

Air Bearing Casters for Heavy Load Transport

Air bearing casters are designed for moving heavy loads across smooth surfaces with minimal friction. Compressed air creates a thin layer between the load and the floor, enabling easy and precise movement in manufacturing and industrial settings.



ADDITIONAL IMAGES



Overview

Precision Heavy Load Transport

Air bearing casters, also known as air skates or air movers, utilize compressed air to create a frictionless cushion between the load and the floor. This system allows for omnidirectional movement of heavy, bulky, or delicate equipment with minimal effort. Designed for industrial environments, these systems provide low floor loading to prevent surface damage and ensure even weight distribution.

Technical Specifications

Standard Load Capacities

- 10 tons
- 16 tons
- 20 tons
- 32 tons
- 48 tons

Capacity Range

1 tons Minimum Capacity	50 tons Maximum Capacity
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Customization

Yes

System Components

System Architecture

Component	Function
Air Bearing Modules	Creates air film for floating the load
Control Unit	Regulates airflow and ensures even distribution
Pneumatic Hoses	Connects modules to the control unit

Core Components

Air bearing modules, Central control unit, Pneumatic hoses, Flexible diaphragm, Torus