

Raymond grinding mill

Raymond grinding mill brief introduction:

SBM Raymond mill is designed for customers who want to abandon ball mill. After years of improvement, SBM Raymond mill's structure is getting perfect day after day. Compared with ball mill, Raymond mill is welcomed for low investment, environment friendly, small occupation area, and more efficient.

Raymond mill is suitable for:

SBM Raymond mill is used in grinding more than 280 kinds of non-flammable and non-explosive materials whose hardness is less than 7 and humidity is less than 6%, such as barite, calcite, feldspar, talcum, marble, limestone, clay, glass, Kaolin Clay, steatite, kalium etc.

SBM Raymond mill is widely used in the field of mining and construction, metallurgy, building materials, chemical industry to grinding powder.

The fineness of the finished product can be adjusted from 100 to 325 mesh according to requirements. Through the function of separator and blower, Raymond mill can meet different customers demand.

Raymond mill features and Raymond mill benefits:

- 1) The whole Raymond mill is a vertical structure and the Raymond mill features with small occupying area and strong integration capability. Raymond mill can form an independent production system from the lump materials, crushing to finished powder and packaging.
- 2) Compared with other milling plants, SBM Raymond mill's passing ratio can achieve 99%, this is what other mill cannot reach.
- 3) Driving system of the Raymond mill's main frame adopts airtight gearing and pulley, leading to drive smoothly and operate reliably.
- 4) Main parts of the whole Raymond mill are made from cast and steel of high quality. The techniques is so subtly that ensure the durability of whole plant,
- 5) The electric control system is centralized controlled, so the automaticity is high, no people are needed in the operating room.
- 6) The machine 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)

Raymond mill technical characteristics:

In the chamber of Raymond mill, since the stuff of Raymond mill may contain moisture to some extent (less than 6%), the heat generated during makes the moisture evaporated. Raymond mill further functions may involve drilling, boring or slot producing. Raymond mill can be broadly described as the process of reducing the material to finer size though Raymond mill is different from crushing and granulation.

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. So if roller and ring are damaged, it will not affect the fineness of final products. Life of tear and wear parts will be long. the sets airflow system is closely sealed up and circulated under condition of negative and positive pressure.

Raymond mill working principle:

Firstly, raw material is crushed 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 powders 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 Maintenance and Repair:

- 1) Prior to installation of the equipment, all the people who will be assigned to operate the equipment have to be technically trained to know the principle and rules of operation. Someone should be specially selected and put in charge of the operation.
- 2) To ensure normal operation of the equipment, a manual containing strict rules and procedures for its operation, maintenance and repair should be well prepared and followed. Tools, replacement parts for maintaining, repairing and lubricating oil and grease must be available for immediate use.
- 3) After a period of usage, the equipment should be checked, to replace worn-and-torn parts such as rollers, rings and shovels. Be sure to fasten connecting-bolts, nut collars to fix rollers properly. Be sure to lubricate the parts sufficiently.
- 4) Roller should be replaced after 500-hours use.
- 5) To check and wash bearings in them and replace broken ones, and then fill enough oil and grease (with oil-pump or grease-gun).