

High Pressure Grinding Mill for Powder Production

The High Pressure Grinding Mill is engineered for efficient powder production. It consists of a main engine, air blower, and fine analytical engine.



Product Overview

High-Efficiency Powder Production

This high-pressure grinding mill is a comprehensive powder-making system comprising a main engine, air blower, and a super-fine analytical engine. Designed for versatile industrial applications, it features integrated cyclone and bag-type dust collectors to ensure clean operation. The system is highly customizable, with optional auxiliary facilities like elevators, storage bins, and electronic control cabinets to meet specific production requirements.

Key Performance Metrics

Performance Highlights

12 t

Max Shift Output

9.3

Max Mohs Hardness

6 %

Max Moisture Content

System Components

Standard Components

- Main Engine
- Air Blower
- Super Fine Analytical Engine
- Finished Product Cyclone Dust Collector
- Bag Type Dust Collector
- Connecting Air Pipe

Optional Auxiliaries

Elevator, Storage Bin, Electronic Control Cabinet, Pulverized Coal Feeder, Crusher

Technical Specifications

Model Comparison

Parameter	Micropowder93	Micropowder92	Micropowder87	Micropowder76	Micropowder66
Max Feeding Size (mm)	d25	d25	d20	d20	d15
Finished Product Size (mm)	0.125-0.010	0.125-0.033	0.125-0.010	0.125-0.033	0.125-0.010
Shift Output (t)	0.8-12	0.6-10	0.4-8	0.3-6	0.2-4
Central Shaft Speed (r/min)	140	148	160	170	180
Pulverizing Ring Dia. (mm)	1006	973	907.5	850	725

Motor Specifications

Motor Configurations

Component	Micropowder93	Micropowder87	Micropowder66
Main Motor	Y225M-8-30	Y225M-8-22	Y225M-8-15
Fan Motor	Y160E-2-22	Y160L-4-18.5	Y160L-4-11
Analyzer Motor	YCT180M-4A-4	YCT180M-4A-4	YCT160-4B-3

Material Compatibility

Suitable Materials

Limestone • Calcite • Barite • Dolomite • Potassium Feldspar • Bentonite

Operational Principles



The high-pressure grinding system is engineered for processing minerals with Mohs hardness up to 9.3.

High-Pressure Spring System

The grinding roller is mounted on a hanging bracket and pressed against the interior surface of the grinding ring via a high-pressure spring system. As the motor drives the transmission, the scraper knife and grinding roller rotate simultaneously. Fineness is precisely controlled by adjusting the rotating speed of the analytical engine's impeller.