

Super Thin Grinding Mill





Overview

On the basis of more than 15 years' production experience of our company, we absorb grinding mill technology advantages from the same field abroad and domestic, organizing elite powder processing experts to investigate, research, try again and again; finally, we develop this high-efficiency and low-cost SCM Series Super Thin Grinding Mill.

Application

SCM Series Super Thin Grinding Mill is mainly applied to the powder processing of mineral products in industries of metallurgy, construction, chemistry, Fertilizer and mining etc. The grinding mill can produce powder from non-flammable and non-explosive mineral materials with Mohs hardness below 9 and humidity below 8%, such as barite, limestone, quartz, calcite, granite, porcelain clay, basalt, gypsum etc.



Main Features & Benefits

SCM series Three-ring & Medium-speed micro-powder mill is designed basing on our 20 years' manufacturing experience, absorbing the Swedish advanced machine manufacturing techniques. It is a new type of mill for making super fine powder through more than 20 times of test and improvement. It is the latest type of product of micro-powder mill that leads the world tide.



1. High efficiency. Under the same condition of finished particle size and power of motor, the output of thin grinding mill is 40% higher than airflow grinding mill and whisk grinding mill.
2. Environmental protection. Pollution and noise are lightened by using deduster and muffler so as to reach the requirement of national environmental protection when using thin grinding mill.
3. High safety. No axle tree or bolt is used in the grinding chamber, so there will be no worn out problem of bearing and sealing parts, and also no loose of bolts in the running of thin grinding mill.
4. Finished size can reach to $d_{97} \leq 5\mu\text{m}$.
5. High using rate of spare parts.

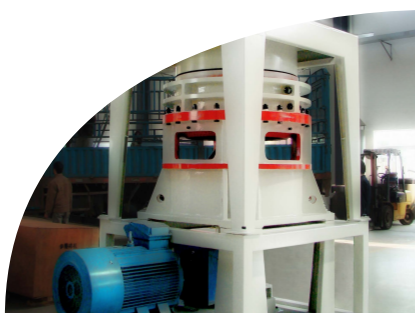




Operation & Maintenance

To make grinding mill normal operation and maintenance , the choice of lubricants, use, storage is very important. Because of the lubricants ,we can avoid direct contact with the surface of grinding mill parts and reduce friction , wear and tear. While taking advantage of thermal conductivity of the oil ,the heat generated by friction can be passed. So it should be kept clean and a certain degree of viscosity of lubricating oil, when ensuring adequate and smooth flow.

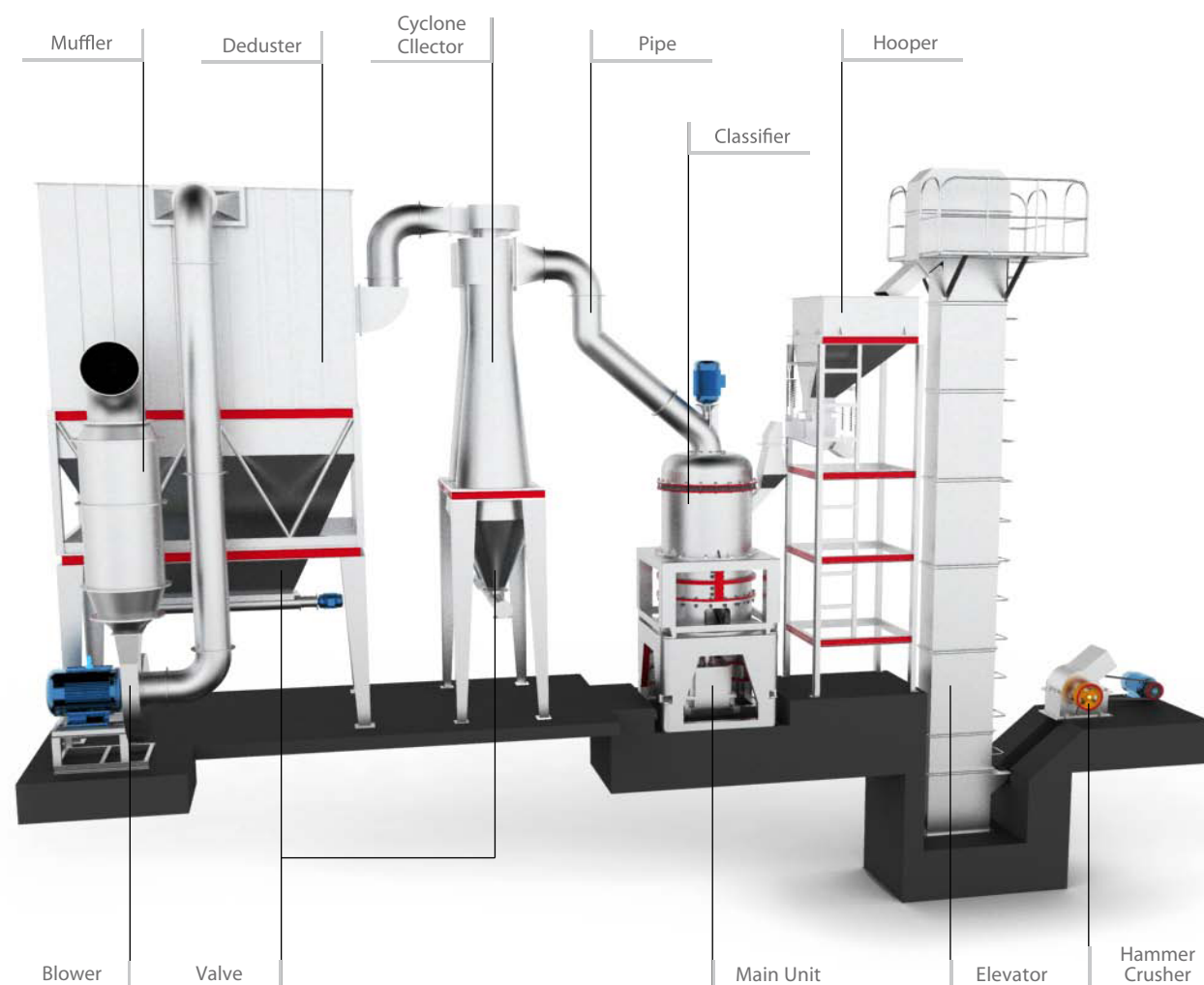
If you need to stop grinding mill for a longer time, you should pour the balls out, to avoid the tube bend. In cold areas, such as in winter, you should release bearing cooling water in order to avoid Frost Crack.



Main Structure

The whole system of SCM Series Super thin grinding mill consists of main unit, deceleration machine, blower, hammer crusher, dustpan elevator, electro-magnetic vibrating feeder, impulse dust cleaner, piping device, cyclone collector device, classifier, high-pressure motor and muffler.

Axletree seat and effuser air-in are built on the main seat. The antrum of mill is on the effuser air-in. Multi-layer dial set on the main axle lies in the middle of grinding antrum. There are several rollers distributing evenly on each dial. A gear reducer and motor are set on the main seat, while the powder collector is set on the top of the antrum mill.



Technical Data

Model	SCM6015	SCM8021	SCM10027
Number of Roller (piece)	15	21	27
Ring Diameter (mm)	Φ600	Φ800	Φ1000
Number of Ring (piece)	1×3	1×3	1×3
Main Equipment Rotate Speed (r/min)	235	235	173
Max. Inlet Size (mm)	≤10	≤10	≤20
Final Size (mesh)	325~2500	325~2500	325~2500
Capacity (kg/h)	325~2500	600~4000	900~6800
Overall Size (m)	10×2.3×5.5	13×3×5.8	18×4×8.6

Name	Item	Unit	Specification and Technical Data		
			SCM6015	SCM8021	SCM10027
Motor of Main Machine	Model		Y225s-4	Y250M-4	Y315S-4
	Power	kw	37	55	110
Classifier Frequency Modulation Motor	Model		Y160M-4	Y180M-4	Y200L1-4
	Power	kw	11	18.5	30
Motor of Elevator	Model		Y100L-4	Y100L-4	Y100L-4
	Power	kw	3	3	3
Motor of Blower	Model		Y200L1-2	Y225M-2	Y280M-2
	Power	kw	30	45	90
Hammer Crusher	Model		PC250X400	PC300X400	PC400X600
	Power	kw	15	15	18.5
Vibrating Feeder	Model		GZ1F	GZ1F	LS180X1050
	Power	kw	0.06	0.06	0.2
Discharge Value	Model		ZJD1:40	ZJD1:40	ZJD1:40
	Power	kw	0.75	0.75	0.75
Pulsed Duster	Model		DMC72- II	DMC120- II	DMC120- II

Note: This specification is just reference, any changes are subject to the SCM Series Super Thin Mill products.





Working Principle

The main motor drives main axle and every layer rotating by the power of reducer. Dial drives numbers of rollers rolling and rotating in the ring by pintles. Big materials are crushed into small particles by hammer crusher. Then they are sent to store house by elevator. Vibrating feeder send the materials evenly to the middle of the upper dial. Under the function of the eccentricity, the materials fall into the ring to be pressed, crushed and milled into pieces by rollers. After the first crush, materials fall into the second and third layer. The pumping of the high-pressure centrifugal blower put the outside air into the grinding machine. The coarse powder will be brought into the classifier.



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.