Eddy Current Brake

The eddy current brake is a type of brake that uses the principle of electromagnetic induction to generate braking force. When the electromagnets are energized, they create a magnetic field that interacts with the rotating metal, inducing eddy currents within the metal.

Product Overview

High-Efficiency Electromagnetic Braking

The Eddy Current Brake utilizes the principle of electromagnetic induction to deliver smooth, reliable, and controllable braking force. Designed for high-speed industrial and mechanical applications, this system converts kinetic energy into eddy currents to oppose rotation without mechanical wear. This solution offers superior precision for demanding environments like dynamometers and high-speed rail systems.

Technical Principles

Core Components

- Rotating metal disc or drum
- Set of electromagnets

Operating Mechanism	Electromagnetic induction generating opposing magnetic fields to induce braking force.

Applications

Typical Industrial Use Cases	High-speed trains, Roller coasters, Dynamometers

Performance

Key Performance Attributes

1 Smooth	**2 High**
Braking Action	Control Level

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