

Global Magnetic Suspension Bearing Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnetic Suspension Bearing market size is expected to reach \$ 663 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

A magnetic bearing is an electromechanical bearing system that uses magnetic forces to support and position a rotating shaft without physical contact. Unlike rolling-element bearings and fluid-film bearings, magnetic bearings allow the rotor to remain suspended within the stator during normal operation, reducing mechanical contact, friction losses and lubrication requirements. Industrial active magnetic bearing systems typically consist of radial bearings, axial bearings, position sensors, controllers, power electronics and auxiliary bearings. By continuously monitoring and adjusting the rotor position, these systems support stable operation of high-speed rotating equipment. Major applications include compressors, blowers, vacuum pumps, turbomachinery, high-speed motors and flywheel energy storage systems. The typical price is estimated at approximately USD 20,000?150,000 per system, with customized systems for large turbomachinery potentially exceeding USD 200,000 per system, while global annual sales are estimated at around 5,000?10,000 systems.

The upstream value chain of magnetic bearings primarily includes electromagnetic materials, permanent magnets, electrical steel laminations, coils, power semiconductors, position sensors, control chips, precision-machined components and bearing materials. Key technical capabilities also include electromagnetic design, rotor-dynamic analysis, control algorithm development and system integration. Midstream suppliers generally provide magnetic bearing components, controllers, complete bearing systems or integrated high-speed drive modules according to the rotational speed, load, process medium, installation space and reliability requirements of downstream

equipment. Major downstream markets include compressors and blowers, pumps and vacuum equipment, turbomachinery and power-generation equipment, high-speed motors and machine tool spindles, flywheel energy storage systems and other specialized rotating machinery.

The magnetic bearing market is characterized by high technical barriers and a strong degree of customization. Demand growth is primarily driven by the development of high-speed, oil-free, low-maintenance and digitally controlled equipment. Compared with conventional bearings, magnetic bearings can reduce friction losses, simplify lubrication systems and related auxiliary equipment, and enable condition monitoring and active control. Their adoption is therefore expanding across compressors, wastewater-treatment blowers, HVAC equipment, vacuum systems, energy equipment and flywheel energy storage systems. As magnetic bearings must be co-designed with high-speed motors, controllers and the overall machine architecture, market competition depends not only on bearing hardware performance but also on control algorithms, system integration capabilities, long-term operational reliability and application experience. With increasing demand for energy-efficient equipment and the broader adoption of high-speed rotating machinery, magnetic bearings are expected to expand from specialized high-end equipment into a wider range of industrial applications.

This report studies the global Magnetic Suspension Bearing production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnetic Suspension Bearing and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Magnetic Suspension Bearing that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnetic Suspension Bearing total production and demand, 2021-2032, (Units)

Global Magnetic Suspension Bearing total production value, 2021-2032, (USD Million)

Global Magnetic Suspension Bearing production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Magnetic Suspension Bearing consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Magnetic Suspension Bearing domestic production, consumption, key domestic manufacturers and share

Global Magnetic Suspension Bearing production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Units)

Global Magnetic Suspension Bearing production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Magnetic Suspension Bearing production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Magnetic Suspension Bearing market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SKF, Waukesha Bearings, Calnetix Technologies, MECOS, Synchrony, SpinDrive, KEBA Industrial Automation, EAAT GmbH Chemnitz, Foshan Genesis AMB Tech, KOYO Magnetic Bearing, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnetic Suspension Bearing market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Magnetic Suspension Bearing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetic Suspension Bearing Market, Segmentation by Type:

Active Magnetic Bearing, AMB

Passive Magnetic Bearing, PMB

Hybrid Magnetic Bearing

Global Magnetic Suspension Bearing Market, Segmentation by Load Direction:

Radial Magnetic Bearing

Axial Magnetic Bearing

Combined Radial-Axial Magnetic Bearing

Global Magnetic Suspension Bearing Market, Segmentation by Product Offering:

Magnetic Bearing Components

Magnetic Bearing System

Integrated Magnetic Bearing Drive Module

Global Magnetic Suspension Bearing Market, Segmentation by Application:

Compressors and Blowers

Pumps and Vacuum Equipment

Turbomachinery and Power Generation Equipment

High-speed Motors and Machine Tool Spindles

Flywheel Energy Storage Systems

Others

Companies Profiled:

SKF

Waukesha Bearings

Calnetix Technologies

MECOS

Synchrony

SpinDrive

KEBA Industrial Automation

EAAT GmbH Chemnitz

Foshan Genesis AMB Tech

KOYO Magnetic Bearing

MUTECS

Kandra (Shenzhen) New Energy Technology

Key Questions Answered:

1. How big is the global Magnetic Suspension Bearing market?

2. What is the demand of the global Magnetic Suspension Bearing market?
3. What is the year over year growth of the global Magnetic Suspension Bearing market?
4. What is the production and production value of the global Magnetic Suspension Bearing market?
5. Who are the key producers in the global Magnetic Suspension Bearing market?
6. What are the growth factors driving the market demand?

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