Vibratory Disc Mill RS 200

General Information
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" (avoid tumbling of the grinding set)
- safety interlock
- variable speed 700 - 1,500 min\(^{-1}\)
- extremely short grinding time
- agate 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
- quick-action grinding set clamping device

Features

<table>
<thead>
<tr>
<th>Applications</th>
<th>size reduction, mixing, triturating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of application</td>
<td>construction materials, environment</td>
</tr>
<tr>
<td></td>
<td>/ recycling, geology / metallurgy,</td>
</tr>
<tr>
<td></td>
<td>glass / ceramics</td>
</tr>
<tr>
<td>Feed material</td>
<td>medium-hard, hard, brittle, fibrous</td>
</tr>
<tr>
<td>Size reduction principle</td>
<td>pressure, friction</td>
</tr>
<tr>
<td>Material feed size*</td>
<td>&lt; 15 mm</td>
</tr>
<tr>
<td>Final fineness*</td>
<td>&lt; 40 µm</td>
</tr>
<tr>
<td>Batch size / feed quantity*</td>
<td>35 - 150ml</td>
</tr>
<tr>
<td>Speed at 50 Hz (60 Hz)</td>
<td>700 - 1,500 min(^{-1}), continuously adjustable</td>
</tr>
<tr>
<td>Material of grinding tools</td>
<td>hardened steel, tungsten carbide, agate, zirconium oxide, steel</td>
</tr>
<tr>
<td></td>
<td>1.1740 (for heavy-metal free grinding)</td>
</tr>
</tbody>
</table>

© Retsch GmbH - www.retsch.com - info@retsch.com
Subject to technical modifications and errors
page 1/4
07.03.2013
Vibratory Disc Mill RS 200

- Grinding jar sizes: 50 ml / 100 ml / 250 ml
- Setting of grinding time: digital, 00:00:01 to 99:59:59
- 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)
- Documentation: Operation & Application Video
- Standards: CE

*depending on feed material and instrument configuration/settings
Vibratory Disc Mill RS 200

Videolink

http://www.retsch.com/rs200

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.

Order data

Vibratory Disc Mill RS 200

on wheels (please order grinding set separately)
20.725.0001 RS 200, 220-230 V, 50/60 Hz

other electrical versions available for the same price

Grinding set RS 200

Hardened steel
01.462.0170 50 ml
01.462.0171 100 ml
01.462.0263 250 ml

Tungsten carbide
01.462.0177 50 ml
01.462.0265 100 ml
01.462.0264 250 ml
Vibratory Disc Mill RS 200

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  50 ml
01.462.0192  100 ml

Steel 1.1740 for grinding without heavy-metal contamination
01.462.0002  50 ml
01.462.0266  250 ml

Additional items RS 200
05.114.0075  O-ring for grinding set 50 ml steel
05.114.0069  O-ring for grinding set 50 ml agate and zirconium oxide
05.114.0068  O-ring for grinding set 50 ml tungsten carbide
05.114.0067  O-ring for grinding set 100 ml steel and zirconium oxide, 250 ml tungsten carbide
05.114.0070  O-ring for grinding set 100 ml agate and tungsten carbide
05.114.0076  O-ring for grinding set 250 ml steel