Mortar Grinder RM 200

General Information



The Mortar Grinder RM 200 can mix and homogenize powders, suspension and pastes, even for samples with high viscosity. The RM 200 is suitable for the proper and reproducible sample preparation to analytical fineness.

The sample grinder substitutes cumbersome hand mortars by a high performance drive with electronic control. The grinding set can be cooled and heated and is very easy to clean. Grinding sets of various material qualities are available which can be exchanged easily for optimum adaptation to various grinding tasks.

Application Examples

ashes, cement clinker, chemical products, coal, cocoa nibs, coke, drugs, food, homeopathic materials, nuts, oil seeds, pharmaceutical materials, plant materials, salts, silicates, slag, soils, spices, tiles, yeast cells, ...

Product Advantages

- dry, wet and cryogenic grinding
- reproducible results due to adjustable pestle and scraper pressure
- closed, dust tight grinding chamber with windows
- easy exchange of mortar and pestle without tools
- performance display for load control
- adjustable pestle and scraper pressure
- wide range of materials for contamination free grinding
- 3 scraper materials (PU, beech wood, PTFE)
- Pestle speed 100 rpm

Features

Applications	grinding, mixing and triturating, dry and wet
Field of application	agriculture, biology, chemistry / plastics, construction materials, food, geology / metallurgy, glass / ceramics, medicine / pharmaceuticals
Feed material	soft, hard, brittle, pasty
Size reduction principle	pressure, friction
Material feed size*	< 8 mm
Final fineness*	< 10 µm
Batch size / feed quantity*	10 - 190 ml
Grinding chamber volume	700 ml
Speed at 50 Hz (60 Hz)	100 min^{-1}
Speed setting	-
Setting of pestle pressure	vertical by adjusting knob + scale, horizontal by adjusting knob +

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	visual/acoustic control
Setting of scraper pressure	by adjusting knob + visual control
Material of grinding tools	hardened steel, stainless steel, tungsten carbide, agate, sintered aluminium oxide, zirconium oxide, hard porcelain
Setting of grinding time	digital, 1 - 99 min / continuous operation
Drive	1-phase motor with auxiliary capacitor
Electrical supply data	different voltages
Power connection	1-phase
Protection code	IP 53
Power consumption	250 W (230 V, 50 Hz) / 290 W (120 V, 60 Hz)
W x H x D closed	400 x 480 x 370 mm (opened 400 x 550 x 510 mm)
Net weight	~ 24.2 kg
Standards	CE

Please note:

*depending on feed material and instrument configuration/settings

Videolink

http://www.retsch.com/rm200

Function Principle

The Mortar Grinder RM 200 comminutes, mixes and triturates by pressure and friction. The function of the scraper is to feed the sample material into the area between the mortar and pestle. This forced feed ensures that the whole of the sample is continuously subjected to the grinding and trituration process and is also intensively mixed. The grinder pestle is not located in the center of the mortar but is offset; contact with the rotating mortar and the sample causes it to rotate automatically. The necessary grinding pressure is achieved by the weight of the pestle itself combined with the adjustable spring pressure acting on its axis.

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