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RAYMOND MILL 雷蒙磨粉机



用途及适用范围

本机适用于矿业、建材、化工、冶金等行业，可对石灰石、方解石、重晶石、白云石、钾长石、大理石、滑石、石膏、高岭土、膨润土、磷矿石、锰矿石、铁矿石、玻璃、陶瓷、活性炭、炭黑、耐火材料、保温材料、化工原料等莫氏硬度不大于7级，湿度在6%以下的300余种非易燃易爆物料进行磨粉加工，成品粒度30-325目之间可以调节。

工作原理

需加工物料进入主机研磨室后，由于主轴旋转时离心力的作用，磨辊向外摆动，紧压于磨环，铲刀将物料铲起送至磨辊与磨环之间，随磨辊的滚动而达到研磨、粉碎目的。物料研磨后，粉末随鼓风机循环风经过分析机进行分选，细度过粗的物料落回研磨室重磨，合格细粉则随气流进入旋风集粉器，经出粉管排出即为成品。气流通过旋风集粉器后又进入鼓风机形成闭路循环，从而使机器连续正常工作。余风则通过余风管进入除尘器经净化后排出机外。



主要技术参数 / Main Specifications

项目 Item 型号 Model	磨 辊 Grinding Roller			磨 环 Grinding Ring		进 料 粒度 Feeding Size (mm)	成 品 粒 度 Output size (mm)	产 量 Capacity (t/h)	电 机 功 率 Motor Power (kw)	外 形 尺 寸 Overall Dimension (mm)
	数 量 Numbers (pcs)	直 径 Diameter (mm)	高 度 Height (mm)	外 径 Outside Diameter (mm)	高 度 Height (mm)					
3R1410	3	140	100	495	100	<8	0.613-0.044	0.15-1.2	14.1	3340×2200×3200
3R2115	3	210	150	726	150	<15	0.613-0.044	0.28-1.8	28.2	4480×3100×3970
3R2615	3	260	150	865	150	<15	0.613-0.044	0.35-2.8	35.7	5000×4100×4850
3R2715	3	270	150	884	150	<15	0.613-0.044	0.40-3.4	42.7	5050×4150×4900
3R3015	3	300	150	965	150	<15	0.613-0.044	0.45-3.7	55	5200×4200×4950
4R3016	4	300	160	990	160	<20	0.613-0.044	0.6-4.5	55	5250×5000×5500
4R3216	4	320	160	1073	160	<25	0.613-0.044	1.0-5.2	72.5	7700×7200×8800
5R4119	5	410	190	1400	190	<30	0.613-0.044	2.0-9.0	157.5	7900×8800×9650

注：技术数据如有变动，恕不另行通知。

Note: Any change of technical data will not inform additionally.

Usage and Application

The Raymond mill is used to grind materials in the fields of building materials, mining, metallurgy and chemical industry. The materials must be non-flammable and non-explosive materials such as: limestone, calcite, barite, dolomite, potassium feldspar, marble, talcum, gypsum, kaoline, medical stone, rock phosphate, manganese ore, iron ore, glass, ceram, active carbon, carbon black, fireproof materials, heat preservation materials, chemical materials and so on(300 kinds of materials). The materials should have the hardness less than 7 in Moh's scale and humidity less than 6 percent. The granularity of the end products can be adjusted from 30 to 325 meshes.

Working Principle

After the materials enter the grinding chamber of the main frame, the grinding roller swings outward and presses closely upon the grinding ring due to the centrifugal force generated by the rotation of the main shaft. The blade carries materials to the space between the grinding roller and grinding ring, and materials are ground as the grinding roller rolls.

After being ground, the powder is selected by classifier via the cycle wind of the blower and the rough powder will be back to the grinding chamber for regrinding. The qualified powder is brought into the powder collector together with airflow. The powder comes out as end products while the airflow goes back to the powder collector in cycling to make the machine work normally. The remained airflow comes out after purification by dust filter.



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