Mineral Grinding Production Line

This production line is mainly used in the grinding process for metallurgy, building materials, chemicals, and mining. It is applicable to power processing of various mineral materials with hardness less than 8 Mohs.

Overview

Industrial Mineral Grinding Line

This production line is designed for the efficient grinding and processing of various mineral materials in industries such as metallurgy, construction, and chemicals. The system features a robust, multi-stage process including jaw crushing, bucket elevation, grinding, and airflow-based classification. It is engineered to handle non-flammable and non-explosive minerals with a Mohs hardness of less than 8 and moisture content below 6%.

Technical Capabilities

Suitable Materials	Feldspar, Calcite, Talc, Barite, Fluorite, Rare Earth, Marble, Ceramics, Bauxite, Manganese, Phosphate Rock, Quartz Sand, Cement Clinker, Activated Carbon, Clay, Coal Gangue, Gypsum, Silicon Carbide
Max Moisture Content	6 %
Max Mohs Hardness	8

System Components

Core Components

- Host machine
- Analysis machine
- Piping device
- Blower
- Jaw crusher
- Bucket elevator
- Storage hopper
- Electromagnetic vibrating feeder
- Distribution cabinet

Process Flow Overview

Stage	Function
Primary Crushing	Jaw crusher reduces large bulk materials
Feeding	Elevator and vibrating feeder supply grinding chamber
Grinding	Material processed in the host grinding chamber
Classification	Analysis machine separates qualified fineness
Collection	Cyclone collector and tube cell discharge finished powder

Operational Features

Airflow System

Closed Recirculation • Positive/Negative Pressure • Dust Filtration