



VOLDA TOOLS

PRODUCT MANUAL

LIANYUNGANG VOLDA COMMUNICATION TECHNOLOGY CO., LTD.

BUILDING AREA OF FACTORY BUILDING

20000 m²
厂房建筑面积

PATENT

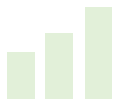
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About Us

Volda is a high-tech enterprise focusing on the RD, production and sales of Telecommunication Supplies and Super-hard Cutting Tools. Founded in 2010, the company becomes a leader in the field of sawing and cutting with a number of intellectual property patents, providing customers with one-stop customized industry solutions. The company's products are widely used in glass, ceramic, silicon, graphite, and other super-hard materials, and are currently exported to Germany, Russia, Indonesia, Viet Nam and Japan.

Our Development History

- 2010 Started business in the supplies of Telecommunication
- 2015 Started RD in super-hard cutting tools
- 2016 Introduced advanced diamond technology to produce Diamond Band Saw Blade
- 2019 New product Diamond Wire Saw Blade
- 2022 Leading solution provider with local market share of 75%



Strict Quality



After-sales Service



Custom Solutions



Partnerships

In order to improve the quality of enterprise service and bring more intuitive feelings to customers, we focus on the challenges and pressures that customers are concerned about, provide competitive solutions and services, and continue to create maximum value for customers.



Diamond Wire Saw

Product Introduction



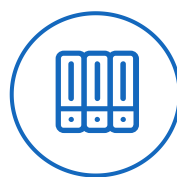
Diamond wire saw blade is a flexible cutting tool in which the wire is processed into closed loop and coated with diamond grains on the surface. Its diamond density is much higher than that of traditional wire cutting tools, with extremely high sharpness and cutting efficiency. The wire features small diameter and strong cutting toughness, which makes precision cutting possible, and is an advanced cutting tool at present.



Sharp Cutting



Wear Resistant



Uniform Particles



High Precision

01

02

03

04

Volda provides a wide range of specifications for custom solutions. You can consider the following factors to choose the appropriate diamond wire loops.

- Materials to cut
- Wire diameter
- Length
- Surface roughness
- Cutting speed



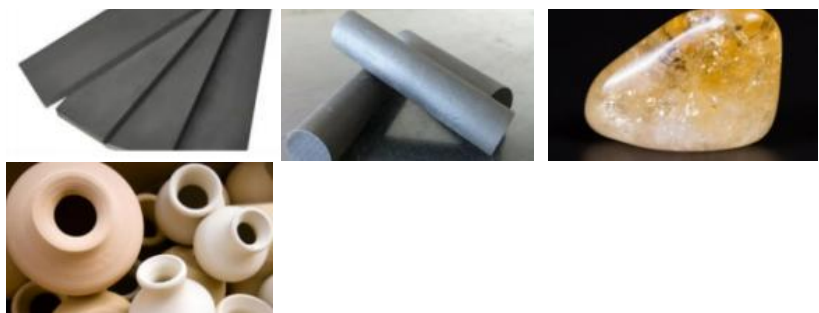
Endless Diamond Wire Saw



Benefits

- Higher Cutting Efficiency
- Smoother Cutting Surface
- Minimal Material Loss
- Environmentally Friendly
- Longer Wire Lifespan

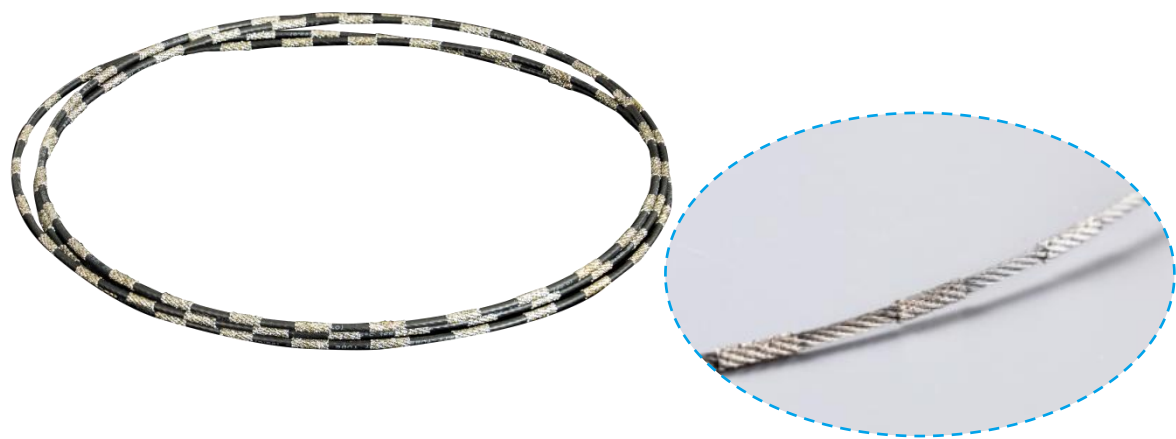
Applications



Parameters

Diameter (mm)	Coating Method	Tensile Strength (N)	Loop Length (mm)	Cooling	Applications
0.35	Full	60-80	1000-3000	Dry/Wet	Glass, Silicon, Quartz, Graphite, Ceramic, fiber board, etc.
0.45	Full	80-100	1000-6000	Dry/Wet	
0.50	Full	100-120	1000-6000	Dry/Wet	
0.60	Full	100-120	1000-6000	Dry/Wet	
0.80	Full	180-200	1000-6000	Dry/Wet	

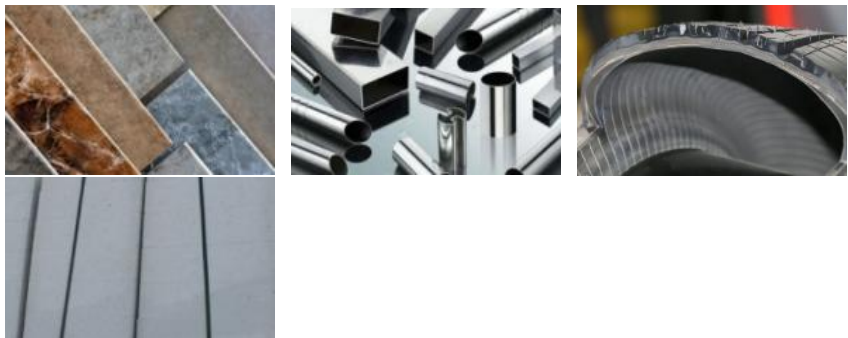
Endless Diamond Wire Saw



Benefits

- Higher Cutting Efficiency
- Smoother Cutting Surface
- Minimal Material Loss
- Environmentally Friendly
- Longer Wire Lifespan

Applications



Parameters

Diameter (mm)	Coating Method	Tensile Strength (N)	Loop Length (mm)	Cooling	Applications
1.50	Sectional	200-300	2500-10000	Dry/Wet	Marble, Granite, Steel, Tires
1.80	Sectional	200-300	2500-10000	Dry/Wet	
2.50	Sectional	300-400	2500-10000	Dry/Wet	

Diamond Band Saw Blade

Product Introduction



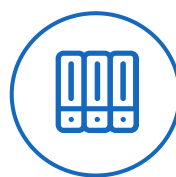
Diamond band saw blades are specifically designed to cut hard, brittle, and fibrous materials. For example, graphite, stone, glass, ceramic, and other more materials. The unique properties of the backing steel materials are perfectly suited for withstanding the stresses caused by these extremely high cutting speeds.



High Sharpness



Durable



Faster Speed



High Precision

01

02

03

04

Volda provides a wide range of specifications for custom solutions. You can consider the following factors to choose the appropriate diamond band saw blades.

- Materials to cut
- Width x Length
- Thickness
- Surface roughness
- Grain Size



Diamond Band Saw Blade



Benefits

- Continuous diamond coating on the band edge
- Customized grain size
- Backing material made of alloyed special steel / stainless steel
- Smoother Cutting
- Longer Lifespan

Applications

- Sapphire, stone, ceramic, glass
- Graphite, graphite carbon, concrete materials
- Monocrystalline silicon, polysilicon

Parameters

Width (mm)	Length (mm)	Thickness (mm)	Grain Size
38	3230	0.40	80/100, 100/120
38	3750	0.60	80/100, 100/120
38	4550	0.70	80/100, 100/120
40	3750	0.40	80/100, 100/120
40	4260	0.40	80/100, 100/120

Diamond Band Saw Blade



Benefits

- Segmented diamond coating on the band edge
- Individual coating geometry (line, semi-circle, parallelogram, etc.)
- Backing material made of alloyed special steel / stainless steel
- Smoother Cutting
- Longer Lifespan

Applications

- Sapphire, stone, ceramic, glass
- Graphite, graphite carbon, concrete materials
- Monocrystalline silicon, polysilicon

Parameters

Width (mm)	Length (mm)	Thickness (mm)	Grain Size
27	3930	0.50	100/120, 120/140
32	4480	0.50	100/120, 120/140
40	4900	0.60	100/120, 120/140
40	5150	0.60	100/120, 120/140
40	7600	0.60	100/120, 120/140

Diamond Band Saw Blade



Benefits

- Toothed diamond coating on the band edge
- Customized grain sizes
- Backing material made of alloyed special steel / stainless steel
- Smoother Cutting
- Longer Lifespan

Applications

- Sapphire, stone, ceramic, glass
- Graphite, graphite carbon, concrete materials
- Monocrystalline silicon, polysilicon

Parameters

Width (mm)	Length (mm)	Thickness (mm)	Grain Size
35	3800	0.80	50/60, 80/100
35	4100	0.80	50/60, 80/100
40	4800	0.80	50/60, 80/100
40	5350	0.90	35/40, 50/60
40	6500	0.90	35/40, 50/60

Leading Solution Provider

in the Field of Sawing and Cutting



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