

VIBRATORY DISC MILL RS 200

The Vibratory Disc Mill RS 200 is suitable for the **extremely quick, loss-free and reproducible grinding** of medium-hard, brittle and fibrous materials to analytical fineness. The instrument runs **steadily and smoothly**, even with heavy grinding sets, at maximum speed thanks to the new Stabilized-Plane-Drive. With its **robust design**, the RS 200 has proven to be ideal for use in the building materials sector (cement), in geology, mineralogy, metallurgy and in power plants. Due to the **high end fineness** and speed the RS 200 is the perfect mill when it comes to **preparing samples for spectral analysis**.

APPLICATION EXAMPLES

cement, cement clinker, ceramics, coal, coke, concrete, corundum, electronic components, glass, metal oxides, minerals, ores, plant materials, silicates, slag, soils, ...





PRODUCT ADVANTAGES

- reproducible results due to "Stabilized-Plane-Drive" (avoids tumbling of the grinding set)
- variable speed 700 1,500 min⁻¹
- extremely short grinding time
- agate and tungsten carbide recognition for automatic speed reduction
- 10 SOPs can be stored
- no sample loss thanks to optimum o-ring seal
- wide range of materials for contamination free grinding
- noise-insulated grinding chamber
- new quick-action grinding set clamping device for convenient and safe tightening
- safety interlock
- easy 1-button operation with colored graphics display
- new carry handle
- new ergonomic design, heavy grinding sets can be inserted closer to the user's body and slided into the machine, leading to less strenuous laboratory work especially for high throughput users





FEATURES

Applications	size reduction, mixing, triturating construction materials, environment / recycling, geology / metallurgy, glass / ceramics	
Field of application		
Feed material	medium-hard, hard, brittle, fibrous	
Size reduction principle	pressure, friction	
Material feed size*	< 15 mm	
Final fineness*	< 20 µm	
Batch size / feed quantity*	15- 250 ml depending on size of grinding set	
Speed at 50 Hz (60 Hz)	700 - 1,500 min-1, continuously adjustable	
Material of grinding tools	hardened steel, tungsten carbide, agate, zirconium oxide, steel 1.1740 (for heavy-metal free grinding)	
Grinding jar sizes	50 ml / 100 ml / 250 ml	
Setting of grinding time	digital, 00:01 to 99:59	
Storable SOPs	10	
Drive	3-phase asynchronous motor with frequency converter	
Drive power	1.5 kW	
Electrical supply data	different voltages	
Power connection	1-phase	
Protection code	IP 40	
W x H x D closed	836 x 1220 x 780 mm	
Net weight	~ 210 kg (without grinding set)	
Standards	CE	



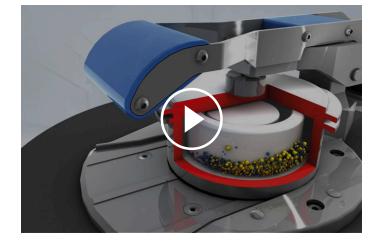


FUNCTION PRINCIPLE

The Vibratory Disc Mill RS 200 comminutes by **impact and friction**. The grinding set is firmly attached to the vibration plate with a quick-action lever. The plate with the grinding set is subjected to circular horizontal vibrations.

The centrifugal force acting on the grinding rings in the dish results in extreme pressure, impact and frictional forces acting on the sample, producing analytical fineness in 1-3 minutes. The circular vibrations are produced by a frequency controlled 1.5 kW 3-phase motor.

A sensor recognizes the presence of agate grinding sets and automatically limits the speed to 700 min⁻¹ to avoid damaging the agate. The cover of the noiseinsulated grinding chamber has a safety interlock and can only be opened when the mill is at a standstill.



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ORDER DATA

VIBRATORY DISC MILL RS 200

Vibratory Disc Mill RS 200 with carry handle for grinding sets, on wheels (please order grinding set and carry handle insert (if necessary) separately)

20.730.0001

RS 200 220-230 V, 50/60 Hz

other electrical versions available for the same price

GRINDING SETS RS 200

HARDENED STEEL		
01.462.0170	50 ml	
01.462.0171	100 ml	
01.462.0263	250 ml	
TUNGSTEN CARBIDE		
01.462.0353	50 ml (for up to 1200 min-1)	
01.462.0354	100 ml (for up to 1200 min-1)	
01.462.0355	250 ml (for up to 1200 min-1)	
AGATE		
01.462.0178	50 ml (only for 700 min-1)	
01.462.0179	100 ml (only for 700 min-1)	





ZIRCONIUM OXIDE 01.462.0193 Image: Some state state

01.462.0002

50 ml

01.462.0266

250 ml

ACCESSORIES RS 200

CARRY HANDLE AND ACCESSORIES FOR RS 200 GRINDING SETS

03.225.0086	n n	Carry handle for all 250 ml grinding sets, for 100 ml grinding set hardened steel, agate, zirconium oxide, steel 1.1740 and for use with carry handle inserts
02.225.0087		Carry handle insert for 50 ml grinding set hardened steel, tungsten carbide, Steel 1.1740
02.225.0088		Carry handle insert for 50 ml grinding set agate
02.225.0089	5	Carry handle insert for 50 ml grinding set zirconium oxide
02.225.0090	0	Carry handle insert for 100 ml grinding set tungsten carbide

ADDITIONAL ITEMS RS 200			
05.114.0075	\bigcirc	O-ring for grinding set 50 ml steel	
05.114.0069	0	O-ring for grinding set 50 ml agate and zirconium oxide	
05.114.0068	0	O-ring for grinding set 50 ml tungsten carbide	

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05.114.0067	\bigcirc	O-ring for grinding set 100 ml steel and zirconium oxide, 250 ml tungsten carbide
05.114.0070	\bigcirc	O-ring for grinding set 100 ml agate and tungsten carbide
05.114.0076	\bigcirc	O-ring for grinding set 250 ml steel

99.200.0035

IQ/OQ Documentation for RS 200

