Rotary Drum Cooler for Fertilizer Production

The rotary drum cooler, also known as a monocular cooler, integrates with drying equipment in compound fertilizer production to cool materials. It enhances cooling efficiency, reduces labor, increases productivity, and removes moisture from powder and particle materials.

Product Overview

A rotary cooler designed for cooling materials in various industrial processes, featuring a large cylindrical drum supported by rollers.

Rotary Drum Cooler Overview

The Rotary Drum Cooler, also known as a monocular cooler, is a specialized industrial machine designed to efficiently cool fertilizers and other powder or granular materials. By integrating with drying equipment, it helps reduce material temperature and moisture content while increasing overall productivity. Its robust design features a rotating inclined cylinder with internal shoveling plates, ensuring high cooling efficiency and reliable performance in demanding industrial environments.

Key Features

Key Advantages	Compact Structure, High Efficiency, Reliable Performance, Good Adaptability, Reduced Labor Strength

Technical Specifications

Cooling Process Metrics

1 Cold Air
Cooling Agent

Operating Components

- Rotating inclined cylinder
- Internal shoveling plates
- Charging pipe
- Cyclone dust collector
- Optional bag filter or wet dust catcher

Operational Principles

Process Flow

Step	Description
Feeding	Materials are lifted via conveyor to the charging pipe.
Cooling	Material moves through the inclined rotating cylinder against a cold air flow.
Discharge	Cooled materials are sent out via belt or screw conveyor.
Dust Handling	Air and dust are collected via cyclone or optional filter systems.