

河南拜罗欧新材料有限公司

Bello Group



# The Company

## 公司简介



As a subsidiary of Bello Group, Bello New Material Co., Ltd has been researching and manufacturing high quality Diamond & CBN grinding wheels since 1990.

Our experienced application engineers supply the most economical and efficient grinding solutions for our global customers.

We are supplying the full range of Diamond & CBN grinding wheels as below:

- Vitrified bond
- Hybrid bond
- Resin bond
- Metal bond
- Electroplated
- .....

Our excellent products are serving the following industries:

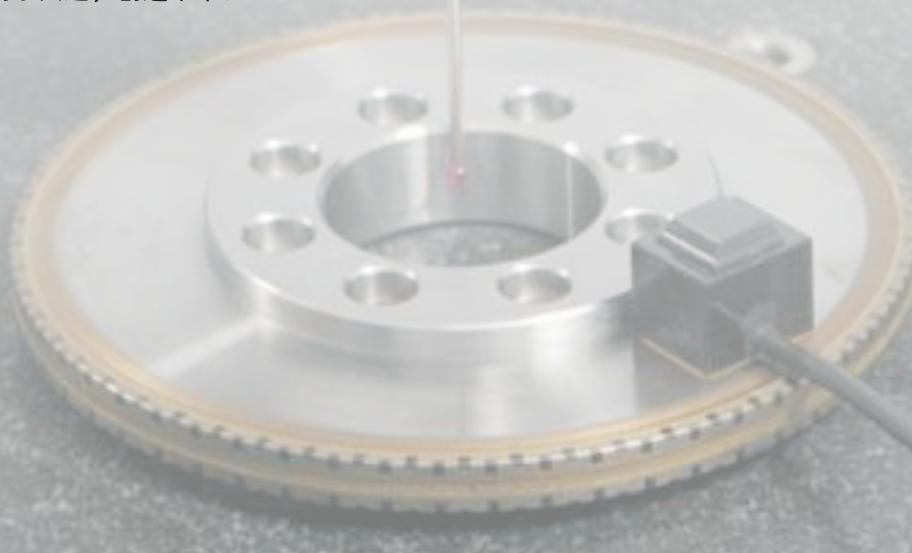
- Automobile
- Aviation
- Electronic
- Semi-conductor
- Refrigeration
- Solar
- Ceramic
- Cutting Tool
- Glass
- Magnetic Material
- Mould & Die
- Jewelry
- .....

**BELLO NEVER STOP THE EFFORT TO BE YOUR CLOSEST PARTNER!**

河南拜罗欧新材料有限公司公司是一家集研发、生产、销售为一体的高科技企业。公司主要生产陶瓷结合剂砂轮、混合结合剂砂轮、金属结合剂砂轮、树脂结合剂砂轮及电镀砂轮，服务于汽车、航空、电子、制冷、太阳能、陶瓷、刀具、玻璃、磁性材料和珠宝等行业。

本公司生产的金刚石及CBN砂轮为国内外客户提供了更经济和更高效的磨削解决方案。

拜罗欧愿与您携手共进，创造未来！





Vitrified Bond CBN Grinding Wheel For Camshaft, Crankshaft  
凸轮轴、曲轴、齿轮轴磨削用陶瓷CBN砂轮..... 1

Vitrified Bond CBN Internal Grinding Wheel  
陶瓷结合剂CBN内圆磨砂轮..... 2

Vitrified Bond Diamond Grinding Wheel For Cutting Tools  
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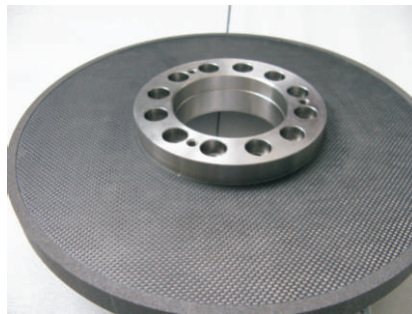
Precise Diamond & CBN Cutting Wheel  
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Diamond Rotary Dresser & Diamond Dresser  
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# Vitrified Bond CBN Grinding Wheel For Camshaft, Crankshaft And Gear Shaft 凸轮轴、曲轴、齿轮轴磨削用陶瓷CBN砂轮



## ► Feature & Advantage

- High grinding efficiency
- High precision and good surface quality
- Easy to dress

## ► Application

- For precise and high-speed grinding the camshaft
- For precise and high-speed grinding the crankpin, main journal, flange neck, thrust face and end face
- For precise and high-speed grinding the gear shaft

## ► Materials to grind

- Cast iron : Chilled cast iron, nodular cast iron, grey cast iron, alloy cast iron and etc
- Steel: 20Cr, GCr15, CF53, 45# steel, 55# steel, 80B high carbon steel and etc

## ► Grinder

- LANDIS: LT1, LT2  
SCHAUDT: CF41, CF61, ZEUSMX, ZX
- NAXOS: NAXOS-UNION, P310\*1250, Gf70
- JUNKER: JUCAM5002/10, JUCAM500, JUCRANK5000, 6000
- TOYODA: GCS63, GL5P-63, GL6P-100, GCH120B, GC32M-63, GCH63B, GL63M-T

## ► Conventional Specifications:

- 1A1, 3A1, 14A1, 9A1B, 3Q1, 14LL1

## ► 产品特点

- 磨削效率高
- 磨削工件精度高，表面质量好
- 易于修整

## ► 应用范围

- 汽车发动机凸轮轴桃形面的高速高效磨削
- 汽车发动机曲轴连接杆颈、主轴颈、法兰颈、止推面及端面的高速高效磨削
- 汽车发动机齿轮轴的高速高效磨削

## ► 磨削材料

- 铸铁类：冷激铸铁、球墨铸铁、灰口铸铁、合金铸铁等
- 钢件类：20Cr, GCr15, CF53, 45钢, 55钢, 80B高碳钢等

## ► 配套磨床

- LANDIS: LT1, Lt2
- SCHAUDT: CF41, CF61, ZEUSMX, ZX
- NAXOS: NAXOS-UNION, P310\*1250, GF70
- JUNKER: JUCAM5002/10, JUCAM500, JUCRANK5000, 6000
- TOYODA: GCS63, GL5P-63, GL6P-100, GCH120B, GC32M-63, GCH63B, GL63M-T

## ► 常用规格

- 1A1, 3A1, 14A1, 9A1B, 3Q1, 14LL1

### ► For Bearing Grinding



### 轴承磨削用陶瓷结合剂CBN砂轮

#### ► Application

- Bore grinding
- Internal & external channel grinding
- Internal & external channel super finishing

Shape 砂轮形状	Specification(mm) 规格
1A8	13*20*6
1A1W	15*4.5*M8
1A1W	22.5*13*M8
1A1W	16*28*M6
1F1W	25*4.3*M10( R2.25)
HMF	40*8*10*20

#### ► 应用范围

- 内径磨削
- 内外沟道磨削
- 内外沟道超精研磨

### ► For C.V. Joint Grinding



### 万向节磨削用陶瓷结合剂CBN砂轮

#### ► Application

- C.V. Joint cage grinding

#### ► 应用范围

- 等速万向节球笼及内外沟道磨削

Shape 砂轮形状	Specification(mm) 规格
1F1W	25*4.3*M10( R2.25)
HMF	40*8*10*20

### ► For Nozzle Grinding



### 喷嘴磨削用陶瓷结合剂CBN砂轮

#### ► Application

- Nozzle grinding

#### ► 应用范围

- 喷嘴中孔座面磨削

形状代号	尺寸 (mm)
1B8W	Φ 3.45*8.99T-60° -M2
1A8W	Φ 2.0*5.7T*16L-120° -M3*0.5
1A8W	Φ 10.78*4.8T/8.2*31.1*1.3-M4/4.5
1A8	Φ 4.5*15T*2.4H

### ► For Compressor Grinding



### 压缩机磨削用陶瓷结合剂CBN砂轮

#### ► Application

- Upper & bottom bearing internal grinding
- Piston sleeve internal grinding
- Cylinder internal grinding

Shape 砂轮形状	Specification(mm) 规格
1A1W	15.5*50*M10
1A1W	8.3*16*M12
1A1W	22.5*37*M20
1A1W	51*52*M18
1A8	15.4*48*10

#### ► 应用范围

- 上、下轴承内圆磨削
- 活塞滚套内圆磨削
- 气缸内圆磨削

### ► Peripheral Grinding Wheel For Indexable Cutting Tools 可转位刀片周边磨金刚石砂轮



#### ► Feature & Advantage

- High durability, high resistance
- Good surface accuracy retentivity
- High stock remove efficiency
- Good edge quality of inserts

#### ► 产品特点

- 耐磨性好、耐用度高
- 表面精度保持性好
- 材料去除率高
- 刃口质量好

#### ► 应用范围

- PCD
- PCBN
- 硬质合金
- 陶瓷
- 金属陶瓷

#### ► Application

- PCD/PCBN
- Carbide
- Ceramic
- Cermet

#### ► Grinder 设备

- AGATHON
- WENDT
- WAIDA
- TDG

Shape 形状	Drawing 图纸	Specification(mm) 规格	
2A2T		2A2T D*T*H*W*X	
		D	250、350
		W	5-18
11A2T		11A2T D*T*H*W*X	
		D	300、350、400
		W	3-18
12A2T		12A2T D*T*H*W*X	
		D	220、350、400
		W	3-18
6A2M		6A2M D*T*H*W*X	
		D	300、350
		W	5-30
		X	6-10

### ► For PCD & PCBN Cutting Tools PCD/PCBN刀具用陶瓷结合剂金刚石砂轮



#### ► Application

- PCD cutting tools
- PCBN cutting tools

#### ► Grinder 配套设备

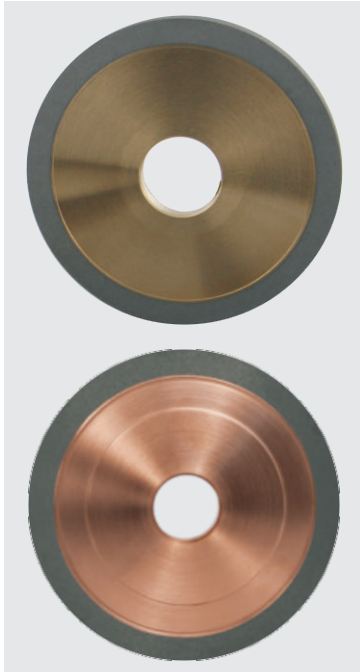
- EWAG
- Coborn

#### ► 应用范围

- PCD刀片
- PCBN刀片

Shape 形状	Drawing 图纸	Specification(mm) 规格	
6A2H		6A2H D*T*H*W*X	
		D	125-150
		W	3-20
		X	5-12

► **Hybrid Bond Diamond Grinding Wheel For Fluting 强力开槽用混合结合剂金刚石砂轮**



► **Feature & Advantage**

- Good shape keeping
- Big cutting depth
- High efficient grinding
- Perfect cutting edge quality
- Long tool life

► **Application**

- Cemented carbide
- Cermet
- HSS

► **产品特点**

- 良好的形状保持性
- 切削深度大
- 磨削效率高
- 刃口质量完美
- 寿命长

Shape 形状	Drawing 图纸	Specification(mm) 规格	
1A1		1A1 D*T*H*X	
		D	40-200
		T	2-30
		X	3-15
1V1		1V1 D*T*H*X	
		D	40-200
		T	2-30
		X	3-15

► **Diamond Grinding Wheel For CNC Grinder CNC刀具磨床用金刚石砂轮**



► **Application**

- Cemented carbide
- Cermet
- HSS

► **Grinder 配套设备**

- ANCA
- WALTER
- ROLLOMATIC

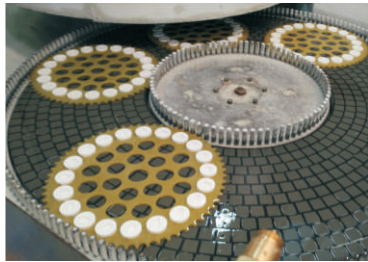
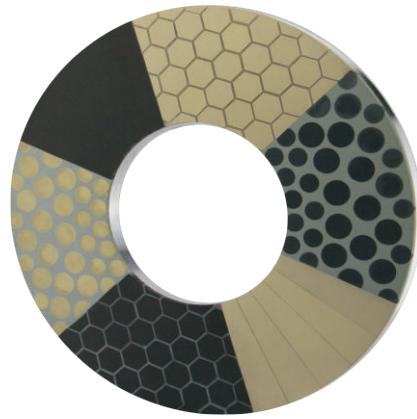
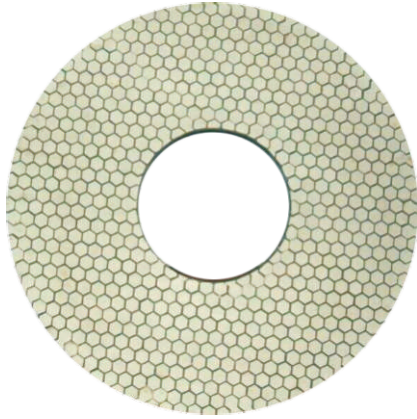
► **应用范围**

- 硬质合金
- 金属陶瓷
- 高速钢

Shape 形状	Drawing 图纸	Specification(mm) 规格	
1A1		1A1 D*T*H*X	
		D	40-200
		X	3-15
		T	2-30
1V1		1V1 D*T*H*X	
		D	40-200
		X	3-15
		T	2-30
11V9		11V9 D*T*H*X*U	
		D	50-150
		X	2-15
		U	3-15
12V9		12V9 D*T*H*X*U	
		D	50-150
		X	2-15
		U	3-15

► Vitrified Bond Diamond Grinding Disc

陶瓷结合剂金刚石研磨盘



► Feature & Advantage

- Semi-fine, fine grinding process of double or single side grinding
- Parallelism tolerance <0.003mm
- Flatness tolerance <0.003mm, Ra<0.005 μ m
- High precision, size error is 1-2 μ m in single disc parts
- Low processing cost, clean working environment

► Application

- Sealing components (silicon carbide, alumina ceramics, zirconia ceramics, cermets, etc)
- Cutting tools (carbide, PCD, PCBN, HSS, etc)
- Ceramic valves
- All kinds of powder metallurgy and cemented carbide products

► 产品特点

- 双端面或单端面磨削的半精磨、精磨
- 平行度<0.003mm、平面度<0.003mm、Ra<0.005 μ m
- 加工精度高，单盘零件之间的误差为1-2 μ m
- 综合加工成本低，工作环境清洁

► 应用范围

- 密封件（碳化硅、氧化铝陶瓷、氧化锆陶瓷、金属陶瓷等）
- 刀具（硬质合金、PCD、PCBN、高速钢等）
- 陶瓷阀门
- 各种粉末冶金制品和硬质合金制品等

Shape 形状	Drawing 图纸	Specification(mm) 规格	
1A2T		1A2T D*T*H*W*X	
		D	250-1200
		W	10-350
		X	3-10
6A2B		6A2B D*T*H*W*X	
		D	250-1200
		W	10-350
		X	3-10



► Resin Bond Diamond & CBN Grinding Disc 树脂结合剂磨盘



► Feature & Advantage

- Roughing, semi-fine grinding process of double or single side grinding
- Work piece flatness tolerance < 0.003mm
- High workpiece precision, Ra < 0.05 μm
- Perfect abrasion resistance and long life span

► Application

- Parts of Air-conditioning compressor: cylinder block, sleeve, slide
- Hydraulic parts: vane of vane pump
- Tungsten carbide cutting tools: cutters
- Magnetic material: magnetic soft ferrite material etc.
- Artificial gem: glass, crystal, zircon and spinel and so on.

► 产品特点

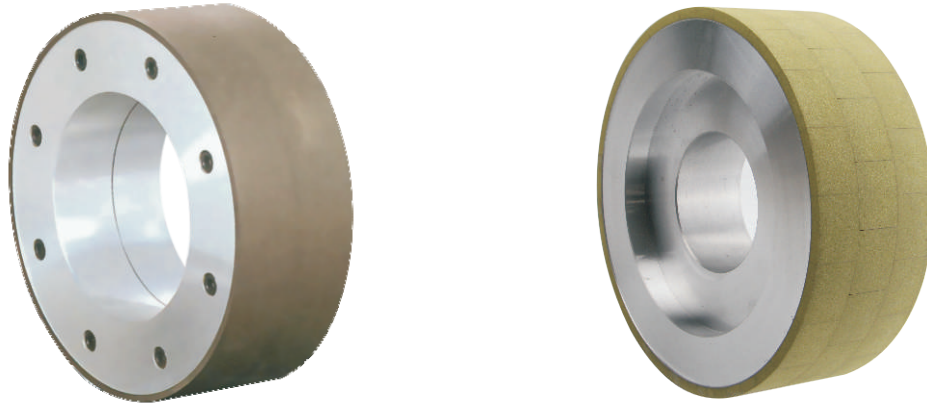
- 双端面或单端面磨削的粗磨、半精磨
- 加工工件平行度、平面度 < 0.003mm, 且稳定性好
- 加工表面质量好, Ra < 0.05 μm
- 耐用度高、使用寿命长

► 应用范围

- 空调压缩机配件: 缸体、滚套、滑片
- 液压件零配件: 叶片泵叶片
- 硬质合金刀具: 刀具
- 磁性材料: 软磁铁氧体磁性材料等
- 人造宝石: 主要用于玻璃、水晶、锆石、尖晶石等材料的加工

Shape 形状	Drawing 图纸	Specification(mm) 规格	
6A2M		6A2M D*T*H*W*X	
		D	250-1200
		W	10-350
		X	3-10
6A2H		6A2H D*T*H*W*X	
		D	250-1200
		W	10-350
		X	3-10

## ► Centerless Grinding Wheel 无心磨砂轮



### ► Feature & Advantage

- Used for rough grinding, semi-fine grinding and fine grinding
- Efficient batch external grinding
- High roundness and cylindricity of workpiece and good consistency of dimension
- Good surface finish after fine grinding

### ► Application

- Tungsten carbide, ceramic, magnetic material
- Stainless steel bar
- PCD/PCBN composite

### ► 产品特点

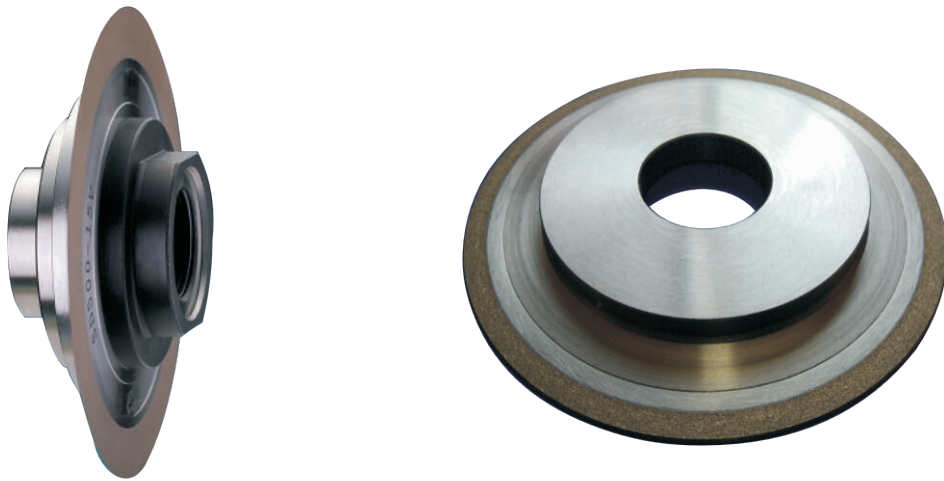
- 适用于粗磨、半精磨和精磨
- 批量成型，高效
- 工件的圆度、圆柱度精度高，尺寸一致性好
- 精磨后工件的表面光洁度好

### ► 应用范围

- 硬质合金、陶瓷、磁性材料、
- 不锈钢棒材
- PCD、PCBN 复合片等材料的加工

Shape 形状	Drawing 图纸	Specification(mm) 规格	
1A1		1A1 D*T*H*X	
		D	125-600
		T	50-350
		H	75、127、203
		X	5、10
6A1		6A1 D*T*H*X	
		D	125-600
		T	50-350
		H	75、127、203
		X	5、10
9A1		9A1 D*T*H*X	
		D	125-600
		T	50-350
		H	75、127、203
		X	5、10

► Optical Profile Grinding Wheel 光学曲线磨砂轮



► Feature & Advantage

- High speed grinding
- Precise grinding
- Excellent shape-maintenance
- Long tool life

► Application

- Precise mould & die
- Precise punch
- Precise cutting tool
- Precise instrument

► 产品特点

- 锋利度好
- 精密度高
- 保型性好
- 寿命长

► 产品应用范围

- 精密模具零部件
- 精密冲头
- 精密刀具
- 精密仪器

Shape 形状	Drawing 图纸	Specification(mm) 规格	
3A1		3A1 D*U*H*X	
		D	75/85/100
		U	0.4/0.5/0.6/0.9/1.0
		H	22.25/24
		X	3
14K1		14K1 D*W*V*T	
		D	65/75/85/100/125
		W	5/8/12
		V	10/12/15
		T	6
1B9/4B2		1B9/4B2 D*T*H*W	
		D	65/75/85/100/125
		T	6
		H	22/22.25/24
		W	8/12

► **Metal & Resin Bond Dicing Blade Without Steel Core**

**金属、树脂结合剂整体切割砂轮**



► **Feature & Advantage**

- Flexible cutting
- Fine surface finishing
- High precise cutting
- Good shape maintenance

► **Application**

- Semiconductor
- Optical glass
- Quartz
- Magnetic material
- Cutting tool

► **产品特点**

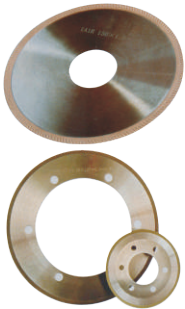
- 弹性切割
- 表面高精度好
- 高精密切割
- 极少需要修整

► **应用范围**

- 半导体
- 光学玻璃
- 石英
- 磁性材料
- 刀具材料

► **Metal & Resin Bond Cutting Blade With Steel Core**

**金属、树脂结合剂整体切割砂轮**



► **Feature & Advantage**

- Flexible cutting
- Fine surface finishing
- High precise cutting
- Good shape maintenance

► **Application**

- Semiconductor
- Optical glass
- Quartz
- Magnetic material
- Cutting tool

► **产品特点**

- 弹性切割
- 表面高精度好
- 高精密切割
- 极少需要修整

► **应用范围**

- 半导体
- 光学玻璃
- 石英
- 磁性材料
- 刀具材料

► **High Precision Gang Saw Blade**

**高精密组合切割砂轮**



► **Feature & Advantage**

- High efficiency cutting
- High uniformity cutting
- High precision cutting

► **Application**

- Semiconductor
- Optical glass
- Quartz
- Magnetic material
- Steel
- Ceramic

► **产品特点**

- 高效率切割
- 高精密切割
- 工件品质高一致性

► **应用范围**

- 半导体
- 光学玻璃
- 石英
- 磁性材料
- 钢件
- 陶瓷

► **Electroplated Blades With Hub**

**轮毂型电镀超薄切割砂轮**



► **Feature & Advantage**

- High speed cutting
- High precision cutting
- Long too life
- No need dressing

► **Application**

- Silicon
- GaAs
- Glass
- Ceramic
- Quartz

► **产品特点**

- 高锋利度
- 高精密切割
- 寿命长
- 无需修磨

► **应用范围**

- 硅片
- 砷化镓
- 玻璃
- 陶瓷
- 石英

► Silicon Wafer Back-side Diamond Grinding Wheel 硅片减薄金刚石砂轮



► Feature & Advantage

- High precision cutting
- High efficiency cutting
- No chipping & scratch

► Application

- Silicon wafer

► 产品特点

- 高精密切割
- 高效率切割
- 无崩边划痕

► 应用范围

- 硅片

► LED Back-side Diamond Grinding Wheel LED减薄金刚石砂轮



► Feature & Advantage

- High precision cutting
- High efficiency cutting
- No chipping & scratch

► Application

- LED

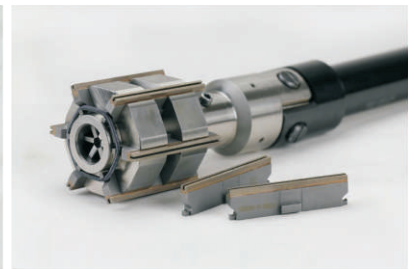
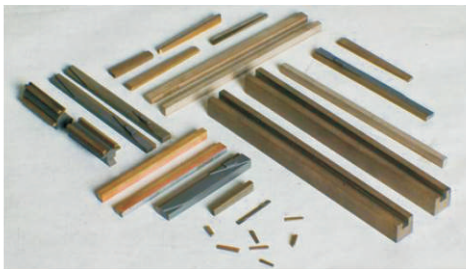
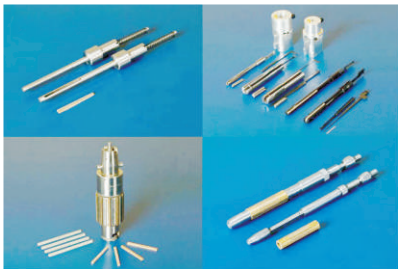
► 产品特点

- 高精密切割
- 高效率切割
- 无崩边划痕

► 应用范围

- LED

► Diamond Honing stone 金刚石珩磨条



► Feature & Advantage

- High efficiency
- High precision
- Fine surface finishing
- Long tool life

► Application

- Cast iron
- Silicon-aluminum alloy
- Babbitt alloy
- Brass, bronze alloy
- Carbide
- Ceramic

► 产品特点

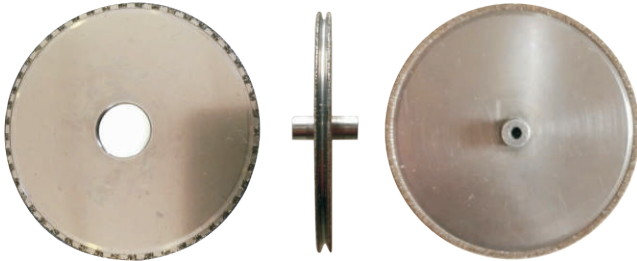
- 磨削效率高
- 精密度高
- 表面粗糙度好
- 寿命长

► 应用范围

- 铸铁
- 硅铝合金
- 巴氏合金
- 青铜、黄铜合金
- 玻璃、陶瓷

▶ **Electroplated CBN Slot Grinding Wheel**

**电镀CBN槽磨砂轮**



▶ **Application**

- Compressor
- Steering gear box

▶ **应用范围**

- 空调压缩机成型槽磨
- 汽车方向机成型槽磨

▶ **Electroplated Tool For Electronic Window**

**视窗加工电镀砂轮**



▶ **Application**

- Drilling
- Reaming
- Chamfering
- Edging

▶ **应用范围**

- 打孔
- 扩孔
- 倒边
- 磨边

▶ **Magnetic Shoe Forming Grinding Wheel**

**磁瓦成型砂轮**



▶ **Application**

- Magnetic Shoe

▶ **应用范围**

- 磁瓦成型

▶ **Specification**

- Diamond grit size: 80#-280#
- Diameter: 100-500mm

▶ **Electroplated Diamond Wire Saw**

**电镀金刚石线锯**



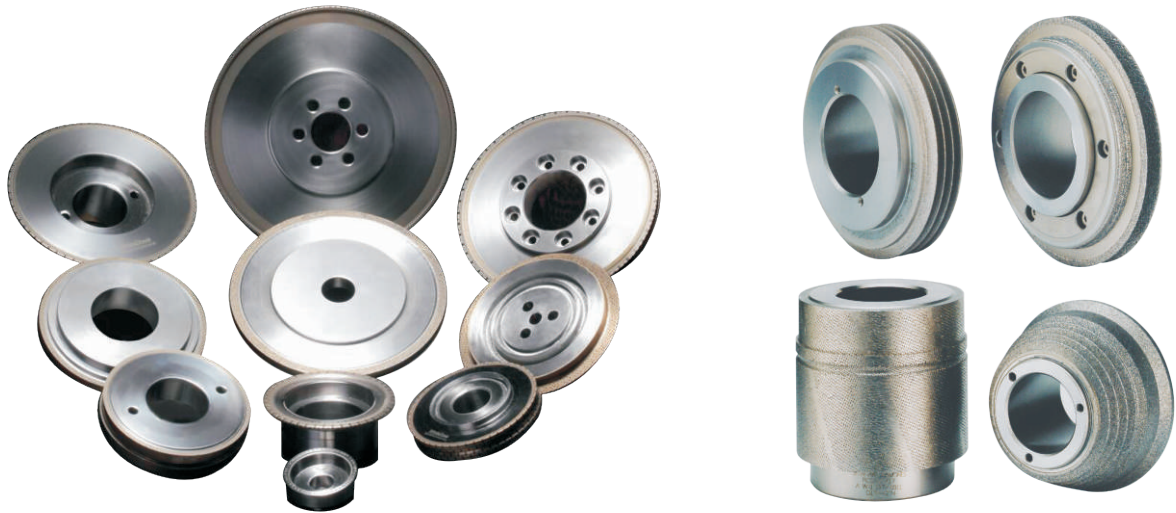
▶ **Application**

- Sapphire, glass
- Ceramic, quartz
- Magnetic material
- Semiconductor

▶ **应用范围**

- 蓝宝石、玻璃
- 陶瓷、石英
- 磁性材料
- 半导体材料

► **Diamond Rotary Dresser 金刚石修整滚轮**



► **Feature & Advantage**

- High precision
- High efficiency
- Long working life

► **Application**

- Gear industry
- Bearings industry
- Automotive components industry
- Refrigeration industry

► **产品特点**

- 高精度
- 高效率
- 长寿命

► **应用范围**

- 齿轮加工行业
- 轴承行业
- 汽车零部件行业
- 制冷行业

► **Diamond Dresser 金刚石修整笔**



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Grind To Win