

High Pressure Grinding Mill





Overview

High Pressure Suspension Grinding Mill is a new kind of grinding mill, which is invented by our company chief engineer Mr Bai yinghui, who has been engaged in the research and development of grinding mill for many years. This new patent product with high efficiency and low energy consumption opened up an epoch of the international industry pulverizing.

Application

High Pressure Suspension Grinding Mill is mainly applied to the powder processing of mineral products in industries of metallurgy, construction, chemistry, and mining etc. The grinding mill can produce powder from more than 280 kinds of non-flammable and non-explosive mineral materials with Mohs hardness below 9.3 and humidity below 6%, such as barite, limestone, calcite, granite, porcelain clay, basalt, gypsum etc.

Main Features & Benefits



1. Compared with the common Raymond grinding mill under the same power conditions, the capacity can be increased by 10%; moreover, under the performance of high-pressure springs, the rollers grinding pressure on raw materials can be raised by 800-1200kgf.
2. The final product size ranges from the maximum particle diameter of 30mesh to the finest diameter of 425 mesh.
3. All the mineral materials with Mohs hardness below 9.3 can be crushed.
4. The grinding device adopts a superposition multi-grade sealing with good sealing performance.
5. Its dust-removing effect fully meets the national dust discharge standard.
6. The classifier is easy for adjustment.



Operation & Maintenance

1. During the application of the high pressure grinding mill, some personnel shall be arranged to take responsibility of management. The operators must be qualified with the required technical knowledge. Before the installation of this grinding mill, the persons related to the operation should receive technical training and fully understand the operating principle, performance and regulations of the grinding mill.

2. In order to guarantee the grinding mill in a normal working state, a Safety Operation System for the Maintenance of the equipment must be established. Only in this way can the grinding mill be guaranteed to have a long-term and safe operation. Meanwhile, it is necessary to have the required repairing tools, lubricant and grease, spare parts and accessories.

3. After some period of running, the high pressure grinding mill should receive an examination and repairing. The components vulnerable to worn out, such as grinding roller, grinding ring, relieving tool etc. should be repaired or replaced. Before and after the operation, a careful examination should be carried out for the connecting screws, bolts and nuts on the grinding rollers so as to find whether they are loose or sufficiently lubricated.

4. When their application time surpassing about 500 hours, all the rolling bearings in the roller sleeves must be cleaned, and the damaged parts should be replaced. The oiling tool can be either a manual oiling pump or grease gun.



Working Principle

In the mainframe of High Pressure Suspension Grinding Mill, there are strong springs with pressure as high as 1000-1500 kg equipped on the roller suspender. When the Grinding mill works, the roller rotates around the principal axis, and clings to ring under the effect of the strong spring and eccentricity. When the materials are sent into the grinding chamber, they are brought to the space between the roller and ring and get grinded. Then the powder grinded will be blown into separator. The fine powder after departed with the air is discharged through the outlet as final product. The large-sized powder falls back for regrinding. The air will be back to the blower for repetition of the above process. The left air will come to the bag filter to get cleaned.

Technical Data

Model	YGM8314	YGM9517	YGM4120
Number of Roller(piece)	3	4	5
Major Diameter of Roller X Height(mm)	φ270X140	φ310X170	φ410X210
Internal Diameter of Ring X Height (mm)	φ830X140	φ950X170	φ1280X210
Main Engine Spindle Speed (r/min)		130	103
Maximum Feeding Grain Size (mm)	20	25	30
Output (t/h)	1.6~0.045	1.6~0.045	1.6~0.045
Overall Dimension (mm)	5300X4100X5200	7100X5900X7900	9200X7250X9700

Name	Item	Unit	Specification and Technical Data		
			YGM8314	YGM9517	YGM4120
Motor of Main Machine	Model		Y225M-8	Y225M-4	Y225M-4
	Power	kw	22	37	75
	Spindle Speed	r/min		1470	1480
Motor of Blower	Model		YCT180-4A	YCT200-4A	YCT200-4B
	Power	kw	5.5	5.5	7.5
	Spindle Speed	r/min	125-1250	125-1250	130-1300
Jaw Crusher	Model		Y180M-4	Y220L-4	Y250M-4
	Power	kw	22	37	75
	Spindle Speed	r/min		1470	1480

Note: This specification is just reference, any changes are subject to the high pressure suspension mill products.

Service

Since the establishment, Shanghai Shibang Machinery Co., Ltd has regarded "All is for clients" as its service goal and has provided high-quality, high-taste, high-efficient and all-around-way service for its clients.



Service Promise: from the design process to delivery, we do every step carefully to satisfy clients to the best.

1. Pre-sale Services

Act as a good adviser and assistant of clients; enable them to get rich and generous returns on their investments.

- ◆ Select equipment model
- ◆ Design and manufacture products according to clients' special requirement
- ◆ Train technical personnel for clients

2. Services During The Sale

Respect clients; devote ourselves to improving the total value of clients.

- ◆ Pre-check and accept products ahead of delivery
- ◆ Help clients to draft solving plans

3. After-sale Services

Provide considerate services to minimize clients' worries.

- ◆ Assist clients to prepare for the first construction scheme
- ◆ Install and debug the equipment
- ◆ Train the first-line operators on site
- ◆ Examine the equipment regularly
- ◆ Provide maintenance for big items
- ◆ Provide technical exchanging
- ◆ Provide perfect service
- ◆ Distribute the guarantee fittings door-to-door
- ◆ Take initiative to eliminate the troubles rapidly at site





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Any change of technical data shall not be advised additionally.