

雷蒙磨粉机

产品简介

雷蒙磨采用磨盘公转、磨轴自转、弹簧调杖结构，加强了挤压、剪切能力，从而达到强化磨粉的能力，具有产量高、粉子细，干法连续制粉，粒度分布集中、细度连续可调、结构紧凑、耗能低、效率高、电耗少、占地面积小，一次性投资小、安装、维护简单、运行可靠等优点，适用于矿产物料的干式超细粉体加工，是粉磨行业的理想设备，特别适用于小型企业。

雷蒙磨广泛应用于冶金、建材、化工、矿山等领域内矿产品物料的粉磨加工，适宜加工莫氏硬度 9、3 级以下、湿度在 6% 以下的各种非易燃易爆矿产，如石膏、滑石、方解石、石灰石、大理石、钾长石、重晶石、白云石、花岗岩、高岭土、膨润土、麦饭石、铝矾土、氧化铁红、铁矿等，成品细度在 613 微米~440 微米（0、613 毫米-0、44 毫米）之间，通过分析机及风机的共同作用，可满足不同用户的使用要求。

Raymond Mill

Brief introduction

Raymond mill adopts mill disc revolution, mill draft rotation, spring adjustment rod structure, which is able to strengthen press, cutting ability, so as to enhance ability of the mill. It has advantages of high production, fine powder, continuous drying powder, grains are concentratedly scattered, fineness is continuous and adjustable, compact structure, low energy consumption, high efficiency, less power consumption, small working area, less investment each time, easy installation and maintenance, reliable operation and so on. It is suitable for dry and super fine powder processing of ore materials and is an optimum equipment of mill industry, especially for small sized enterprises.

Raymond mill is widely used in metallurgy, construction materials, chemicals, ores to produce powder, which is suitable for non-flammable and non-exlosive ores with mohs hardness below 9.3, humidity below 6%, such as Gypsum, talc, calcite, limestone, marble and feldspar, barite, dolomite, granite, kaolin, bentonite, stone, bauxite, iron oxide red, iron ore and so on. Fineness of product ranges from 0.613mm to 0.44mm. With joint effects of analyser and fan, different requirements of customers can be fulfilled.

性能特点

- 1、雷蒙磨采用立体结构，占地面积小，成套性强，从块料到成品粉子独立自成一个生产体系。
- 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栓可调换。
- 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。

Features

1. Raymond mill adopts a vertical structure, which is small in working area, and easy to be allocated as a set, each process from bulk material to powder product can be a

- independent production system.
2. Finished powder has even fineness, a screen passing ratio of 99%, which is not possible for other mill equipment.
 3. Drive unit is the closely sealed gear box and belt wheel, which is stable in transmission and reliable in operation.
 4. Key parts of the raymond mill are all high-quality steel, wearable parts are of high-performance abrasion resistant material. The whole equipment has perfect performance, reliable operation. Blade frame of the main engine is always contacting with materials. Thus the blade frame is composed of two parts, while bottom frame is worn, discharge is continuous and changeable.
 5. Electrical system adopts centralized control, grinding workshop can basically run without people, and is convenient to maintain.
 6. Less dust and lower noise.
 7. The vibration feeder can feed materials evenly, and is easy to adjust, small in size, light weight, oil and electricity saving and convenient to maintain.

工作原理

该机主要由主机、分析机、鼓风机、成品旋风分离器、管道装置、电机等组成。其中主机由机架、进风蜗壳、铲刀、磨辊、磨环、罩壳及电机组成。辅助设备有颚式破碎机、畚斗提升机、电磁振动给料机、电控柜等，用户可以根据现场情况灵活选择。

颚式破碎机将大块状原材料破碎到所需的进料粒度后，由畚斗提升机将物料输送到储料仓，然后由电磁振动给料机均匀地送到主机的磨腔内，铲刀与磨辊同转过程中把物料铲起抛入磨辊磨环之间，形成垫料层，物料在磨辊与磨环之间研磨，由此达到制粉目的。粉磨后的粉子由风机气流带到分析机选粉，达到细度要求的细粉随气流经管道进入大旋风收集器内，进行分离收集，再经卸料器排出即为成品粉子，气流由大旋风收集器上端回风管吸入鼓风机。不合要求的粉子被叶片抛向外壁与气流脱离，粗粉子因自重力的作用落入磨室进行重磨。本机整个气流系统是密闭循环的，并且是在正负压状态下循环流动的。

Working principle

This equipment is mainly composed of main engine, analyser, fan, cyclone separator of end products, channel device, motor and so on. Its main engine is composed of frame, wind inlet scroll, blade, roller, grinding ring, shell and motor. Assistant equipments are jaw crusher, bucket conveyer, vibration feeder, electricity control box and so on, customers can choose flexibly according to the working site.

After bulk materials are crushed to required size by jaw crusher, they will be transferred to the hopper by bucket conveyer. Then they will be fed evenly by vibration feeders to grinding cavity of the main body. During simultaneous rotation of blade and rollers, materials will be thrown by blade between the roller grinding ring to form a litter layer. Materials will be grinded between the roller and the grinding ring so as to produce powder. Powder after being grinded will be driven to the analyser by fan airflow for separating, qualified powder will enter into the big cyclone collector with air channel for separate and collection, and then be discharged from the unloading device and that is the power we want. Airflow is absorbed to the fan from the airback tube on top of the cyclone collector. Unqualified powder will separate with airflow while thrown by impellers to the exterior wall, rough powder will fall into the grinding room for regrinding



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because of its own weight. The whole system of the machine is closed and recycling, and is continuous under passive and negative pressure.



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