

Cement Rotary Kiln

The cement rotary kiln is a large-scale cylindrical vessel used for high-temperature processing. It facilitates the transformation of raw materials into cement clinker through controlled rotation and heating.



Overview

High-Capacity Cement Rotary Kiln

This large-scale rotary kiln is a central component in modern cement production, designed to facilitate the chemical transformation of raw materials into high-quality cement clinker. The cylindrical kiln is engineered for slow, continuous rotation on heavy-duty rollers to ensure uniform heating and processing. Constructed from high-temperature resistant steel, it is built to withstand the extreme thermal demands of industrial cement plants.

Technical Dimensions

Kiln Size

4.2 m
Diameter

50 m
Length

Mechanical Design

Support Mechanism

- Multiple sets of support rollers
- Slow-rotation drive system
- Thermal expansion accommodation

Kiln Geometry	Cylindrical
Shell Material	High-temperature resistant steel

Process Integration

Integrated Systems	Preheaters, Dust Collection Systems, Clinker Cooling
Primary Function	Heating and chemical transformation of raw materials into cement clinker