

Micro Powder Mill

Operating Instruction

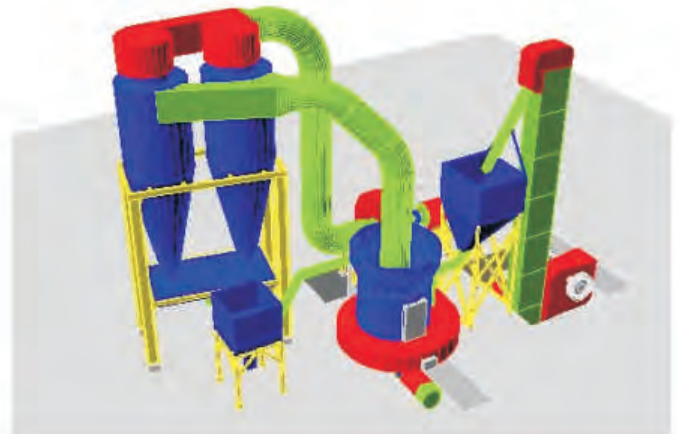
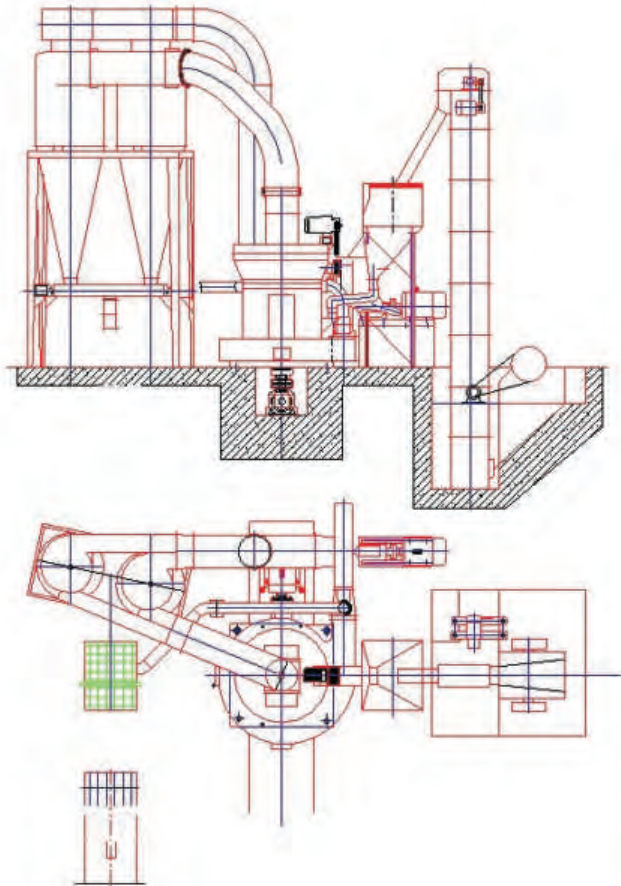


Henan Shibo Heavy Machinery Co., Ltd.

Overview

Micro Powder Mill or high-strength mill is applicable for grinding 280 kinds of non flammable and non-explosive materials in mining, metallurgy, chemical industry, building materials or other

industries like barite, limestone, ceramic, slag whose Mohs hardness is not over 9.3 degree and humidity below 6%.



Features

1. Under the same dynamic condition, its output improves by 10-20% compared with other mills. The ground pressure of grinder roll to materials improves 800-1200kg under the impact of high

pressure spring.

2. Mineral materials whose Mohs hardness is less than 9.3 degree can be crushed and processed.

Specification of Product Granularity

- 1 Under the same dynamic condition, its output improves by 10-20% compared with other mills. The ground pressure of grinder roll to materials improves 800-1200kg under the impact of high pressure spring.
- 2 Mineral materials whose Mohs hardness is less than 9.3 degree can be crushed and processed.
- 3 Its finished products particles size has a wide range, the largest grain diameter reaches up to 0.613 mm (30 mesh) while the general size is up to 0.033 mm (425 mesh), few materials of which can reach 0.013 mm (1000 mesh).

Characteristics

Processing ability: 4-55

Feeding size: ≤ 25 mm

Product granularity: 0.125-0.033 mm

Rotate speed of central shaft: 130-180 r/min

Applied material: barite, limestone, ceramic, slag, etc

Working principle

Inside the powder grinding mill, there is a high pressure spring with 1000-1500 kilos of pressure on the cradle of the grinding roller. When this machine begins to work, the grinding roller rotates around the principal axis, and under the high pressure spring and centrifugal force, the grinding roller will roll to the grinding ring, and the pressure is 1.2 times higher than that of Raymond mill, so that the output is greatly improved. When the materials to be ground go

into the grinding chamber, they are scooped up by the scraper knife and sent to the space between the grinding roller and the grinding ring for grinding, and the ground powders are brought to the analytical engine with the recirculating air of the blower, and the qualified fine powders flow into the cyclone powder collector with the air flow to become final products and the coarse powders will fall to the grinding mill for re-grinding.





Powder Production Line

Powder production line is made up of jaw crusher, hopper, bucket elevator, classifier, dust collector, high-pressure mill, reducer, vibrating feeder, air-blower, etc.

Technical data

Type							
Parameter	High-strength97	High-strength93	High-strength91	High-strength87	High-strength76	High-strength66	High-strength62
Feeding size (mm)	≤25	≤25	≤25	≤25	≤20	≤15	≤15
Size of finished product (mm)	0.125-0.033	0.613-0.033	0.125-0.033	0.125-0.033	0.125-0.033	0.125-0.044	0.125-0.044
Shift output of different material fineness (t)	4-52	3.5-40	3-36	2.8-33	1.5-25	1-20	0.6-9
Rotate speed of central shaft (r/min)	130	140	148	161	170	190	274
Diameter of pulverizing ring (mm)	1050	1006	973	907.5	850	725	525

Diameter of pulverizing roller (mm)	310	300	300	270	260	210	150
Height of pulverizing roller (mm)	170	160	160	150	150	150	100
Main Motor	Y225S-4-37	Y225M-8-30	Y225M-8-22	Y200L-8-22	Y200L-8-1805	Y200L-8-15	Y200L-6-7.5
Fan Motor	Y200L-4-37	Y180M-2-22	Y180L-4-22	Y180L-4-18.5	Y180L-4-15	Y160M-4-11	Y160M-4-5.5
Analyzer motor	Yc122-4A-5.5	Y112M-6-3	Y112M-6-2.2	Y112m-6-2.2	Y112m-6-2.2	Y112m-6-2.2	Y112m-6-1.1





HENAN SHIBO
HEAVY INDUSTRIES



China Largest Mining
Machinery Manufacturer

✉ E-mail: sales@sbecrusher.com

☎ Telephone: +86-371-55912969

📍 Address: Wulong Industrial Park,
Zhengzhou City, Henan Province,
China