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MGW High Efficiency Grinding Mill

SHANGHAI MOUNTAIN RIVER MACHINERY CO.,LTD

CRUSH THE STONES CONSTRUCT THE WORLD

Introduction

MGW series high efficiency grinding mill is designed by our experts, according to collected advices from customers' long-term experiences. It takes the most advanced patent technology from Europe and it has a outstanding performance at a low cost.

Application

MGW series high efficiency mill is mainly applied to the material processing of metallurgy, building materials, chemical industry, mining and other industries. It can grind limestone, calcite, marble, talcum, dolomite, bauxite, barite, petroleum coke, quartz, iron ore, phosphate rock, gypsum, graphite and other non-inflammable and non-explosive mineral materials with Moh's hardness below 9 and humidity lower than 6%.



Main Structure

The complete plant of the grinding mill is composed of jaw crusher, bucket elevator, storage hopper, electromagnetic vibrating feeder, main mill, classifier, powder collector, bag filter, electric control cabinet, etc.



- Hopper
- Belt Feeder
- Air Lock Feeder
- Main Mill
- Classifier
- Powder Collector
- Pulse Bag Filter
- Blower

Working Principle

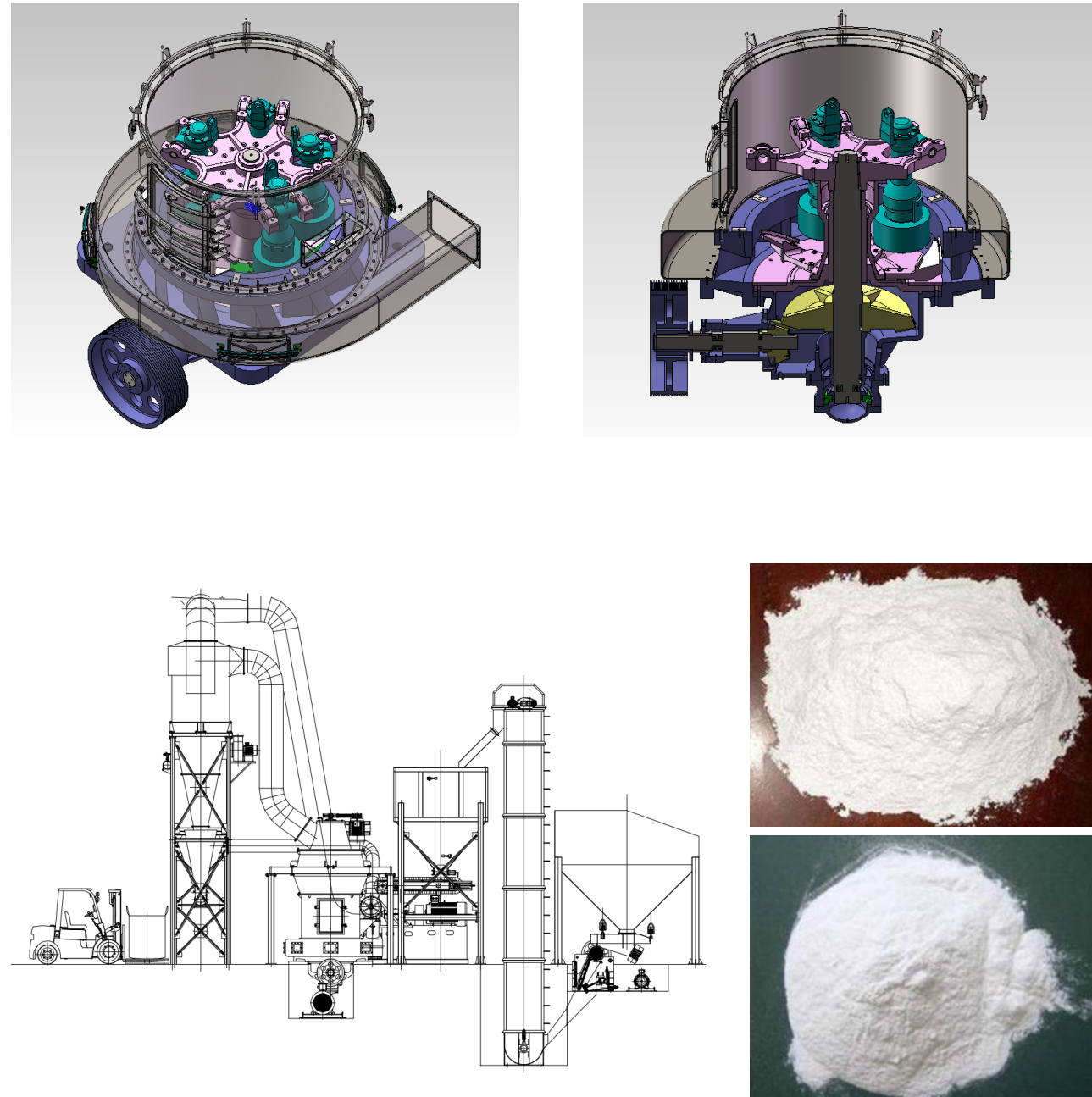
The raw material will be fed into the jaw crusher to be crushed to below 20mm. The bucket elevator will load the crushed material below 20mm and then feed it into the main mill through a hopper and a vibrating feeder.

The main mill drives the center shaft to rotate through the reducer. The top of the center shaft connects with a grinding roller hanger. The rollers are installed under the roller hanger through the cross arm shaft and form a swinging pivot.

The grinding roller rotates around the center shaft of the main mill along the grinding ring. At the same time it also rotates itself under the action of the friction with the grinding mill. The shovel blades system is equipped in the bottom of the grinding roller hanger. The shovel blade and rollers can throw up the material and feed it into the space between the rollers and ring so that the material can be crushed and grinded.



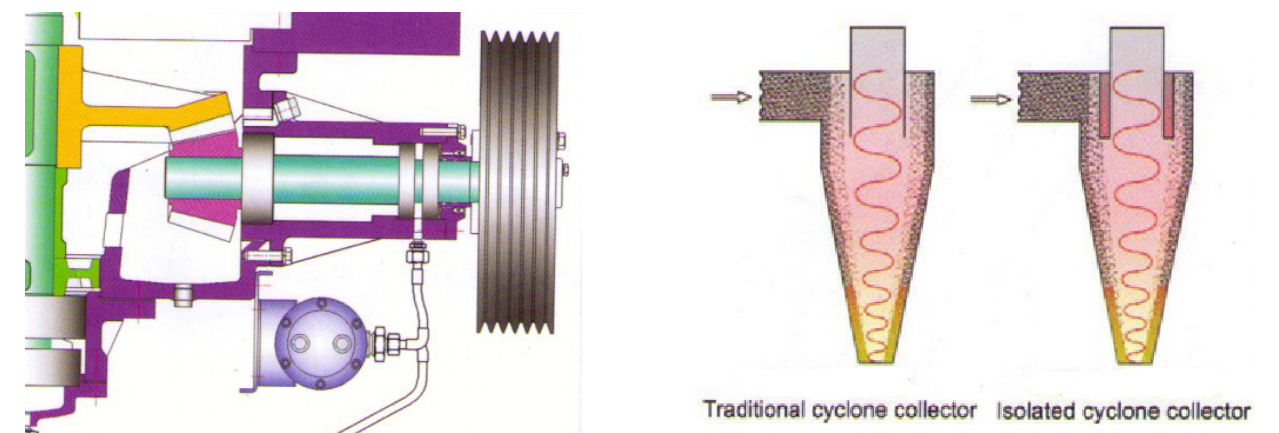
The air flow from the bottom of the grinding ring will take small powder into the classifier. After the classification by the classifier, the coarse particles will fall down to be grinded again and the qualified powder will be fed into the powder collector together with the air flow. The it will be discharged from the pipes as finished products.



Technical Advantages

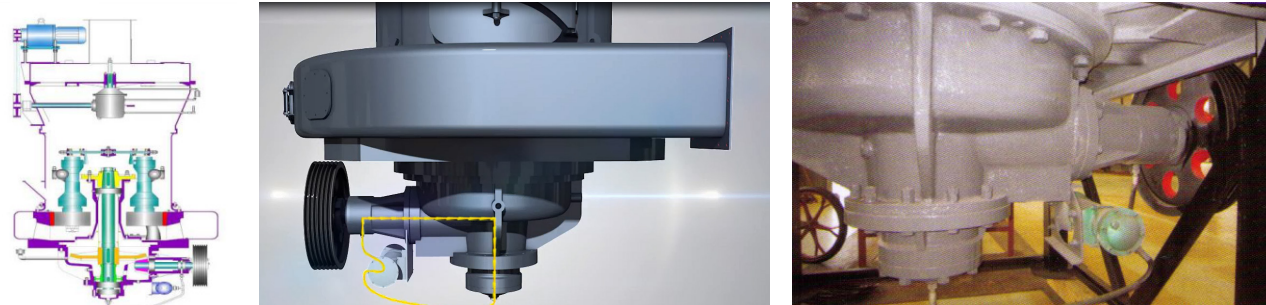
(1) The high-end configuration of bevel gear integral drive+frequency converter+isolation powder collection greatly improves the powder selection efficiency.

1. The bevel gear is used for integral transmission, without the reducer, which improves the work efficiency.
2. Using frequency converter to control the rotation speed of the cage classifier, the powder selection effect is better.
3. The isolated cyclone powder collector is used to greatly improve the powder selection efficiency.



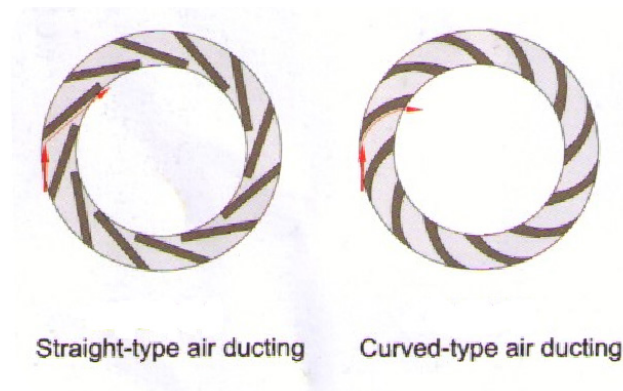
(2) Automatic light oil lubrication+water cooling constant temperature system makes the equipment stable and reliable, and the service life is increased by 5-10 times.

There is an advanced and reliable built-in thin oil lubrication and circulating water cooling system inside the machine. The internal oil pump adopts a closed gear box, which can lubricate the main shaft bearing and the bevel gear shaft bearing, automatically supply oil, and transmit easily. The circulating water cooling system ensures the constant temperature of the main shaft and bearing and prolongs the service life of the equipment.



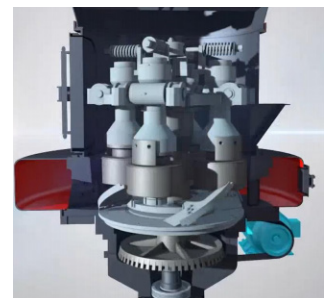
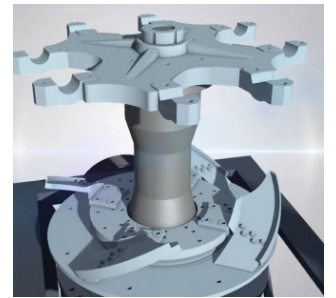
(3) The radian design of the inner and outer surfaces makes it popular without hindrance and improves the efficiency.

MGW series heavy high efficiency grinding mill adopts the overall use of curved surface design, arc-shaped air duct, no resistance to the air inlet volute, no airflow dead angle, material flow unimpeded. The inner surfaces of the door panel and of the air inlet volute are on the same curved surface to avoid eddy current effects and reduce energy consumption. The appearance also adopts a beautiful arc design, which is beautiful and safe.



(4) Special structure design of grinding roller, grinding ring and shovel blade, using high wear-resistant material.

Important spare parts are made of high-quality steel. The blade material of the shovel adopts high wear-resistant silicon-manganese alloy. Our customers can just replace the blade. The curved blade can guide the material to the vertical surface, so that the upper, middle and lower parts of the grinding roller ring can be ground, so that it can wear evenly, increase the effective working area, improve the grinding efficiency, thereby increasing the output and reducing the use of The cost, the theoretical life is 5-10 times that of the old-fashioned blade.



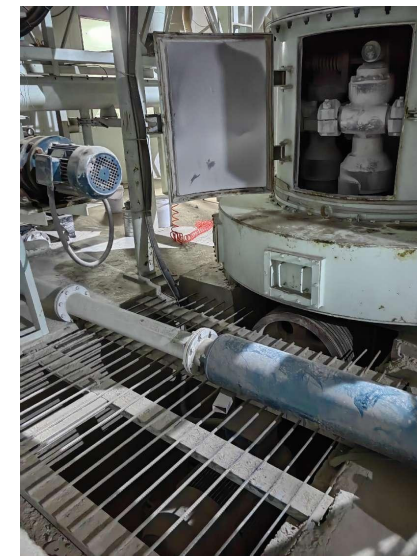
(5) Cage powder classifier replaces disc classifier

MGW series high efficiency grinding mill has cage classifier. In comparison with the traditional disc classifier, cage classifier can increase the accuracy and capacity of the final product obviously.



Technical Parameters

Name & Model	MGW100	MGW138	MGW175	MGW198	MGW215
Roller qty. (pieces)	4	4	5	5	5
Diameter*height of roller (mm)	Φ360*190	Φ460*240	Φ520*280	Φ620*300	Φ640*320
Inner diameter* height of ring (mm)	Φ1000*190	Φ1380*240	Φ1750*280	Φ1980*300	Φ2150*320
Main shaft speed (rpm)	120	96	75	70	65
Max. feeding size (mm)	<30	<35	<40	<50	<50
Output size (mm)	1.6-0.038	1.6-0.038	1.6-0.038	1.6-0.038	1.6-0.038
Capacity (t/h)	3.5-10	6.5-15	13-20		30-45
Overall dimension (mm)	8625*7933 *8642	9860*8340 *10227	13500*11500 *9500	15500*12000 *15000	14730*10860 *10341
Main mill motor (kw)	55	90	160	280	180
Classifier motor (kw)	11	18.5	37	55	90
Blower motor (kw)	55	110	200	280	315
Bucket elevator motor (kw)	3	3	4	11	11
Belt feeder (mm)	300*60*1800	500*60*2000	500*60*3000	500*60*6000	500*60*6000
Belt feeder motor (kw)	1.5	2.2	3	4	4



Customer Site

