

Magnetic Levitation Bearingless Pump Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Type (Electromagnetic Magnetic Levitation Pumps, Electrodynamic Magnetic Levitation Pumps), By Application (Aerospace, Automotive, Energy & Power Generation, Water & Wastewater Treatment), By Technology (Active Magnetic Bearing Technology, Passive Magnetic Bearing Technology), By Region, By Competition, 2020-2030F

https://marketpublishers.com/r/MAA6A538CA8BEN.html

Date: June 2025 Pages: 180 Price: US\$ 4,500.00 (Single User License) ID: MAA6A538CA8BEN

Abstracts

Market Overview

The Global Magnetic Levitation Bearingless Pump Market was valued at USD 850.67 Million in 2024 and is projected to reach USD 1675.21 Million by 2030, growing at a CAGR of 11.79%. This market centers on pumps that employ magnetic levitation to achieve contactless impeller operation, removing the need for mechanical bearings and seals. These pumps reduce friction and wear while enhancing reliability, cleanliness, and energy efficiency. Ideal for applications requiring contamination-free and lowmaintenance solutions, such as in pharmaceuticals, semiconductors, and cryogenics, magnetic levitation pumps support high-speed operations and the safe handling of corrosive or hazardous fluids. The growing emphasis on industrial automation, coupled with stringent environmental regulations and demand for operational efficiency, is driving the adoption of this technology across various industries, including oil and gas, power generation, water treatment, and food processing.



Key Market Drivers

Advancements in Magnetic Bearing Technology

The continual evolution of magnetic bearing systems is a major growth driver for the magnetic levitation bearingless pump market. Breakthroughs in superconducting materials and high-performance magnets have led to more compact and powerful pumps capable of efficient operation in high-speed, high-pressure environments. These improvements make the technology particularly suitable for sectors such as aerospace, semiconductors, and medical equipment. The ability to minimize mechanical wear, reduce maintenance costs, and extend equipment life has strengthened the appeal of magnetic bearing technology. These advancements are enabling a new generation of pumps that meet demanding operational standards while offering long-term cost and performance advantages.

Key Market Challenges

High Initial Investment and Complex Technology Integration

The adoption of magnetic levitation bearingless pumps is hindered by high upfront costs and the complex integration requirements associated with the technology. These systems demand precision engineering and advanced control systems, significantly elevating capital expenditures. Integration into legacy systems often requires customized solutions and specialized engineering expertise, increasing both time and risk for industrial operators. Moreover, the lack of standardized components and protocols leads to extended implementation timelines and higher overall costs. Smaller businesses and capital-constrained industries may delay or avoid adopting this technology due to these financial and operational barriers. Workforce training and technological familiarity are also limited, slowing broader market penetration.

Key Market Trends

Technological Advancements Enhancing Performance and Efficiency

Ongoing technological innovation is driving notable improvements in the performance and versatility of magnetic levitation pumps. Developments in materials science have produced components with higher corrosion resistance and durability, making them more suitable for harsh operating environments. At the same time, the integration of



advanced control algorithms and sensor technologies enables real-time monitoring, predictive maintenance, and operational optimization. These features allow the pumps to manage complex fluid properties, operate at higher speeds, and meet the stringent performance requirements of industries such as pharmaceuticals and semiconductors. As industries seek to align with sustainability and efficiency goals, these advancements are catalyzing broader adoption of bearingless pump systems across high-demand sectors.

Key Market Players

Levitronix GmbH

Ebara Corporation

Flowserve Corporation

Grundfos Holding A/S

Sulzer Ltd.

Siemens AG

Hitachi Metals, Ltd.

Wilo SE

Schneider Electric SE

Yaskawa Electric Corporation

Report Scope:

In this report, the Global Magnetic Levitation Bearingless Pump Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Magnetic Levitation Bearingless Pump Market, By Type:



Electromagnetic Magnetic Levitation Pumps

Electrodynamic Magnetic Levitation Pumps

Magnetic Levitation Bearingless Pump Market, By Application:

Aerospace

Automotive

Energy & Power Generation

Water & Wastewater Treatment

Magnetic Levitation Bearingless Pump Market, By Technology:

Active Magnetic Bearing Technology

Passive Magnetic Bearing Technology

Magnetic Levitation Bearingless Pump Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany



Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global

Magnetic Levitation Bearingless Pump Market - Global Industry Size, Share, Trends, Opportunity, and Forecast,...



Magnetic Levitation Bearingless Pump Market.

Available Customizations:

Global Magnetic Levitation Bearingless Pump Market report with the given Market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional Market players (up to five).



Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.2.1. Markets Covered
- 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
- 2.5.1. Secondary Research
- 2.5.2. Primary Research
- 2.6. Approach for the Market Study
- 2.6.1. The Bottom-Up Approach
- 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
- 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL MAGNETIC LEVITATION BEARINGLESS PUMP MARKET OUTLOOK

5.1. Market Size & Forecast



5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Type (Electromagnetic Magnetic Levitation Pumps, Electrodynamic Magnetic Levitation Pumps)

5.2.2. By Application (Aerospace, Automotive, Energy & Power Generation, Water & Wastewater Treatment)

5.2.3. By Technology (Active Magnetic Bearing Technology, Passive Magnetic Bearing Technology)

5.2.4. By Region

5.3. By Company (2024)

5.4. Market Map

6. NORTH AMERICA MAGNETIC LEVITATION BEARINGLESS PUMP MARKET OUTLOOK

- 6.1. Market Size & Forecast
- 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By Application
 - 6.2.3. By Technology
 - 6.2.4. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Magnetic Levitation Bearingless Pump Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Type
 - 6.3.1.2.2. By Application
 - 6.3.1.2.3. By Technology
 - 6.3.2. Canada Magnetic Levitation Bearingless Pump Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type
 - 6.3.2.2.2. By Application
 - 6.3.2.2.3. By Technology
 - 6.3.3. Mexico Magnetic Levitation Bearingless Pump Market Outlook
 - 6.3.3.1. Market Size & Forecast



- 6.3.3.1.1. By Value
- 6.3.3.2. Market Share & Forecast
- 6.3.3.2.1. By Type
- 6.3.3.2.2. By Application
- 6.3.3.2.3. By Technology

7. EUROPE MAGNETIC LEVITATION BEARINGLESS PUMP MARKET OUTLOOK

- 7.1. Market Size & Forecast
- 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By Application
 - 7.2.3. By Technology
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Magnetic Levitation Bearingless Pump Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By Technology
 - 7.3.2. United Kingdom Magnetic Levitation Bearingless Pump Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By Technology
 - 7.3.3. Italy Magnetic Levitation Bearingless Pump Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Application
 - 7.3.3.2.3. By Technology
 - 7.3.4. France Magnetic Levitation Bearingless Pump Market Outlook
 - 7.3.4.1. Market Size & Forecast



- 7.3.4.1.1. By Value
 7.3.4.2. Market Share & Forecast
 7.3.4.2.1. By Type
 7.3.4.2.2. By Application
 7.3.4.2.3. By Technology
 7.3.5. Spain Magnetic Levitation Bearingless Pump Market Outlook
 7.3.5.1. Market Size & Forecast
 7.3.5.1.1. By Value
 7.3.5.2. Market Share & Forecast
 7.3.5.2.1. By Type
 7.3.5.2.2. By Application
 - 7.3.5.2.3. By Technology

8. ASIA-PACIFIC MAGNETIC LEVITATION BEARINGLESS PUMP MARKET OUTLOOK

- 8.1. Market Size & Forecast
- 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Application
 - 8.2.3. By Technology
 - 8.2.4. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Magnetic Levitation Bearingless Pump Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By Technology
 - 8.3.2. India Magnetic Levitation Bearingless Pump Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By Technology
 - 8.3.3. Japan Magnetic Levitation Bearingless Pump Market Outlook



- 8.3.3.1. Market Size & Forecast
- 8.3.3.1.1. By Value
- 8.3.3.2. Market Share & Forecast
- 8.3.3.2.1. By Type
- 8.3.3.2.2. By Application
- 8.3.3.2.3. By Technology
- 8.3.4. South Korea Magnetic Levitation Bearingless Pump Market Outlook
- 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
- 8.3.4.2. Market Share & Forecast
- 8.3.4.2.1. By Type
- 8.3.4.2.2. By Application
- 8.3.4.2.3. By Technology
- 8.3.5. Australia Magnetic Levitation Bearingless Pump Market Outlook
- 8.3.5.1. Market Size & Forecast
- 8.3.5.1.1. By Value
- 8.3.5.2. Market Share & Forecast
- 8.3.5.2.1. By Type
- 8.3.5.2.2. By Application
- 8.3.5.2.3. By Technology

9. SOUTH AMERICA MAGNETIC LEVITATION BEARINGLESS PUMP MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Application
 - 9.2.3. By Technology
 - 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Magnetic Levitation Bearingless Pump Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Application
 - 9.3.1.2.3. By Technology



- 9.3.2. Argentina Magnetic Levitation Bearingless Pump Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Application
 - 9.3.2.2.3. By Technology
- 9.3.3. Colombia Magnetic Levitation Bearingless Pump Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Application
 - 9.3.3.2.3. By Technology

10. MIDDLE EAST AND AFRICA MAGNETIC LEVITATION BEARINGLESS PUMP MARKET OUTLOOK

- 10.1. Market Size & Forecast
- 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Application
 - 10.2.3. By Technology
 - 10.2.4. By Country
- 10.3. Middle East and Africa: Country Analysis
 - 10.3.1. South Africa Magnetic Levitation Bearingless Pump Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By Application
 - 10.3.1.2.3. By Technology
 - 10.3.2. Saudi Arabia Magnetic Levitation Bearingless Pump Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Application



10.3.2.2.3. By Technology

- 10.3.3. UAE Magnetic Levitation Bearingless Pump Market Outlook
- 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
- 10.3.3.2. Market Share & Forecast
- 10.3.3.2.1. By Type
- 10.3.3.2.2. By Application
- 10.3.3.2.3. By Technology
- 10.3.4. Kuwait Magnetic Levitation Bearingless Pump Market Outlook
- 10.3.4.1. Market Size & Forecast
- 10.3.4.1.1. By Value
- 10.3.4.2. Market Share & Forecast
- 10.3.4.2.1. By Type
- 10.3.4.2.2. By Application
- 10.3.4.2.3. By Technology
- 10.3.5. Turkey Magnetic Levitation Bearingless Pump Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Type
 - 10.3.5.2.2. By Application
 - 10.3.5.2.3. By Technology

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. COMPANY PROFILES

- 13.1. Levitronix GmbH
 - 13.1.1. Business Overview
 - 13.1.2. Key Revenue and Financials



- 13.1.3. Recent Developments
- 13.1.4. Key Personnel/Key Contact Person
- 13.1.5. Key Product/Services Offered
- 13.2. Ebara Corporation
- 13.3. Flowserve Corporation
- 13.4. Grundfos Holding A/S
- 13.5. Sulzer Ltd.
- 13.6. Siemens AG
- 13.7. Hitachi Metals, Ltd.
- 13.8. Wilo SE
- 13.9. Schneider Electric SE
- 13.10. Yaskawa Electric Corporation

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER



I would like to order

Product name: Magnetic Levitation Bearingless Pump Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Type (Electromagnetic Magnetic Levitation Pumps, Electrodynamic Magnetic Levitation Pumps), By Application (Aerospace, Automotive, Energy & Power Generation, Water & Wastewater Treatment), By Technology (Active Magnetic Bearing Technology, Passive Magnetic Bearing Technology), By Region, By Competition, 2020-2030F

Product link: https://marketpublishers.com/r/MAA6A538CA8BEN.html

Price: US\$ 4,500.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/MAA6A538CA8BEN.html</u>