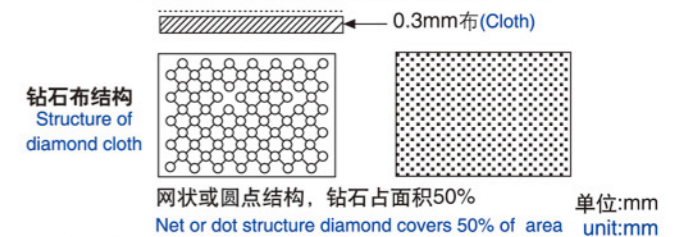


钻石布
Diamond cloth

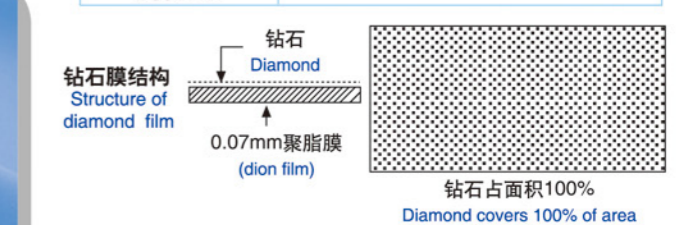


结合方式: 电镀镍
用途: 各种材质的粗磨、精磨。如: 石英, 陶瓷等。
特点: a、柔软、不易断; b、网状设计易逃屑, 不易塞目, 更锐利; c、有背胶可直接贴于各种制具。

Bond: Electroplated Nickel
Application: It is flexible and can be easily cut to the required size and shape which makes them excellent for making tools adapted to special applications.
Features: a. Soft, unasily cracked;
b. Sharp and better chip removal ability
c. Available to be stuck on different kinds of tools.



钻石布标准尺寸 standard dimension	可选粒度 Grit size
50Wx100L	
100Wx100L	
200Wx300L	#150 #200 #400 #600 #800
$\phi 25 \times 8H$	
$\phi 30 \times 11H$	



结合方式: 胶结合
用途: 用于各种材料的抛光, 如: 光纤接头, 对塑胶模具消除橘皮现象有明显作用。
特点: 质地柔软, 更贴合于各种制具进行抛光作业。
Bond: Glue
Application: Polishing for a variety of materials such as: optical fiber connector. This can effectively eliminate the plastic mold cellulite phenomenon
Features: So soft that it is easy to get a perfect polishing quality.

单位:mm
unit:mm

钻石膜标准尺寸 Standard dimension	50x100	200x300	20x2500	100x40000	$\phi 110$	$\phi 127$			
可选粒度/Grit size	#1800	#2000	#3000	#5000	#8000	#10000	#14000	#28000	#60000
粒径/micron range(μm)	6/12	5/10	4/8	3/6	2/4	1.5/3	0/2	0/1	0/0.25
对应颜色/Color	绿 Green	紫 Purple	桔 Orange	棕 Brown	黄 Yellow	黄 Yellow	白 White	灰 Gray	深灰 Dark gray

一、钻石纤维油石

用途：超声波研磨机使用，用于电火花或放电加工后粗糙面的修整



标准规格：
Standard specifications:

形状 Shape	尺寸 Dimension	粒度 Grit Size	备注 Remarks
	2.0W	100L	"——"表示为常规使用规格。
	4.0W		
	6.0W		
	8.0W		
	10.0W		
	ø3x100L	#200	"——"Show the spec. used often.
		#400	
		#600	
		#800	



二、带柄油石

Diamond hand stones

编号 Order No.	油石尺寸 Size (WxXxL)	手柄长 Handle length	说明 Description	可供粒度 Grit size
RSH-01	10x2x40	160	塑胶柄 Plastic handle	#200
				#400
				#600
				#800
				#1000
RSH-02	5x2x40	150	铁柄 Iron handle	#2000
RSH-03	5x2.5Rx4x40			#3000
				#5000
		#8000		

用途：带柄油石特别适合在线修整刀具刃部

Application: We offer a wide range of honing and lapping tools for all kinds of polishing and super finishing

Diamond fiber stones

Application: For EDM-scale removal. It is better to fit in with ultrasonic lapping machine.

特点

- a、比陶瓷纤维油石更锐利
- b、以钻石为磨料，碳纤维为增韧材料。比陶瓷纤维油石能适合加工的材质更多。如碳化钨、玻璃、陶瓷等。

Features:

- a、Sharper than ceramic fiber stones
- b、Made of diamond and carbon fiber, can be used to process harder materials such as tungsten carbide, glass and ceramic.

我们也可以提供塑胶手柄来装夹使用如下图
We also supply plastic handle in your needs.

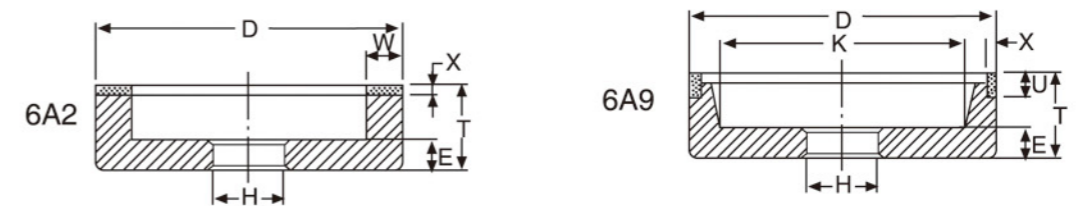


在半导体元器件的前段加工中，晶圆基板的减薄研磨需要用各种各样的钻石砂轮，常用的LED基板有砷化镓(GaAs)和人造蓝宝石(即单晶氧化铝)，在对这两种材料的减薄研磨中，必须保证基板的平行度和表面粗糙度，同时整个晶圆不得有任何细微的裂纹，这就对所使用的钻石砂轮提出了很高的要求，我们经过与公司客户密切合作，开发出了适合这两种材料的砂轮。

The common LED wafers are made of GaAs or sapphire crystal, the thinning process needs many diamond wheels. The ground surface of wafers should be smooth and have no any crack, the parallelism between two surfaces of wafers must be very high. We have developed many kinds of diamond wheels for grinding of LED wafers by the cooperation with our customers.



部分规格列表如下：
Specifications:



结合剂/Bond	形状/Shape	D(mm)	W(mm)	X(mm)	H(mm)	粒度/Grit size	用途/Application
陶瓷 vitrified	6A2	150	3-10	5-10	M12 x 1.75	D300-3000	蓝宝石/砷化镓 Sapphire/GaAs
	6A9S	254	4	8+1	155	D300-3000	硅晶圆回收/Recycling of wafers
金属 metal	6A9S	254	3-4	10+2	155	D300-400	蓝宝石 Sapphire

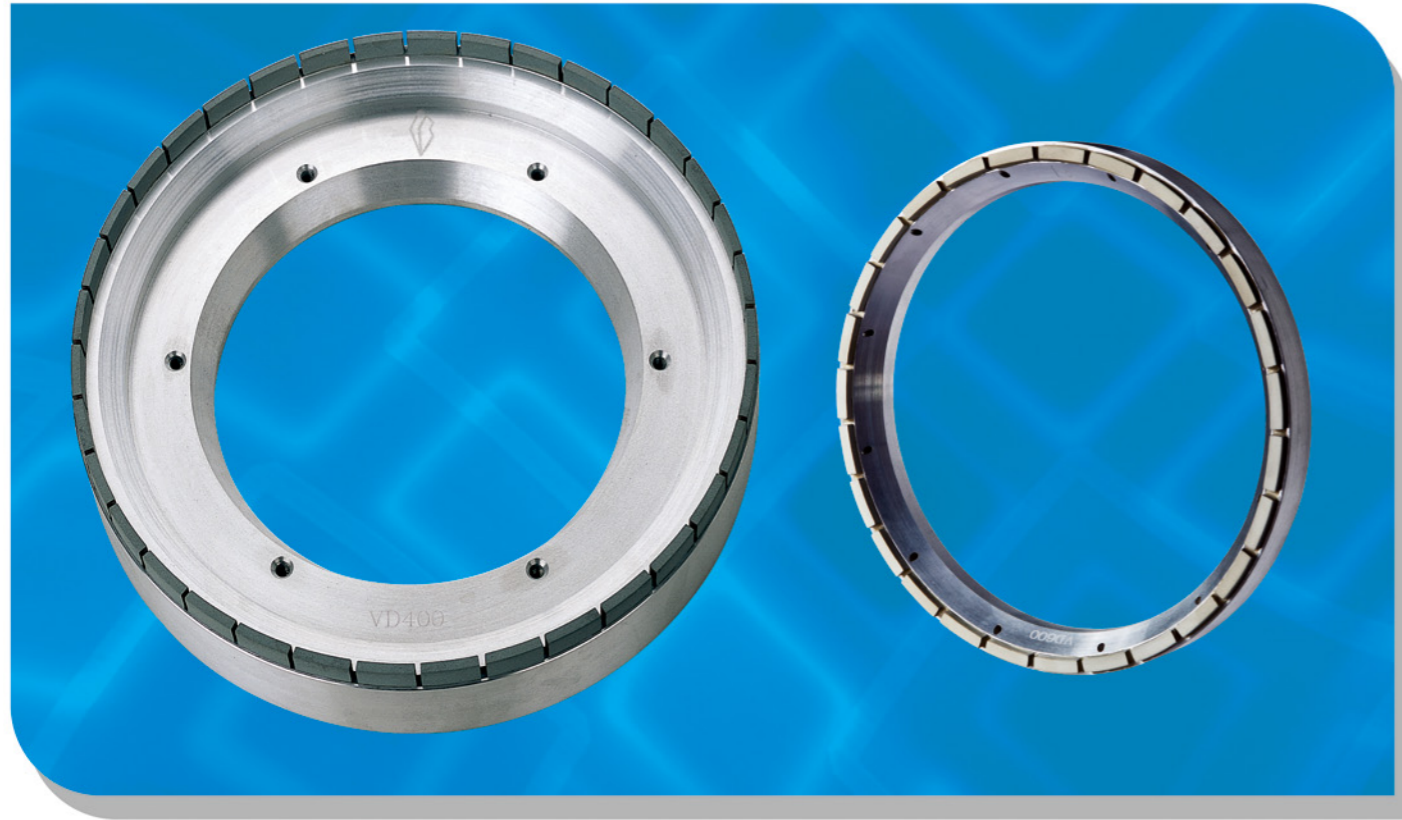
结合剂/Bond		形状/Shape		适用于GaAs等半导体材料的平面研磨 Surface grinding of GaAs wafers.					
		D	X	U	L	H	粒度/Grit size		
树脂 Resin	6A9	150	3	8	20	M12	D400-D2000		

其它规格可根据客户的要求制作

We can offer other specifications according to your drawing or sample

半导体封装时，第一步需将晶圆进行背面减薄加工，减薄后的晶圆再进行切割及灌胶等作业。减薄时钻石砂轮必须保证在粗精磨时保持稳定的研磨速率和表面加工质量，以保证晶圆厚度一致性，从而确保高的封装良率。

In IC packing process, the first step is back-grinding. After back-grinding wafers will be cut into small chips, then these chips will be packed to be ICs, It is rather vital to maintain a stable grinding rate and qualified surface. When wafers are ground to be thinner, to keep a good thickness uniformity is very important to get a higher packing yield.



用途：硅晶圆和半导体化合物晶圆的背面减薄加工。

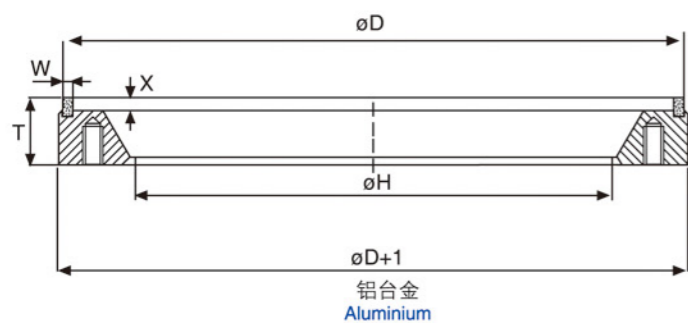
Application: Back grinding of silicon and compound semiconductor wafers

特点：

1. 独特的结合剂设计保证及制作工艺稳定的切削速度。
2. 良好的自锐性降低研磨阻力，降低破片风险。
3. 精确的钻石分级和生产控制严格的保证减薄后晶圆的表面质量的稳定性。
4. 通过当地化生产，我们可以提供高性价比的产品。

Features:

1. Specialised bond design and manufacturing technology guarantee the cutting rate stability
2. Excellent grinding wheels self-sharpen ability helps to reduce the risk of wafer breaking
3. Accurate graded diamond and strict production management enable customers to get a stable ground surface quality of wafers



粒度 Grit Size	D(mm)	W(mm)	X(mm)	H(mm)
#325 (D54/80)	ø200	2~5	5	155
#8000 (D2/4)	ø400			158
				190
				235

铝合金
Aluminium



用途

用于半导体加工行业晶圆抛光垫的修整。

特点

- 用单层钎焊工艺，钻石与钎料以化学键结合，钻石不脱落；
- 钻石出露量高，露出一致；
- 钻石排列有序，利用率高，修整速度快；
- 使用寿命长；
- 加工平面度好；

Application

The dressing of polishing pad for semiconductor wafer

Features:

- The single layer brazing technics grows the chemical bond between diamond and brazing metal to ensure that no diamond will be lost during working time
- High emergence and uniformity of diamond particles achieve high polishing removal rate
- Diamond with ordered array helps to get a stable wafer uniformity
- Qualified working life
- With good planeness
- No break in process needed, shorten downtime



标准规格列表

Standard specifications:

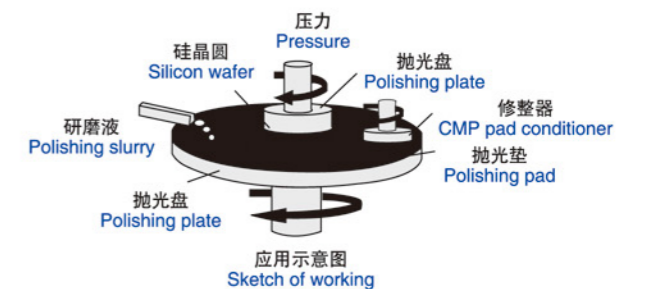
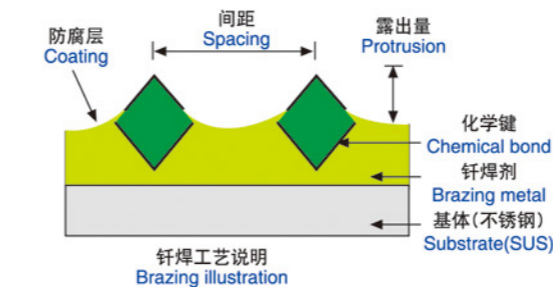
型号规格 Specification	外径 O.D.(mm)	钻石层宽度 Width of grit(mm)	厚度 Thickness(mm)	钻石分布 Distribution pcs/cm ²	钻石尺寸 Diamond size	涂层种类 Coating
ø108x6.6T	108	25	6.6	156±5	#60/70,70/80	Ni
ø50x8.3T	50	/	8.3	156±5	#60/70,70/80	Ni
ø20x7.3T	20	/	7.3	180±5	#60/70,70/80	Ni

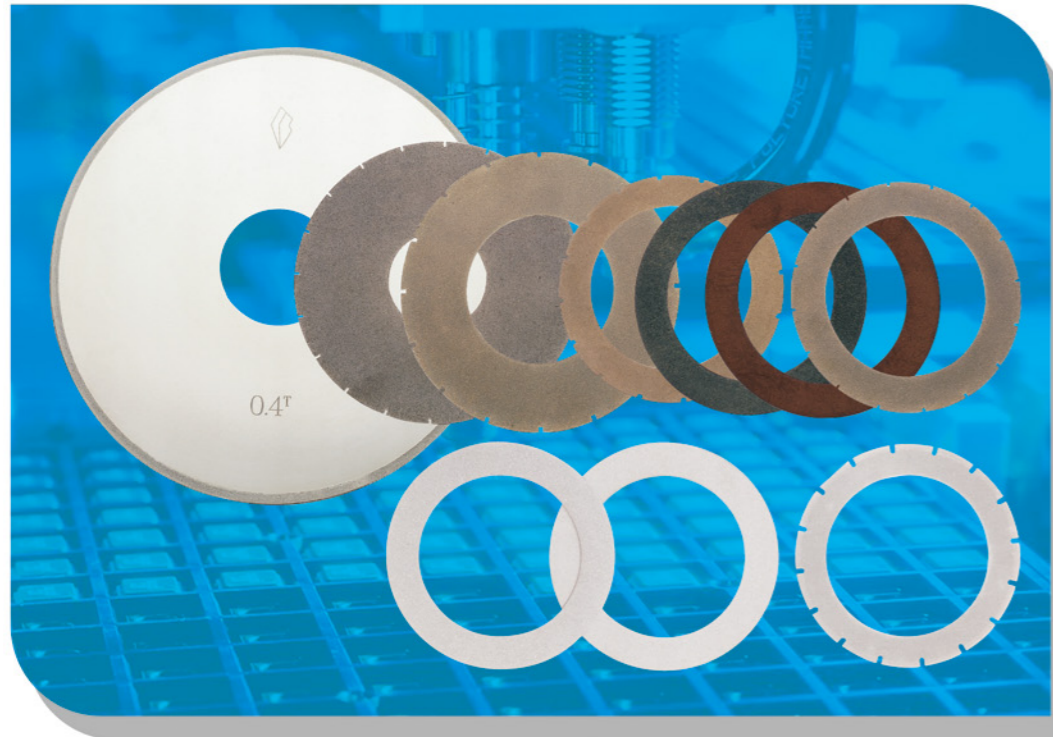
注：其它规格可根据用户要求定制。

Note: Other specifications depend on your orders.

钎焊及应用示意图

Brazing and sketch of working:





用途
晶圆、晶粒精密切割
半导体封装后分切
光学玻璃/石英/蓝宝石切割
印刷电路板切割加工
精密陶瓷材料加工

特点
切割精度高
切割效率高
加工过程热影响区小
切片寿命长, 可降低生产成本
切缝整洁平滑

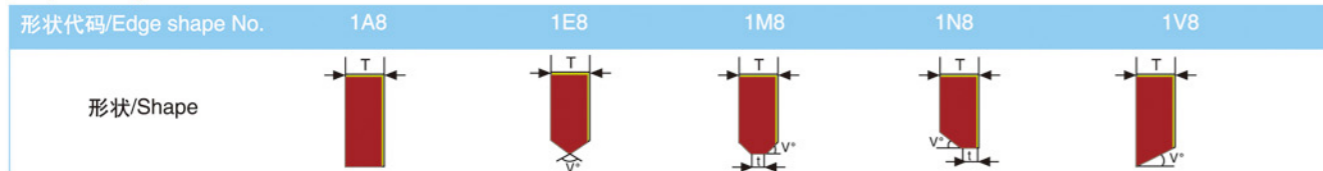
Applications
Silicon Wafers
crystals
Semiconductor packages
Glass
quartz
sapphire
Printed circuit board
Ceramics

Features
High cutting precision
High working efficiency
Lower heat-affected area
Low blade wear
Smooth and regular kerf

标准规格列表
Standard specifications

结合剂类型 Bond types	形状代号 Shape code	外径 O.D.(mm)	内径 I.D.(mm)	切片厚度 Thickness(mm)	厚度公差 Thickness tolerance(mm)	钻石粒度 Diamond mesh	钻石粒径 Diamond size (μm)
树脂结合(RB)	1A8	ø56	ø40	0.10	±0.003	D2000	5-10
Resin bond(RB)	1E8	ø75	ø25.4	0.15	±0.005(★)	D1500	8-15
金属结合(MB)	1M8	ø125	ø31.75	0.20	±0.01	D1200	10-20
Metal bond(MB)	1N8			0.25		D800	20-30
镀镍结合(NB)	1V8			0.30		D600(★)	30-40
Nickel bond(NB)				0.35		D400(★)	36-54
				0.40		D300	50-65
				0.45		D200(★)	65-85
				0.50		D170	75-97
						D150(★)	90-116
						D120	107-139

形状代号说明如下
Shapes of edge:



选用说明书

- RB(不开槽)更适合加工脆薄的材料, MB(开16-20槽)较适合加工硬厚的材料。
 - 外径、内径、切片厚度、粒度应由客户根据加工要求指定, 但在指定粒度时请留意厚度应大于最大粒径的3倍。
 - 表中所列为本公司标准规格。
 - “★”为本公司推荐选项, 在切割加工中比较常见。
- 指定规格示例: RB 1A8 ø56 x 40Hx0.20T±0.005xD400

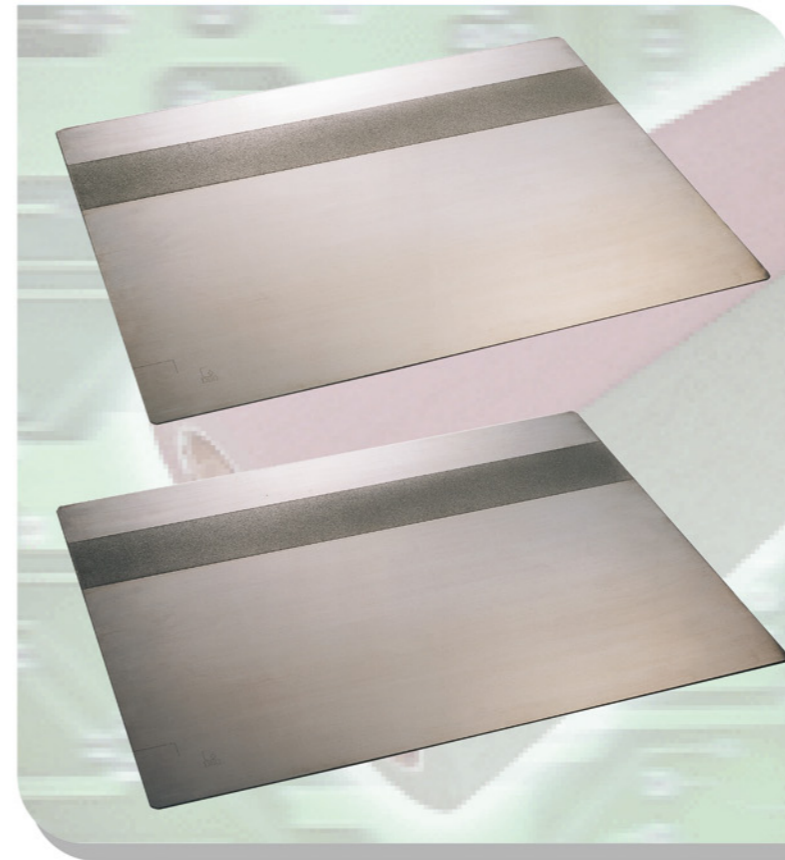
Ordering instruction

- RB (no slots) is better for thin and brittle materials, MB (with 16-20 slots) is better for processing of thick and hard materials.
 - Please specify the O.D., I.D., thickness of blade and the size of diamond according to the condition of cutting when ordering, but please ensure the thickness should be bigger than 3 times of diamond grit size.
 - The standard specifications have been shown in the table above.
 - “★” means which often be used for cutting process by our customers.
- Example: RB 1A8 *56x40Hx0.020TxD400

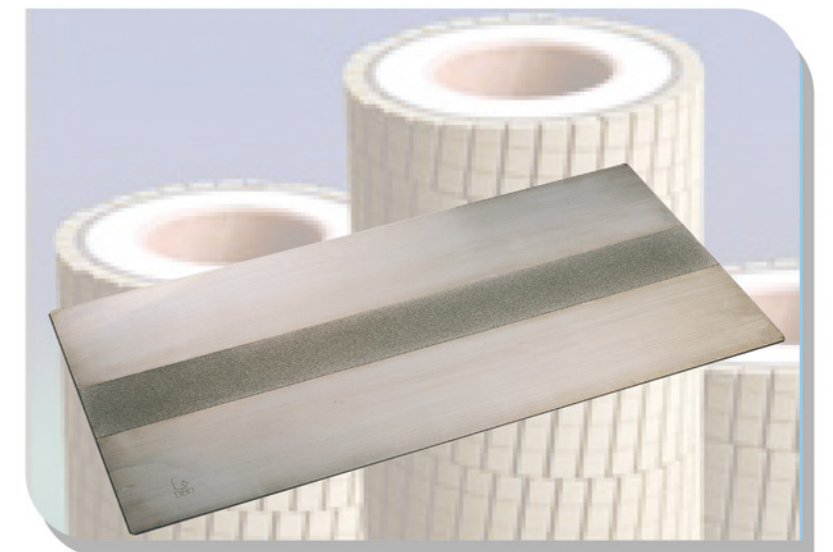
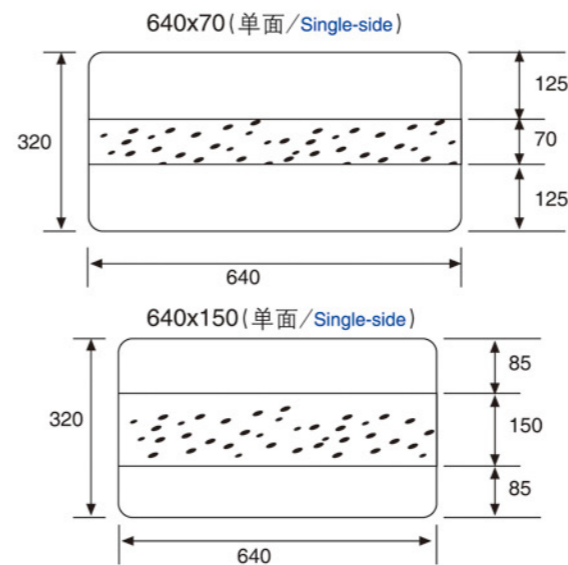
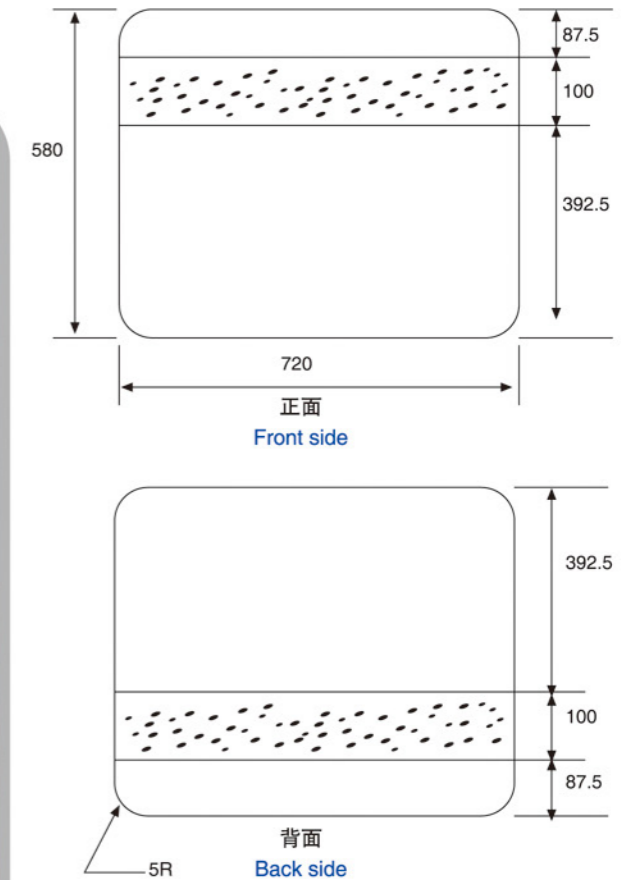
- 一、用途:**
用于印刷电路板(PCB)清理刷轮的修锐
- 二、粒度:**
#80用于修整不织布刷轮, #200用于修整陶瓷刷轮

Application:
The dressing of PCB deburring wheels

About grit size:
#80 mesh for dressing of top wheels(non-woven buff rolls)
#200 mesh for dressing of ceramic wheels



三、规格
Specifications
720x100双面同粒度
Two sides with same grit size



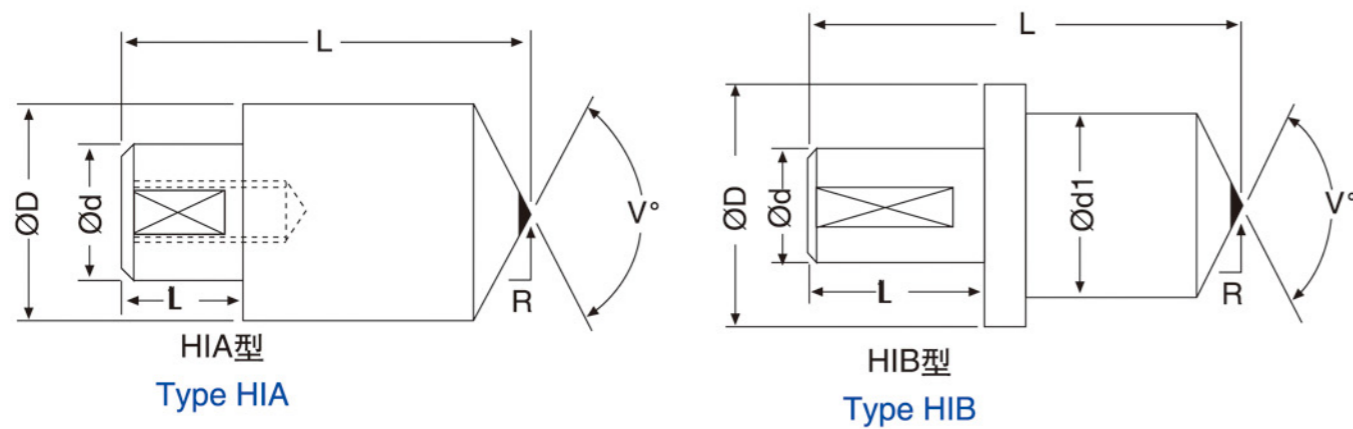
数量3片以上的非标规格可接受订制
Available for non-standard orders more than 3 pieces

用途:
用于洛氏硬度计, 测定材料的HRC值。

特点:
采用高品质钻石原料确保使用寿命。
精密的车磨加工保证精准稳定的量测结果。
高效量产工艺确保交付能力及极具竞争力的价格优势。

Application:
Rockwell Diamond Indenters to determine accurate hardness of hardened metals

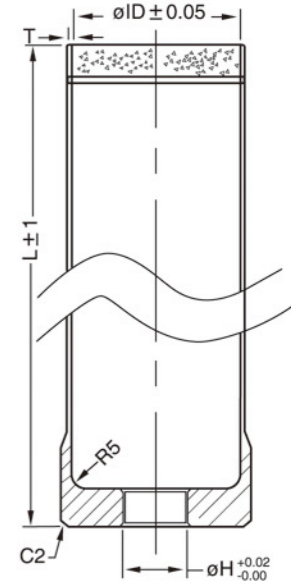
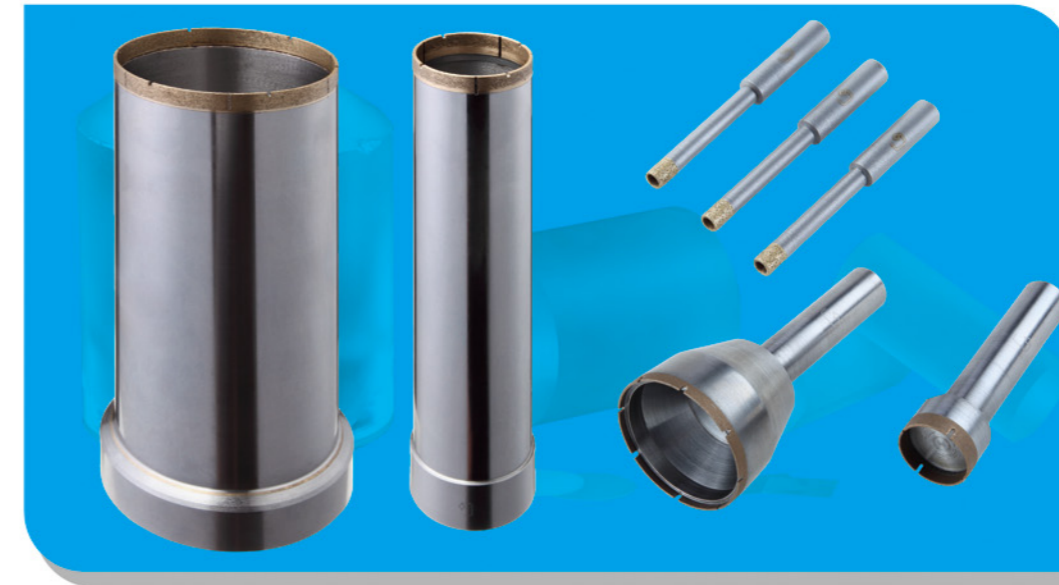
Features:
Longer service life as using the high quality diamond materials.
Precision grinding ensures the measurement results accurate and stable.
Timely delivery and competitive price due to the high producing efficiency.



标准规格
Standard Specifications

型式 Product type	D	d	d1	L	L1	V±0.20°	R±0.01	钻石大小 Diamond weight
HIA	10	6.34	--	21	6.3	120°	0.2	0.1ct
HIB	12	6.34	10	27	11	120°	0.2	0.1ct

一、金属钻管
Diamond core drills



用途: 陶瓷、玻璃和石英等钻孔, LED用人造蓝宝石套料。
特点: 特殊的烧结工艺保证更好耐磨性。
高精密研磨工艺实现更高的钻孔质量。

Applications: Core drilling of ceramics, sapphire, glass and quartz.
Features: Special sintered technic ensures higher durability.
High precision grinding process achieves higher drilling quality.

标准规格
Standard Specifications

ID(mm)	T(mm)	H(mm)	L(mm)	结合剂/Bond
53.5	1.5~1.9	20		
103	1.7~2.3	20	185+30~300+30	金属/Metal
154	1.9~2.5	20		

其余非标准钻石可依客户要求订做
Other specifications can be ordered depending on your drawing or sample.

二、金属结合钻石锉刀
Sintered Diamond Files

用途: 电动及气动超声波研磨机专用。
特点: a、寿命长、b、硬度高、强度高、不易弯。
Application: Special design for air or ultrasonic lapping machine.
Features: a、Long life time
b、Higher hardness and flexibility

标准规格
Standard Specifications:

形状 Cross-section	粒度 Grit size	编号 Order No.	L			
			T			
	#200	MMF-615F	72	20		
			#400	MMF-615V	#600	MMF-615X
#400	MDT-02V					
		#600	MDT-02X			

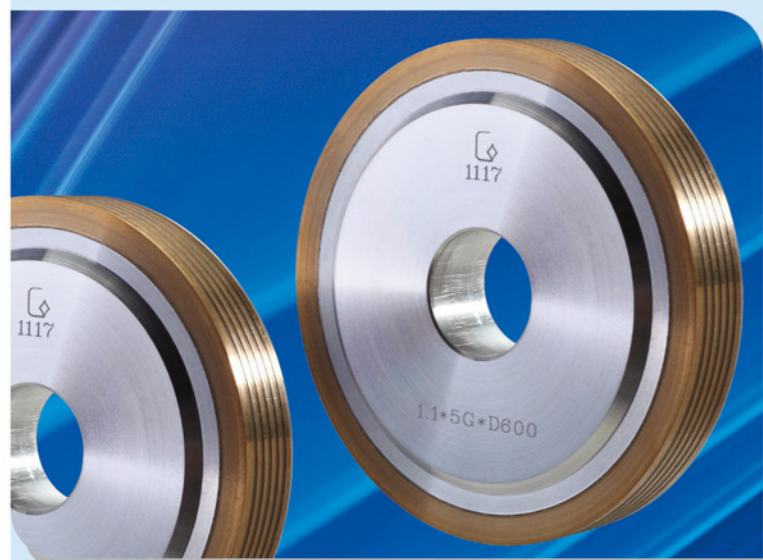




触屏玻璃磨边砂轮
Touch panel glass edge-grinding wheel



触屏玻璃抛光砂轮
Touch panel glass polishing wheel



金属磨边砂轮
用途: TFT-LCD玻璃磨边
Sintered diamond grinding wheels
Application: For touch panel glass edge-grinding

