

Raymond Mill

After many years of practice and improvement, its structure is getting perfect day by day.

For low consumption, low investment, environment friendly , small occupation area, and more efficient than the traditional mill, it is widely used in the field of metallurgy, building materials, chemical industry and mining to process powder. The series is used in grinding the non-flammable and non-explosive stuff which has the Moh's hardness below 7, humidity less than 6%, such as gypsum, talc, calcite, limestone, marble, feldspar, barite, dolomite, granite, kaolin, bentonite, bauxite, iron ore etc., the final products change from 613 micron to 44 micron. Through the function of separator and blower, it can meet different customers' demand.



Structure of Raymond Mill:

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. Main parts of the whole plant are made from cast and steel of high quality. The technics is so subtly that insures 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.

Working Principle:

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.

Technical Data:

Model		3R2115	3R2615	3R2715	3R3016	4R3216	
Roller	Number	3	3	3	3	4	
	Diameter (mm)	210	260	270	300	320	
	Height (mm)	150	150	150	160	160	
Ring	Inside diameter (mm)	630	780	830	880	970	
	Height (mm)	150	150	150	160	160	
Maximum feed size (mm)		15	15-20	15-20	15-20	20-25	
Output size (mm)		0.044-0.165	0.044-0.165	0.044-0.165	0.044-0.165	0.044-0.165	
Power of main frame (kW)		15	18.5	22	30	37	
Fineness of final product (mm)	0.165	capacity (t/h)	1.2-1.8	1.8-2.5	2.3-2.8	2.6-3.2	3.2-4.5
	0.075		0.6-1.2	1.2-1.8	1.8-2.3	1.9-2.6	2.4-3.1
	0.044		0.6-1.0	0.8-1.2	0.9-1.7	1-1.9	1.8-2.5

Note: We hold the rights to modify the design and specification of our products, any modification shall not be advised additionally.

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