

Cement Grinding Station, 1 Million Tons Annual Output

This cement grinding station is engineered for an annual output of 1 million tons. It utilizes advanced grinding technology and efficient material handling systems to ensure high productivity.



ADDITIONAL IMAGES



Overview

High-Efficiency Cement Grinding Solution

This cement grinding station is engineered for a robust annual output of 1 million tons, utilizing advanced separate grinding technology for clinker and slag. The system integrates dual \downarrow 4.2m x 13m cement mills and high-efficiency powder concentrators to ensure stable production and superior product quality. Designed for low energy consumption and high yield, it offers a reliable solution for large-scale cement manufacturing operations.

Performance Metrics

Annual Output

1000000 Tons

Annual Production

Technical Configuration

Mill Dimensions

- Two \downarrow 4.2m x 13m cement mills
- Combined grinding process
- Separate clinker and slag grinding technology

Separation Equipment

K-type Internal Circulation, Ultra-fine Special High-efficiency Concentrator, Dispersing Classifier

Process Design

Clinker Grinding Workflow

- Measurement by belt weigher
- Magnetic metal removal via iron remover
- Particle size classification (2.5mm threshold)
- Fly ash metering and integration

Slag Grinding Workflow

- Gypsum, dry slag, and fly ash measurement
- Air box pulse bag type dust removal
- Three-stage air separation (Primary, Secondary, Tertiary)

Material Handling

Conveying & Mixing Systems

Equipment Type	Function
Spiral Metering Scale	Accurate flow stabilization and measurement
Air Conveying Chute	Fluidized transport and continuous mixing
Belt Conveyor	Initial material transport to elevators

Environmental Control

Dust Management

Air Box Pulse Bag Filter • Mill Tail Dust Remover • Exhaust Fan Purification