

# 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

|                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>1 tons</b><br>Minimum Capacity | <b>50 tons</b><br>Maximum Capacity |
|-----------------------------------|------------------------------------|

### 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