

ESTABLISHED IN 2002



# Shijiazhuang Longda Diamond Product Co., Ltd.

# 2025



## 23 YEARS

### Professional Diamond Tools



+86 0311 85468801



hatti@longdablade.com



+86 18601194237



www.longdablade.com

# Our Factory



The Pursuit Never Ends: Excellence in Quality. Excellence in Stability.

## LongDa Diamond Tools As a Manufacturer Since 2002.



Our Factory established in 2002, we are a specialized manufacturer and global supplier of high-performance diamond tools. Our core expertise lies in the design, engineering, and production of premium diamond tools for demanding industrial applications.

### Main Product:

- **Diamond Circular Saw Blades:** Engineered for precision cutting of concrete, asphalt, stone, ceramics, and other hard materials.
- **Diamond Grinding Wheels & Cups:** Delivering superior surface preparation, smoothing, and leveling across various substrates.
- **Diamond Core Drill Bits:** Providing efficient, clean, and fast drilling in concrete, reinforced concrete, masonry, and stone.

### Integrated Business Model:

- **Domestic Brand Leadership:** We proudly develop, manufacture, and market our own trusted brand within the domestic market, recognized for quality and reliability.
- **Global Export Focus:** We actively serve international markets, exporting our diamond tools worldwide to distributors, contractors, and industrial partners.
- **Comprehensive OEM Solutions:** We are a proven and collaborative OEM manufacturing partner, offering end-to-end services from product specification and development to high-volume production, quality assurance, and private labeling for global clients.



### Commitment to Excellence:

Our vertically integrated manufacturing capabilities, rigorous quality control processes, and continuous R&D investment ensure we deliver tools that meet stringent international standards for performance, durability, and value. We are dedicated to innovation and building long-term partnerships based on technical expertise and dependable supply.

# CONTENTS

**1**

**DIAMOND SAW BLADE**

**1-10**

**2**

**DIAMOND CORE DRILL BIT**

**11-14**

**3**

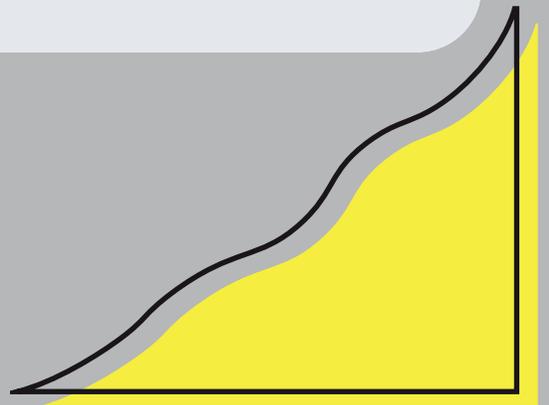
**DIAMOND CUP WHEELS**

**15-18**

**4**

**DIAMOND GRINDING SHOES**

**19**



## Ultra-thin Turbo Saw Blade



### Precision Thin Kerf Cutting

1.2mm ultra-thin diamond segment minimizes material waste and delivers chip-free, smooth cuts on delicate tiles.

### Wet/Dry Cutting Flexibility

Wet mode (recommended): Extends blade life and reduces dust with water cooling.  
Dry mode: Convenient for quick cuts when water isn't available.

### Professional & DIY Use

Tile installation (walls/floors), Backsplash customization, DIY home renovations, Artistic tile inlays.

Diameter	Arbor	Thickness	Seg.Height
4" -105mm	20-16mm	1.2mm	10mm
4.3" - 110mm	20-16mm	1.3mm	12mm
4.5" -115mm	22.23-20-16mm	1.3mm	10mm
5" - 125mm	22.23-20mm	1.4mm	10mm
6" - 150mm	22.23-20mm	1.6mm	10mm
7" - 180mm	25.4-22.23mm	1.8mm	10mm

### APPLICATIONS:

CERAMIC, PORCELAIN, MARBLE, GLASS  
MOSAIC, AND ENGINEERED STONE.  
WET/DRY CUT.

## X-Turbo Diamond Blade

### Precision Thin Kerf Cutting

1.2mm ultra-thin diamond segment minimizes material waste and delivers chip-free, smooth cuts on delicate tiles.

### Wet/Dry Cutting Flexibility

Wet mode (recommended): Extends blade life and reduces dust with water cooling.  
Dry mode: Convenient for quick cuts when water isn't available.

### Professional & DIY Use

Tile installation (walls/floors), Backsplash customization, DIY home renovations, Artistic tile inlays.



Diameter	Arbor	Thickness	Seg.Height
4" -105mm	20-16 mm	1.2mm	10mm
4.5" -115mm	22.23-20-16mm	1.3mm	10mm
5" - 125mm	22.23-20mm	1.4mm	10mm
6" - 150mm	22.23-20mm	1.6mm	10mm
7" - 180mm	25.4-22.23mm	1.8mm	10mm

### APPLICATIONS:

CERAMIC, PORCELAIN, MARBLE, GLASS  
MOSAIC, AND ENGINEERED STONE.  
WET/DRY CUT.

## Flange Turbo Saw Blade



### Reinforced Flange Design

Heavy-duty steel flange prevents blade wobbling and ensures stable, vibration-free cutting

Enhanced clamping force maintains blade position during high-RPM operation

### Optimized Heat Dissipation

Turbo segment design with deep gullets for: Efficient chip removal, Reduced heat buildup, Continuous cutting performance

### Flange stability

No blade slippage during deep cuts

Diameter	Arbor	Thickness	Seg.Height
4" -105mm	20-16 mm	1.2mm	10mm
4.5" -115mm	22.23-20-16mm	1.3mm	10mm
5" - 125mm	22.23-20mm	1.4mm	10mm
6" - 150mm	22.23-20mm	1.6mm	10mm
7" - 180mm	25.4-22.23mm	1.8mm	10mm

### APPLICATIONS:

CERAMIC, PORCELAIN, MARBLE, GLASS  
MOSAIC, AND ENGINEERED STONE.

WET/ DRY CUT.

## Flange X-Turbo Saw Blade

### Reinforced Flange Design

Heavy-duty steel flange prevents blade wobbling and ensures stable, vibration-free cutting

Enhanced clamping force maintains blade position during high-RPM operation

### Optimized Heat Dissipation

Turbo segment design with deep gullets for: Efficient chip removal, Reduced heat buildup, Continuous cutting performance

### Flange stability

No blade slippage during deep cuts

Diameter	Arbor	Thickness	Seg.Height
4" -105mm	20-16 mm	1.2mm	10mm
4.5" -115mm	22.23-20-16mm	1.3mm	10mm
5" - 125mm	22.23-20mm	1.4mm	10mm
6" - 150mm	22.23-20mm	1.6mm	10mm
7" - 180mm	25.4-22.23mm	1.8mm	10mm



### APPLICATIONS:

CERAMIC, PORCELAIN, MARBLE, GLASS  
MOSAIC, AND ENGINEERED STONE.

WET/ DRY CUT.

# Segment Saw Blade

## High Cutting Efficiency

Premium-grade diamond segments ensure fast and smooth cutting through granite, marble, quartz, and other hard stones, significantly improving work productivity.

## Versatile Performance

Customizable diamond concentration and bond formulations adapt to different stone hardnesses, suitable for both wet and dry cutting applications.



Diameter	Arbor	Seg.Height
4" - 110mm	20-16 mm	10 - 12mm
4.5" - 115mm	22.23-20-16mm	10 - 12mm
5" - 125mm	22.23-20mm	10 - 12mm
6" - 150mm	22.23-20mm	10 - 12mm
7" - 180mm	25.4-22.23mm	10 - 12mm
9" - 230mm	25.4-22.23mm	10 - 12mm
10" - 250mm	50-25.4mm	10 - 12 mm

### APPLICATIONS:

GRANITE, MARBLE, LIMESTONE, STONE,  
WALL, CONCRETE, MASONRY, BLOCKS.

# Stone Turbo Saw Blade

## High-Speed Cutting Performance

Engineered with premium synthetic diamond grit for fast, smooth cuts through brick, concrete, block, reinforced masonry, and other tough construction materials.

## Enhanced Durability & Long Lifespan

High-density diamond segments with a strong metal bond (cobalt or nickel-based) resist wear, reducing frequent blade changes.

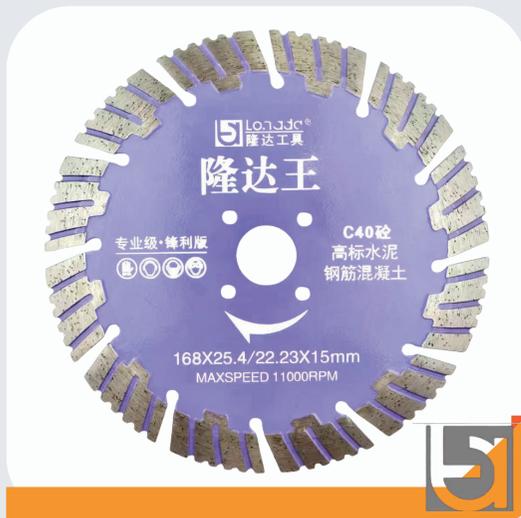
Diameter	Arbor	Seg.Height
4" -110mm	20-16mm	12mm
4.5" -116mm	22.23-20-16mm	16mm
5" - 125mm	22.23-20mm	12mm
6" - 150mm	22.23-20mm	12mm
7" - 180mm	25.4-22.23mm	12mm
9" - 230mm	25.4-22.23mm	14mm
10" - 250mm	50-25.4mm	13mm



### APPLICATIONS:

GRANITE, MARBLE, LIMESTONE, STONE,  
WALL, CONCRETE, MASONRY, BLOCKS.

## Wall/Masonry Saw Blade



### High Cutting Efficiency

Premium grade diamond segments ensure fast and smooth cutting through granite, marble, quartz, and other hard stones, significantly improving work productivity.

### Versatile Performance

Customizable diamond concentration and bond formulations adapt to different stone hardnesses, suitable for both wet and dry cutting applications.

Diameter	Arbor	Seg.Height
4.5" - 115mm	20-16mm	15mm
5" - 125mm	22.23-20mm	15mm
5.3" - 135mm	22.23-20mm	15mm
6" - 152mm	22.23-20mm	15mm
6.6" - 168mm	25.4-22.23mm	15mm
7.5" - 190mm	25.4-22.23mm	15mm
8.2" - 210mm	25.4-22.23mm	15mm

#### APPLICATIONS:

GRANITE, MARBLE, LIMESTONE, STONE, WALL, CONCRETE, MASONRY, BLOCKS.

## Concrete Saw Blade

### High-Speed Cutting Performance

Engineered with premium synthetic diamond grit for fast, smooth cuts through brick, concrete, block, reinforced masonry, and other tough construction materials.

### Enhanced Durability & Long Lifespan

High-density diamond segments with a strong metal bond (cobalt or nickel-based) resist wear, reducing frequent blade changes.

Diameter	Arbor	Seg.Height
8" - 200mm	25.4-22.23mm	12mm
9" - 230mm	25.4-22.23mm	15mm

#### APPLICATIONS:

GRANITE, MARBLE, LIMESTONE, STONE, WALL, CONCRETE, MASONRY, BLOCKS.



## Crown-Segment Saw Blade



Diameter	Arbor	Seg.Height
4.5" - 114mm	20-16mm	12mm

### APPLICATIONS:

GRANITE, MARBLE, LIMESTONE, STONE, WALL, CONCRETE, MASONRY, BLOCKS.

### High-Speed Cutting Performance

Engineered with premium synthetic diamond grit for fast, smooth cuts through brick, concrete, block, reinforced masonry, and other tough construction materials.

Diameter	Arbor	Seg.Height
4.5" - 114mm	20-16mm	12mm

### APPLICATIONS:

GRANITE, MARBLE, LIMESTONE, STONE, WALL, CONCRETE, MASONRY, BLOCKS.



## Long Working Life Saw Blade



### High-Speed Cutting Performance

Engineered with premium synthetic diamond grit for fast, smooth cuts through brick, concrete, block, reinforced masonry, and other tough construction materials.

### Enhanced Durability & Long Lifespan

High-density diamond segments with a strong metal bond (cobalt or nickel-based) resist wear, reducing frequent blade changes.

Diameter	Arbor	Seg.Height
4.5" - 114mm	20-16mm	14mm

### APPLICATIONS:

GRANITE, MARBLE, LIMESTONE, STONE, WALL, CONCRETE, MASONRY, BLOCKS.

### High Cutting Efficiency - Fast Cutting - Dry Cut

Premium grade diamond segments ensure fast and smooth cutting through granite, marble, quartz, and other hard stones, significantly improving work productivity.

# Concrete Cutting Disc

## Heavy-Duty Cutting Performance

Engineered with industrial grade diamond matrix for fast, smooth cuts through thick concrete, reinforced slabs, asphalt, and masonry

## Best For

Construction professionals, Road work & demolition crews, Concrete contractors, Municipal maintenance teams



### APPLICATIONS:

REINFORCED CONCRETE, ASPHALT PAVEMENT, BRICK & BLOCK WALLS, CURED CONCRETE SLABS.

Diameter	Arbor	Seg.Height
12" - 300mm	50-25.4mm	10 - 12 - 15mm
14" - 350 mm	50-25.4mm	10 - 12 - 15mm
16" - 400mm	50-25.4mm	10 - 12 - 15mm
18" - 450mm	50-25.4mm	10 - 12 - 15mm
20" - 500mm	50-25.4mm	10 - 12 - 15mm
22" - 550mm	50-25.4mm	10 - 12 - 15mm
24" - 600mm	50-25.4mm	10 - 12 - 15mm

# Road / Asphalt Diamond Blade

## High-Speed Cutting Performance

Vibration-dampening design reduces operator fatigue, Body with special ventilation holes for better cooling, Good cutting speed and durability.

Diameter	Arbor	Seg.Height
12" - 300mm	50-25.4mm	10 - 12 - 15mm
14" - 350 mm	50-25.4mm	10 - 12 - 15mm
16" - 400mm	50-25.4mm	10 - 12 - 15mm
18" - 450mm	50-25.4mm	10 - 12 - 15mm
20" - 500mm	50-25.4mm	10 - 12 - 15mm
22" - 550mm	50-25.4mm	10 - 12 - 15mm
24" - 600mm	50-25.4mm	10 - 12 - 15mm
28" - 700mm	60 - 50 - 25.4mm	10 - 12 mm
32" - 800mm	60 - 50 - 25.4mm	10 - 12mm



### APPLICATIONS:

ROAD, ASPHALT, CONCRETE, MASONRY, SANDSTONE, REINFORCED CONCRETE, VOLCANIC STONE.

# Wall Cutting Disc



## Professional Industrial Grade Cutting Disc

Engineered with industrial grade diamond matrix for fast, smooth cuts through thick concrete, reinforced slabs, asphalt, and masonry

### Best For

Construction professionals, Road work & demolition crews, Concrete contractors, Municipal maintenance teams

Diameter	Arbor	Seg.Height
12" - 300mm	50-25.4mm	12 - 15mm
14" - 350 mm	50-25.4mm	12 - 15mm
16" - 400mm	50-25.4mm	12 - 15mm
18" - 450mm	50-25.4mm	12 - 15mm
20" - 500mm	50-25.4mm	12 - 15mm
22" - 550mm	50-25.4mm	10 - 12mm
24" - 600mm	50-25.4mm	10 - 12mm

### APPLICATIONS:

REINFORCED CONCRETE, ASPHALT PAVEMENT,  
BRICK & BLOCK WALLS, CURED CONCRETE SLABS.

# Lazer Welding Diamond Blade

## Industrial-Grade Diamond Segments

Laser-welded segments won't detach under heavy load

## High-Speed Cutting Performance

Vibration-dampening design reduces operator fatigue, Body with special ventilation holes for better cooling, Good cutting speed and durability.

Diameter	Arbor	Seg.Height
12" - 300mm	50-25.4mm	10 - 12 - 15mm
14" - 350 mm	50-25.4mm	10 - 12 - 15mm
16" - 400mm	50-25.4mm	10 - 12 - 15mm
18" - 450mm	50-25.4mm	10 - 12 - 15mm
20" - 500mm	50-25.4mm	10 - 12 - 15mm
22" - 550mm	50-25.4mm	10 - 12 - 15mm
24" - 600mm	50-25.4mm	10 - 12 - 15mm



### APPLICATIONS:

ROAD, ASPHALT, CONCRETE, MASONRY,  
SANDSTONE, REINFORCED CONCRETE,  
VOLCANIC STONE.

# Continuous Rim Tiles Saw Blade

## Professional Industrial Grade Cutting Disc

Engineered with industrial-grade diamond matrix for fast, smooth cuts through tiles, marble, porcelain, floor tiles, natural stone.

### Wet Use

Ideal for ceramic, porcelain, marble, glass mosaic, and engineered stone.

### Lazered -Cut slot

Zero-chip technology

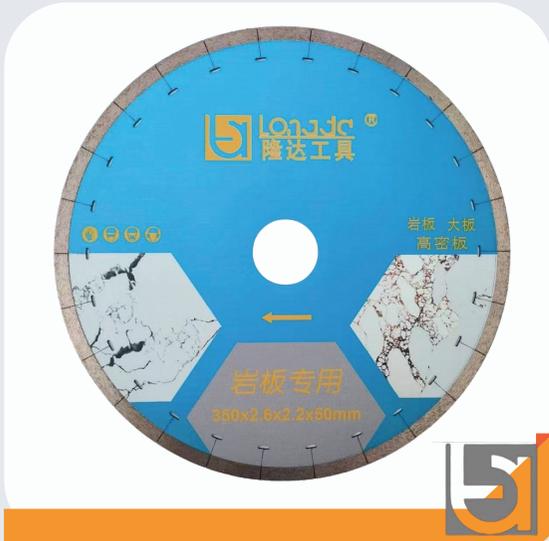
Faster - Saves labor time

Cleaner - No polishing needed

Smarter - One blade handles multiple materials

The diamond-enhanced rim provides extended durability.

### Provide Various Type of Lazered-cut



### APPLICATIONS:

TILES, PORCELAIN, MARBLE, GLAZED PORCELAIN TILES, CERAMIC WALL/FLOOR TILES, NATURAL STONE, VINYL COMPOSITE TILES.

Diameter	Arbor	Seg.Height
4" - 105mm	20-16mm	8 mm
4.3" - 110mm	20-16mm	10mm
4.5" - 115mm	22.23-20mm	10mm
5" - 125mm	22.23-20mm	10mm
6" - 150mm	22.23-20mm	10mm
7" - 180mm	25.4-22.23mm	10mm
8" - 200mm	25.4-22.23mm	10mm
9" - 230mm	25.4-22.23mm	10mm
10" - 250mm	50-25.4mm	10mm
12" - 300mm	50-25.4mm	10mm
14" - 350 mm	50-25.4mm	10mm
16" - 400mm	50-25.4mm	10mm

## Diamond Ring Saw Blade For Cured Concrete



### Unique "Inside Cutting" Capability

**Closed-Loop Design:** Continuous diamond-edged loop (like a hula hoop) allows cutting from within a material.

**No Starting Edge Needed:** Drill a pilot hole, insert the blade, and cut complex internal shapes (e.g., sink cutouts in countertops).

### Reinforced Diamond Segments

**Abrasion-Resistant Diamonds:** Coarse grit industrial diamonds (30-40 mesh) for aggressive cutting through aggregate.

**Heavy-Duty Metal Matrix:** Cobalt-nickel alloy bonds withstand concrete's abrasive nature.

**Widely Spaced Segments:** Enhanced debris clearance vs. standard blades

### Lazer-Welded / High Frequency Weld

### Core Advantage

Solves complex curved cuts in concrete – an industry pain point where angle grinders fail.

- Cut any concrete, bricks, stone etc. also with rebar in 300 mm depth.
- Cut openings for doors and windows, pipes etc.
- Fit for underwater jobs.
- Very powerful – up to 18 HP.
- Ergonomic design for operator comfort.
- Easy change of blades.
- Lower vibrations and weight.

### Ring Saw Blade inc. Drive Roller

### Ideal Applications:

- Repairing joints/cracks
- Artistic sculpting in thin concrete
- Creating drainage contours
- Historic concrete restoration
- Custom pool/spa openings
- Architectural detailing



### APPLICATIONS:

**MATERIAL LIMITATION: FOR NON-REINFORCED/ RESTORATION/ARTISTIC PROJECTS ON THIN CONCRETELOW-REBAR CONCRETE ONLY.**

Diameter	Thickness	Seg.Height
350mm	4.3mm	12mm/15mm
374mm	4.3mm	12mm/15mm
400mm	4.3mm	12mm/15mm
410mm	4.3mm	12mm/15mm
500mm	5.0mm	12mm/15mm
600mm	6.4mm	12mm/15mm

# Vacuum Brazed Diamond Blade



## Vacuum Brazing Technology

**Monolayer Diamond Grit:** Single layer of synthetic diamonds directly fused to the steel core in oxygen-free chambers.

**Maximized Diamond Exposure:** 70-80% diamond protrusion for aggressive cutting.

**Brazing Alloy:** Silver/nickel based filler ensures diamond retention under extreme friction.

## Thin Kerf & Precision Cutting

**Ultra-Narrow Cut Width:** 1.8-2.5mm (vs. 3.5mm+ for abrasive discs).

**Near-Burr-Free Edges:** Minimizes post-processing for critical tolerance work.

**Material Savings:** Reduces waste by  $\leq 30\%$  vs. conventional discs.

## High-Speed Dry/Wet Operation

**Dry Cutting RPM:** 3,800-5,000 RPM (angle grinders/saws).

**Wet Cutting Advantage:** Water extends lifespan 3 $\times$  (CNC saws with coolant flood).

**No "Loading":** Diamond grit resists metal clogging.

## Reinforced Steel Core

**Expansion Slots:** Prevents warping at high temps.

**Vibration Dampening:** Balanced for smooth handheld operation.



Diameter	Arbor	Seg.Height
4" - 100mm	20-16mm	5mm/8mm/10mm
4.5" - 115mm	22.23-20mm	5mm/8mm/10mm
5" - 125mm	22.23-20mm	5mm/8mm/10mm
6" - 150mm	22.23-20mm	5mm/8mm/10mm
7" - 180mm	25.4-22.23mm	5mm/8mm/10mm
8" - 200mm	25.4-22.23mm	5mm/8mm/10mm
9" - 230mm	25.4-22.23mm	5mm/8mm/10mm
10" - 250mm	50-25.4mm	5mm/8mm/10mm
12" - 300mm	50-25.4mm	5mm/8mm/10mm
14" - 350mm	50-25.4mm	5mm/8mm/10mm
16" - 400mm	50-25.4mm	5mm/8mm/10mm

## APPLICATIONS:

ANGLE IRON, CASTING, REBAR, STEEL PIPE

AEROSPACE: TITANIUM COMPONENT TRIMMING

HVAC: COPPER PIPE NOTCHING

AUTOMOTIVE: ALUMINUM CHASSIS MODIFICATION

# Wet Core Drilling Bits



## Professional Quality Core Drill Bits for Concrete

**Segmented Design:** Diamond segments welded (or laser-welded) to the steel body for durability and efficient debris removal.

**Variable Bond Matrix:** Bond hardness tailored for concrete (softer bond vs. harder aggregates like granite).

## Extended Lifespan

**Reduced Wear:** Water cooling prevents diamond "glazing" (overheating dulls diamonds).

**Reinforced Steel Body:** Thick-walled, seamless tubing resists bending/torsion stress.

## Clean, Precise Cuts

**Minimal Chipping:** Produces neat holes with smooth walls.

**Accurate Sizing:** Maintains consistent diameter for fittings (pipes, conduits).

## Rig Compatibility

**Threaded Connections:** Standard threads (e.g., 1-1/4" UNC, M22) for core rigs/stand drills.

## High-Speed Cutting Efficiency

**Fast Penetration:** Diamonds grind through concrete/aggregate rapidly.

**Smooth Operation:** Reduced vibration compared to dry bits, enabling precision.

## Versatility in Materials

Handles reinforced concrete (rebar, mesh), brick, block, stone, and asphalt.

Wet Use

Not suitable for dry drilling or metal-only cutting.

Diameter	Tube Thick	Seg.No.	Diameter	Tube Thick	Seg.No.
18mm	2mm	2	108mm	2.25mm	9
20mm	2mm	2	112mm	2.25mm	9
22mm	2mm	2	114mm	2.25mm	9
25mm	2mm	3	116mm	2.25mm	10
27mm	2mm	3	120mm	2.25mm	10
30mm	2mm	3	127mm	2.25mm	11
32mm	2mm	3	132mm	2.5mm	11
36mm	2mm	4	140mm	2.5mm	11
38mm	2mm	4	152mm	2.5mm	11
40mm	2mm	4	160mm	2.5mm	12
44mm	2mm	5	162mm	2.6mm	12
46mm	2mm	5	168mm	2.6mm	13
51mm	2mm	5	180mm	3mm	13
56mm	2mm	5	200mm	3mm	15
63mm	2mm	6	220mm	3mm	15
66mm	2mm	6	230mm	3mm	15
71mm	2mm	6	245mm	3mm	16
76mm	2mm	7	254mm	3mm	16
83mm	2mm	7	270mm	3mm	17
89mm	2mm	8	300mm	3mm	20
96mm	2mm	8	325mm	3mm	20
102mm	2.25mm	9	350mm	3mm	20

### Total Length:

300mm, 350mm, 370mm, 400mm, 420mm, 450mm

### Adapter Size:

M22, 1-1/4 UNC

# Dry Core Drilling Bits



## Professional Quality Core Drill Bits for Concrete

**Segmented Design:** Diamond segments welded (or laser-welded) to the steel body for durability and efficient debris removal.  
**Variable Bond Matrix:** Bond hardness tailored for concrete (softer bond vs. harder aggregates like granite).

## Reinforced Steel Body

**Thick-Walled Barrel:** Resists deformation from high torque and heat stress.  
**Heat-Treated Steel:** Prevents warping during dry cutting.

## Speed & Mobility Advantages

**No Water Setup:** Ideal for overhead drilling, electrical sites, or remote areas.  
**Faster Setup Time:** Eliminates water hoses/pumps.

## Specialized Cutting Geometry

**Wider Segments:** Increased surface area dissipates heat.  
**Aggressive Gullets:** Deep grooves clear debris quickly, reducing friction.

## Material Limitations

**Best For:** Concrete, brick, soft stone.  
**Avoid:** Reinforced concrete (rebar heats bits rapidly), granite, or deep cores.

## Operational Trade-Offs

**Faster Wear:** 30–50% shorter lifespan vs. wet bits.  
**Lower Cutting Speed:** Requires slower RPM to manage heat.  
**Higher Vibration:** Less smooth operation than wet drilling.

Diameter	Tube Thick	Seg.No.	Diameter	Tube Thick	Seg.No.
18mm	2mm	2	108mm	2.25mm	9
20mm	2mm	2	112mm	2.25mm	9
22mm	2mm	2	114mm	2.25mm	9
25mm	2mm	3	116mm	2.25mm	10
27mm	2mm	3	120mm	2.25mm	10
30mm	2mm	3	127mm	2.25mm	11
32mm	2mm	3	132mm	2.5mm	11
36mm	2mm	4	140mm	2.5mm	11
38mm	2mm	4	152mm	2.5mm	11
40mm	2mm	4	160mm	2.5mm	12
44mm	2mm	5	162mm	2.6mm	12
46mm	2mm	5	168mm	2.6mm	13
51mm	2mm	5	180mm	3mm	13
56mm	2mm	5	200mm	3mm	15
63mm	2mm	6	220mm	3mm	15
66mm	2mm	6	230mm	3mm	15
71mm	2mm	6	245mm	3mm	16
76mm	2mm	7	254mm	3mm	16
83mm	2mm	7	270mm	3mm	17
89mm	2mm	8	300mm	3mm	20
96mm	2mm	8	325mm	3mm	20
102mm	2.25mm	9	350mm	3mm	20

### Total Length:

300mm, 350mm, 370mm, 400mm, 420mm, 450mm

### Adapter Size:

M22, 1/4 UNC

# Short Core Drilling Bits



## Professional Quality Core Drill Bits for Concrete

**Segmented Design:** Diamond segments welded (or laser-welded) to the steel body for durability and efficient debris removal.  
**Variable Bond Matrix:** Bond hardness tailored for concrete (softer bond vs. harder aggregates like granite).

## Extended Lifespan

**Reduced Wear:** Water cooling prevents diamond "glazing" (overheating dulls diamonds).  
**Reinforced Steel Body:** Thick-walled, seamless tubing resists bending/torsion stress.

## Clean, Precise Cuts

**Minimal Chipping:** Produces neat holes with smooth walls.  
**Accurate Sizing:** Maintains consistent diameter for fittings (pipes, conduits).

## Rig Compatibility

**Threaded Connections:** Standard threads (e.g., 1-1/4" UNC, M22) for core rigs/stand drills.

## High-Speed Cutting Efficiency

**Fast Penetration:** Diamonds grind through concrete/aggregate rapidly.  
**Smooth Operation:** Reduced vibration compared to dry bits, enabling precision.

## Versatility in Materials

Handles reinforced concrete (rebar, mesh), brick, block, stone, and asphalt.  
**Wet Use**  
 Not suitable for dry drilling or metal-only cutting.

Diameter	Tube Thick	Seg.No.	Seg.Size
63mm	2mm	5	23x10x4mm
83mm	2mm	6	23x10x4mm
89mm	2mm	7	23x10x4mm
96mm	2mm	7	23x10x4.2mm
102mm	2.25mm	8	23x10x4.2mm
108mm	2.25mm	8	23x10x4.2mm
112mm	2.25mm	8	23x10x4.2mm
114mm	2.25mm	9	23x10x4.2mm
116mm	2.25mm	9	23x10x4.2mm
120mm	2.25mm	9	23x10x4.2mm
127mm	2.25mm	10	23x10x4.2mm
132mm	2.25mm	10	23x10x4.7mm
152mm	2.25mm	10	23x10x4.7mm
160mm	2.25mm	11	23x10x4.7mm
168mm	2.25mm	12	23x10x4.7mm
180mm	3mm	12	23x10x4.7mm
200mm	3mm	14	23x10x4.7mm

## Total Length:

100mm,150mm,200mm

## Adapter Size:

M22, 1-1/4 UNC

# Vacuum Brazed Core Drill Bits



Dia.	Adapter	Seg.H	Dia.	Adapter	Seg.H
6mm	Hax/M14/M10	10/12/15mm	45mm	Hax/M14/M10	10/12/15mm
8mm	Hax/M14/M10	10/12/15mm	50mm	Hax/M14/M10	10/12/15mm
10mm	Hax/M14/M10	10/12/15mm	50mm	Hax/M14/M10	10/12/15mm
12mm	Hax/M14/M10	10/12/15mm	52mm	Hax/M14/M10	10/12/15mm
14mm	Hax/M14/M10	10/12/15mm	60mm	Hax/M14/M10	10/12/15mm
16mm	Hax/M14/M10	10/12/15mm	65mm	Hax/M14/M10	10/12/15mm
18mm	Hax/M14/M10	10/12/15mm	68mm	Hax/M14/M10	10/12/15mm
20mm	Hax/M14/M10	10/12/15mm	75mm	Hax/M14/M10	10/12/15mm
22mm	Hax/M14/M10	10/12/15mm	82mm	Hax/M14/M10	10/12/15mm
25mm	Hax/M14/M10	10/12/15mm	90mm	Hax/M14/M10	10/12/15mm
28mm	Hax/M14/M10	10/12/15mm	100mm	Hax/M14/M10	10/12/15mm
30mm	Hax/M14/M10	10/12/15mm	107mm	Hax/M14/M10	10/12/15mm
32mm	Hax/M14/M10	10/12/15mm	117mm	Hax/M14/M10	10/12/15mm
35mm	Hax/M14/M10	10/12/15mm	127mm	Hax/M14/M10	10/12/15mm
40mm	Hax/M14/M10	10/12/15mm	152mm	Hax/M14/M10	10/12/15mm
42mm	Hax/M14/M10	10/12/15mm	165mm	Hax/M14/M10	10/12/15mm

## Vacuum Brazing Technology

**Diamond Distribution:** Single layer of industrial diamonds directly bonded to the steel body via high-temperature brazing in oxygen-free vacuum chambers.

**Precision Bonding:** Eliminates voids/oxidation, ensuring maximum diamond retention and exposure.

**No Segments:** Unlike traditional segmented bits, diamonds cover the entire cutting edge uniformly.

## Ultra-Sharp Cutting Edge

**Aggressive Cutting:** Exposed diamonds protrude prominently, enabling faster initial penetration.

**Smooth Finish:** Ideal for precision holes in brittle materials (e.g., tile, glass, thin concrete).

## Lightweight & Low-Vibration Design

**Thin Steel Barrel:** Reduced mass allows higher RPM on handheld drills.

**Balanced Structure:** Minimizes wobble for cleaner cuts.

## Material Versatility

Optimized For:

- Non-reinforced concrete
- Ceramic tile, porcelain, glass
- Natural stone (marble, granite)
- Fiberglass, carbon composites

**Avoid:** Reinforced concrete (rebar quickly dulls exposed diamonds).

## Speed vs. Longevity Trade-Off

- **Pros:**
  - 2-3× faster cutting in soft materials vs. segmented bits.
  - Lower cost for small diameter holes ( $\leq 4$  inches).
- **Cons:**
  - Shorter lifespan (single diamond layer wears faster).
  - Not reusable after diamonds deplete.

## Specialized Applications

**Precision Plumbing:** Cutting clean holes in bathroom tiles.

**Electrical Installations:** Outlets in thin masonry walls.

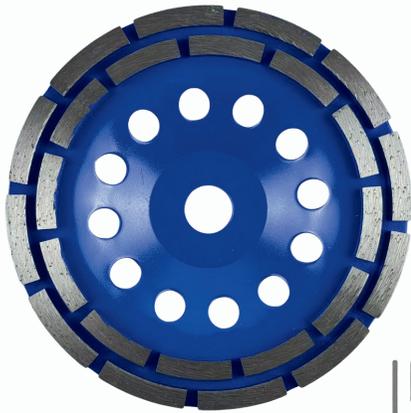
**Artistic Fabrication:** Drilling glass, delicate stone, or composites.

## Total Length:

50mm, 65mm, 90mm, 100mm



## Double Row Diamond Cup Wheels



### Dual-Row Diamond Segments

Two concentric rings of diamond segments significantly increase the surface contact area.

### High Material Removal Rate

Designed for rapid stock removal, ideal for heavy-duty tasks like concrete leveling, thick epoxy/paint removal, and stone coarse grinding.

### Longer Lifespan

Outlasts single row wheels, reducing cost per square foot.

### Heavy-Duty Construction

Withstands high pressure and aggressive grinding conditions.

### APPLICATIONS:

#### HARD MATERIAL SPECIALIST

ENGINEERED FOR CONCRETE, STONE (GRANITE, MARBLE), BRICK, AND MASONRY.

#### POWERFUL REMOVAL

EXCELS AT STRIPPING THICK COATINGS (EPOXY, GLUE, PAINT), LEVELING UNEVEN CONCRETE, AND COARSE-TO-MEDIUM GRINDING.

#### WET/DRY GRINDING COMPATIBLE:

SUITABLE FOR BOTH METHODS (DUST EXTRACTION RECOMMENDED FOR DRY GRINDING).

Diameter	Arbor	Seg.H	Seg.No.
4" - 100mm	22.23mm	5.5mm	16
4.5" - 115mm	22.23mm	5.5mm	18
5" - 125mm	22.23mm	5.5mm	20
7" - 180mm	22.23mm	5.5mm	24

## Single Row Diamond Cup Wheels

### Focused Grinding Surface

Single row of diamond segments concentrates force for targeted material removal.

### Enhanced Maneuverability

Ideal for detailed work, edges, corners, and small-area grinding.

### Lightweight Design

Lower mass minimizes fatigue during extended handheld use (e.g., angle grinders).

### Smooth Operation

Balanced construction reduces kickback and vibration for better control.

### Lower Initial Cost

Budget-friendly option for light-to-medium tasks.



### APPLICATIONS:

#### CONCRETE:

SURFACE PREP, COATING REMOVAL, MINOR LEVELING.

#### MASONRY:

GROUTING, JOINT CLEANING, STONE PROFILING.

#### RENOVATION:

PAINT/EPOXY STRIPPING, FLOOR PATCH REMOVAL.

#### DETAIL WORK:

EDGE GRINDING, CORNERS, AND CONFINED SPACES.

Diameter	Arbor	Seg.H	Seg.No.
4" - 100mm	22.23mm	5.5mm	8
4.5" - 115mm	22.23mm	5.5mm	9
5" - 125mm	22.23mm	5.5mm	10
7" - 180mm	22.23mm	5.5mm	12

## Arrow Type Diamond Cup Wheels



### Triangular Arrow Segments

Unique arrowhead-shaped diamond segments bite deeply into rough concrete, terrazzo, and uneven substrates.

### Peak Performance on Textured Surfaces

Excels where standard cup wheels struggle (e.g., exposed aggregate, broom-finished concrete).

### High Debris Clearance & Anti-Clogging

Wide Spacing Between Segments: Large gaps prevent material buildup during heavy grinding.

Self-Cleaning Design: Slurry/dust ejected rapidly through segment gaps, maintaining consistent cutting speed.

### Impact-Resistant Grinding

Reinforced Segment Bases: Steel-backed arrow segments withstand violent vibrations and sudden impacts.

Ideal for Demolition & Renovation: Handles embedded rebar, rocks, and voids in old concrete.

Diameter	Arbor	Seg.H	Seg.No.
4" - 100mm	22.23mm	5.5mm	5
4.5" - 115mm	22.23mm	5.5mm	6
5" - 125mm	22.23mm	5.5mm	6
7" - 180mm	22.23mm	5.5mm	10

### APPLICATIONS:

#### CONCRETE SCARIFICATION

RAPIDLY OPENS PORES FOR COATING ADHESION.

#### TERRAZZO RESTORATION

LEVELS RIDGES WITHOUT GOUGING FRAGILE CHIPS.

#### BRIDGE DECK PREP

REMOVES CARBONATION AND LAITANCE ON WEATHERED SURFACES.

#### INDUSTRIAL COATING REMOVAL

STRIPS THICK POLYURETHANE/EPOXY LAYERS.

## Swirl Type Diamond Cup Wheels

### Aerodynamic Grinding Efficiency

Spiral Segment Layout: Diamond segments arranged in a radial swirl pattern create continuous cutting motion.

### Superior Cooling & Dust Extraction

Vortex Airflow Channels: Swirling grooves generate centrifugal force to actively expel debris.

Zero Clogging Design: Self-cleaning action prevents buildup in dry/wet grinding (ideal for epoxy, mastic).

Reduced Heat Stress: Enhanced airflow cools diamonds, extending life by 30% vs. standard cups.

### Aggressive Removal + Fine Finish

Combines segmented wheel speed with near-continuous rim smoothness.

### Extended Service Life

Multi-Layer Diamond Matrix: Gradual diamond exposure maintains consistent sharpness.

Reinforced Steel Body: Resists warping under heavy load.



### APPLICATIONS:

#### CONCRETE POLISHING PREP

RAPID REMOVAL OF COATINGS WITH SCRATCH-FREE SUBSTRATE.

#### TERRAZZO REFINISHING

GENTLE ON DECORATIVE CHIPS DURING RESTORATION.

#### EPOXY/PAINT STRIPPING

CLOG-RESISTANT PERFORMANCE ON STICKY RESIDUES.

#### COUNTERTOP FABRICATION

PRECISION EDGE WORK WITHOUT TEAR-OUT.

Diameter	Arbor	Seg.H	Seg.No.	Seg.No.
4" - 100mm	22.23mm	5.5mm	9	16
4.5" - 115mm	22.23mm	5.5mm	9	16
5" - 125mm	22.23mm	5.5mm	10	18
7" - 180mm	22.23mm	5.5mm	12	24

## Segment Diamond Cup Wheels



### APPLICATIONS:

#### CONCRETE

LEVELING, COATING REMOVAL, SURFACE PREP.

#### NATURAL STONE

GRANITE/MARBLE PROFILING, EDGE WORK.

#### MASONRY

BRICK, BLOCK, AND MORTAR GRINDING.

#### COATINGS

EPOXY, GLUE, PAINT STRIPPING.

### Aggressive Grinding

Segments concentrate cutting force for rapid stock removal on concrete, stone, and masonry.

### Optimized Segment Spacing

Wide gaps between segments prevent clogging and enhance slurry/dust ejection.

### Core Advantages

**Economical:** Replace only segments, not entire wheel.

**Adaptable:** Mix/match segment types for hybrid tasks.

**Durability:** Segments absorb impact, protecting core.

Diameter	Arbor	Seg.H	Seg.No.
3" - 90mm	20-16mm	5.5mm	12T
4" - 100mm	22.23-20-16mm	5.5mm	12T
4.5" - 115mm	22.23mm	5.5mm	12T
5" - 125mm	22.23mm	5.5mm	12T
6" - 150mm	22.23mm	5.5mm	14T
7" - 180mm	22.23mm	5.5mm	16T

## Turbo Diamond Cup Wheels

### Turbo Rim Design

Continuous segmented rim with aggressive diamond patterns maximizes RPM efficiency.

### Fast Material Removal

30-50% faster cutting vs. standard cup wheels on concrete, stone, and coatings.

### Segmented + Continuous Rim

Combines aggressive cutting of segmented wheels with the smooth finish of continuous rims.

### Premium Diamond Grit

High density diamonds in heat-resistant bonds extend lifespan.

### Uniform Wear

Turbo design distributes wear evenly across the rim.

Diameter	Arbor	Seg.H
3" - 80mm	20-16mm	5.5mm
4" - 100mm	20-16mm	5.5mm
4.5" - 115mm	22.23mm	5.5mm
5" - 125mm	22.23mm	5.5mm
7" - 180mm	22.23mm	5.5mm



### APPLICATIONS:

#### FLOOR PREPARATION

RAPID CONCRETE LEVELING BEFORE POLISHING.

#### RENOVATION

REMOVING THICK TILE ADHESIVE OR LEVELING COMPOUNDS.

#### STONE FABRICATION

SHAPING EDGES ON COUNTERTOPS.

#### INDUSTRIAL MAINTENANCE

CLEANING WELD SEAMS, DEBURRING METAL.

## Diamond Cup Wheels



**SUPERIOR DIAMOND GRINDING PERFORMANCE:** THE DIAMOND CONCRETE GRINDING WHEEL IS DESIGNED WITH HIGH-QUALITY DIAMOND PARTICLES THAT ENSURE EXCEPTIONAL GRINDING PERFORMANCE. WITH ITS DIFFERENT TEETH DESIGN, IT EFFICIENTLY GRINDS AND POLISHES VARIOUS SURFACES SUCH AS CONCRETE, GRANITE, STONE, MARBLE, CEMENT, AND ROCK, LEAVING THEM SMOOTH AND READY FOR FURTHER TREATMENTS.

### **APPLICATIONS:**

CONCRETE  
LEVELING, COATING REMOVAL, SURFACE PREP.  
NATURAL STONE  
GRANITE/MARBLE PROFILING, EDGE WORK.  
MASONRY  
BRICK, BLOCK, AND MORTAR GRINDING.  
COATINGS  
EPOXY, GLUE, PAINT STRIPPING.

## Diamond Grinding Shoes For Concrete Floor Grinder



- Exceptional Durability & Long Service Life :**  
 Manufactured with high-quality industrial diamonds and a robust metal bond, these segments wear down very slowly. They last significantly longer than conventional abrasives, reducing replacement frequency and long-term costs.
- High-Efficiency Grinding & Fast Material Removal :**  
 The extreme hardness of diamond allows for aggressive grinding and rapid stock removal on tough materials like concrete, stone, and ceramic tiles. Drastically improves work efficiency and saves valuable time on any project.
- Wide Compatibility & Versatile Application :**  
 Designed to standard specifications, these segments are compatible with most brand floor grinders, renovators, and grinding disc bases. An ideal universal choice for construction, renovation, and stone fabrication work.
- Professional-Grade Finish :**  
 Delivers a consistently even and level surface without deep scratches. Available in various grits for coarse grinding to fine polishing, achieving a smooth and ideal finish that meets high professional standards.
- Rugged Construction & High Impact Resistance :**  
 Advanced production techniques ensure these grinding blocks remain stable and intact even under high-speed, high-pressure working conditions. Resists cracking and segment loss, ensuring safe and continuous operation.



Longda  
隆达工具®



**DIAMOND TOOLS**

**ENGINEERED TO ENDURE**

**Shijiazhuang Longda Diamond Product Co., Ltd.**



CONTACT US FOR MORE INFO:  
**+8618601194237**

**WECHAT**



+86 0311 85468801



hatti@longdablade.com



+86 18601194237



www.longdablade.com