Raymond Mill

CRUSHING | GRINDING | QUARRY PLANT | SCREENING | WASHERS | FEEDING | CONVEYOR

Shanghai Joyal Mining Machinery Co., Ltd.

Email: joyal@crusherinc.com   http://www.joyalcrusher.com
Raymond mill is a traditional mill type, which is to grind non-flammable and non-explosive materials in the fields of building materials, mining, metallurgy and chemical industry with hardness less than 7 in Moh’s scale and humidity less than 6 percent, such as: limestone, calcite, barite, dolomite, marble, talcum, gypsum, kaoline, iron ore, glass, fireproof materials, heat preservation materials, chemical materials and so on (about 300 kinds of material). The granularity of the end products can be adjusted from 30 to 325 meshes.
Raymond Mill improves the adjusting device, the operation becomes more convenient.

1. The equipment’s structure is tight, from crushing to grinding and packing all together forms an independent production system, it has advantages of covering small area, operating simple, saving work force.

2. The final product has high passing screen ratio, which can achieve 99%.

3. Driving system of main frame adopts airtight gearing and pulley, which secures reliable operation.

4. Main parts of the grinding plant are made from cast and high quality steel, which ensures the durability of whole plant.

5. With application of centralized controlling electric control system, no operator is in the operating room.

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GLOBAL MARKET LEADER IN CRUSHING AND GRINDING TECHNOLOGY
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Working Principle

RAYMOND MILL

Firstly, raw material is crushed by jaw crusher to the size required, then the crushed materials are elevated into a hopper from which the material is transported through the electro-magnetic vibrating feeder, evenly and continuously into the grinding chamber for powder-processing. The rollers oscillate outward to press the ring because of the centrifugal force and the shovel scoops up the materials, send to the middle between ring and roller to accomplish the grind.

After this, the ground stuff are carried by the air from the blower into the separator for screening. The fine powers are blow into the cyclone collector and are poured out through the output-powder valve as the final products and the rough stuff after the screening will be recycled back into the grinding chamber for regrinding. The set’s airflow system is closely sealed up and circulated under condition of negative and positive pressure.

RAYMOND MILL

Our company specializes in producing medium and large Raymond mill, with 22 years manufacturing experience in powder milling filed, we have been a leading grinding mill manufacturer and supplier in China.
# TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>NO. (pcs)</th>
<th>Grinding Roller Diameter (mm)</th>
<th>Height (mm)</th>
<th>Outside Diameter (mm)</th>
<th>Height (mm)</th>
<th>Grinding Ring Diameter (mm)</th>
<th>Height (mm)</th>
<th>Feeding Size (mm)</th>
<th>Output Size (mm)</th>
<th>Capacity (t/h)</th>
<th>Motor Power (kw)</th>
<th>Overall Dimension (mm)</th>
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</thead>
<tbody>
<tr>
<td>3R1410</td>
<td>3</td>
<td>140</td>
<td>100</td>
<td>495</td>
<td>100</td>
<td>&lt;8</td>
<td></td>
<td>0.613-0.044</td>
<td>0.15-1.2</td>
<td>14.1</td>
<td></td>
<td>3340×2200×3200</td>
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<td>210</td>
<td>150</td>
<td>726</td>
<td>150</td>
<td>&lt;15</td>
<td></td>
<td>0.613-0.044</td>
<td>0.28-1.8</td>
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<td>4480×3100×3970</td>
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<td>260</td>
<td>150</td>
<td>865</td>
<td>150</td>
<td>&lt;15</td>
<td></td>
<td>0.613-0.044</td>
<td>0.35-2.8</td>
<td>35.7</td>
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<td>5000×4100×4850</td>
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<td></td>
<td>0.613-0.044</td>
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<td>42.7</td>
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<td>0.6-4.5</td>
<td>55</td>
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<td>1.0-5.2</td>
<td>72.5</td>
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<td>7700×7200×8800</td>
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</tbody>
</table>

**Note:** This specification is just reference, any changes are subject to products.
Grinding is the required process when size reduction of below 5-20 mm is needed. Grinding is a powdering or pulverizing process. Joyal supplies the right grinding solution to the clients every method and application.

The purpose of the raymond mill is to grind materials in the fields of building materials, mining, metallurgy and chemical industry. The materials must be non-flammable and non-explosive materials such as: limestone, calcite, barite, dolomite, potassium feldspar, marble, talcum, gypsum, kaoline, medical stone, rock phosphate, manganese ore, iron ore, glass, ceram, active carbon, carbon black, fireproof materials, heat preservation materials, chemical materials and so on (300 kinds of materials).
Add: No.3389, East Huaxia Road, Pudong New Area, Shanghai, China.
Email: joyal@crusherinc.com
Tel: 0086-21-68763311 0086-21-68763366
http://www.joyalcrusher.com