

# Precision Air Bearing System for Heavy Load Movement

Air bearing systems enable the movement of heavy loads with precision and minimal friction. Utilizing a thin layer of air, they allow for smooth and controlled movement in multiple directions.



## Overview

### Precision Air Bearing System

This air bearing system is engineered for the movement of heavy loads with exceptional precision and minimal friction. By utilizing a thin layer of compressed air to float the load, the system enables smooth, omnidirectional movement, making it ideal for environments where traditional mechanical casters are unsuitable. The system is designed for high-sensitivity applications, ensuring stable and controlled transport for heavy machinery and delicate instruments.

## Technical Specifications

### System Components

- Air bearing modules
- Central control unit
- Pressure regulating valve
- Trachea connection system

### Operational Requirements

Compressed Air Required, Pressure Regulation, Leak-Free Connections

## Applications

### Industry Use Cases

Aerospace • Manufacturing • Research Facilities • Precision Instrument Handling