DING BO

HGM Ultrafine Grinding Mill

Capacity:0.5-25t/h
Max. Input Size: 20mm

Craftsmanship
Shape the reputation of trust

Features

Ultrafine Powder

The fineness can be adjusted between 325-2500 meshes, and the screening rate can achieve D97⩽5μm once.

Higher Capacity

With the same fineness and power, the capacity is 40% higher than that of jet grinding mill and stirred mill, and the yield is twice as large as that of ball mill.

Continuous Operation

The lubricating device is installed outside of the main shaft, so that lubrication without shutdown can be realized, and the production can be continued for 24h.

Eco-friendly Production

Silencer and noise elimination room are configured to reduce noises. Besides, the operation is organized by conforming to national environmental protection standards.

Sufficient Supply of Spare Parts, Worry-free Operation

Dingbo is the manufacturer, we take responsibility for every machine produced by ourselves. We can offer customers technical services about products and original spare parts to ensure the worry-free operation.

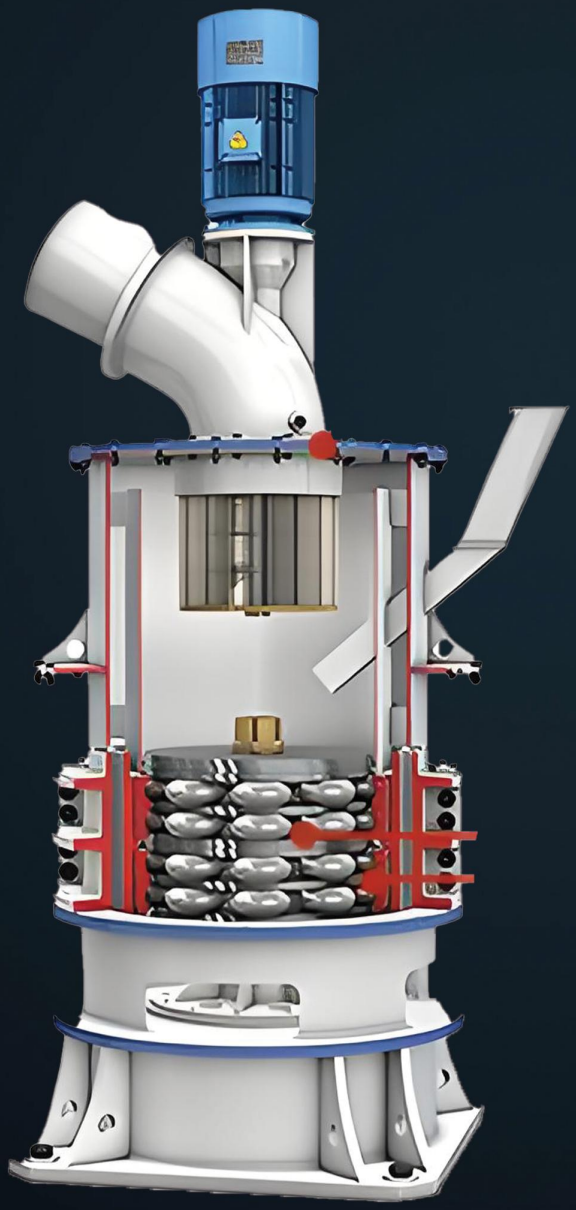
Application

This mill is mainly applied to the material processing of metallurgy, building materials, chemical engineering, mining and other industries.

Material

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%.

HGM Ultrafine Grinding Mill is widely used for superfine powder production. It is suitable to grind soft or medium-hard materials whose moisture is below 6%.



Technical Parameters

Parameters of HGM Series Ultrafine Grinding Mill							
Model	HGM80	HGM80A	HGM90L	HGM100L-Ⅱ	HGM100P	HGM125L	HGM1680L
Ring Diameter(mm)	800	800	900	1000	1000	1250	1680
Ring Number (PCS)	3	3	4	4	4	4	4
Input Size (mm)	≤10	≤10	≤10	≤15	≤15	≤20	≤20
Output Size (mesh)	150-3000	150-3000	150-3000	150-3000	150-3000	150-2000	150-1500
Capacity (t/h)	0.5-6	0.5-6	0.8-7	1.2-10.5	1.2-11.5	2.5-20.5	5-45
Outlet Size L*W*H (mm)	8605*4139*6050	10454*3393*6626	11735*3952*7525	14507*3633*7562	14362*4200*7562	19261*4406*8591	25067*5414*9007
Main motor power (kw)	75	75	45*2	132	75×2	185	315

Notice: **Any change of technical data shall not be advised additionally.**

WORKING PRINCIPLE

After hammer crushers break large bulky materials to smaller ones, elevator works to send materials to material bin. Next, materials are sent to the grinding mill evenly and they would fall onto the dispersing plate firstly. When the grinding mill runs, dozens of grinding rollers start to rotate and roll. Under the action of centrifugal force, materials on the dispersing plate are then thrown to the rim and drop to the grinding chamber. In the circuit, materials would be squeezed and ground. After being ground several times, materials are blown into the powder selector by airflow. Under the action of the impeller of powder selector, materials which fail to meet fineness would be sent back to grinding chamber to get another grinding while qualified powders would be collected by cyclone powder collector and discharged from the bottom as finished products. Some remaining powders would be collected by impulse dust remover and they may stick to the surface of filler-bag. So, next, high-pressure airflow controlled by the impulse valve blows the filler-bag to make it swell and shake violently. This sudden shake can help kick off materials on the filler-bag and collect them as finished products. After filtering, the airflow would be discharged to the air. This system adopts an open circuit and runs under negative pressure.

DING BO

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