

DRATEC

Abrasive Solutions

HIGH-SPEED GRINDING
& CUTTING INNOVATION



About Us

DRATEC is a professional supplier of high-performance equipment for the global foundry industry, integrating R&D and design, solution integration, installation and commissioning, as well as after-sales maintenance. Through our advanced grinding solutions, we help foundries achieve high-precision post-processing and surface quality improvement of castings.

Product Features:

- Surface finishing that reduces labor intensity and ensures consistent part quality
- Efficient removal of burrs and flashes with reduced environmental pollution
- Suitable for a wide range of materials and complex casting structures

Our Services & Commitment:

We provide a full-process service covering process evaluation, customized solution design, equipment manufacturing, local team installation and commissioning, and continuous after-sales maintenance.

In addition, we offer upgrade and retrofit solutions for existing grinding equipment, improving machining accuracy and efficiency through control system optimization and mechanical structure enhancements. Through the synergy of core making and grinding, we help you increase production efficiency, reduce operating costs, and enhance overall profitability.



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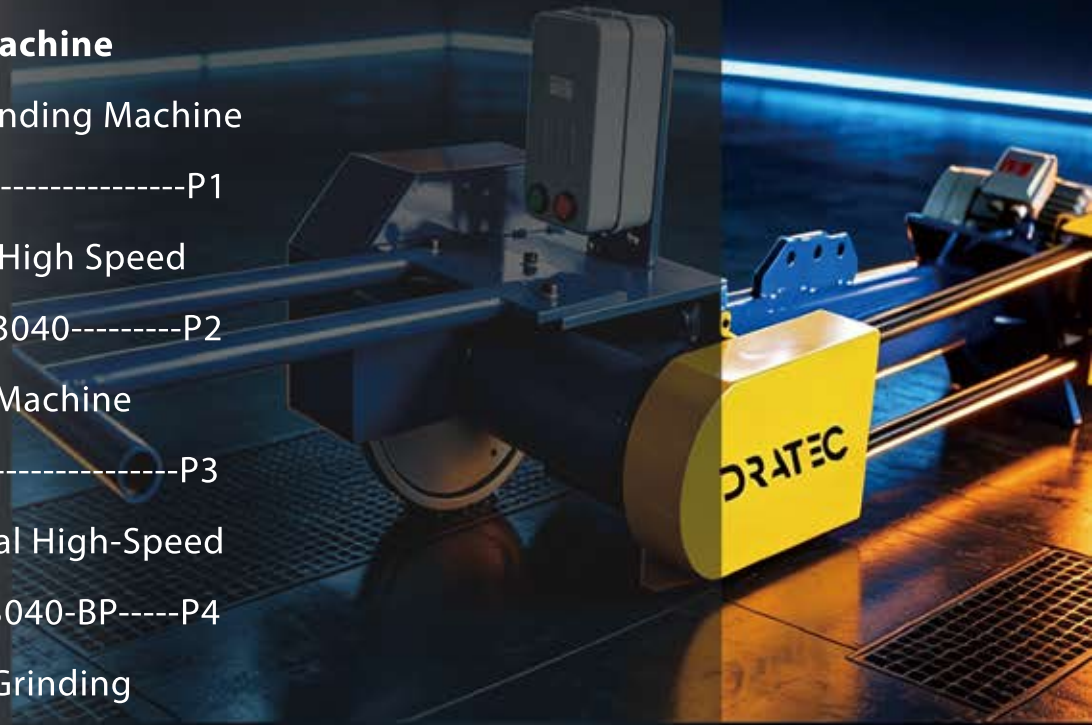
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1. Bench High Speed Grinding Machine



Specification



Model No.

D-MT3277-T250



Power (kW)

4



Voltage

440V/380V/220V



Linear Velocity (m/s)

70



Size (mm)

620*500*350



Matching Grinding Wheel (mm)

DRMLS/DRMLSX-250*25/40*75

Customized Specification:

Grinding machine with various outer structures and the grinding wheels to be equipped with, can be designed and manufactured according to the requirements of different shapes of cast iron.



Application

Bench high-speed grinding machine, suitable for grinding & cutting of cast iron, installed diamond ultra-hard grinding wheels to grind the outer surface of cast iron.



2. Single-Wheel Vertical High Speed Grinding Machine



Specification

 Model No.	D-MD3040 (D-MD3040-L, D-MD3040-R)
 Power (kW)	5.5
 Voltage	440V/380V/220V
 Linear Velocity (m/s)	80
 Size (mm)	970*610*1200
 Matching Grinding Wheel (mm)	DRMLS/DRMLSX-400*20/25/30/40/50*75

Customized Specification:

Grinding machine with various outer structures and the grinding wheels to be equipped with can be designed and manufactured according to the requirements of different shapes of cast iron.

Features

Unmatched Stability: <0.02mm bounce for heavy-duty precision.

Superior Productivity: Operates at a peripheral speed of 80 m/s, significantly exceeding the conventional range of 30-45 m/s. This high-speed operation, combined with diamond wheels, enables superior material removal rates and improves work efficiency.

Long service life: Equipped with ultra-hard diamond grinding wheels. Diamond grinding wheels wear extremely slowly and have a very long service life. When grinding hard materials, its lifespan is tens or even hundreds of times that of ordinary grinding wheels (such as corundum and silicon carbide grinding wheels).

Clean Operation: No smoke or dust emissions, good for workers and adaptable work rest, which boosts work efficiency and secure long-term employment and reduces turnover. Integrated dust collection that pays for itself.

Proven Reliability: Consistent, high-quality results for cast iron applications.

Customized Solutions: We provide bespoke solutions for both machinery and abrasive tools, including diamond grinding wheels, cutting discs, grinding heads, core drill bits, and more. Our engineering team partners with you to address your specific application challenges.

Application

DRATEC High-speed grinder, engineered for heavy-duty applications, these grinders offer exceptional stability and support, which are critical for precision grinding in industrial settings like foundries and metalworking shops. Suitable for grinding & cutting of cast iron.

3. High Speed Grinding Machine



Specification

	Model No.	D-MD3040-XT
	Power (kW)	7.5
	Linear Velocity (m/s)	80
	Matching Grinding Wheel (mm)	GHMLSM-420*55*75 C+/GHMLSM-420*55*75

Customized Specification:

Grinding machine with various outer structures and the grinding wheels to be equipped with can be designed and manufactured according to the requirement of different shapes of cast iron.

Features

Redefine Foundry Grinding with a Complete Diamond System

Our high-performance rough grinding machines are specifically engineered to unlock the full potential of our brazed diamond wheels. When paired as a set, they are built to dominate your most challenging applications. Larger wheel surface and curvature double polishing efficiency

Engineered for Unmatched Productivity & Uptime

Robust Steel Construction: Ensures vibration-free stability under maximum load.

Maintenance-Free Spindle System: Features oversized bearings and drive for relentless operation.

Extreme 80 m/s Speed: Maximizes the efficiency and lifespan of diamond wheels, far surpassing conventional options.

Application

DRATEC High-speed grinder, engineered for heavy-duty applications, these grinders offer exceptional stability and support, which are critical for precision grinding in industrial settings like foundries and metalworking shops. Suitable for grinding & cutting of cast iron.

4. Double-Wheels Vertical High-Speed Grinding Machine



Specification

 Model No.	D-MS3040-BP
 Power (kW)	7.5
 Voltage	440V/380V/220V
 Linear Velocity (m/s)	80
 Size (mm)	1200x1200x1100
 Matching Grinding Wheel (mm)	DRMLS/DRMLSX-400*20/25/30/40/50*75

Customized Specification:

Grinding machine with various outer structures and the grinding wheels to be equipped with can be designed and manufactured according to the requirement of different shapes of cast iron.

Features



Double headed version: Two workers work independent with double efficiency



Strong power: Equipped with strong high power motor, greatly improving output



Batch processing: Ideal choice for processing batch casting and improving production line efficiency

Additional Benefits

Proven Reliability
Consistent, high-quality results for cast iron applications

Core Strengths
Dual head design, strong power, batch processing

Application

DRATEC high-speed grinder, engineered for heavy-duty applications in foundries and metalworking shops for grinding & cutting of cast iron

5. Hanging High Speed Grinding Machine



Specification

	Model No.	D-MX3140
	Power (kW)	5.5
	Voltage	440V/380V/220V
	Linear Velocity (m/s)	80
	Size (mm)	2500 x 600 x 800
	Matching Grinding Wheel (mm)	DRMLS/DRMLSX-400*20/25/30/40/50*75

Customized Specification:

Grinding machines with various outer structures and the grinding wheels to be equipped with can be designed and manufactured according to the requirement of different shapes of cast iron.

Features

Workpiece stationery, tool moving, efficiency revolution.

DRATEC hanging high speed grinder specially designed for efficient cleaning of large fixed workpieces, its unique suspension structure makes operation flexible and labor-saving, and production efficiency can be increased by 5 to 9 times compared to traditional handheld tools. It is the ultimate solution for handling heavy-duty castings and forging sprues.

Additional Benefits

Clean Operation

No smoke or dust emission, good for workers and adaptable work rest, which is honed to provide clean, safe and ergonomics operation

Application

DRATEC High-speed grinder, engineered for heavy-duty applications, offers exceptional stability and support, which are critical for precision grinding in industrial settings like foundries and metalworking shops. Suitable for grinding & cutting of cast iron.

6. Dust Collector



Specification

Model No.	DRXLD-3.0-B
Rated Power	3
Air Flow Rate(m ³ /h)	2700
Filtration Efficiency	99.9%
Filtration Area(m ²)	32
Filtration Accuracy(μm)	10
Cleaning Method	impulse
Power Supply (V/Hz)	3Ph380V-50Hz
Air Supply (MPa)	0.5-0.8

Features

High-Efficiency

An integrated high-efficiency dust extraction system captures over 95% of airborne cast iron particles, improving air quality and reducing exposure hazards, which directly reduces employee turnover. The collected iron dust can be recycled within the foundry production chain, providing tangible material recovery value.

ROI on Dust Collection

Based on operational data, the recovered iron dust typically offsets the full cost of the dust collection system within a 4- to 5-month period, making it both an environmental and economic asset.

Application

DRATEC Dust Collector, engineered for heavy-duty applications, suitable to match with grinding machines to collect the dust and fumes generated during the operation

7. Ultra-hard Diamond Grinding Tools

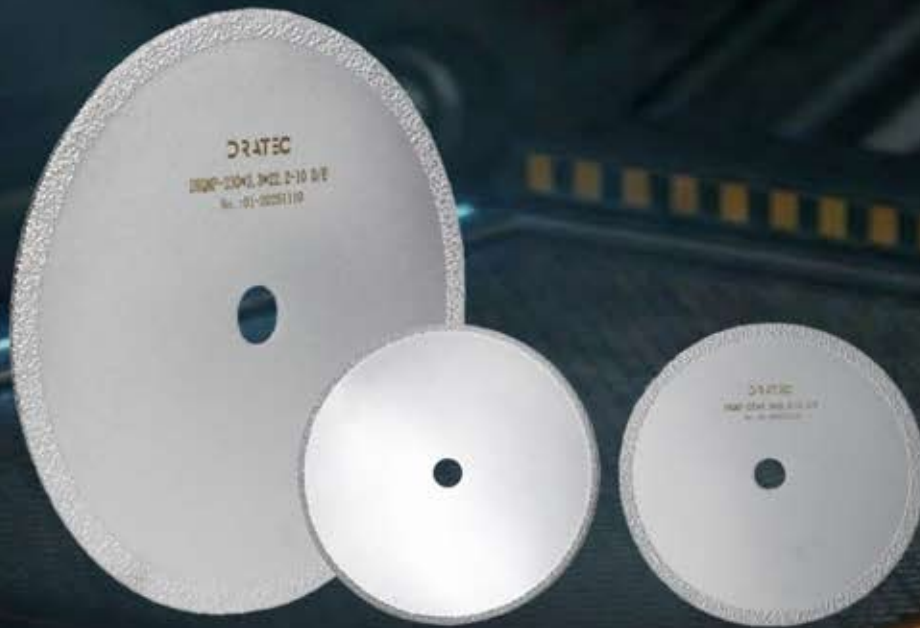


✂ Features

- **Long service life:** By combining advanced international fusion-diamond technology with premium raw materials, we achieve not only exceptional diamond exposure and a superior bond but also a tool life that is over 60 times greater than conventional alternatives
- **Superior Productivity:** Compared with conventional grinding tools, this innovation more than doubles grinding efficiency on cast iron.
- **Safer & more environment-friendly:** By integrating premium steel and diamonds, our tool not only ensures superior durability but also resolves common issues like poor water/alkali resistance, fragility, short storage time, excessive sparks, and significant dust pollution.
- **Customize your perfect solution with us:** Helping thousands of global customers solve grinding problems with customized requirements



8. Cutting & Grinding Disc



Specification

Model No.	DRQMP	
Outer Diameter (mm)	100-230	
Thickness (mm)	2.4-3.3	
Bore Diameter (mm)	22.2	
Our products are categorized by diamond mesh sizes vary from A to M to suit all grinding needs. The coarse A and finer C are the most versatile, satisfying over 90% of common grinding requirements.		
Best Selling Mesh	C/D	D/E
	 Suitable for medium and large-scale cutting & grinding operations	 Suitable for smaller and medium cutting & grinding operations
Customizable Elements: Outer Diameter 100-600mm, Bore Diameter, Thickness, Diamond Width/Diamond Mesh No.		

Application

Suitable for grinding & cutting of cast iron, for all kinds of cutting operations, Mesh NO. C/D or D/E satisfy most needs. Special requirements can be customized.

9. Cutting Disc



Specification

Model	DRQGII	DRQGIK
Outer Diameter (mm)	100-600	100-600
Thickness (mm)	2.0-3.8	2.0-3.8
Bore Diameter (mm)	16-25.4	16-25.4

Our products are categorized by diamond mesh sizes vary from A to M to suit all grinding needs. The coarse A and finer C are the most versatile, satisfying over 90% of common grinding requirements

	C/D	D/E	A+	C+
Best Selling Mesh Type				
	Suitable for medium and large-scale cutting operations.	Suitable for smaller and medium cutting operations.	Suitable for cutting machine, medium and large-scale cutting operations.	Suitable for cutting machine, medium and large-scale cutting operations.

Customizable Elements:

Outer Diameter 100-600mm, Bore Diameter, Thickness, Diamond Width/Diamond Mesh No.

Application

Suitable for manual and automatic cutting of cast iron, for all kinds of cutting operations, special requirements can be customized.

10. Grinding Disc



Specification

Model No.	DRMPHC	DRMPPC
Application	Curved	Flat Surface
Outer Diameter (mm)	100/125/150/180	100/125/150/180
Bore Diameter (mm)	16/22.2	16/22.2

Our products are categorized by diamond mesh sizes vary from A to M to suit all grinding needs. The coarse A and finer C are the most versatile, satisfying over 90% of common grinding requirements.

Best Selling Mesh

C/D



Suitable for medium and large-scale grinding operations.

D/E



Suitable for smaller and medium grinding operations.

Application

Suitable for grinding & cutting of cast iron, for all kinds of cutting operations, Mesh NO. C/D or D/E satisfy most needs. Special requirements can be customized.

11. Grinding Wheel Model



Specification

			
Model No.	DRMLS	DRMLSX	DRMLSM
Outer Diameter (mm)	125-600	125-600	125-600
Thickness (mm)	20-50	20-50	20-50
Bore Diameter (mm)	32-305	32-305	32-305
Our products are categorized by diamond mesh size vary from A to M to suit all grinding needs. The coarse A and finer C are the most versatile, satisfying over 90% of common grinding requirements)			

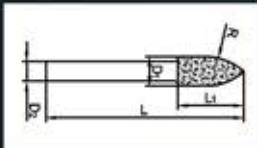
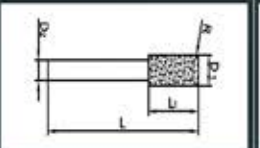
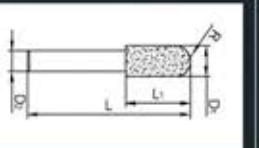
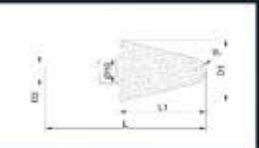
Application

Suitable for grinding & cutting of cast iron, for all kinds of cutting operations, Mesh NO. C/D or D/E satisfy most needs. Special requirements can be customized.

12. Grinding Head



Specification

Model No.	DRMT I	DRMT II	DRMT III	DRMT IV
Drawing				
Specification	【DRMT I / II / III / IV-D1*L1MD2*(L-L1)(mm)】			
Size	DRMTI/II/III-07*20M06*40 DRMTI/II/III-12*36M06*30 DRMTI/II/III-17*36M06*30 DRMTI/II/III-19*36M06*30		DRMTI/II/III-09*20M06*40 DRMTI/II/III-15*36M06*30 DRMTIV-17*35M06*33 DRMTIV-19*35M06*33	
Customized products can be designed and manufactured for automatic grinding equipment as per request from the customer.				

Application

Suitable for all kinds of angle grinders, manually & automatic grinding the curved surfaces, grooves and bores of cast iron.

DRATEC

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