

Global Magnetostrictive Position Sensors Market Research Report 2026(Status and Outlook)

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Abstracts

Magnetostrictive position sensors are devices that measure the position of a moving object with high accuracy by using the magnetostrictive effect. This effect refers to a phenomenon in which a material changes its physical dimensions in response to a magnetic field. In magnetostrictive position sensors, a magnetostrictive waveguide (typically made of a specialized alloy) is used. When a magnetic field is applied by a moving permanent magnet, the waveguide undergoes slight deformations that propagate along its length, generating a mechanical wave. The time it takes for the wave to propagate and reflect back is measured, and this time-of-flight measurement is used to calculate the position of the magnet relative to the sensor. Magnetostrictive position sensors offer several advantages, including high precision, reliability, and robustness in demanding environments. These sensors are typically used for linear or angular position measurements, making them highly versatile in a range of applications across multiple industries. Magnetostrictive position sensors are divided into two main types based on the type of movement being measured:

1. Linear Magnetostrictive Position Sensors: These sensors measure the linear displacement of an object, making them ideal for applications such as hydraulic cylinders, industrial machinery, and automated systems. These sensors are capable of measuring long distances, often several meters, and are well-suited for heavy-duty industrial environments where high durability and precision are required.
2. Rotary Magnetostrictive Position Sensors: These sensors are designed to measure the rotational position or angle of a moving object. They are used in applications such as motor feedback systems, robotics, and control systems, where accurate angular position feedback is essential for performance. Magnetostrictive sensors can be designed to offer various output formats, including analog (such as 4-20 mA or voltage signals) or digital (such as RS485, CAN, or Ethernet), which provides flexibility for integration into different control systems. The non-contact nature of magnetostrictive sensors allows them to avoid wear and tear,

leading to a longer lifespan compared to traditional position sensing technologies. These sensors are ideal for use in industries where environmental conditions may be harsh, such as in automotive, aerospace, robotics, and industrial automation. They are resistant to temperature changes, vibrations, dust, moisture, and other challenging factors, ensuring that they perform reliably in demanding industrial environments.

The global Magnetostrictive Position Sensors market size was estimated at USD 200.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Magnetostrictive Position Sensors market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Magnetostrictive Position Sensors market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Magnetostrictive Position Sensors market.

Global Magnetostrictive Position Sensors Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

MTS Sensors
BALLUFF
ASM Sensor
MEGATRON
TURCK
AMETEK Gemco
TSM SENSORS SRL
GEFRAN

Market Segmentation (by Type)

Analog Type
Digital Type

Market Segmentation (by Application)

Petroleum Industry
Chemical Industry
Pharmaceutical Industry
Food Industry
Other Industries

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of

MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Magnetostrictive Position Sensors Market

Overview of the regional outlook of the Magnetostrictive Position Sensors Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Magnetostrictive Position Sensors Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Magnetostrictive Position Sensors, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Magnetostrictive Position Sensors
- 1.2 Key Market Segments
 - 1.2.1 Magnetostrictive Position Sensors Segment by Type
 - 1.2.2 Magnetostrictive Position Sensors Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 MAGNETOSTRICTIVE POSITION SENSORS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Magnetostrictive Position Sensors Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Magnetostrictive Position Sensors Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 MAGNETOSTRICTIVE POSITION SENSORS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Magnetostrictive Position Sensors Product Life Cycle
- 3.3 Global Magnetostrictive Position Sensors Sales by Manufacturers (2020-2025)
- 3.4 Global Magnetostrictive Position Sensors Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Magnetostrictive Position Sensors Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Magnetostrictive Position Sensors Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Magnetostrictive Position Sensors Market Competitive Situation and Trends

- 3.8.1 Magnetostrictive Position Sensors Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Magnetostrictive Position Sensors Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 MAGNETOSTRICTIVE POSITION SENSORS INDUSTRY CHAIN ANALYSIS

- 4.1 Magnetostrictive Position Sensors Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF MAGNETOSTRICTIVE POSITION SENSORS MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Magnetostrictive Position Sensors Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Magnetostrictive Position Sensors Market
- 5.7 ESG Ratings of Leading Companies

6 MAGNETOSTRICTIVE POSITION SENSORS MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Magnetostrictive Position Sensors Sales Market Share by Type (2020-2025)

6.3 Global Magnetostrictive Position Sensors Market Size by Type (2020-2025)

6.4 Global Magnetostrictive Position Sensors Price by Type (2020-2025)

7 MAGNETOSTRICTIVE POSITION SENSORS MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Magnetostrictive Position Sensors Market Sales by Application (2020-2025)

7.3 Global Magnetostrictive Position Sensors Market Size (M USD) by Application (2020-2025)

7.4 Global Magnetostrictive Position Sensors Sales Growth Rate by Application (2020-2025)

8 MAGNETOSTRICTIVE POSITION SENSORS MARKET SALES BY REGION

8.1 Global Magnetostrictive Position Sensors Sales by Region

8.1.1 Global Magnetostrictive Position Sensors Sales by Region

8.1.2 Global Magnetostrictive Position Sensors Sales Market Share by Region

8.2 Global Magnetostrictive Position Sensors Market Size by Region

8.2.1 Global Magnetostrictive Position Sensors Market Size by Region

8.2.2 Global Magnetostrictive Position Sensors Market Size by Region

8.3 North America

8.3.1 North America Magnetostrictive Position Sensors Sales by Country

8.3.2 North America Magnetostrictive Position Sensors Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Magnetostrictive Position Sensors Sales by Country

8.4.2 Europe Magnetostrictive Position Sensors Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Magnetostrictive Position Sensors Sales by Region

8.5.2 Asia Pacific Magnetostrictive Position Sensors Market Size by Region

8.5.3 China Market Overview

- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Magnetostrictive Position Sensors Sales by Country
 - 8.6.2 South America Magnetostrictive Position Sensors Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Magnetostrictive Position Sensors Sales by Region
 - 8.7.2 Middle East and Africa Magnetostrictive Position Sensors Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 MAGNETOSTRICTIVE POSITION SENSORS MARKET PRODUCTION BY REGION

- 9.1 Global Production of Magnetostrictive Position Sensors by Region(2020-2025)
- 9.2 Global Magnetostrictive Position Sensors Revenue Market Share by Region (2020-2025)
- 9.3 Global Magnetostrictive Position Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Magnetostrictive Position Sensors Production
 - 9.4.1 North America Magnetostrictive Position Sensors Production Growth Rate (2020-2025)
 - 9.4.2 North America Magnetostrictive Position Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Magnetostrictive Position Sensors Production
 - 9.5.1 Europe Magnetostrictive Position Sensors Production Growth Rate (2020-2025)
 - 9.5.2 Europe Magnetostrictive Position Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Magnetostrictive Position Sensors Production (2020-2025)
 - 9.6.1 Japan Magnetostrictive Position Sensors Production Growth Rate (2020-2025)
 - 9.6.2 Japan Magnetostrictive Position Sensors Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Magnetostrictive Position Sensors Production (2020-2025)

9.7.1 China Magnetostrictive Position Sensors Production Growth Rate (2020-2025)

9.7.2 China Magnetostrictive Position Sensors Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 MTS Sensors

10.1.1 MTS Sensors Basic Information

10.1.2 MTS Sensors Magnetostrictive Position Sensors Product Overview

10.1.3 MTS Sensors Magnetostrictive Position Sensors Product Market Performance

10.1.4 MTS Sensors Business Overview

10.1.5 MTS Sensors SWOT Analysis

10.1.6 MTS Sensors Recent Developments

10.2 BALLUFF

10.2.1 BALLUFF Basic Information

10.2.2 BALLUFF Magnetostrictive Position Sensors Product Overview

10.2.3 BALLUFF Magnetostrictive Position Sensors Product Market Performance

10.2.4 BALLUFF Business Overview

10.2.5 BALLUFF SWOT Analysis

10.2.6 BALLUFF Recent Developments

10.3 ASM Sensor

10.3.1 ASM Sensor Basic Information

10.3.2 ASM Sensor Magnetostrictive Position Sensors Product Overview

10.3.3 ASM Sensor Magnetostrictive Position Sensors Product Market Performance

10.3.4 ASM Sensor Business Overview

10.3.5 ASM Sensor SWOT Analysis

10.3.6 ASM Sensor Recent Developments

10.4 MEGATRON

10.4.1 MEGATRON Basic Information

10.4.2 MEGATRON Magnetostrictive Position Sensors Product Overview

10.4.3 MEGATRON Magnetostrictive Position Sensors Product Market Performance

10.4.4 MEGATRON Business Overview

10.4.5 MEGATRON Recent Developments

10.5 TURCK

10.5.1 TURCK Basic Information

10.5.2 TURCK Magnetostrictive Position Sensors Product Overview

10.5.3 TURCK Magnetostrictive Position Sensors Product Market Performance

10.5.4 TURCK Business Overview

10.5.5 TURCK Recent Developments

10.6 AMETEK Gemco

10.6.1 AMETEK Gemco Basic Information

10.6.2 AMETEK Gemco Magnetostrictive Position Sensors Product Overview

10.6.3 AMETEK Gemco Magnetostrictive Position Sensors Product Market

Performance

10.6.4 AMETEK Gemco Business Overview

10.6.5 AMETEK Gemco Recent Developments

10.7 TSM SENSORS SRL

10.7.1 TSM SENSORS SRL Basic Information

10.7.2 TSM SENSORS SRL Magnetostrictive Position Sensors Product Overview

10.7.3 TSM SENSORS SRL Magnetostrictive Position Sensors Product Market

Performance

10.7.4 TSM SENSORS SRL Business Overview

10.7.5 TSM SENSORS SRL Recent Developments

10.8 GEFRAN

10.8.1 GEFRAN Basic Information

10.8.2 GEFRAN Magnetostrictive Position Sensors Product Overview

10.8.3 GEFRAN Magnetostrictive Position Sensors Product Market Performance

10.8.4 GEFRAN Business Overview

10.8.5 GEFRAN Recent Developments

11 MAGNETOSTRICTIVE POSITION SENSORS MARKET FORECAST BY REGION

11.1 Global Magnetostrictive Position Sensors Market Size Forecast

11.2 Global Magnetostrictive Position Sensors Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Magnetostrictive Position Sensors Market Size Forecast by Country

11.2.3 Asia Pacific Magnetostrictive Position Sensors Market Size Forecast by Region

11.2.4 South America Magnetostrictive Position Sensors Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Magnetostrictive Position Sensors by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Magnetostrictive Position Sensors Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Magnetostrictive Position Sensors by Type (2026-2035)

12.1.2 Global Magnetostrictive Position Sensors Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Magnetostrictive Position Sensors by Type (2026-2035)

12.2 Global Magnetostrictive Position Sensors Market Forecast by Application (2026-2035)

12.2.1 Global Magnetostrictive Position Sensors Sales (K Units) Forecast by Application

12.2.2 Global Magnetostrictive Position Sensors Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Magnetostrictive Position Sensors Market Size by Type (M USD)

Table 4. Global Magnetostrictive Position Sensors Market Size by Application

Table 5. Magnetostrictive Position Sensors Market Size Comparison by Region (M USD)

Table 6. Global Magnetostrictive Position Sensors Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Magnetostrictive Position Sensors Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Magnetostrictive Position Sensors Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Magnetostrictive Position Sensors Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Magnetostrictive Position Sensors as of 2025)

Table 11. Global Market Magnetostrictive Position Sensors Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Magnetostrictive Position Sensors Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Magnetostrictive Position Sensors Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Magnetostrictive Position Sensors Sales by Type (K Units)

Table 27. Global Magnetostrictive Position Sensors Market Size by Type (M USD)

Table 28. Global Magnetostrictive Position Sensors Sales (K Units) by Type (2020-2025)

Table 29. Global Magnetostrictive Position Sensors Sales Market Share by Type (2020-2025)

Table 30. Global Magnetostrictive Position Sensors Market Size (M USD) by Type (2020-2025)

Table 31. Global Magnetostrictive Position Sensors Market Share by Type (2020-2025)

Table 32. Global Magnetostrictive Position Sensors Price (USD/Unit) by Type (2020-2025)

Table 33. Global Magnetostrictive Position Sensors Sales (K Units) by Application

Table 34. Global Magnetostrictive Position Sensors Market Size by Application

Table 35. Global Magnetostrictive Position Sensors Sales by Application (2020-2025) & (K Units)

Table 36. Global Magnetostrictive Position Sensors Sales Market Share by Application (2020-2025)

Table 37. Global Magnetostrictive Position Sensors Market Size by Application (2020-2025) & (M USD)

Table 38. Global Magnetostrictive Position Sensors Market Share by Application (2020-2025)

Table 39. Global Magnetostrictive Position Sensors Sales Growth Rate by Application (2020-2025)

Table 40. Global Magnetostrictive Position Sensors Sales by Region (2020-2025) & (K Units)

Table 41. Global Magnetostrictive Position Sensors Sales Market Share by Region (2020-2025)

Table 42. Global Magnetostrictive Position Sensors Market Size by Region (2020-2025) & (M USD)

Table 43. Global Magnetostrictive Position Sensors Market Size by Region (2020-2025)

Table 44. North America Magnetostrictive Position Sensors Sales by Country (2020-2025) & (K Units)

Table 45. North America Magnetostrictive Position Sensors Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Magnetostrictive Position Sensors Sales by Country (2020-2025) & (K Units)

Table 47. Europe Magnetostrictive Position Sensors Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Magnetostrictive Position Sensors Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Magnetostrictive Position Sensors Market Size by Region (2020-2025) & (M USD)

Table 50. South America Magnetostrictive Position Sensors Sales by Country (2020-2025) & (K Units)

Table 51. South America Magnetostrictive Position Sensors Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Magnetostrictive Position Sensors Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Magnetostrictive Position Sensors Market Size by Region (2020-2025) & (M USD)

Table 54. Global Magnetostrictive Position Sensors Production (K Units) by Region(2020-2025)

Table 55. Global Magnetostrictive Position Sensors Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Magnetostrictive Position Sensors Revenue Market Share by Region (2020-2025)

Table 57. Global Magnetostrictive Position Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Magnetostrictive Position Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Magnetostrictive Position Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Magnetostrictive Position Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Magnetostrictive Position Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. MTS Sensors Basic Information

Table 63. MTS Sensors Magnetostrictive Position Sensors Product Overview

Table 64. MTS Sensors Magnetostrictive Position Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. MTS Sensors Business Overview

Table 66. MTS Sensors SWOT Analysis

Table 67. MTS Sensors Recent Developments

Table 68. BALLUFF Basic Information

Table 69. BALLUFF Magnetostrictive Position Sensors Product Overview

Table 70. BALLUFF Magnetostrictive Position Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. BALLUFF Business Overview

Table 72. BALLUFF SWOT Analysis

- Table 73. BALLUFF Recent Developments
- Table 74. ASM Sensor Basic Information
- Table 75. ASM Sensor Magnetostrictive Position Sensors Product Overview
- Table 76. ASM Sensor Magnetostrictive Position Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. ASM Sensor Business Overview
- Table 78. ASM Sensor SWOT Analysis
- Table 79. ASM Sensor Recent Developments
- Table 80. MEGATRON Basic Information
- Table 81. MEGATRON Magnetostrictive Position Sensors Product Overview
- Table 82. MEGATRON Magnetostrictive Position Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. MEGATRON Business Overview
- Table 84. MEGATRON Recent Developments
- Table 85. TURCK Basic Information
- Table 86. TURCK Magnetostrictive Position Sensors Product Overview
- Table 87. TURCK Magnetostrictive Position Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. TURCK Business Overview
- Table 89. TURCK Recent Developments
- Table 90. AMETEK Gemco Basic Information
- Table 91. AMETEK Gemco Magnetostrictive Position Sensors Product Overview
- Table 92. AMETEK Gemco Magnetostrictive Position Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. AMETEK Gemco Business Overview
- Table 94. AMETEK Gemco Recent Developments
- Table 95. TSM SENSORS SRL Basic Information
- Table 96. TSM SENSORS SRL Magnetostrictive Position Sensors Product Overview
- Table 97. TSM SENSORS SRL Magnetostrictive Position Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. TSM SENSORS SRL Business Overview
- Table 99. TSM SENSORS SRL Recent Developments
- Table 100. GEFRAN Basic Information
- Table 101. GEFRAN Magnetostrictive Position Sensors Product Overview
- Table 102. GEFRAN Magnetostrictive Position Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. GEFRAN Business Overview
- Table 104. GEFRAN Recent Developments
- Table 105. Global Magnetostrictive Position Sensors Sales Forecast by Region

(2026-2035) & (K Units)

Table 106. Global Magnetostrictive Position Sensors Market Size Forecast by Region (2026-2035) & (M USD)

Table 107. North America Magnetostrictive Position Sensors Sales Forecast by Country (2026-2035) & (K Units)

Table 108. North America Magnetostrictive Position Sensors Market Size Forecast by Country (2026-2035) & (M USD)

Table 109. Europe Magnetostrictive Position Sensors Sales Forecast by Country (2026-2035) & (K Units)

Table 110. Europe Magnetostrictive Position Sensors Market Size Forecast by Country (2026-2035) & (M USD)

Table 111. Asia Pacific Magnetostrictive Position Sensors Sales Forecast by Region (2026-2035) & (K Units)

Table 112. Asia Pacific Magnetostrictive Position Sensors Market Size Forecast by Region (2026-2035) & (M USD)

Table 113. South America Magnetostrictive Position Sensors Sales Forecast by Country (2026-2035) & (K Units)

Table 114. South America Magnetostrictive Position Sensors Market Size Forecast by Country (2026-2035) & (M USD)

Table 115. Middle East and Africa Magnetostrictive Position Sensors Sales Forecast by Country (2026-2035) & (Units)

Table 116. Middle East and Africa Magnetostrictive Position Sensors Market Size Forecast by Country (2026-2035) & (M USD)

Table 117. Global Magnetostrictive Position Sensors Sales Forecast by Type (2026-2035) & (K Units)

Table 118. Global Magnetostrictive Position Sensors Market Size Forecast by Type (2026-2035) & (M USD)

Table 119. Global Magnetostrictive Position Sensors Price Forecast by Type (2026-2035) & (USD/Unit)

Table 120. Global Magnetostrictive Position Sensors Sales (K Units) Forecast by Application (2026-2035)

Table 121. Global Magnetostrictive Position Sensors Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Magnetostrictive Position Sensors
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Magnetostrictive Position Sensors Market Size (M USD), 2025-2035
- Figure 5. Global Magnetostrictive Position Sensors Market Size (M USD) (2020-2035)
- Figure 6. Global Magnetostrictive Position Sensors Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Magnetostrictive Position Sensors Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Magnetostrictive Position Sensors Product Life Cycle
- Figure 13. Magnetostrictive Position Sensors Sales Share by Manufacturers in 2025
- Figure 14. Global Magnetostrictive Position Sensors Revenue Share by Manufacturers in 2025
- Figure 15. Magnetostrictive Position Sensors Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Magnetostrictive Position Sensors Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Magnetostrictive Position Sensors Revenue in 2025
- Figure 18. Industry Chain Map of Magnetostrictive Position Sensors
- Figure 19. Global Magnetostrictive Position Sensors Market PEST Analysis
- Figure 20. Global Magnetostrictive Position Sensors Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Magnetostrictive Position Sensors Market Share by Type
- Figure 27. Sales Market Share of Magnetostrictive Position Sensors by Type (2020-2025)
- Figure 28. Sales Market Share of Magnetostrictive Position Sensors by Type in 2025
- Figure 29. Market Share of Magnetostrictive Position Sensors by Type (2020-2025)

- Figure 30. Market Share of Magnetostrictive Position Sensors by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Magnetostrictive Position Sensors Market Share by Application
- Figure 33. Global Magnetostrictive Position Sensors Sales Market Share by Application (2020-2025)
- Figure 34. Global Magnetostrictive Position Sensors Sales Market Share by Application in 2025
- Figure 35. Global Magnetostrictive Position Sensors Market Share by Application (2020-2025)
- Figure 36. Global Magnetostrictive Position Sensors Market Share by Application in 2025
- Figure 37. Global Magnetostrictive Position Sensors Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Magnetostrictive Position Sensors Sales Market Share by Region (2020-2025)
- Figure 39. Global Magnetostrictive Position Sensors Market Size by Region (2020-2025)
- Figure 40. North America Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Magnetostrictive Position Sensors Sales Market Share by Country in 2024
- Figure 43. North America Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Magnetostrictive Position Sensors Market Size by Country in 2024
- Figure 45. U.S. Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Magnetostrictive Position Sensors Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Magnetostrictive Position Sensors Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Magnetostrictive Position Sensors Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Magnetostrictive Position Sensors Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Magnetostrictive Position Sensors Sales Market Share by Country in 2024

Figure 53. Europe Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Magnetostrictive Position Sensors Market Size by Country in 2024

Figure 55. Germany Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Magnetostrictive Position Sensors Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Magnetostrictive Position Sensors Sales Market Share by Region in 2024

Figure 67. Asia Pacific Magnetostrictive Position Sensors Market Size by Region in 2024

Figure 68. China Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Magnetostrictive Position Sensors Sales and Growth Rate (K Units)

Figure 79. South America Magnetostrictive Position Sensors Sales Market Share by Country in 2024

Figure 80. South America Magnetostrictive Position Sensors Market Size and Growth Rate (M USD)

Figure 81. South America Magnetostrictive Position Sensors Market Size by Country in 2024

Figure 82. Brazil Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Magnetostrictive Position Sensors Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Magnetostrictive Position Sensors Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Magnetostrictive Position Sensors Market Size and

Growth Rate (M USD)

Figure 91. Middle East and Africa Magnetostrictive Position Sensors Market Size by Region in 2024

Figure 92. Saudi Arabia Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Magnetostrictive Position Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Magnetostrictive Position Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Magnetostrictive Position Sensors Production Market Share by Region (2020-2025)

Figure 103. North America Magnetostrictive Position Sensors Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Magnetostrictive Position Sensors Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Magnetostrictive Position Sensors Production (K Units) Growth Rate (2020-2025)

Figure 106. China Magnetostrictive Position Sensors Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Magnetostrictive Position Sensors Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Magnetostrictive Position Sensors Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Magnetostrictive Position Sensors Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Magnetostrictive Position Sensors Market Share Forecast by Type (2026-2035)

Figure 111. Global Magnetostrictive Position Sensors Sales Forecast by Application (2026-2035)

Figure 112. Global Magnetostrictive Position Sensors Market Share Forecast by Application (2026-2035)

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