

Air Caster System for Heavy Load Movement

Air casters use compressed air to create a thin layer of air between the load and the floor, allowing for almost frictionless movement. These systems include multiple air bearings connected to a control unit, which regulates the airflow to each bearing.



Product Overview

Innovative Load Movement Technology

The Air Caster System utilizes advanced compressed air technology to create a frictionless air film between the load and the floor. This unique design allows for exceptional maneuverability, enabling heavy equipment to rotate in place with precision. The system is engineered for industrial environments where accurate positioning and effortless movement of heavy machinery are required.

Operational Characteristics

Handling Advantages

- Eliminates damage to floors
- Simplified heavy load positioning
- Quick pressure-controlled engagement
- Uniform load distribution

Key Features

Frictionless movement, In-place rotation, High maneuverability, Easy operation

Technical Principles

Operational Cycle

Stage	Action
Engagement	Air pressure creates air film
Movement	Frictionless gliding under load
Disengagement	Air source turned off; bag deflates
Stowing	Load rests securely on ground