



Zhengzhou Great Wall Heavy Industry Machinery Co., Ltd.  
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# RAYMOND MILL

## 雷蒙磨粉机



### 用途及适用范围

雷蒙磨粉机适用于矿业、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。

### 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.

### 工作原理

需加工物料进入雷蒙磨主机研磨室后，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净化后排出机外。

### 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.

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 shall not be advised additionally.

性能特点

- 1.整机为立体结构，占地面积小，剪剪性强，从原材料的粗加工到输送到制粉及最后的包装，可自成一个独立的生产体系。
- 2.成品粉子细度均匀，通筛率99%，这是其它磨粉设备难以具备的。
- 3.机传动装置采用密闭齿轮箱和带轮，传动平稳，运行可靠。
- 4.雷蒙磨粉机的重要部件均采用优质钢材，耐磨件均采用高性能耐磨材料，整机耐磨性能高，运行可靠。主机铲刀架在运转时始终处于与物料接触，所以铲刀架由上下二部份组成，下座磨损后拆卸连接螺性可调换。
- 5.电气系统采用集中控制，磨粉车间基本可实现无人作业，并且维修方便。
- 6.粉尘污染小、噪音低。
- 7.采用电磁振动给料机给料均匀，易于调节，体积小，重量轻，省油省电，维护方便。

Feature

- 1.The whole mill is of spatial structure , less premise and systemic strong. The whole system from roughing, transportation, powder collecting to packaging forms a independent production system.
2. Even granularity, sieving rate 99%, which is unapproachable for other mills.
3. The driving device applies inclosed gear box and belt pulley, so the transmission is calm and the operation is reliable.
4. All the main parts of Raymond Mill adopt high quality steel, the resistant parts use high-performance proof materials, so the whole system has high wear resistance and reliable performance. The blade frame of the main machine keeps in touch with the materials , it is consisted of the upper part and lower part, when the lower part is worn down , just take down the bolts to exchange it .
5. Centralized controlling of the electrical system, unmanned operation , easy maintenance.
6. Less dust pollution, low noise.
7. Adopting electro-vibrating feeder , it can feed evenly and is easy to adjust, features miniature size, light in weight, power saving and easy maintenance.



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