

# Raymond Mill





## Overview

After many years of practice and improvement by manufacturer Shibang, the structure of raymond mill is getting perfect by low consumption, low investment, environment friendly, small occupation area, and more efficient than the traditional industrial grinding mill.

## Application

Raymond mill is mainly applied to the powder processing of mineral products in industries of metallurgy, construction, chemistry, and mining etc. Raymond mill can produce powder from more than 280 kinds of non-flammable and non-explosive mineral materials with Mohs hardness below 7 and humidity below 6%, such as barite, limestone, quartz, calcite, granite, porcelain clay, basalt, gypsum etc. The final size is between 613micron and 440 micron(0.613mm—0.044mm).

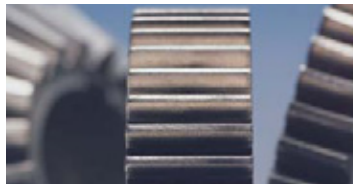


# Main Features & Benefits

For low consumption, low investment, environment friendly , small occupation area, and more efficient than the traditional mill, raymond mill is widely used in the field of metallurgy, building materials, chemical industry and mining to process powder.

1. The whole plant of raymond mill is a vertical structure of strong systematic characteristic, so it occupies small area. From crushing of raw material to grinding and packing is an independent production system.
2. Compared with other milling plants or traditional raymond mill, its passing ratio achieves 99%, this is what other grinding mill can not reach.
3. Our raymond mill's driving system of main frame adopts airtight gearing and pulley, drives smoothly and operates reliably.
4. The electric control system of raymond mill is centralized controlled, so the automatically is high, no people are needed in the operating room when the raymond mill is working.
5. Main parts of the whole plant are made from cast and steel of high quality. Such strict techniques insure the durability of whole plant.





## Operation & Maintenance

1. During the application of our raymond mill, some personnel shall be arranged to take responsibility of management from beginning to end. The operators must be qualified with the required technical knowledge of operating grinding mills. Before the installation of this grinding mill, the persons related to the operation should receive technical training and fully understand the operating principle, performance and regulations of the raymond mill.

2. In order to guarantee the raymond mill in a normal working state, a Safety Operation System for the Maintenance of the equipment must be established. Only in this way can the raymond mill be guaranteed to have a long-term and safe operation. Meanwhile, it is necessary to have the required repairing tools, lubricant and grease, spare parts and accessories during the operation.

3. After some period of running, the raymond mill should receive an examination and repairing. The components vulnerable to worn out, such as grinding roller, grinding ring, relieving tool etc. should be repaired or replaced. Before and after the operation, a careful examination should be carried out for the connecting screws, bolts and nuts on the grinding rollers so as to find whether they are loose or sufficiently lubricated.

4. When their application time surpassing about 500 hours, all the rolling bearings in the roller sleeves of raymond mill must be cleaned, and the damaged parts should be replaced. The oiling tool can be either a manual oiling pump or grease gun.



# Technical Data

Model	Roller			Ring		Feed size (mm)	Finished size (mm)	Finished size (mm)			Main frame Power (kw)	Overall Dimension (mm)
	Number (pcs)	Diameter (mm)	Height (mm)	Inner Diameter (mm)	Height (mm)			18~57	23~72	36~114		
								Capacity (t/h)				
<b>3R2714</b>	3	270	140	830	140	15~20	0.044~0.165	2.8~3.8	1.8~2.3	0.9~1.7	22	8700x5000x7819
<b>4R3216</b>	4	320	160	970	160	20~25	0.044~0.165	3.2~4.5	2.4~3.1	1.8~2.5	37	9900x5800x10580
<b>5R4119</b>	5	410	190	1270	190	20~25	0.044~0.125	4.0~6.3	3.0~4.1	2.0~3.1	75	10500x6500x13530

Note: This specification is just reference, any changes are subject to the raymond mill products.

# Working Principle

Raymond mill is collocated with jaw crusher, elevator, electromagnetic vibrating feeder, main unit, classifier, collector, cloth deduster and high-pressure blower and so on.

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.



# Service

Since the establishment, Shanghai Shibang Machinery Co., Ltd has regarded "All is for clients" as its service goal and has provided high-quality, high-taste, high-efficient and all-around-way service for its clients.



Service Promise: from the design process to delivery, we do every step carefully to satisfy clients to the best.

## 1. Pre-sale services

Act as a good adviser and assistant of clients; enable them to get rich and generous returns on their investments.

- ◆ Select equipment model
- ◆ Design and manufacture products according to clients' special requirement
- ◆ Train technical personnel for clients

## 2. Services during the sale

Respect clients; devote ourselves to improving the total value of clients.

- ◆ Pre-check and accept products ahead of delivery
- ◆ Help clients to draft solving plans

## 3. After-sale services

Provide considerate services to minimize clients' worries.

- ◆ Assist clients to prepare for the first construction scheme
- ◆ Install and debug the equipment
- ◆ Train the first-line operators on site
- ◆ Examine the equipment regularly
- ◆ Provide maintenance for big items
- ◆ Provide technical exchanging
- ◆ Provide perfect service
- ◆ Distribute the guarantee fittings door-to-door
- ◆ Take initiative to eliminate the troubles rapidly at site





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*Any change of technical data shall not be advised additionally.*