

MORESUPERHARD



河南磨澳超硬材料有限公司
Henan More Super Hard Products Co., Ltd

| 公司简介 COMPANY PROFILE

河南磨澳超硬材料有限公司是一家专业生产及销售金刚石和CBN工具的高新技术企业，致力于为客户提供特别定制或是符合FEPA标准的磨料磨具产品，全球超过800家客户受惠于我们在产品开发，生产和应用方面的卓越能力，满足了客户对磨削和切削方面更高效，更精密，更经济的需求。

"Henan More Super Hard Products Co., Ltd" is specialized in manufacturing and marketing of diamond & CBN tools. We devoted to offer diamond & CBN tools following customer special specification or FEPA standard. Over 800 customers benefit from our skills of development, manufacture and application, they find a way to make the grinding and cutting high efficiency, high precision, and better economy.

磨澳为以下多种应用领域提供配套砂轮：

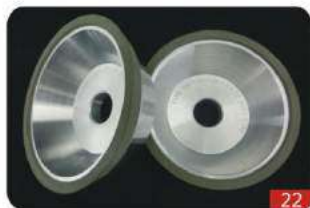
- ★ 硬质合金刀具CNC砂轮: 排屑槽磨削, 容屑槽磨削, 端面磨削, 后角磨削, 外圆磨削
- ★ 标准刀具磨削, 适用机床: AGATON, WENDT, HAAS, WAIDA, EWAG.
- ★ 木工锯片和工具磨削
- ★ 高速钢刀具磨削
- ★ 切割片
- ★ 更多砂轮可根据客户定制生产

"More Super Hard" supplies the wheels for several applications mainly:

- ★ Carbide Round tools on CNC machines: Flute Grinding, Gash Grinding, end facing, Clearance angle grinding, Cylindrical grinding.
- ★ Insert grinding for machines such as: AGATHON, WENDT, HAAS, WAIDA and EWAG.
- ★ Woodworking saws and tools.
- ★ HSS tools.
- ★ Cut off wheels.
- ★ Many more which can be found in our catalogue, and can be produced as customer design.

MORESUPERHARD







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| 树脂结合剂系列 RESIN BOND WHEELS



★ 特性 (Features)

- 易修整 (Easy to dress)
- 自锐性好 (Good self-sharpening)
- 加工工件光洁度高
(High finishing of work piece)
- 适用于精密磨削
(Specially for precision grinding and polishing)



宝石抛光用金刚石磨盘
Resin diamond polishing pad for gemstone



卷纸行业磨削用砂轮
Resin CBN grinding wheel for tissue



硬质合金刀具用金刚石砂轮
Resin diamond grinding wheel for carbide tools

★ 用途 (Application)

树脂金刚石砂轮 (Resin bond diamond grinding wheels)

硬质合金(钨钢) (Tungsten Carbide)

陶瓷 (Ceramics)

磁性材料 (Magnetic Materials)

半导体 (Semiconductor)

光学玻璃 (Optical Glass)



树脂无心磨砂轮
Resin bond diamond centerless grinding wheel

树脂CBN砂轮 (Resin bond CBN grinding wheels)

高速钢 (High Speed Steel)

铸铁 (Cast Iron)



木工锯片磨削用砂轮
Resin diamond wheel for woodworking tools

| 陶瓷结合剂系列 VITRIFIED BOND WHEELS



★ 特性 (Features)

- 切削锋利 (Very sharp grinding)
- 切削效率高 (High grinding efficiency)
- 使用寿命长 (Long work-life)
- 磨削不易发热和堵塞
(Less heat and jam generate in grinding)
- 易修整 (Easy to dress)



天然钻石抛光用陶瓷金刚石砂轮
Vitrified diamond bruting wheel for natural diamond



★ 用途 (Application)

陶瓷金刚石砂轮

(Vitrified bond diamond grinding wheels)

硬质合金 (钨钢) (Tungsten Carbide)

金刚石 (PCD) 刀具 (PCD tools)

立方氮化硼 (CBN) 刀具 (CBN tools)

陶瓷 (Ceramics)

金属陶瓷 (Cermets)



陶瓷CBN内圆磨砂轮
Vitrified CBN internal grinding wheel

陶瓷CBN砂轮

(Vitrified bond CBN grinding wheels)

合金铸铁 (Cast Alloy Steel)

冷激铸铁 (Chilled Cast Iron)

球墨铸铁 (Nodular Cast Iron)

45#钢 (45# Steel)

55#钢 (55# Steel)



硅片减薄砂轮
Silicon wafer back grinding wheel



凸轮轴磨削用陶瓷CBN砂轮
Vitrified CBN grinding wheel for camshaft



陶瓷金刚石刀具磨砂轮
Vitrified diamond grinding wheel for PCD PCBN inserts

| 金属结合剂系列 METAL BOND WHEELS



★ 特性 (Features)

- 切削锋利 (Sharp grinding)
- 切削效率高 (High grinding efficiency)
- 使用寿命长 (Long work-life)
- 保型性好 (Good shape preservation)



蓝宝石晶片倒角砂轮
Sapphire wafer back chamfering wheel



金属结合剂金刚石钻头
Metal bond diamond drill bit



玻璃磨边砂轮
Metal diamond grinding wheel for glass

★ 用途 (Application)

金属金刚石砂轮

(Metal bond diamond grinding wheels)

石英晶体 (Quartz Crystal)

硬质合金 (钨钢) (Tungsten Carbide)

玻璃 (Glass)

陶瓷 (Ceramics)

宝石 (Gem)

耐火材料 (Fireproofing)



汽车玻璃磨削砂轮
Metal diamond grinding wheel for Auto glass

金属CBN砂轮

(Metal bond CBN grinding wheels)

高速钢 (High Speed Steel)

工具钢 (Tool Steel)

模具钢 (Die Steel)

不锈钢 (Stainless Steel)

钛合金 (Titanium Alloy)



金属成型磨砂轮
Metal bond diamond form grinding wheel



| 电镀系列 ELECTROPLATED WHEELS



★ 特性 (Features)

- 切削锋利 (Very sharp grinding)
- 切削效率高 (High grinding efficiency)
- 加工精度高 (High machining precision)
- 保性好 (Good shape preservation)
- 可制作成各种形状 (Various shapes)



刹车盘磨削砂轮
Brake pad grinding wheel



★ 用途 (Application)

电镀金刚石砂轮

(Electroplated diamond grinding wheels)

石材 (Stones)

硬质合金 (钨钢) (Tungsten Carbide)

玻璃 (Glass)

陶瓷 (Ceramics)

宝石 (Gem)



宝石加工用电镀小磨针
Electroplated diamond grinding heads for gem

电镀CBN砂轮

(Electroplated CBN grinding wheels)

高速钢 (High Speed Steel)

工具钢 (Tool Steel)

模具钢 (Die Steel)

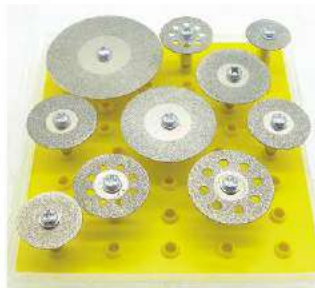
不锈钢 (Stainless Steel)



宝石加工用电镀小磨头
Electroplated diamond grinding points for gem



磨槽磨齿用电镀砂轮
Electroplated grinding wheel for slot and gear



宝石切割片
Diamond cutting wheel for gem



| 切割片系列 CUTTING WHEELS



★ 特性 (Features)

切削锋利 (Very sharp cutting)

切削效率高 (High cutting efficiency)

强度高 (High strength)



电镀切割片
Electroplated cutting wheel



★ 用途 (Application)

半导体及其封装材料 (Semiconductor)

磁性材料 (Magnetic Material)

硬质合金棒 (Tungsten Carbide Rods)

陶瓷管 (Ceramic Tube)

玻璃管 (Glass Tube)

石英 (Quartz)

光学玻璃 (Optical Glass)

石材 (Stone)

大理石 (Marble)

花岗岩 (Granite)



硬质合金专用切割片
Resin cutting wheel for tungsten carbide



光学玻璃超薄切割片
Resin diamond cutting wheel for optical glass



石材用烧结金刚石切割片
Sintered diamond cutting wheel for stone, marble, granite



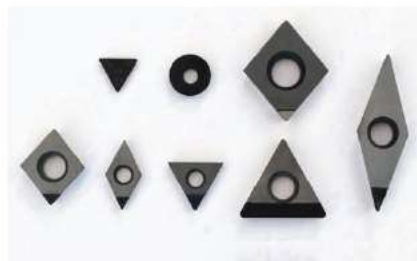
宝石切割用直牙片, 斜牙片
Diamond cutting wheel for gem

| PCD/PCBN 刀具磨削系列 PCD/PCBN TOOLS GRINDING WHEELS



★ 特性 (Features)

- 切削锋利 (Very sharp grinding)
- 切削效率高 (High grinding efficiency)
- 材料去除率高 (High stock removal)
- 加工刀片刃口质量好
(Superior edge quality of inserts)



★ 用途 (Application)

专门用于PCD/PCBN 刀片的粗磨，半精磨和精密磨削。

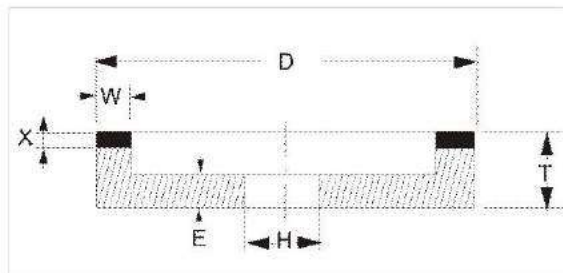
(Specialized in PCD/PCBN inserts rough grinding, semi-finishing grinding and finishing grinding)

PCD/PCBN刀片
PCD/PCBN inserts



★ 规格及图纸 (Specifications and drawings)

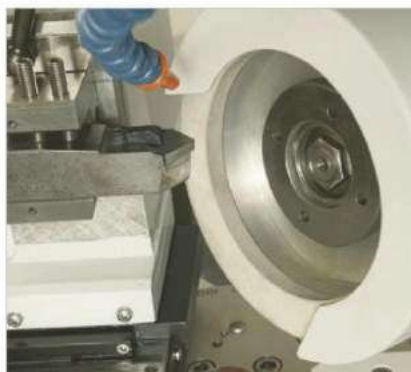
6A2



Type	D	T	H	W	X	Grit	Machine
6A2	150	40	20 32 40	3 5 10 15 20	10	D46-D7	EWAG WS Series



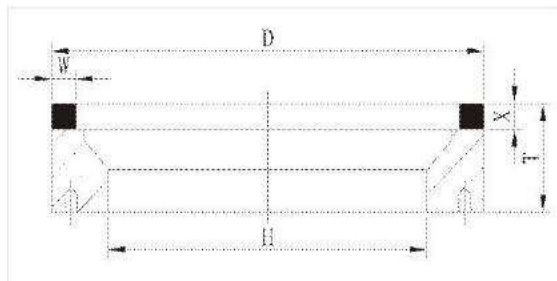
磨PCD/PCBN刀片砂轮
Vitrified diamond grinding wheel for PCD/PCBN inserts



PCD 刀片磨削
PCD inserts grinding

★ 规格及图纸 (Specifications and drawings)

2A2T



Type	D	T	H	W	X	Grit	Machine
2A2T	250	42	215	6 8 10	6	D46 D54	AGATHON Pa25
2A2T	350	45	310	8	6	D46	WENDT WCD



整体CBN刀片周边磨砂轮
Solid CBN inserts profile grinding wheel

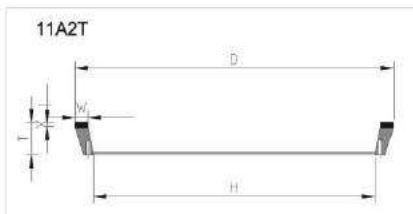


可转位刀片周边磨砂轮
Vitrified diamond profile wheel for indexable inserts



★ 规格及图纸 (Specifications and drawings)

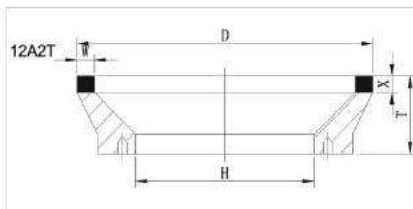
11A2T



11A2T 金刚石周边磨砂轮
11A2T Diamond profile grinding wheel

Type	D	T	H	W	X	Grit	Machine
11A2T	250	69	50	8 12 20	6	D46	EWAG EWAMATIC
11A2T	400	29	368	8 10 12	6	D46 D54	AGATHON 400 COMBI 400 PENTA
11A2T	400	39	355.06	8 10 12 15	6	D46	WENDT WAC 735

12A2T



12A2T 金刚石周边磨砂轮
12A2T Diamond profile grinding wheel

Type	D	T	H	W	X	Grit	Machine
12A2T	350	27	300	8 12 20	6	D46	AGATHON 350 COMBI
12A2T	400	26	340	8 10 12	6	D46 D54	AGATHON 400 COMBI 400 PENTA

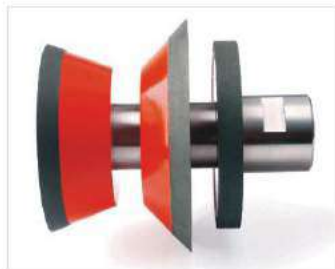


| CNC刀具磨削系列 CNC TOOL GRINDING WHEELS



★ 特性 (Features)

- 出色的刃口处理 (Excellent cutting edge processing)
- 切削效率高 (High grinding efficiency)
- 切削深度大 (Big cutting depth)
- 形状保持性好 (Good shape keeping)
- 工作寿命长 (Long-work life)



★ 用途 (Application)

主要用于硬质合金，高速钢，不锈钢钻头，铣刀和铰刀等数控刀具的磨削。

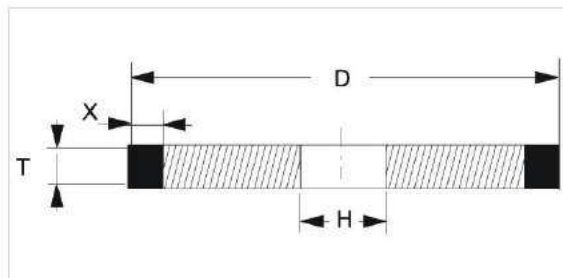
(Mainly used for grinding tungsten carbide drill, HSS drill, stainless steel drill, mill and reamer.)

CNC 工具磨床配套砂轮
Grinding wheel for CNC tool grinder



★ 规格及图纸 (Specifications and drawings)

1A1



Type	D	T	H	X	Grit
1A1	100	5	20 31.75 32	5 10	D46 D64
		6			
		8			
	125	10			
		12			
		15			
	150	20			



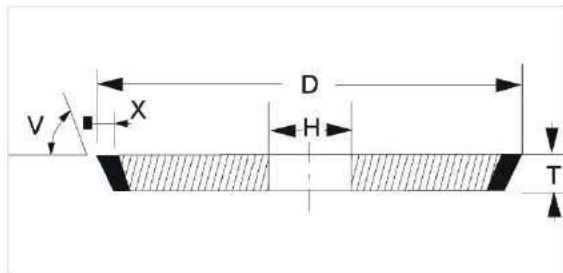
1A1 强力开槽砂轮
1A1 Flute grinding wheel



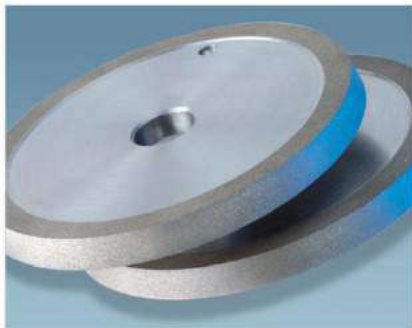
强力开槽
Flute grinding

★ 规格及图纸 (Specifications and drawings)

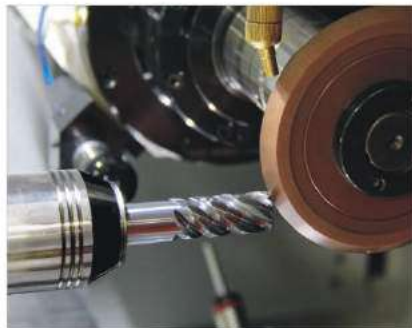
1V1



Type	D	T	H	X	Grit
1V1	100	10	20	5	D46
	125		31.75	10	D64



1V1 容屑槽磨削砂轮
1V1 Gash grinding wheel

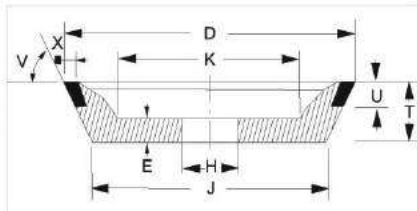


容屑槽磨削
Gash grinding



★ 规格及图纸 (Specifications and drawings)

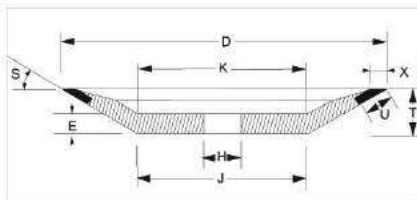
11V9



11V9树脂金刚石砂轮
11V9 Resin diamond grinding wheel

Type	D	T	H	U	X	Grit
11V9	75	30	20 31.75	10	3	D46 D64
	100	35			2 3	
	125	40			3	

12V9



12V9 树脂金刚石砂轮
12V9 Resin diamond grinding wheel

Type	D	T	H	X	Grit
12V9	100	10 12	20 31.75	5	D46 D64
	125				
	150				



| 常用砂轮型号示意图

STANDARD WHEEL SHAPE

型号 Model	示意图 Schematic Drawing	型号 Model	示意图 Schematic Drawing
1A1		2A2T	
1A1R		3A1	
1A2		3F1	
1A8		4A2	
1E1		4B2	
1EE1		4B9	
1F1		4BT9	
1FF1		6A2	
1L1		6A2C	
1Q1		6A9	
1V1		6C9	

型号 Model	示意图 Schematic Drawing	型号 Model	示意图 Schematic Drawing
9A1		11V9	
9A3		12A2	
11A1		12A2C	
11A2		12A2T	
11A2C		12D1	
11A9		12V2	
11B2		12V9	
11C9		14A1	
11V2		14E1	
11V4		14EE1	
11V5		DWA	



| 订购须知 ORDERING INFORMATION

工件信息 (What type of product do you produce)	
(1) 名称 Name	
(2) 材质 Material	
(3) 硬度 Hardness	
(4) 尺寸 Size	
(5) 切削量 Stock Removal	
(6) 表面光洁度 Surface Roughness	
(7) 精度 Accuracy Tolerance	
磨床信息 (What machine do you use)	
(1) 品牌和型号 Type and Model	
(2) 主轴功率 Spindle Capacity	
(3) 砂轮转速 Grinding Wheel Speed	
(4) 进刀量 Feed Rate	
(5) 切削深度 Depth of Cut	
(6) 冷却液 Coolant Type	
(7) 其他信息 Other Conditions	
砂轮信息 (What kind of wheel did you use before)	
(1) 型号和尺寸 Shape and Size	
(1) 生产厂家 Manufacturer	
(1) 存在的问题 Problems	
数量及交货期 (How many and what time do you need)	
(1) 数量 Quantity	
(1) 交货期 Required Delivery Time	
其他要求 (Other Requirements)	

订购示例 Ordering Example

磨料类型 Material	结合剂 Bond	形状 Shape	直径 D	孔径 H	厚度 T	环宽 W	环高 X	粒度 Grit	浓度 C	数量 QTY
金刚石 Diamond	陶瓷 Vitrified	6A2	150	40	40	20	10	1500# (D15A)	150%	10



中国与主要国家超硬磨料及微粉的粒度对照表

GRAIN SIZE CONVERSION CHART

磨澳标准 More Super Hard standard	中国 China		日本 Japan		西德 FEPA	
	粒度 Grit	尺寸 Micron (μm)	粒度 Grit	尺寸 Micron (μm)	粒度 Grit	尺寸 Micron (μm)
20	16/18	1000/1180	16/18	1000/1180	D1180	1000/1180
22	18/20	850/1000	18/20	1000/850	D1001	850/1000
24	20/25	710/850	20/30	600/850	D851	710/850
30	25/30	600/710			D711	600/710
36	30/35	500/600	30/40	425/600	D601	500/600
40	35/40	425/500			D501	425/500
46	40/45	355/425	40/50	300/425	D426	355/425
54	45/50	300/355			D356	300/355
60	50/60	250/300	50/60	250/300	D301	250/300
70	60/70	212/250	60/80	180/250	D251	212/250
80	70/80	180/212			D213	180/212
90	80/100	150/180	80/100	150/180	D181	150/180
100	100/120	125/150	100/120	125/150	D151	125/150
120	120/140	106/125	120/140	106/125	D126	106/125
150	140/170	90/106	140/170	90/106	D107	90/106
	170/200	75/90	170/200	75/90	D91	75/90
180	200/230	63/75	200/230	63/75	D76	63/75
240	230/270	53/63	230/270	53/63	D64	53/63
280	270/325	45/53	270/325	45/53	D54	45/53
320	325/400	38/45	325/400	38/45	D46	38/45
W40	M36/54	36/54	400	34/38	D45	40/50
	M22/36	22/36	500	28/34	D35	32/40
W28	M20/30	20/30	600	24/28	D25	25/32
	M12/22	12/22	700	20/24	D20	25/40
W20	M10/20	10/20	800	16/20	D20A	25/30
	M8/16	8/16	1000	13/16	D20B	30/40
	M8/12	8/12				
W14	M6/12	6/12	1200	10/13	D15	15/25
W10	M5/10	5/10	1500	8/10	D15A	10/15
W7	M4/8	4/8	2000	6/8	D15B	15/20
	M3/6	3/6	2500	5/6	D15C	20/25
W5	M2.5/5	2.5/5	3000	4/5	D7	5/10
	M2/4	2/4	4000	3/4	D3	2/5
W3	M1.5/3	1.5/3	5000	2/3	D1	1/2
W1.5	M1/2	1/2	8000	½	D0.7	0.5/1
	M0/2	0/2				
W1	M0.5/1.5	0.5/1.5	15000	0/1	D0.25	0.5
	M0.5/1.0	0.5/1				
	M0/1.0	0/1.0				
	M0/0.5	0/0.5				



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