

Raymond Mill



Overview:

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



Applications

Raymond Mill is mainly applied to the powder processing of mineral products in industries of metallurgy, construction, chemistry, and mining etc. It 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—0.044m m).

Main Features and Benefits

1. The whole plant 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, its passing ratio achieves 99%, this is what other mill can not reach.
3. Driving system of main frame adopts airtight gearing and pulley, drives smoothly and operates reliably.
4. The electric control system is centralized controlled, so the automaticity is high, no people are needed in the operating room.
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.

Technical Data

Model	Roller			Ring		Max. Feeding Size(mm)	Fineness of Product (mm)	Power for Machine (kw)
	Number	Dimension (mm)	Height (mm)	Inner Diameter (mm)	Height (mm)			
3R2115	3	210	150	630	150	15	0.44-0.165	15
3R2615	3	260	150	780	150	15-20	0.44-0.165	18.5
3R2715	3	270	140	830	140	15-20	0.44-0.165	22
3R3016	3	300	160	880	160	15-20	0.44-0.165	30
4R3216	4	320	160	970	160	20-25	0.44-0.165	37

Note: This specification is just reference, any changes are subject to the Raymond Mill products

How Raymond Mill works



Firstly, raw material is crushed by jaw crusher to the size required, and 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 is 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 airflow system is closely sealed up and circulated under condition of negative and positive pressure.

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