



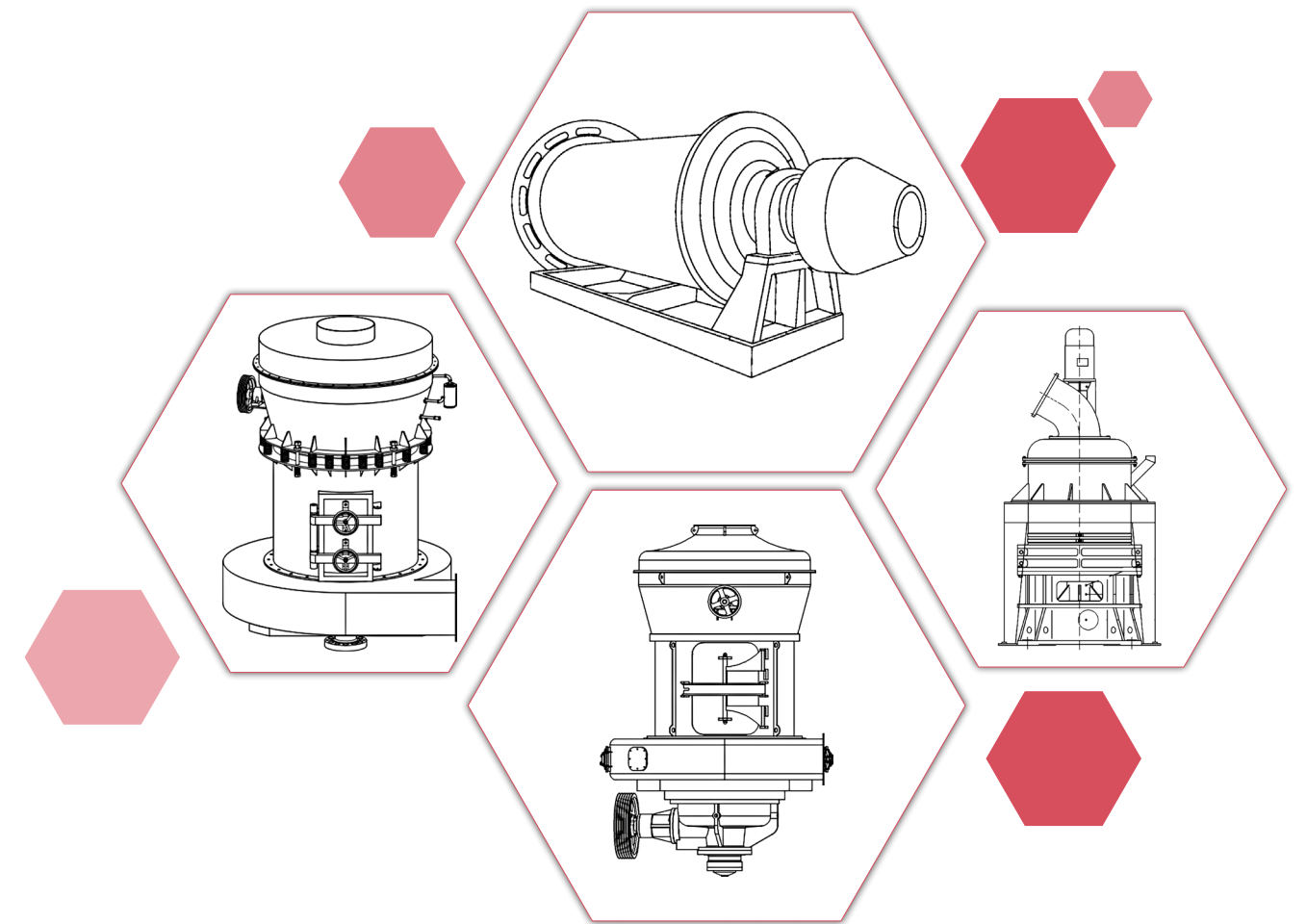
Whatsapp: +8615821910712

Email: info@shmrmachinery.com

Website: www.mrcrushermill.com

Online Shop: shmrmachinery.en.made-in-china.com

Address: No. 9875, Hunan Road, Nanhui Industrial Park,
Huinan Town, Pudong New Area, Shanghai



MR GRINDING MILL

SHANGHAI MOUNTAIN RIVER MACHINERY CO.,LTD

CRUSH THE STONES

CONSTRUCT THE WORLD

PRODUCT CONTENT

Company Profile01

Factory Photos02

MSF Ultrafine Mill06

MGM High Pressure Grinding Mill 11

MGW High Efficiency Grinding Mill15

MQ Ball Mill23

Company Profile

Shanghai Mountain River Machinery Co.,Ltd (MR) is a professional manufacturer of crushing equipment, grinding equipment, briquette equipment, other auxiliary equipment and all their spare parts. MR factory covers around 400,000 square meters, with function of material pre-processing, fabrication, assembling, quality control process, test process, finished products storage, spare parts storage, loading and delivery process.

In the past few decades, we have been focused on the design, research&development, manufacturing, sales, installation, and maintenance of mining equipments. Our main products are: jaw crusher, cone crusher, impact crusher, vertical shaft impact crusher, hammer crusher, vibrating feeder, vibrating screen, sand washer, belt conveyor, raymond mill, high pressure mill, high efficiency mill, ultrafine mill, ball mill, coal briquette machine, mining powder briquette machine, non-metal powder briquette machine, high pressure briquette machine, etc. These equipments are widely used in the industry of mining, construction materials, chemicals, metallurgies, transportation, hydraulic engineering and so on.

With certification of ISO9001:2000 and CE, our machines have been exported to more than 130 countries and regions in the world. With headquarter located in Shanghai China, 2 branch companies and 2 warehouses of spare parts abroad, we have been committed to provide our customers with the best quality and most cost-effective equipment.

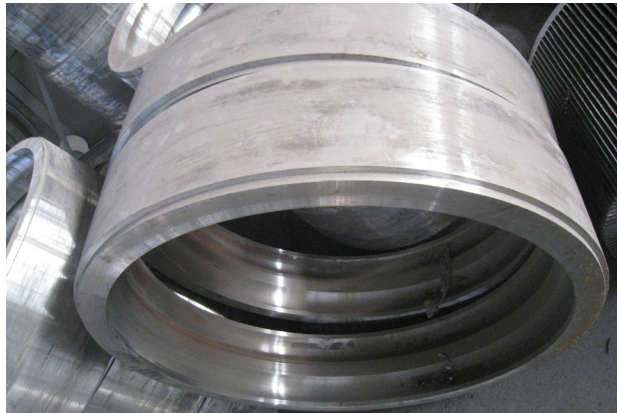
MR China, your most loyal partner!



Factory Photos



Factory Photos



MSF Ultrafine Mill

Introduction

MSF series ultrafine mill is designed to produce fine powder and ultrafine powder. The original size of raw material to feed the ultrafine mill could be around 20mm, after ground, our customer can get fine powder and ultrafine powder until 3000 mesh, 5 microns.



Application

The MSF series ultrafine grinding mill is mainly used to grind more than 200 kinds of non-flammable and non-explosive brittle materials with Mohs hardness < 9. The most popular materials are dolomite, barite, limestone, gypsum, bentonite, calcium carbonate, coal, mica, talc, graphite, fluorite, calcite, kaolin, illite, pyrophyllite, sepiolite, potash feldspar, phosphate rock etc.

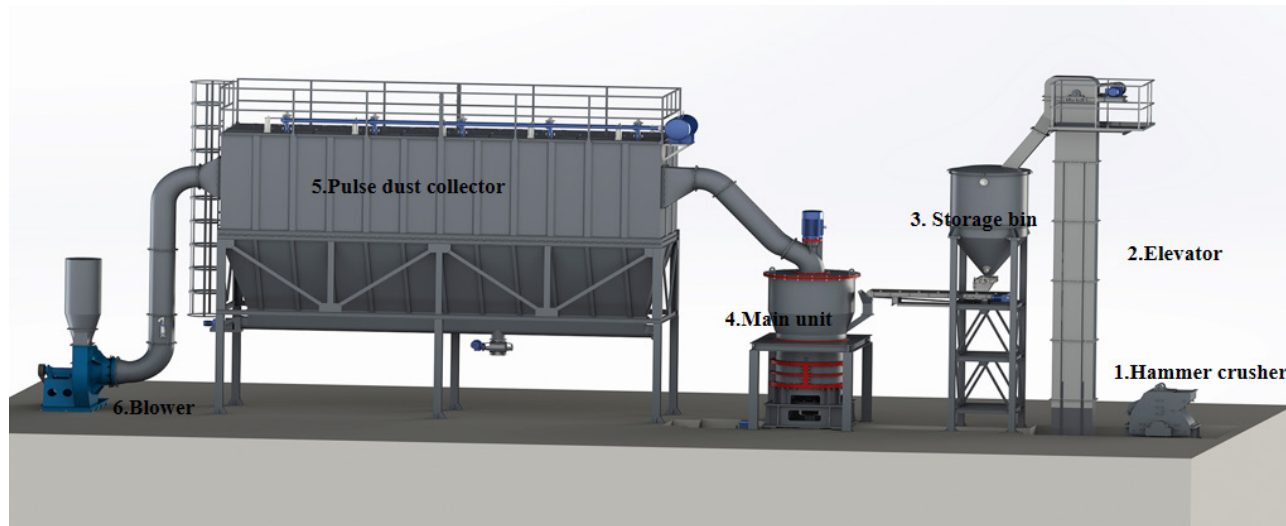


The final powder from the MSF series ultrafine mill is widely applied in paint, paper making, pigment, rubber, plastic, padding, cosmetic, chemical supplies and many other industrial fields.

Material	Fineness (Mesh)	Application
Calcium carbonate	600	coating, paper making toothpaste, healing drugs and daily chemical using, pvc making, etc.
	800	paint, coating, paper making toothpaste, healing drugs and daily chemical using, pvc making, etc.
	1250	paint, coating, paper making, toothpaste, healing drugs and daily chemical using, additive in chemical and plastic, additive in high quality paper and seal oil, etc.
	1500	paint, coating, paper making, toothpaste, healing drugs and daily chemical using, additive in chemical and plastic, additive in high quality paper and seal oil, etc.
Barite	600	paint, rubber packing, drilling mud, pvc making, plastic, etc.
	800	paint, rubber packing, drilling mud, plastic, etc.
	1250	paint, rubber packing, paper making, drilling mud, plastic, etc.
	2500	paint, rubber packing, paper making, drilling mud, plastic, etc.
Calcite	600	paper making, coating, printing ink, main ingredients of toothpaste, etc
	800	paper making, coating, printing ink, pvc additives, cable additives, etc
	1250	degradable plastic, paper making, paint, coating, printing ink, adhesive, etc
	2500	degradable plastic, coating, printing ink, adhesive, etc
Mica	600	pearl pigment, toothpaste, coating, paint, etc
	800	pearl pigment, mica paper coating, paint, etc
	1250	oil drilling mica pulp, pearl pigment, paper making, coating, paint, plastic, cosmetics, etc
	2500	oil drilling mica pulp, pearl pigment, paper making, coating, paint, plastic, cosmetics, aerial material, etc

Main structure

The main structure of MSF series ultrafine mill consists of main unit, classifier, pulse dust collector, motor, pipes and blower, etc. The auxiliary equipment include hammer crusher, elevator, feeder and control cabinet.



Working Principle

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

The motor of the main mill drives the center shaft and disc rotor to rotate through the reducer. The roller pins on the edge of the grinding disc drive the grinding rollers to roll in the mill roller path. The material will fall on the distribution plate above the disc rotor, moving sideward under the action of centrifugal force, and then falling into the mill roller path for being crushed and ground between the ring and rollers. After being processed through roller paths, the material will become ultrafine powder. The high-pressure blower will inhale outside air into the mill body, then taking the ground material into the powder classifier.

The rotating impellers in the classifier will drive the coarse particles to fall back for repeated grinding, with the qualified fine powder forced into the cyclone powder collector along with the air flow and discharged from the lower discharge valve as finished products, while the air flow with small amount of fine dust will be discharged out of the mill via the blower and muffler after being purified by the impulse dust collector.



Technical Parameters

Content	Model				
	MSF600	MSF800	MSF1000	MSF1250	MSF1680
Roller qty. (pieces)	12	21	28	32	44
Diameter of ring (mm)	Φ600	Φ800	Φ1000	Φ1250	Φ1680
Main shaft speed (rpm)	250-280	230-240	180-200	135-155	120-130
Max. feeding size (mm)	20	20	20	20	25
Final size (mesh)	325-2500	325-2500	325-2500	325-2000	325-2000
Capacity (tph)	0.2-3	0.5-4.5	1-8.5	2.5-14	5-25
Dimension (m)	11.5*3.5*5.2	13*3*5.8	18*4.6*8.6	14*9*10.25	16*5*11
Main mill (kw)	45	75	132	200	315
Classifier (kw)	15	18.5	30	75	132
Blower (kw)	37	45	75	132	200-220
Hammer crusher Motor (kw)	PC300 × 400 PC400 × 600	PC400 × 600	PC600 × 800	PC600 × 800	PC600 × 800
	11/18.5	18.5	45	45	45
Bucket elevator Motor (kw)	TH200 × 8.2m TH200 × 6.04m	TH200 × 9.79m	TH300 × 11.05m	TH300 × 13.55m	TH300 × 16.31m
	3	3	4	5.5	7.5
Belt feeder Motor (kw)	300 × 60 × 1000mm	300 × 60 × 1800mm	300 × 60 × 1800mm	400 × 80 × 2000mm	400 × 80 × 2800mm
	1.1	1.5	1.5	1.5	2.2
Pulse dust collector	DMC96	DMC120	LDMC35-8	LDMC64-9	LDMC64-9 (2 sets)
		DMC160			
Discharge screw conveyor Motor (kw)	/	LS219-4.5	LS245-6.2	LS315-10.34	LS315-10.34 (2 sets)
		LS219-3			
Air compressor Motor (kw)	KSH150D	KSH240D	LGY5-8	LG6.2/8	LG10/8
	11	15	30	37	55

Customer Site



MGM High Pressure Grinding Mill

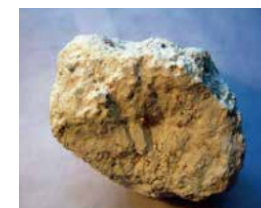
Introduction

MGM high pressure grinding mill is a leading-world-level industrial mill. It is designed by our own engineers and technical workers, based on many years' industrial mill research. It has been widely used in metallurgy industry, electric power industrial, chemical, building, steel industry, coal industry, etc. And it has brought large economic benefits to our customers and the society.



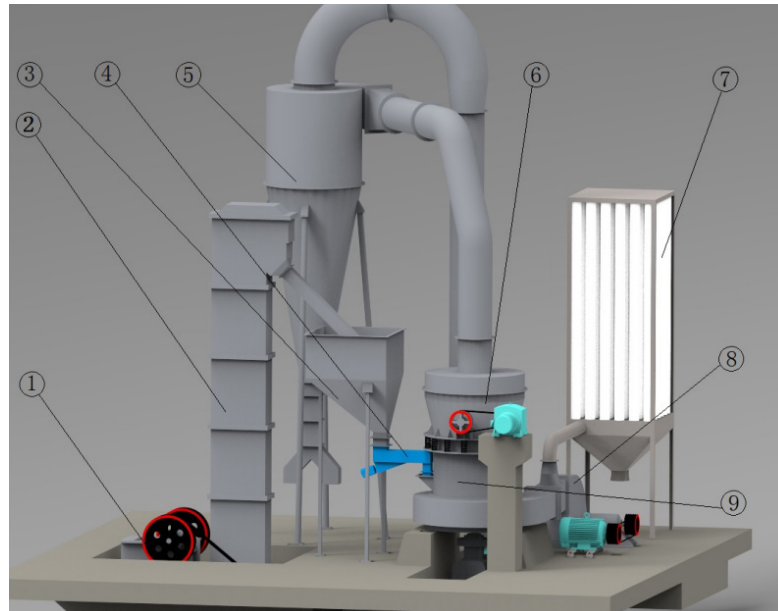
Application

MGM series high pressure grinding 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 MGM series high pressure grinding mill is composed of jaw crusher, bucket elevator, storage hopper, electromagnetic vibrating feeder, main mill, classifier, powder collector, bag filter, blower, electric control cabinet, etc.



- ① Jaw Crusher
- ② Bucket Elevator
- ③ Storage Hopper
- ④ Vibrating Feeder
- ⑤ Powder Collector
- ⑥ Classifier
- ⑦ Bag Filter
- ⑧ Blower
- ⑨ Main Mill

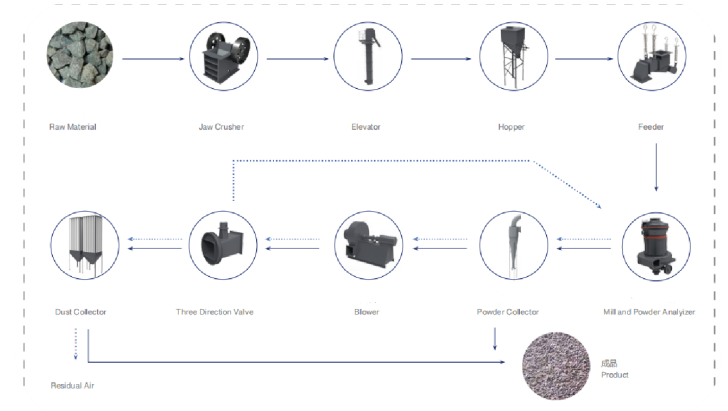
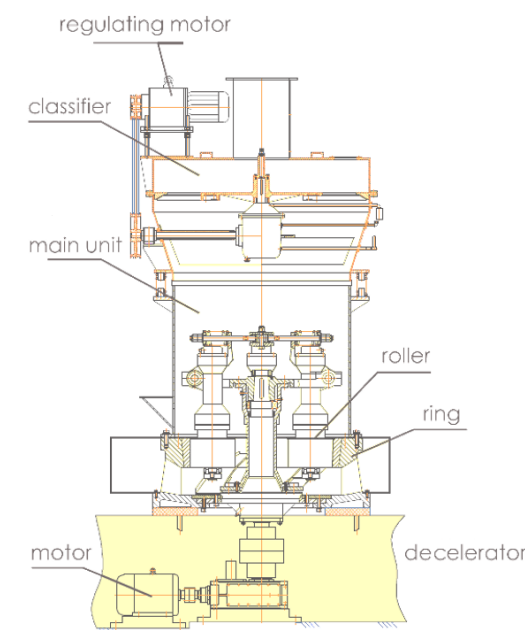
Working Principle

The raw material will be fed into the jaw crusher to be crushed as smaller than 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 ground.

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 ground 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 Parameters

Item	MGM100	MGM130	MGM160
Roller qty.(pieces)	4	5	6
Roller diameter × height (mm)	Φ310 × 170	Φ410 × 210	Φ440 × 270
Ring inner diameter × height (mm)	Φ950 × 170	Φ1280 × 210	Φ1600 × 270
Main shaft speed (rpm)	130	103	82
Maximum feeding size (mm)	25	30	35
Output size (mm)	1.6~0.045/0.038	1.6~0.045/0.038	1.6~0.045/0.038
Capacity (t/h)	3~8.8	6~11	9~22
Overall dimension (mm)	7100 × 5900 × 7900	9200 × 7250 × 9700	12550 × 5700 × 8355
Motor of main unit (kw)	37	75	132
Motor of classifier (kw)	5.5	7.5	18.5
Motor of elevator (kw)	3	3	4
Motor of blower (kw)	37	75	132
Motor of jaw crusher (kw)	7.5	15	30
Motor of electromagnetic feeder (kw)	0.15	0.2	0.2

Customer Site



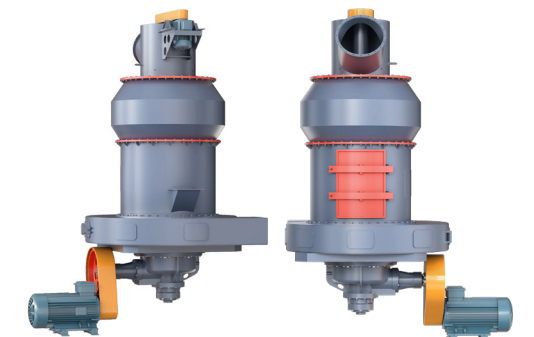
MGW High Efficiency Grinding Mill

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

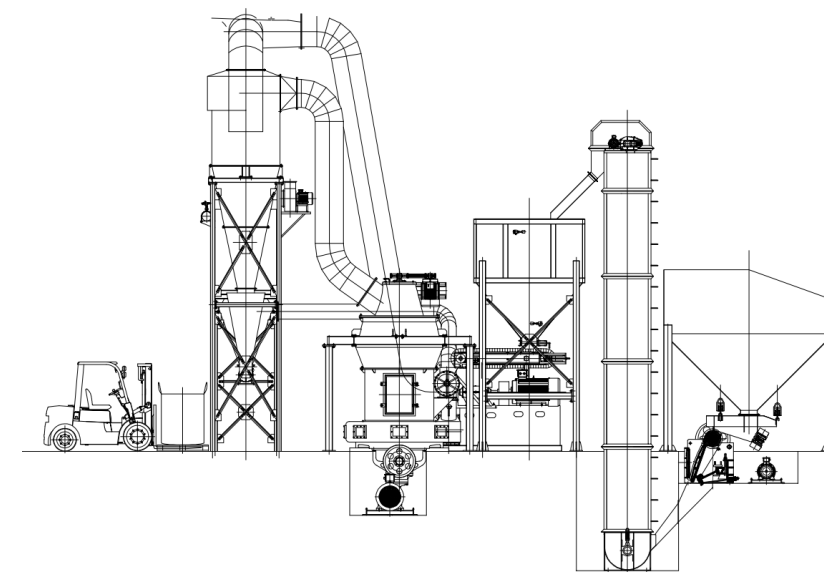
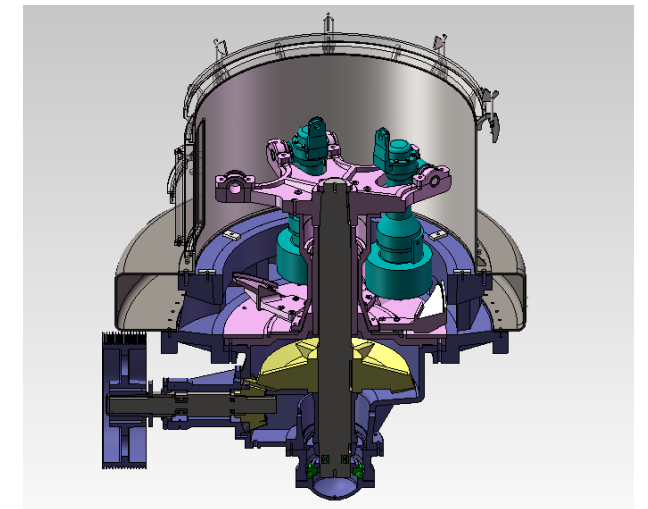
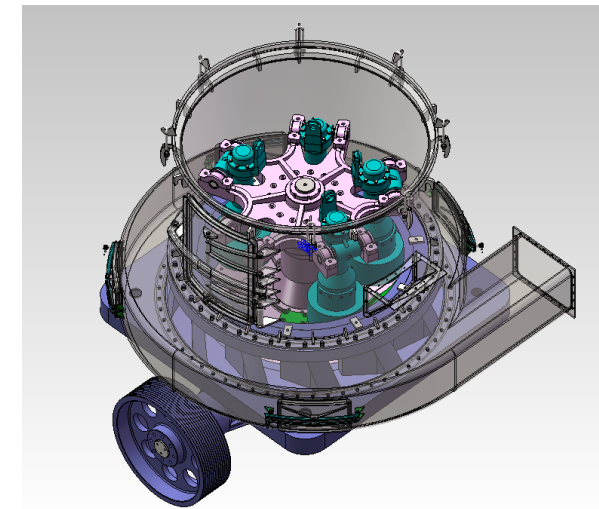
Working Principle

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 gear. And the top of the center shaft connects with a grinding roller hanger. The grinding 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.

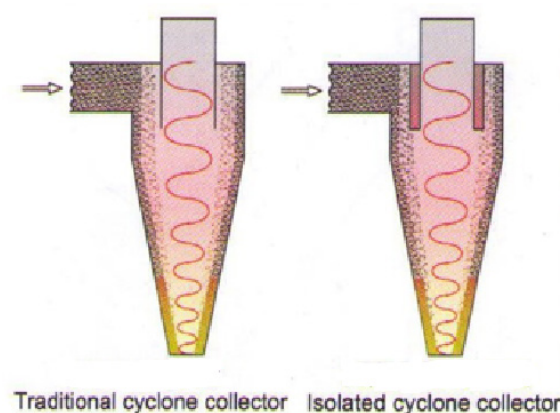
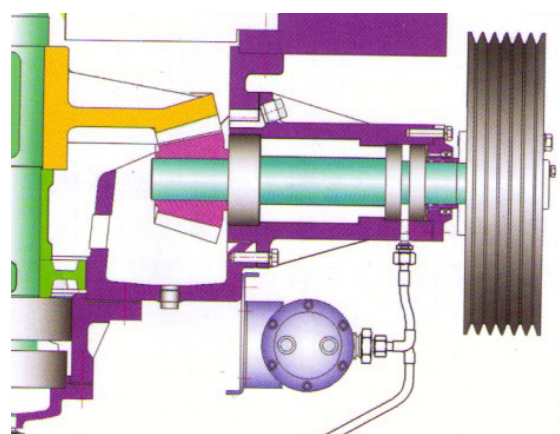
The air flow from the bottom of the grinding ring will take small powder into the classifier. After the classification by the classifier, the coarse particles will fall down to be grinded again and the qualified powder will be fed into the powder collector together with the air flow. The it will be discharged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



Technical Advantages

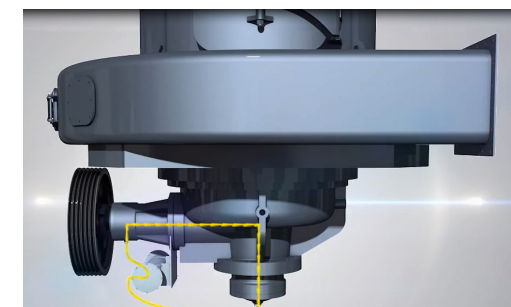
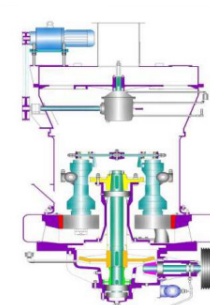
(1) The high-end configuration of bevel gear integral drive+frequency converter+isolation powder collection greatly improves the powder selection efficiency.

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.



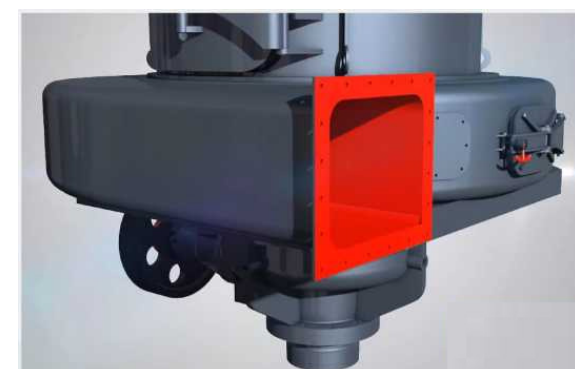
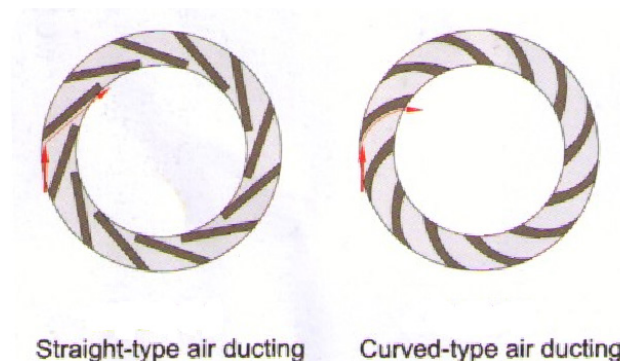
(2) Automatic light oil lubrication+water cooling constant temperature system makes the equipment stable and reliable, and the service life is increased by 5–10 times.

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.



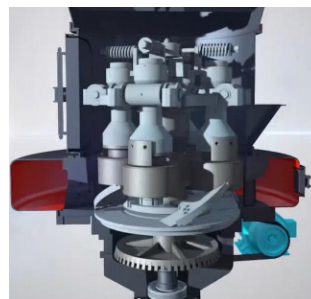
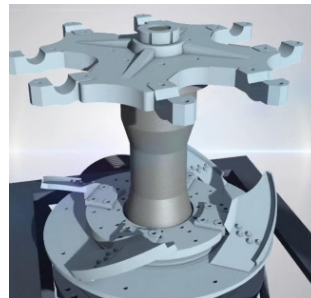
(3) The radian design of the inner and outer surfaces makes it popular without hindrance and improves the efficiency.

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

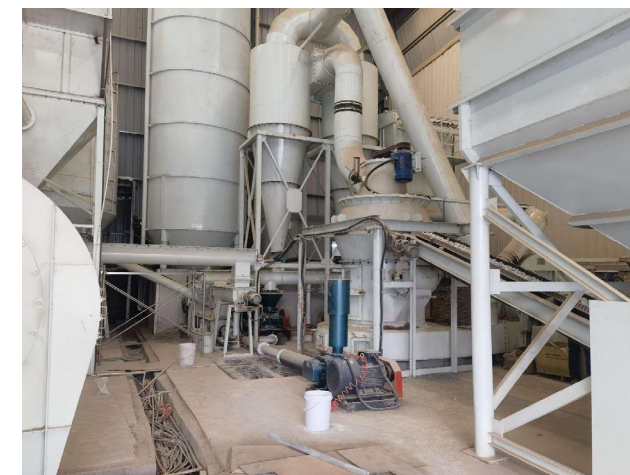
MGW series high efficiency grinding mill has cage classifier. In comparison with the traditional disc classifier, cage classifier can increase the accuracy and capacity of the final product obviously.



Technical Parameters

Name & Model	MGW110	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)	Φ1100*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

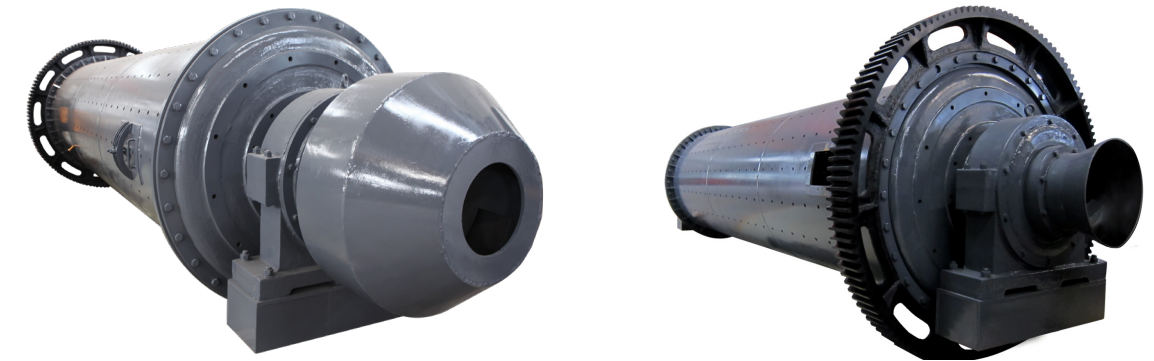




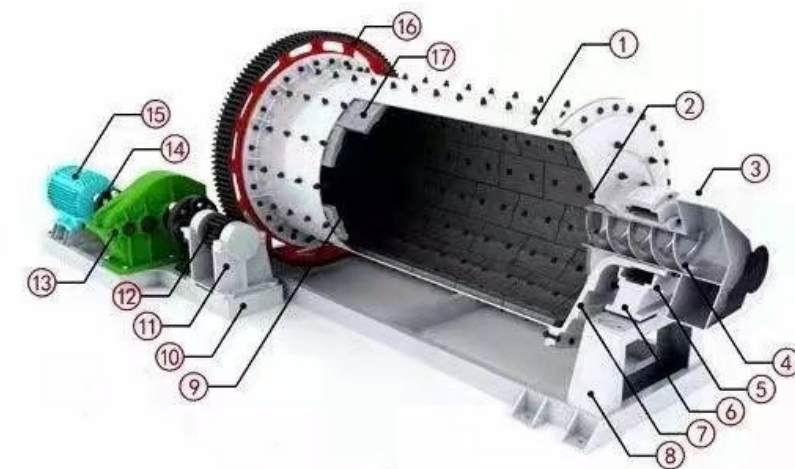
MQ Ball Mill

Introduction

MQ ball mill is an efficient machinery for powder making. It is mainly used to the beneficiation equipment, ceramics, chemical and cement industry etc. There are two types ball mills, the dry type and the wet type. In recent years, the bearing transmission energy saving ball mill is newly developed, which can save 25-30% energy.



Main Structure



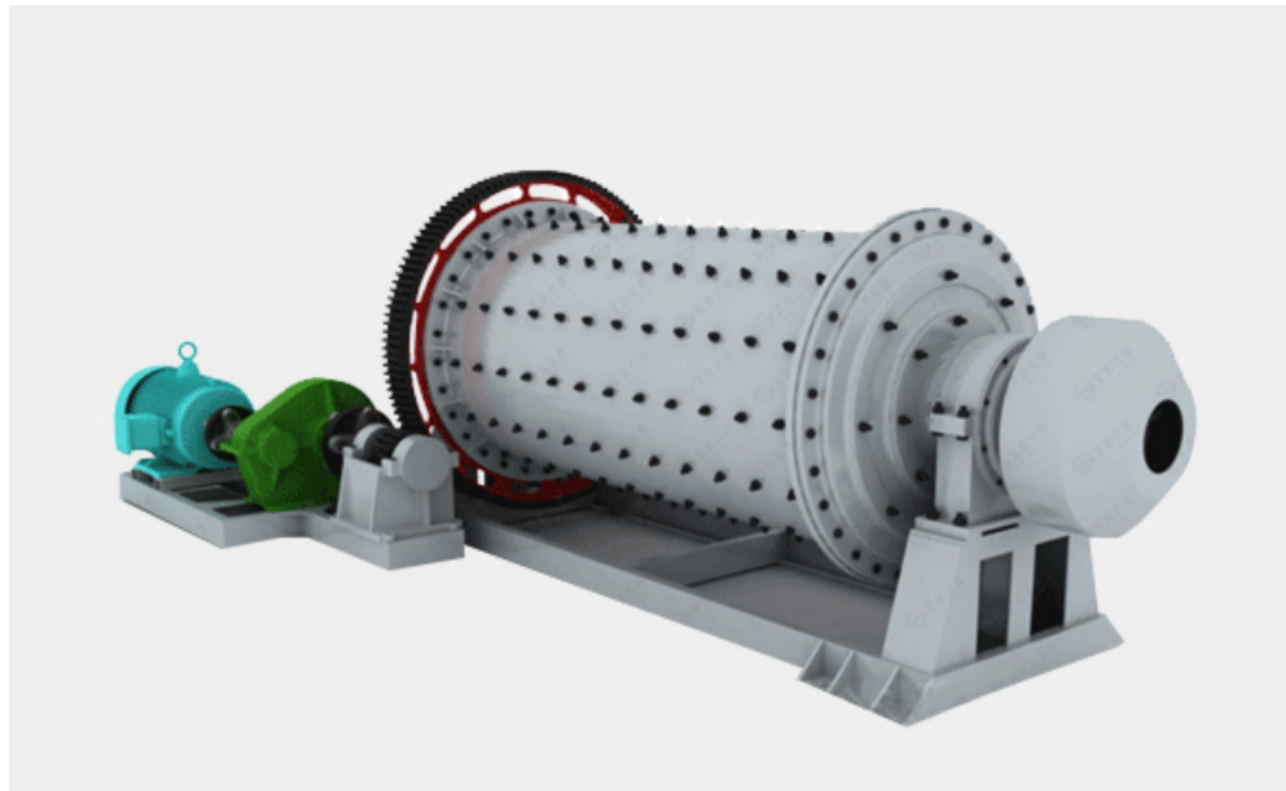
- | | |
|------------------------------------|--------------------|
| 1. Cylinder | 16. Big Gear |
| 2. Front Feeding Cover | 17. Internal Liner |
| 3. Feeder | |
| 4. Feeder Screw | |
| 5. Bearing Cover | |
| 6. Bearing Seat | |
| 7. Mill Head | |
| 8. Bracket | |
| 9. Cover Liner | |
| 10. Drive Seat | |
| 11. Main Pinion Shaft Bearing Seat | |
| 12. Pinion | |
| 13. Reducer | |

- | |
|--------------------|
| 16. Big Gear |
| 17. Internal Liner |

- | |
|--------------|
| 14. Coupling |
| 15. Motor |

Working Principle

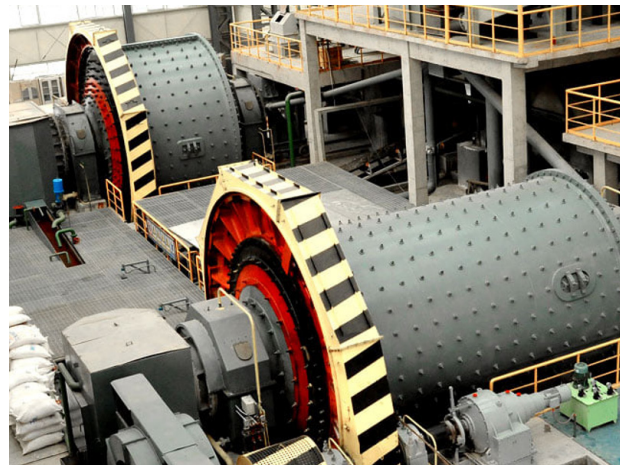
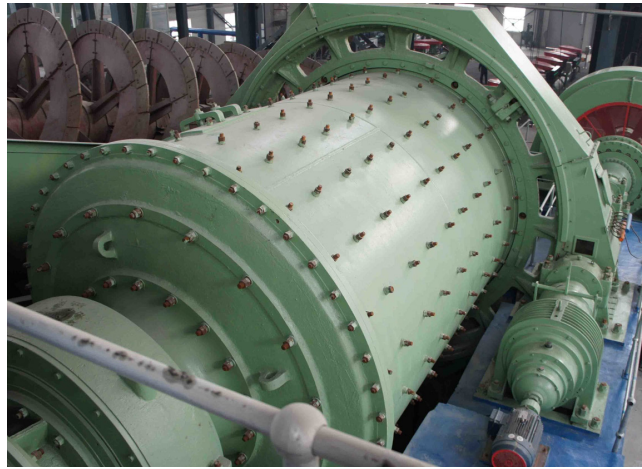
The main body of the ball mill is a revolving cylinder, both ends are equipped with end covers with hollow shafts, the hollow shafts are supported by the main bearings, and the whole mill rotates under the drive of the transmission device. Due to the action of inertial centrifugal force, the grinding body is attached to the lining surface of the inner wall of the mill and rotates together with it. After being brought to a certain height, it falls freely by gravity. The grinding body has a cyclic movement of rising and falling in the rotating mill, resulting in sliding and rolling, resulting in the grinding action between the grinding body, the lining plate and the material to be ground to make the material fine. In order to protect the cylinder from the direct impact of the ball and the sliding friction of the steel ball and the material, the inner wall of the cylinder is also equipped with a lining plate.



Technical Parameters

Model	Power (kw)	Feeding size (mm)	Ball load (t)	Weight (t)
Φ900*1800	18.5	10	1.5	4.6
Φ900*3000	22	10	2.7	5.6
Φ1200*2400	30	12	3	12
Φ1200*3000	37	12	3.5	12.8
Φ1200*4500	55	12	5	13.8
Φ1500*3000	75	16	7.5	15.6
Φ1500*4500	110	16	7.5	21
Φ1500*5700	130	16	12	25
Φ1830*3000	130	18	11	28
Φ1830*4500	155	18	15	32
Φ1830*6400	210	18	21	34
Φ1830*7000	245	18	23	36
Φ2100*3000	210	20	19	43
Φ2100*4500	245	20	24	46
Φ2100*7000	280	20	26	50
Φ2200*6500	380	22	35	52.8
Φ2200*7000	380	22	35	54
Φ2200*7500	380	22	35	56
Φ2400*3000	245	24	27	60
Φ2400*4500	320	24	30	65
Φ2400*7000	475	24	54	71
Φ2700*3600	400	25	39	83
Φ2700*4000	400	25	40	85
Φ2700*4500	430	25	48	89
Φ2700*6000	630	25	53	93
Φ3200*3600	560	30	52	120
Φ3200*4500	800	30	65	125
Φ3200*5400	800	30	81.6	130
Φ3000*11000	1250	30	95-100	155
Φ3600*4000	800	35	75	185

Customer Site



MR CHINA, YOUR MOST LOYAL PARTNER!

