

Global Magnetostrictive Position Sensors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Magnetostrictive Position Sensors market size was valued at US\$ 205 million in 2024 and is forecast to a readjusted size of USD 339 million by 2031 with a CAGR of 7.5% during review period.

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 market for magnetostrictive position sensors is expanding rapidly due to various factors, including the increasing need for precise and reliable measurement systems in numerous industries such as automotive, industrial automation, aerospace, and medical technology. Magnetostrictive sensors are increasingly essential in the modern era of Industry 4.0, where automation, robotics, and data-driven decision-making are playing key roles in improving productivity and efficiency.

Market Development Opportunities and Drivers

The global push towards industrial automation and digitalization is one of the primary drivers for the demand for magnetostrictive position sensors. With industries looking to enhance productivity, reduce downtime, and optimize processes, magnetostrictive position sensors offer the precise feedback necessary for monitoring machinery, controlling actuators, and ensuring safety. The automotive industry is also driving demand, especially with the rise of electric vehicles (EVs) and autonomous vehicles, both of which require accurate position feedback for motor and actuator control systems.

The growth of robotics, both in industrial applications (such as assembly lines and logistics) and in medical devices (such as robotic surgery and rehabilitation systems),

further propels the need for magnetostrictive sensors. Their high precision, reliability, and non-contact nature make them ideal for ensuring the correct positioning and movement of robotic arms and other automated components.

In addition, the growing importance of predictive maintenance and the Industrial Internet of Things (IIoT) is driving the adoption of magnetostrictive sensors. As industries move towards more connected, data-driven systems, these sensors provide valuable data for real-time position monitoring and predictive analytics.

Risks and Challenges

Despite the numerous opportunities, the magnetostrictive position sensor market faces challenges. One major risk is the relatively high cost of these sensors, which can limit their adoption in cost-sensitive applications. While they provide excellent accuracy and durability, their price point may make them less competitive against simpler technologies such as potentiometers or encoders, especially in non-critical applications.

Additionally, competition from other position sensing technologies, such as optical sensors, capacitive sensors, and inductive sensors, poses a challenge. These alternatives may offer advantages in certain applications, such as higher resolution or faster response times.

Market Concentration

The magnetostrictive position sensor market is moderately concentrated, with several leading companies dominating the industry. These major players include Honeywell, AMS AG, Maccon, and others, who provide a range of sensor solutions tailored to various industrial needs. However, there is also significant competition from smaller, regional players who often cater to niche markets or provide cost-effective solutions.

In the coming years, the market is expected to see further consolidation as larger companies acquire smaller players to expand their portfolios and capabilities. Additionally, ongoing technological advancements are likely to drive the development of new sensor types, offering even more customization options for end-users.

Downstream Demand Trends

The downstream demand for magnetostrictive position sensors is being driven by industries such as automotive, aerospace, robotics, and medical technology. In the

automotive sector, demand is growing for position sensors in electric vehicle drivetrains, advanced driver assistance systems (ADAS), and autonomous vehicle applications. In aerospace, these sensors are critical for monitoring actuators and controlling systems in both commercial and defense applications.

In robotics, precise position feedback is required for accurate movement and control, especially in advanced robotic arms and autonomous systems. Magnetostrictive sensors are becoming an integral part of automated manufacturing systems, further enhancing their adoption.

Latest Technologies and Innovations

Recent advancements in magnetostrictive position sensors include the development of wireless sensors and the integration of smart technologies. Wireless capabilities enable remote monitoring and control, reducing the need for complex wiring systems in large or difficult-to-reach environments. Additionally, digital output formats and integration with the IIoT allow for enhanced data collection, monitoring, and analysis.

Another emerging trend is the integration of sensor fusion, where multiple types of sensors work together to provide more accurate and reliable position data. For example, magnetostrictive sensors may be combined with optical sensors for even higher resolution and accuracy in specific applications, such as aerospace or robotics.

As sensor technology continues to evolve, magnetostrictive position sensors are expected to become more compact, energy-efficient, and customizable to meet the ever-growing demands of industrial applications.

This report is a detailed and comprehensive analysis for global Magnetostrictive Position Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Magnetostrictive Position Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit),

2020-2031

Global Magnetostrictive Position Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global Magnetostrictive Position Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global Magnetostrictive Position Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Magnetostrictive Position Sensors
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Magnetostrictive Position Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MTS Sensors, BALLUFF, ASM Sensor, MEGATRON, TURCK, AMETEK Gemco, TSM SENSORS SRL, GEFran, etc.

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

Market Segmentation

Magnetostrictive Position Sensors market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Analog Type

Digital Type

Market segment by Application

Petroleum Industry

Chemical Industry

Pharmaceutical Industry

Food Industry

Other Industries

Major players covered

MTS Sensors

BALLUFF

ASM Sensor

MEGATRON

TURCK

AMETEK Gemco

TSM SENSORS SRL

GEFRAN

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Magnetostrictive Position Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnetostrictive Position Sensors, with price, sales quantity, revenue, and global market share of Magnetostrictive Position Sensors from 2020 to 2025.

Chapter 3, the Magnetostrictive Position Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnetostrictive Position Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Magnetostrictive Position Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Magnetostrictive Position Sensors.

Chapter 14 and 15, to describe Magnetostrictive Position Sensors sales channel, distributors, customers, research findings and conclusion.

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