



长城重工
GREAT WALL HEAVY INDUSTRY

HIGH-PRESSURE SUSPENSION MILL 高压悬辊磨粉机



高压悬辊磨粉机

HIGH-PRESSURE SUSPENSION MILL

产品简介

高压悬辊磨粉机适用于矿业、建材、冶金、化工等行业，可对石灰石、白云石、方解石、大理石、重晶石、滑石、石膏、麦饭石、沸石、膨润土、高岭土、叶腊石、页岩、紫砂石、长石、石英石、石榴子石、碳化硅、铝矾土、磷矿石、锰矿石、煤、焦炭、炭黑、活性炭、矿渣、玻璃、陶瓷、耐火材料等莫氏硬度9.3级以下，湿度在6%以下的多种非易燃易爆物料进行磨粉加工，成品粒度在0.613-0.033mm之间可以调节。



Product Introduction

The High-pressure suspension mill is widely used in the field of mining, building construction, metallurgy, chemical industry and so on. It can grind many non-flammable and non-explosive materials with Moh's scale less than 9.3 and humidity lower than 6%, such as: limestone, dolomite, calcite, marble, barite, talc, gypsum, medical stone, zeolite, bentonite, kaolin, pyrophyllite, shale, violet arenaceous stone, feldspar, quartz, garnet, silicon carbide, bauxite, phosphate ore, manganese ore, coal, coke, carbon black, activated carbon, slag, glass, ceramics, refractory materials and so on. The granularity of end products is adjustable between 0.613-0.033mm.

性能特点

- 1、研磨系统装有弹簧加压装置，使磨辊的碾压力提高800-1200kg，同等动力条件下比普通磨机效率提高20-30%；
- 2、磨辊轴承室采用重叠式多级密封，大大提升了轴承使用寿命；
- 3、分析机转速调节采用无级变速，成品粒度调整方便快捷；
- 4、整机结构紧凑，占地面积小，操作使用方便。



Performance Features



- 1,Its grinding device is fixed with pressure springs, which can increase 800-1200kg grinding pressure and working efficiency is 20%-30% higher than ordinary machine;
- 2,The grinding bearing room uses overlapping multistage seal, greatly improve the service life of the bearing;
- 3,The classifier uses stepless speed changes device, making the end products granularity adjustment conveniently;
- 4,Compact machine structure, small floor area, easy operation.

工作原理

磨机运转时，磨辊与铲刀随主轴同步旋转，在离心力及摩擦力作用下磨辊紧贴磨环滚动，物料进入主机研磨室后，由铲刀铲起送入磨辊与磨环之间，随着磨辊的滚动被碾压、研磨，研磨后的粉末被风机循环风带入分析机进行分级，粒度过粗的物料落回研磨室重磨，合格细粉随气流进入旋风集粉器，经出料口排出即为成品。气流通过旋风集粉器后又进入风机形成闭路循环，设备工作时产生的余风通过余风管进入除尘器净化后排出机外。



Working Principle

When the grinding motor starts, the grinding roller and blade rotate together. After the materials enter into the main chamber, the blade will carry them to the space between the roller and ring. Under the action of the centrifugal force and friction, the grinding roller runs close to the ring, then the materials will be ground. The end powder follows the cycle wind produced by the blower to the classifier to be graded. The rough powder will go back to the chamber for regrinding and the qualified powder will enter the powder collector by the airflow and become end products through the outlet. Airflow goes back to the powder collector in cycling to make a close circulation, and the remained airflow comes out after purified by dust filter.



主要技术参数 | Main Technical 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)					
YGM65	3	210	150	726	150	<15	0.613-0.033	0.3-2.0	28.2	4480×3100×3970
YGM75	3	260	150	865	150	<15	0.613-0.033	0.4-3.1	35.7	5000×4100×4850
YGM85	3	270	140	907	140	<20	0.613-0.033	0.5-4.0	42.7	5150×5000×5200
YGM95	4	310	170	1050	170	<25	0.613-0.033	1.1-5.6	72.5	7550×7400×8100
YGM130	5	410	210	1400	210	<30	0.613-0.033	2.2-9.5	157.5	7900×6980×9645
YGM160	6	440	270	1740	270	<35	0.613-0.033	8-22	275	12550×5645×8355

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.

磨粉生产线

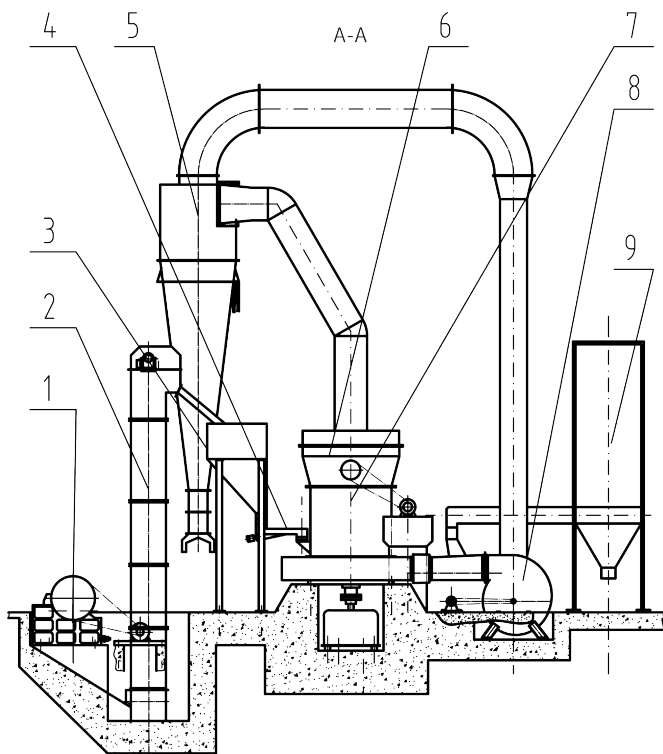
磨粉生产线主要由颚式破碎机、斗式提升机、料仓、振动给料机、磨粉机主机、风机、集粉器、布袋除尘器等部分组成。机器工作时，大块物料由颚式破碎机破碎至适合进入磨粉机的粒度，通过斗式提升机送至料仓，料仓底部的振动给料机均匀地将物料送进磨粉机主机内进行研磨，物料经过研磨后，粉末随气流经分析机进行分选，符合粒度要求的细粉进入集粉器，通过集粉器下部的卸料阀排出即为成品；不符合粒度要求的粗粉被返回研磨室重新研磨。

Grinding Production Line

Grinding production line is mainly composed of jaw crusher, bucket elevator, hopper, vibration feeder, mill main machine, fan, powder collector, bag type dust catcher and other parts. When machine works, large materials would be crushed by jaw crusher to fit the required feeding size of mill, crushed materials would be sent to hopper through the bucket elevator. The vibrating feeder which is hang on bottom of hopper would send material to main mill part evenly. After being ground, the powder is selected by classifier via the airflow. The qualified powder is brought into the powder collector. The powder comes out as end products through discharge valve on bottom; coarse powder that doesnot meet the requirement would be returned to the grinding chamber for regrinding.

磨粉生产线设备配置图

Equipment Configuration Drawing of Grinding Production Line



1、颚式破碎机

2、斗式提升机

3、料仓

4、振动给料机

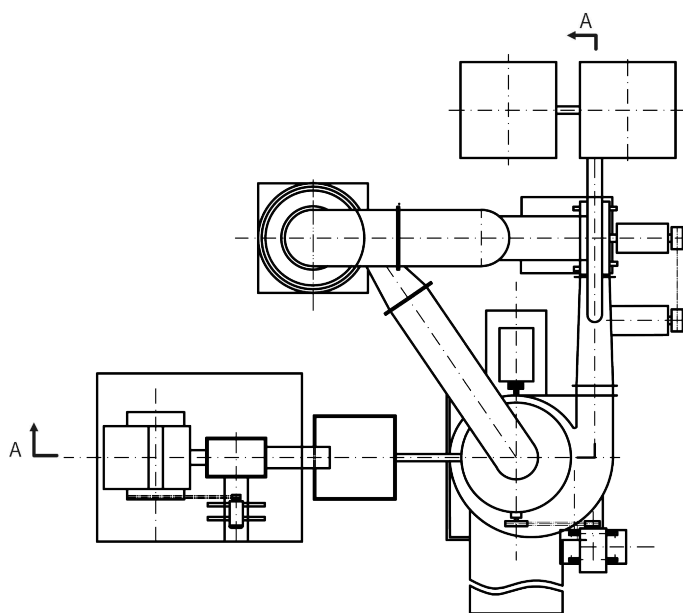
5、集粉器

6、分析机

7、主机

8、风机

9、除尘器



1. Jaw Crusher

2. Bucket Elevator

3. Hopper

4. Vibrating Feeder

5. Powder Collector

6. Classifier

7. Main Mill

8. Air Blower

9. Dust Catcher

磨粉生产线现场 Working Site of Grinding Production Line





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