

Dry Process Cement Production Line

This production line utilizes a dry process for efficient cement manufacturing. It integrates raw material handling, grinding, clinker production, and cement grinding stages.



ADDITIONAL IMAGES



Overview

Advanced Dry Process Cement Production

This modern dry process cement production line is engineered for high-efficiency manufacturing in small to large-scale cement plants. By utilizing an outside kiln precalciner and advanced waste heat recovery systems, it significantly reduces electricity and heat consumption. The closed-loop design ensures strict environmental compliance, keeping ambient dust pollution levels below 50mg/Nm³.

Certifications

ISO9000, CE

Performance Metrics

Available Production Capacities

- 600 t/d
- 1500 t/d
- 2500 t/d
- 3000 t/d
- 5000 t/d
- 6000 t/d

Dust Emission Limit

50 mg/Nm³

Ambient Dust Pollution

Process Flow

Production Process Steps

Stage	Description
Crushing & Pre-homogenizing	Primary processing of limestone, clay, and coal using stacking technology.
Raw Meal Preparing	Grinding and preparation of raw materials.
Raw Meal Homogenizing	Stabilization of meal for consistent calcination.
Preheating & Decomposing	Heat exchange with kiln gases to shorten rotary kiln length.
Clinker Calcining	Solid phase reactions in the rotary kiln.
Cement Grinding	Final grinding to achieve required granule size.
Cement Packaging	Preparation for bulk or bag transport.