

## 高压悬辊磨粉机 High Pressure Suspension Mill

### Brief introduction

YGM series high pressure suspension mill is an own R&D patented product developed by our general engineer Mr. Bai Yinghui on basis of many years' mill research and developing experience, integrate with many years' using reality of customers', and according to development of the mill industry, which has created a new era of high efficiency and low energy consumption in international mill industry.

YGM series high pressure suspension mill is mainly suitable for process various non-flammable, non-explosive ore materials with mohs hardness below 9.3 and humidity below 6%, such as metallurgy, construction materials, chemicals, ores, highway construction, hydroelectrical subjects and so on. Meanwhile, it's an optimum equipment for processing Quartz, feldspar, calcite, limestone, talc, ceramics, marble, granite, dolomite, bauxite, iron ore and barite, bentonite, gangue, coal and so on. Fineness of final products should range from 0.613mm to 0.033mm.

### 产品简介

YGM 系列高压悬辊磨粉机是我公司总工程师白英辉先生在多年从事磨机研发经验的基础之上, 结合多年来用户使用磨粉设备的实际情况, 针对磨粉行业发展的需要, 自行研发的新型专利产品, 从而开创了国际工业磨粉高效、低能耗的新纪元。

YGM 系列高压悬辊磨粉机主要适用于加工莫氏硬度 9、3 级以下, 湿度在 6%以下的各种非易燃易爆矿产物料的加工, 在冶金、建材、化工、矿山、高速公路建设、水利水电等行业有着广泛的应用, 是加工石英、长石、方解石、石灰石、滑石、陶瓷、大理石、花岗岩、白云石、铝矾土、铁矿石、重晶石、膨润土、煤矸石、煤等物料的理想选择, 物料的成品细度可在 0、613 毫米到 0、033 毫米之间调整。

### 性能特点

- 1、独特的设计。主机磨腔内, 在梅花架上部设计了 1500kg—2000kg 的加压装置, 同等动力下, 产量提高 10-30%, 研磨装置对物料的碾压力提高了 800-1500kgf, 成品细度最细可达 1000 目。
- 2、物料适用性强, 可针对莫氏硬度 9、3 级以下的各种物料。
- 3、除尘效果完全达到国家的标准。
- 4、磨辊装置采用优质高效的加工工艺, 重叠式多级密封保证了良好的密封效果。
- 5、磨辊、磨环更换周期长, 剔除了离心粉碎机易损件更换周期短的弊病。
- 6、研磨装置采用重叠式多级密封, 密封性能好。

### Features

1. Unique design. Inside the cavity of the main engine, a compression device of 1500kg—2000kg has been installed on the plum frame. Under same power, production can be 10%-30% higher, grinding power generated by grinding device increased by 800-1500kgf, the most fine powder product can be 1000 mohs.
2. Various materials are adaptable, all materials with mohs hardness below 9.3 are qualified.
3. Dust removing effect can fully match the national standard.
4. Roller device is of high-quality and high-efficient processings, multiple and multigrade

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seal can guarantee perfect seal effect.

5. Changing cycle of rollers and grinding ring is long, which is able to avoid the disadvantage of short changing cycle of wearable parts of the centrifugal crusher.
6. Mill device is of multilayer and multigrade seals, which has good performance.

### 工作原理

高压悬辊磨粉机整套设备由主机、减速机、分析机、管道装置、鼓风机、除尘器、颚式破碎机、斗式提升机、电磁振动给料机、电控系统等组成。

在高压悬辊磨粉机的主机中，磨辊总成通过横担轴悬挂在磨辊吊架上，磨辊吊架与主轴及铲刀架固定连接，压力弹簧压在磨辊轴承室的悬臂外端面上，以横担轴为支点迫使磨辊紧紧压在磨环内圆表面上，当主机电机通过传动装置带动主轴转动时，装在铲刀架上的铲刀与磨辊同步旋转，磨辊在磨环内圆滚动的同时绕自身轴自转。电动机通过传动装置带动分析机旋转，叶轮转速越高，分选出的粉子越细。为保证磨机在负压状态下工作，增加的气流量通过风机与主机间的余气管排入布袋除尘器，被净化后排入大气。

高压悬辊磨粉机的风选气流是在风机——磨壳——旋风分离器——风机内循环流动作业的，所以比高速离心粉碎机粉尘少，操作车间清洁、环境无污染。

### Working principle

Whole set of the High pressure suspension mill is composed of main engine, reducer, analyser, channel device, fan, dust removing device, jaw crusher, bucket conveyer, vibration feeder, electrical controlling system and so on.

Inside the main engine of the high pressure suspension mill, roller integration is hang on the roller hanger through Cross arm axle suspension, roller hanger, main draft and blade frame are fixed, pressure spring is on the surface of suspension arm of the roller draft room. The cross arm axle is made the supporting point forcing roller pressing on surface of the inner mill circle. While the main engine drive main draft to rotate through transmission device, blade installed on blade frame will rotate simultaneously with roller, roller will rotate surrounding itself while rotating inside the grinding ring. Motor can drive analyser to rotate through transmission, higher the impellers rotating, more fine powder will be separated. To guarantee the mill working under high pressure, increased airflow will be discharged to the bag dust removing device through fan and main engine, and discharged to the air after cleaning.

Airflow of the high pressure suspension mill follows the recycling action of fan—grinding shell—cyclone separator—fan. Thus, comparing with the high speed centrifugal crusher, it generate less dust, cleaner workshop and less environmental pollution.



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