

## **Raymond mill, Raymond mill in china, Raymond mill's working principle**

**Raymond mill** :Shibang **Raymond mill** is applicable to the grinding and processing of more than 280 kinds of non-flammable and non-explosive materials with hardness less than 7 and humidity less than 6% in mining, construction, chemical industry and metallurgy, such as barite, calcite, feldspar, talcum, marble, limestone, clay, glass. The fineness of the finished product can be adjusted from 100 mesh to 325 mesh according to requirements.



### **Structural characteristics of Raymond mill**

The whole Raymond grinding mill is of a standard structure. It features small occupying space and strong integration capacity. It can form an independent production system from the lump materials, crushing to finished powder and packaging. All the finished particles have a good uniformity of fineness, with passing screen rate as high as 98%. This is what other machine cannot reach. The Raymond mill adopts electromagnetic vibrating feeder, which ensures even and regular feeding. It is easy to adjust, small in dimension, light in weight, with lower oil and power consumption and easy to maintain. The transmission device of the main unit is equipped with a close gearbox which ensures its smooth transmission and reliable operation. Attendance of operator is not necessary in the mill operating room because the adoption of advanced central control console switch.

### **Working principle of Raymond mill**

The whole Raymond mill machine is collocated with jaw crusher, elevator, hopper, electromagnetic vibrating feeder, main unit, classifier, collector, cloth deduster and high-pressure blower. The working principle is as follows: load the stuff for grinding evenly and continuously into the grinding chamber of the main frame. Due to the centrifugal force in rotation, the roller swings go outward and presses closely upon the ring. The shovel carries the stuff to the space between the roller and ring. When the roller rolls, the stuff is thus grinded.

After being grinded, the stuff is to be routed to the classifier along wind belt of the blower and the rough powder will be put back to the grinder for regrinding. The fine powder flows into the cyclone collector together with air flow and is expelled from the powder output pipe as product.

In the grinding chamber, since the stuff contains moisture to some extent, the heat generated during grinding makes the moisture evaporate; since the pipeline joints are not airtight, the external air is sucked in and the circulation air mass increases. In order to enable the grinder to work in negative pressure, the increased air flow is guided to the deduster and sequentially to the atmosphere after purification.

### **Specification of Raymond mill**

type	Roller			Ring		Max. Feeding size (mm)	Fineness of product (mm)	power for Machine (kw)
	NO	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 for reference, any changes are subject to the products.

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