

Grinding Ball Manufacturing Machine

This automated machine is designed for manufacturing grinding balls with diameters ranging from 40-130mm. It employs a metal mold casting process to produce steel grinding balls.



Overview

Automated Grinding Ball Production Line

This advanced, fully automated manufacturing line is engineered for the high-efficiency production of cast grinding balls essential for mining, cement plants, power stations, and the chemical industry. The system integrates multiple specialized machines, including core shooting, pouring, and mold-handling units, to streamline the entire casting process. Designed for operational flexibility, it supports simultaneous production of four different ball sizes and features remote diagnostic capabilities to maximize uptime and service quality.

Performance Metrics

Annual Capacity

15000 ton/year

Max Capacity

5000 ton/year

Min Capacity

Pouring Line Speed

25 seconds

System Components

Included Components

- Open mold machine
- Close mold machine
- Turnover machine
- Residual sand cleaning machine
- Core shooting machine
- Reversing machine
- Pusher mold machine
- Blow sand machine
- Pouring machine
- Roll gang

Operational Features

Key Advantages

Smooth roller operation • Low labor requirement • Non-interfering production lines • Multi-size concurrent production • Remote WiFi diagnostics

Operating Personnel

3-4 operators for the entire line

Process Workflow

Technological Process

Step	Action
1	Preheat iron mould
2	Shoot sand to mould
3	Check and adjust sand
4	Pouring molten metal
5	Open mold and extract balls
6	Clean residual sand
7	Re-moulding

Applications

Target Industries

Mining, Cement Plants, Power Stations, Chemical Industry