AAC Block Manufacturing System

This automated system is designed for manufacturing lightweight concrete blocks. It integrates batching, mixing, molding, cutting, autoclaving, and packaging processes for efficient and sustainable AAC block production.

Overview

High-Efficiency AAC Block Production

The AAC Block Manufacturing System is a comprehensive, automated production line designed to produce autoclaved aerated concrete blocks. By utilizing fly ash, lime, sand, and cement as primary materials, the system delivers lightweight, energy-efficient building materials. The process integrates advanced batching, precision cutting, and autoclaving to ensure consistent density, thermal insulation, and structural quality for modern construction needs.

Key Features

Raw Materials

- Fly ash
- Lime slag or sand
- Cement
- Lime
- Aluminum powder (foaming agent)

Material Benefits	Lightweight, Heat Preservation, Energy Saving, Waste Recycling, Environmental Protection

Production Components

System Components

Component ID	Equipment Name
01	Belt Conveyor
02	Batching Machine
05	Wet Ball Mill
10	Dry Ball Mill
14	Slurry Storage Tank
19	Vertical Cutting Machine
20	Horizontal Cutting Machine
23	Autoclave
25	Block Clamping Machine

Process Flow

Production Procedure

- Raw Material Preparation
- Batching and Mixing
- Casting
- Pre-curing
- Turning and Demoulding
- Horizontal and Vertical Cutting
- Autoclave Curing
- Cubing and Packaging