



柘城鸿祥超硬材料有限公司
ZHECHENG HONGXIANG SUPERHARD MATERIAL CO., LTD.



柘城鸿祥超硬材料有限公司
ZHECHENG HONGXIANG SUPERHARD MATERIAL CO., LTD.



公司 简介

柘城鸿祥超硬材料有限公司成立于90年隶属于万克集团，是一家金刚石制品为主的高新技术企业。总投资2.5亿元，占地187亩，总建筑面积12万平方米，拥有标准化厂房八栋，办公楼科研楼各一栋，建有省级工程技术研究中心。

主要生产人造金刚石、金刚石微粉、金刚石聚晶复合片、金刚石锯片、金刚石玻璃工具、金刚石砂轮、金刚石工具等金刚石制品系列专业生产厂家。

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Zhongcheng Hongxiang Superhard Material Co., Ltd was founded in 1990 which is a high-tech enterprise of diamond products, funded by more than 200 millions investment. The plant covers an area more than 124000m², including eight standard workshops, one office building and one research building. It is also a provincial engineering technology center.

The main products are synthetic diamond, diamond powder, polycrystalline diamond composite (PDC), diamond saw blade, diamond glass tools, diamond wheel, diamond tools etc. We are Specialty Manufacturer for diamond Series.

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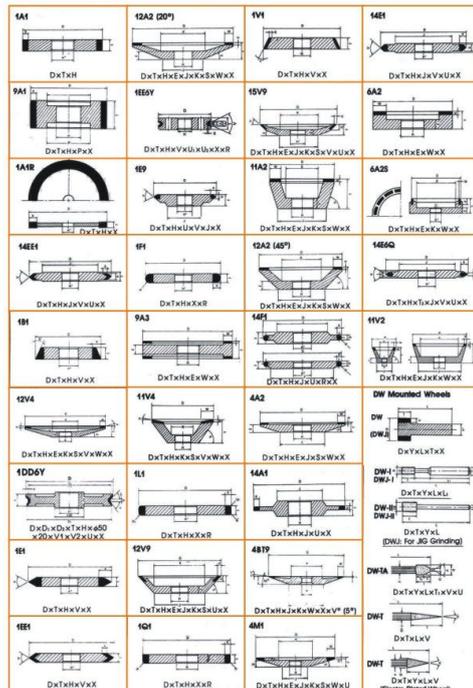
Resin bond diamond grinding wheel 树脂结合金刚石砂轮

Suitable for hard alloy, ceramic, HSS, cast iron, and other materials.
They are mainly used for precise sharpening solid carbide,
HSS milling cutter and drill and grinding PCD & PCBN cutters.
The wheels are suitable for CNC tool grinder and conventional tool grinder.

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Resin bond diamond grinding wheel 树脂结合金刚石砂轮

17/18



Diamond Cup wheel-Swirly				
Outer Diameter	Arbor	Segment		
		Inches	Mm	Number
4.125"	105	22.23	24 × 7 × 5/8	10/13
4.5"	115	22.23	25 × 7 × 5/8	9/18
5"	125	22.23	25 × 7 × 5/8	9/18
6"	150	22.23	25 × 8 × 5/8	10/20
7.1"	180	22.23	25 × 8 × 5/8	12/18/24
9"	230	22.23	29 × 8 × 5/8	18/24/32



Diamond Cup wheel-Double				
Outer Diameter	Arbor	Segment		
		Inches	Mm	Number
4"	100	22.23	30 × 5 × 7.2	12
4.125"	105	22.23	31 × 5 × 7.2	12
4.3"	110	22.23	32 × 5 × 7.2	12
4.5"	115	22.23	30 × 5 × 7.2	18
5"	125	22.23	30 × 5 × 7.2	20
6"	150	22.23	30 × 5 × 7.2	24
7"	178	22.23	35 × 5 × 7.2	24
7.1"	180	22.23	30 × 5 × 7.2	26
9"	230	22.23	32 × 5 × 7.2	36



Diamond Cup wheel-Single				
Outer Diameter	Arbor	Segment		
		Inches	Mm	Number
4"	100	22.23	30 × 5 × 7.2	8
4.125"	105	22.23	31 × 5 × 7.2	8
4.3"	110	22.23	32 × 5 × 7.2	8
4.5"	115	22.23	30 × 5 × 7.2	9
5"	125	22.23	30 × 5 × 7.2	10
6"	150	22.23	30 × 5 × 7.2	12
7"	178	22.23	35 × 5 × 7.2	12
7.1"	180	22.23	30 × 5 × 7.2	13
9"	230	22.23	32 × 5 × 7.2	18



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Universal wet single grinding cup wheels, mainly used for stones grinding.
All types of concrete, granite, marble, medium to hard stone, masonry.
For angle grinder, surface preparing machine.



Segmented Saw Blade				
Outer Diameter	Arbor	Segment		
		Inches	Mm	Number
4"	105	16/20/22.23	35 × 1.8 × 7/10	8/9/16
4.3"	110	16/20/22.23	32 × 1.9 × 7/10	8/9/12/16
4.5"	115	20/22.23	38 × 2.0 × 7/10	8
5"	125	20/22.23	37 × 2.0 × 7/10	9
6"	150	20/22.23	34 × 2.0 × 7/10	12
7"	180	22.23/25.4	35 × 2.2 × 7/10	14
8"	200	22.23/25.4	39 × 2.4 × 7/10	14
9"	230	22.23/25.4	34 × 2.4 × 7.2/10	16/18
10"	250	22.23/25.4	37 × 3.0 × 7.5/10	18
12"	300	20/22.23/25.4/50	35 × 3.2 × 7.5/10	22
14"	350	22.23/25.4/50	40 × 3.2 × 7.5/10	24
16"	400	25.4	40 × 3.4 × 10/12	28
18"	450	25.4	40 × 3.6 × 10/12	32
20"	500	25.4	40 × 3.6 × 10/12	35
24"	600	25.4	40 × 4.2 × 10/12	42
26"	700	25.4/50	40 × 4.5 × 10/12/15	45
30"	800	25.4/50	40 × 4.8 × 10/12/15	50
36"	900	25.4/50	40 × 5.4 × 10/12/15	60
42"	1000	25.4/50	40 × 6 × 10/12/15	70
48"	1200	25.4/50	40 × 6.4 × 10/12/15	80



Segmented Turbo Saw Blade				
Outer Diameter	Arbor	Segment		
		Inches	Mm	Number
4"	105	16/20/22.23	35 × 1.8 × 7/10	8/9/16
4.3"	110	16/20/22.23	32 × 1.9 × 7/10	8/9/12/16
4.5"	115	20/22.23	38 × 2.0 × 7/10	8
5"	125	20/22.23	37 × 2.0 × 7/10	9
6"	150	20/22.23	34 × 2.0 × 7/10	12
7"	180	22.23/25.4	35 × 2.2 × 7/10	14
8"	200	22.23/25.4	39 × 2.4 × 7/10	14
9"	230	22.23/25.4	34 × 2.4 × 7.2/10	16/18
10"	250	22.23/25.4	37 × 3.0 × 7.5/10	18



Diamond saw blade for stone cutting. Sharply, cut easily, used for a long time.
Used for cutting concrete, refractory, stone, ceramic, etc.
Suitable for Road Cutting Machine, Bridge Cutting Machine, Hand Cutting Machine, etc.

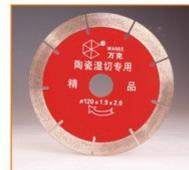
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Continuous Rim Saw Blade(wet)			
Outer Diameter	Arbor	Segment	
		Inches	Mm
2"	50	20/22.23	1.5 × 5
3"	80	20/22.23	1.6 × 5
4"	105	16/20/22.23	1.8 × 5/7/10
4.3"	110	16/20/22.23	1.9 × 5/7/10
4.5"	115	20/22.23	1.9 × 5/7/10
5"	125	20/22.23	1.9 × 5/7/10
6"	150	20/22.23	1.9 × 5/7/10
7"	180	22.23/25.4	2.2 × 5/7/10
8"	200	22.23/25.4	2.4 × 5/7/10
9"	230	22.23/25.4	2.6 × 5/7/10
10"	250	22.23/25.4	3.0 × 5/7/10
12"	300	20/22.23/25.4/50	3.2 × 7/10
14"	350	22.23/25.4/50	3.2 × 7.5/10
16"	400	22.23/25.4/50	3.4 × 7.5/10



Special ceramic saw blade			
Outer Diameter	Arbor	Segment	
		Inches	Mm
4"	105	7/8"	22.23
4.5"	115	7/8"	22.23
5"	125	7/8"	22.23
6"	150	7/8"	22.23
7"	180	7/8"	22.23
8"	200	7/8"	22.23
9"	230	7/8"	22.23



Turbo Saw Blade		
Outer Diameter	Arbor	Segment
		Inches
4"	105	16/20/22.23
4.3"	110	16/20/22.23
4.5"	115	20/22.23
5"	125	20/22.23
6"	150	20/22.23
7"	180	22.23/25.4
8"	200	22.23/25.4
9"	230	22.23/25.4
10"	250	22.23/25.4
12"	300	20/22.23/25.4/50
14"	350	22.23/25.4/50
16"	400	22.23/25.4/50





CNC DRILL



Suit for:
Flat glass,safety glass,tempered glass,architectural glass,frosted glass,patterned glass,Insulated glass,laminated glass,glass brick,optical glass,Auto Glass,solar glass etc

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CNC WHEEL

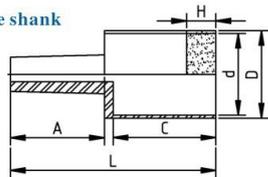


Usage:
Glass grinding&edging,for coarse grinding,middle grinding&fine grinding etc
Machine:
CNC machine,such as Bavelloni, Bottero,

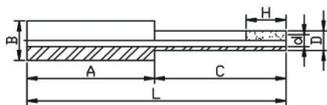
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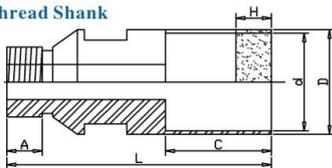
Diamond Drill Bit—Cone shank



Diamond Drill Bit—Staright shank



Diamond Drill Bit—Thread Shank



Suit for:
Flat glass,safety glass,tempered glass,architectural glass,frosted glass,patterned glass,Insulated glass,laminated glass,glass brick,optical glass,Auto Glass,solar glass,grnite,marble etc stone..

Usage:
glass-drilling

Machine:
Benching drilling&professional drilling machine,such as Bavelloni, Bottero, Glassline, Schiatti, etc machine

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Diamond drill bit for glass
玻璃钻头

Diameter 直径 (MM)				
/	21	41	61	81
/	22	42	62	82
/	23	43	63	83
/	24	44	64	84
5	25	45	65	85
6	26	46	66	86
7	27	47	67	87
8	28	48	68	88
9	29	49	69	89
10	30	50	70	90
11	31	51	71	91
12	32	52	72	92
13	33	53	73	93
14	34	54	74	94
15	35	55	75	95
16	36	56	76	96
17	37	57	77	97
18	38	58	78	98
19	39	59	79	99
20	40	60	80	100

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ZHECHENG HONGXIANG SUPERHARD MATERIAL CO.,LTD



Suit for:
Flat glass, safety glass, tempered glass, architectural glass, frosted glass, patterned glass, Insulated glass, laminated glass, glass brick, optical glass, Auto Glass, solar glass etc

Usage:
Glass grinding & edging, for coarse grinding, middle grinding & fine grinding etc

Machine:
Straight-edge machine, leveling machine, bilateral machine, numerical control machine, such as Baveloni, Bottero, Glassline, Schiatti, etc machine

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GLASS TOOLS
玻璃工具



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Diamond Grinding Wheel for Glass

Name	Diameter (mm)	Width (mm)	High (mm)	Hole (mm)
Diamond Grinding Wheel - Full Segment	175	15	10	12/22/50/Other
	150	15	10	12/22/50/Other
	150	10	10	12/22/50/Other
Diamond Grinding Wheel - Internal Segment	175	8	10	12/22/50/Other
	175	15	10	12/22/50/Other
	150	10	10	12/22/50/Other
Diamond Grinding Wheel - Continuous	150	8	8	12/22/50/Other
	150	6	10	12/22/50/Other
	130	10	10	12/22/50/Other
	130	8	8	12/22/50/Other
Diamond Grinding Wheel - Outer Segment	150	8	10	12/22/50/Other
	150	15	12	12/22/50/Other
Diamond Grinding Wheel - Resin	150	15	10	12/22/50/Other
	130	10	10	12/22/50/Other

GLASS TOOLS
玻璃工具

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Synthetic Diamond Powder
人造金刚石粉

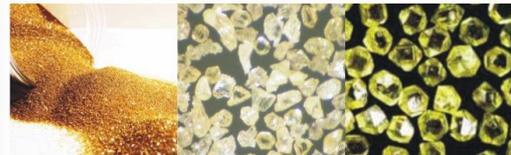
Standard of International 国际标准	Standard of China 中国标准	Mesh 筛网号	D50um
W0.25	0-0.25	60000	0.11-0.20
W0.5	0-0.5	30000	0.20-0.30
W1	0-1	15000	0.5-0.8
W1.5	0-2	13000	1.1-1.2
W1.5	1-2	12000	1.1-1.3
W2.5	1-3	10000	1.6-1.8
W3	1-4	7000	1.9-2.1
W3.5	1-5	6500	2.2-2.6
W3.5	2-4	6000	2.6-3.0
W4	2-5	5000	3.1-3.4
W5	2-6	4000	3.5-4.2
W6	3-7	3500	4.4-5.0
W7	4-8	3000	5.0-6.0
W10	4-9	2500	6.1-6.5
W10	5-10	2000	6.5-7.3
W10	6-11	1800	7.3-8.3
W12	8-12	1600	8.3-9.0
W14	7-14	1500	9.1-10.5
W14	8-15	1300	10.0-12.0
W20	10-20	1200	12.5-15.0
W20	12-22	1000	15.0-17.0
W20+	15-25	800	18.0-20.0
W28	20-30	700	20-23
W28+	22-36	600	23-26
W40	20-40	500	26-29
W40	30-40	450	29-32
W40+	35-45	400	32-36
W50	36-54		37-43

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SYNTHETIC DIAMOND
人造金刚石



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ZHECHENG HONGXIANG SUPERHARD MATERIAL CO.,LTD



Synthetic Diamond
人造金刚石

Standard of International 国际标准	Standard of China 中国标准	Mesh 筛网号
D602	3040	30#
D426	4050	40#
D356	4550	45#
D301	5060	50#
D251	6070	60#
D213	7080	70#
D180	80100	80#
D151	100120	100#
D126	120140	120#
D107	140170	140#
D91	170200	170#
D76	200230	200#
D64	230270	230#
D54	270325	270#
D46	325400	325#
	400500	400#
	500600	500#

Name 名称	Feature 特征	Usage 用途	Workpiece material 工件材料
RVD	Most crystals are irregular with rough surface. 晶体大部分为不规则等积形，晶面粗糙	For making resin bond and vitrified bond abrasive tools, electroplated products and drilling tools etc. 树脂、陶瓷结合剂磨具或研磨膏等	Hard alloy, glass, ceramic, diamond etc. 硬质合金、玻璃、陶瓷、钻石等
MBD	Well faceted crystals with smooth surface and high compressive strength. 晶形完整，晶面平滑，抗压强度高	For making metal bond abrasive tools etc. 金属结合剂磨具，电镀制品或钻床工具等	Stone, concrete product, refractory etc. 石材，混凝土，耐火材料等
SMD	Well faceted and very clear crystals with smooth surface and high compressive strength. 晶形完整，晶面光滑，透明度高，抗压强度高	For making saw blades drilling and dressing tools etc. 锯切、钻探及其修整工具等	Stone, concrete product, etc. 石材，混凝土等

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SYNTHETIC DIAMOND
人造金刚石



DIAMOND COMPACT 金剛石超硬材料

Product Number	Diameter (D)(mm)	Height (T) (mm)	Diamond Thickness (t) (mm)	Diamond Chamfer (mm)	Carbide Chamfer
1308	13.44±0.03	8.00±0.10	2.30±0.20	0.30±0.10	0.5x45°
1313	13.44±0.03	13.20±0.10	2.30±0.20	0.30±0.10	0.5x45°
1608	15.88/16.00±0.03	8.00±0.10	2.30±0.20	0.30±0.10	0.5x45°
1613	15.88/16.00±0.03	13.20±0.10	2.30±0.20	0.30±0.10	0.5x45°
1908	19.05±0.05	8.00±0.10	2.30±0.20	0.30±0.10	0.5x45°
1913	19.05±0.05	13.20±0.10	2.30±0.20	0.30±0.10	0.5x45°
1916	19.05±0.05	16.31±0.10	2.30±0.20	0.30±0.10	0.5x45°

PDC the hardness and abrasion resistance of diamond with the impact resistance of tungsten carbide, and provides faster, more durable and more cost-effective drilling.
Designed for oil/gas drilling and mining bits

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Diamond Die Blanks For Wire Drawing

ATMA №	Product No.	Product Dimensions			Average Grain Size (μm)					Max. Die 4 Recom mended (mm)		
		φd	φD	T	1	3	5	10	25			50
D6	WK92510	2.5±0.2	-	1.0±0.2	√	√	√	√	√	-	0.4	
D12	WK9215	3.2±0.2	-	1.5±0.2	√	√	√	√	√	-	1.0	
D15	WK9225	5.2±0.2	-	2.5±0.2	-	√	√	√	√	√	1.5	
D18	WK9235	5.2±0.2	-	3.5±0.2	-	√	√	√	√	√	2.0	
D6	WKF2510	2.5±0.2	-	1.0±0.2	√	√	√	√	√	-	0.4	
D6	WKF3110	3.1±0.2	-	1.0±0.2	√	√	√	√	√	-	0.5	
D12	WKF3115	3.1±0.2	-	1.5±0.2	√	√	√	√	√	-	1.0	
D15	WKF5225	5.2±0.2	-	2.5±0.2	-	√	√	√	√	√	1.5	
D18	WKF5235	5.2±0.2	-	3.5±0.2	-	√	√	√	√	√	2.0	
D21	WKF7040	7.0±0.2	-	4.0±0.2	-	√	√	√	√	√	3.0	
D24	WKF9853	9.8±0.2	-	5.3±0.2	-	√	√	√	√	√	4.0	
D12	WKY4015	4.0±0.2	8.12±0.013	1.5±0.2	-	√	√	√	√	√	1.0	
D15	WKY4023	4.0±0.2	8.12±0.013	2.3±0.2	-	√	√	√	√	√	1.8	
D18	WKY4029	4.0±0.2	8.12±0.013	2.9±0.2	-	√	√	√	√	√	2.3	
D21	WKY7040	7.0±0.2	13.65±0.013	4.0±0.2	-	√	√	√	√	√	3.5	
D24	WKY7053	7.0±0.2	13.65±0.013	5.3±0.2	-	√	√	√	√	√	4.6	
D27	WKY12987	12.9±0.3	24.13±0.025	8.7±0.25	-	-	√	√	√	√	5.8	
D30	WKY129120	12.9±0.3	24.13±0.025	12.0±0.25	-	-	√	√	√	√	7.6	
D31	WKY152120	15.2±0.3	26.6±0.025	12.0±0.25	-	-	√	√	√	√	9.0	
D33	WKY152150	15.2±0.3	26.6±0.025	15.0±0.50	-	-	√	√	√	√	10.0	
D33	WKY18150	18.5±0.3	29.0±0.025	15.0±0.50	-	-	√	√	√	√	11.0	
D33	WKY18180	18.5±0.3	29.0±0.025	18.0±0.50	-	-	√	√	√	√	12.0	

Note: 1. Mount at temperatures not exceeding 650°C.
2. Maximum recommended bearing diameter for "soft" nonferrous wire. "Hard" wire diameter normally should not exceed 65% of this diameter.

DIAMOND COMPACT 金剛石超硬材料

