

# 高压悬辊磨粉机

## High Pressure Suspension Mill



高产量源于独特设计  
高压悬辊磨粉机粉尘少，操作车间清洁、无污染

High capacity & unique design  
Environmental protection. The efficiency of dust precipitation  
reaches to the state standard

产品简介  
Brief Introduction

高压悬辊磨粉机是上海山启结合国内外先进技术以及多年来用户使用情况而生产的符合实际需要的磨粉设备。它利用弹簧增加压力，其机座上装有罩筒、进风蜗壳、磨环与轴承座，电动机通过主轴带动安装在磨辊吊架上的磨辊与铲刀同步旋转。在每个磨辊部件上均装有弹簧，弹簧上装有弹簧压板，弹簧压板通过螺杆与磨辊吊架联接。该高压悬辊磨适用于粉磨非易燃易爆的颗粒状的脆性物料。

High pressure suspension mill is a new product by our company engineers on the basis of many years' research and development experience, the practical situation of the customers, and the needs of mill industry. The pressure is increased by the spring, the shrouded tube, inlet air volute, grinding ring and bearing pedestal are installed on the engine base. The motor drives the grinding roller to spine with the plow. The spring is installed on the roller device. And the spring is equipped with the spring hold-down plate, it is connected with the rolling hanger through the screw. High pressure suspension mill is suitable for grinding the non flammable and explosive granular brittle materials.

产品结构图  
Product Structure

高压悬辊磨主要由主机、细度分析机、鼓风机、成品旋风积粉器、布袋除尘器及联结风管组成。根据用户需要也可配备破碎机、提升机、储料仓、电磁振动给料机及电器控制柜等辅助设备。



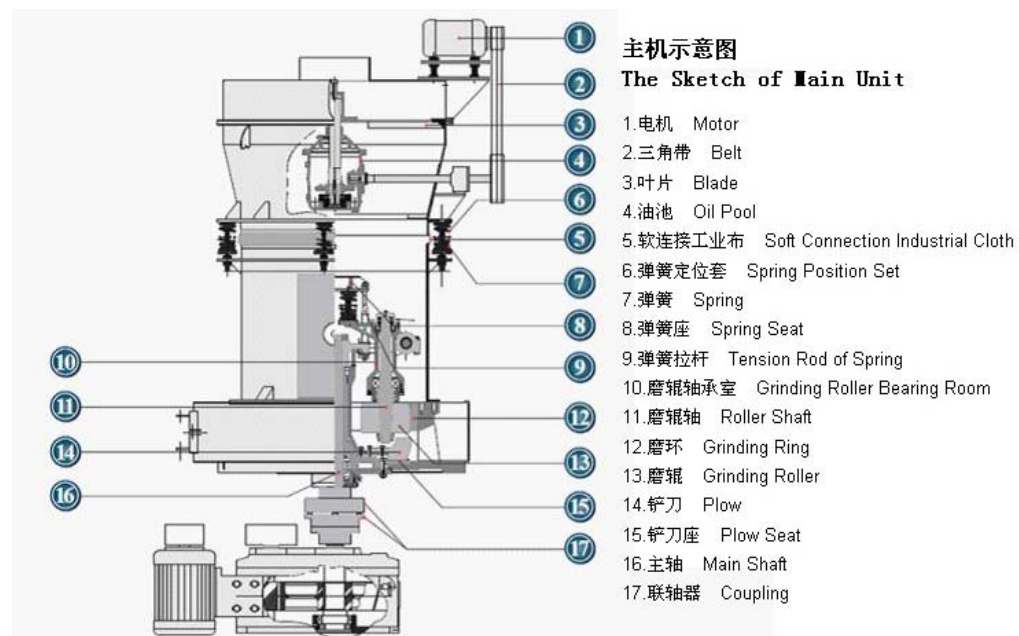
### 产品结构图

### Product Structure

在主机中,磨辊组件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联系,压力弹簧在磨辊轴承室的悬臂外端面,以横担轴为支点迫使磨辊紧紧压在磨环内圆表面上,当电动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自转.电动机通过传动装置带动分析机叶轮旋转,叶轮转速越高,分选出的粉子越细.

The whole system of high pressure suspension mill consists of main main engine, air classifier, air blower, dust remover. We can increase the supporting facility such as jaw composition, elevator, elector magnetism vibration feeding engine, electrically controlled system.

In the main engines of the high pressure suspension mill, the roller is hanging on the roll through the cross-arm axis. Roll hanging bract and main axle and relieving too post permanent connection, the pressure spring presses on the end surface in outside the roll bearing room bracket. When the electrical machine impetus main axle rotating through the transmission device, the shovel installing on the relieving tool and roll revolves at the same time. Electric transmission device impetus air classifier revolving through transmission device, the higher speed of the impeller rotational, the thinner of the separating powder.



## 工作原理

### Working Principle

高压悬辊磨主机内，磨辊吊架上紧固有1000-1500kg压力的高压弹簧。开始工作后，磨辊围绕主轴旋转，并在高压弹簧与离心力的作用下，紧贴磨环滚动，其滚动压力比同等动力条件下的雷蒙粉机高 1.2 倍，故产量大为提高。当被磨物料进入磨腔后，由铲刀铲起送入磨辊与磨环之间进行碾压，碾压后的粉末随鼓风机的循环风带入分析机，合格细粉随气流入旋风集粉器即为成品，大颗粒物粒落回重磨。循环风返回鼓风机再重复以上过程，余风则进入袋式除尘器净化。

当磨辊与磨环达到一定磨损后，调整高压弹簧长度，保持磨辊与磨环之间恒定碾压力。从而保证稳定的产量与细度。

The High-pressure Suspension Mill has the same working principle as Raymond Mill, but its grinding fitting is furnished with 1000 - 1500 kg pressure spring. When the machine works, the grinding roller, under the action of high pressure spring and centrifugal force, rollers close up to grinding ring, its rolling pressure ratio is 1.2 times of Raymond mill given an identical condition, and its output may increase 10% to 20%; After the material entering the grinding chamber, they are grinded between grinding rollers and grinding ring. Then the powder enters into split-phase motor by the fan blower. The eligible power becomes the final products by the cyclone powder collection devices and the unqualified powder is grinded again. Circulated air repeats the same process in the fan blower. The left air goes into the dust collector for cleaning.



Please note that when the grinding roller and grinding ring reach a certain degree of abrasion, please adjust the length of high-pressure spring to keep the constant grinding pressure between grinding roller and grinding ring, so as to ensure a stable output and fineness.

### 性能特点

### Features

- 1、加工适用范围广。莫氏硬度小于9.3级的矿产物料均可加工粉碎。
- 2、高产量源于独特设计。研磨装置安装有1000-1500kg压力的高压弹簧，使得磨辊对物料的碾压力在高压弹簧作用下提高800-1200kg；与其它磨机相比同等动力条件下产量提高10-20%。
- 3、成品粒度范围广。粒径最粗可达0.613毫米(30目)，粒径一般可达0.025毫米(600目)，少部分物料最细可达到0.013毫米(1000目)。
- 4、高压悬辊磨粉机粉尘少，操作车间清洁、无污染。除尘效果达到国家粉尘排放标准。因其风选气流是在风机 - - 磨壳 - - 旋风分离器 - - 风机内循环流动作业的，所以粉尘少、无污染。
- 5、分析机调整方便。
- 6、密封效果良好。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。

- 1.Wide application. It can process the materials under Mohs hardness 9.3;
- 2.High capacity & unique design . We design a pressure spring of 1500kg-2000kg in the grinding chamber. The force of grinding device increases 800-1500kg in the function of spring. Under the same power, the capacity increases by 10-20%;
- 3.The range of final products' sizes is wide. The coarse aggregate can reach 0.613 mm (30 mesh), the general is 0.025 mm (600 mesh), the finest can be 0.013 mm (1000 mesh);
- 4.Environmental protection. The efficiency of dust precipitation reaches to the state standard. Because its airflow works in the circular system from air blower to mill shell, therefore, little dust and no pollution.
5. Air classifier is easy to adjust.
- 6.Good sealing. The grinding rollers apply the overlapping and multi-level air protection to make sure the efficiency and increase the lifespan of the machine.



### 适用范围

### Application Range

### 产品规格

### Specification

高压悬辊磨粉机主要用于加工莫氏硬度低于9.3级，湿度低于6%的各种非易燃易爆矿产物料。诸如：石英、长石、石灰石、滑石、陶瓷、大理石、花岗岩、白云石、铝矾土、铁矿石、方解石、重晶石、膨润土、煤矸石、煤等物料，将其加工至0.025-0.613mm (即30-600目)。

该设备被广泛应用于冶金、建材、化工、矿山、高速公路建设、水利水电等行业。

High pressure suspension mill is used to process many kinds of non-flammable and explosive minerals of which Mohs hardness is less than 9.3 and the moisture is less than 6%. Such as quartz, feldspar, limestone, talc, ceramics, marble, granite, dolomite, bauxite, iron ores, barite, bentonite, coal refuse, coal, etc. The final size can reach 0.025-0.613 mm (30-600mesh).

It is widely used in the fields of metallurgy, construction, chemical, high-way, water conservation projects, etc.



规格 Model	磨辊数 (个) Roller number (Piece)	磨辊尺寸 (MM) Roller size (MM)	最大进料粒度 The max. feeding size(MM)	成品粒度 Discharge size(MM)	时产量 (T) Capacity (TPH)	电机功率 (KW) Motor power(KW)		外形尺寸 (MM) (LXWXH) Dimension (MM) (LXWXH)
						主机 Main unit	风机 Air blower	
YGM6515	3	210X150	12-20	0.025-0.613	0.25-2	15	11	4100X3300X4500
YGM7815	3	260X150	15-20	0.025-0.613	0.28-3	18.5	15	4300X3500X5100
YGM8314	3	270X150	15-20	0.025-0.613	0.35-3.4	22	18.5	5300X4100X5200
YGM3016	3	300X150	15-20	0.025-0.613	0.45-5	30	22	5300X4100X5200
YGM9517	4	310X170	15-25	0.025-0.613	0.8-7	37	30	7100X5900X7900
YGM4121	5	410X210	15-25	0.025-0.613	1.8-10	75	75	7850X8000X9700
YGM130	5	410X190	15-25	0.025-0.613	2-11	75	75	7850X8000X9700
YGM160	6	450X280	15-35	0.025-0.613	3-18	132	132	12550X5700X8600

产品图片  
Product picture

生产现场  
Products on site



- 生产现场
- Products on site





生产现场  
Products on site

企业介绍  
Enterprise Introduction



上海山启机械制造有限公司是中国知名的破碎筛分设备制造商。我们为客户提供全系列破碎筛分设备，包括圆锥破碎机颚式破碎机、反击式破碎机、立轴冲击破碎机(制砂机)、移动式破碎站和振动筛，我们不仅为客户提供高性价比的产品，还提供一流的服务支持及解决方案。我们的破碎设备在大量的基础建设工程中得到应用，另外,成套设备已出口到俄罗斯、蒙古、中亚、非洲等国家和地区。

公司拥有多名国内破碎筛分的专家，具有强大的新产品研发能力。公司非常重视国际技术交流与合作，先后引进了美国、德国、澳大利亚等国家的先进技术和工艺，拥有生产设备百余台套。时刻关注新产品、新技术的研发，并成立了砂石机器和选矿设备的研究室。



■ ■ 企业介绍  
■ ■ Enterprise Introduction

山启机械 ■ ■  
Shunky Machinery ■ ■

Shanghai Shunky Machinery Co. Ltd is a famous manufacturer of crushing and screening equipments in China. We provide our customers complete crushing plant, including cone crusher, jaw crusher, impact crusher, VSI sand making machine, mobile crusher and vibrating screen. What we provide is not just the high value-added products, but also the first class service team and problems solution suggestions. Our crushers are widely used in the fundamental construction projects. The complete crushing plants are exported to Russia, Mongolia, middle Asia, Africa and other regions around the world. We have many crusher experts who are capable of new products searching and developing. We pay high attention on the international communication and cooperation and introduced advanced technology from Germany, America and Australia these years. We also have built research room in our company.



专业精神打造臻品·山启机械引领全球

PRODUCE PERFECT PRODUCTS SHUNKY MACHINERY TAKES THE LEAD IN THE WORLD