

# Global Giant Magnetoresistance Sensors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Giant Magnetoresistance Sensors market size is expected to reach \$ 132 million by 2032, rising at a market growth of 11.4% CAGR during the forecast period (2026-2032).

In 2025, global giant magnetoresistive sensor production reached approximately 684 k units, the average price is 88 usd/unit. A giant magnetoresistive (GMR) sensor is a magnetic sensor based on the giant magnetoresistive effect. It can accurately detect magnetic field strength, direction, or changes in magnetic field and convert the magnetic signal into an electrical signal output. It represents a significant technological leap in the field of magnetic sensing after the Hall effect sensor, featuring high sensitivity, low power consumption, high-frequency response, and miniaturization.

Market Concentration and Major Players:

Internationally, the giant magnetoresistive (GMR) sensor market is highly concentrated, primarily in developed countries like Europe and the United States. Large manufacturers include TE Connectivity and Non-Volatile Electronics. Domestically, however, the GMR sensor market still has significant room for growth.

Manufacturing Process and Market Trends:

The manufacturing process of GMR sensors relies on semiconductor micro-nano fabrication technology. The core involves alternating deposition of ferromagnetic and non-magnetic metal materials on a silicon substrate using physical vapor deposition techniques such as magnetron sputtering to form a multilayer thin-film structure with nanometer-scale thickness. Subsequently, photolithography and ion etching processes

are used to pattern the thin film into sensitive elements such as Wheatstone bridges, and necessary signal processing circuits and passivation layers are integrated. The entire process demands extremely high requirements for the flatness and thickness uniformity of the thin film interface to ensure stable output of the GMR effect.

Market trends show deep compatibility with CMOS processes and high integration. Products are evolving from single magnetic sensing elements to intelligent sensors with built-in compensation and digital output to meet the stringent reliability standards of automotive electronics and industrial automation. Meanwhile, despite the competition from tunnel magnetoresistive technology in certain high-performance areas, giant magnetoresistive sensors, with their mature manufacturing processes and cost-effectiveness, still maintain a solid position in major applications such as position detection, current sensing, and speed encoding, and continue to be optimized for lower power consumption and enhanced anti-interference capabilities.

This report studies the global Giant Magnetoresistance Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Giant Magnetoresistance Sensors 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 Giant Magnetoresistance Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Giant Magnetoresistance Sensors total production and demand, 2021-2032, (K Units)

Global Giant Magnetoresistance Sensors total production value, 2021-2032, (USD Million)

Global Giant Magnetoresistance Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Giant Magnetoresistance Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Giant Magnetoresistance Sensors domestic production, consumption, key domestic manufacturers and share

Global Giant Magnetoresistance Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Giant Magnetoresistance Sensors production by Function, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Giant Magnetoresistance Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Giant Magnetoresistance Sensors 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 TE Connectivity (Ireland), Analog Devices (USA), Infineon Technologies AG (Germany), Robert Bosch GmbH (Germany), NVE Corporation (USA), Allegro MicroSystems (USA), Sensitec (Germany), Ifm Electronic (Germany), SICK (Germany), Pepperl+Fuchs (Germany), 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 Giant Magnetoresistance Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Function, 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 Giant Magnetoresistance Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Giant Magnetoresistance Sensors Market, Segmentation by Function:

Angle Sensors

Current Sensors

Linear Displacement Sensors

Others

#### Global Giant Magnetoresistance Sensors Market, Segmentation by Output:

Analog Output

Digital Output

Switch Output

Others

#### Global Giant Magnetoresistance Sensors Market, Segmentation by Magnetic Field Measurement:

$\pm 1$  mT

$\pm 5$  mT

$\pm 10$  mT

$\pm 20$  mT

Others

## Global Giant Magnetoresistance Sensors Market, Segmentation by Application:

Automotive

Consumer Electronics

Industrial Equipment

Others

## Companies Profiled:

TE Connectivity (Ireland)

Analog Devices (USA)

Infineon Technologies AG (Germany)

Robert Bosch GmbH (Germany)

NVE Corporation (USA)

Allegro MicroSystems (USA)

Sensitec (Germany)

Ifm Electronic (Germany)

SICK (Germany)

Pepperl+Fuchs (Germany)

Alps Alpine (Japan)

## Key Questions Answered:

1. How big is the global Giant Magnetoresistance Sensors market?
2. What is the demand of the global Giant Magnetoresistance Sensors market?
3. What is the year over year growth of the global Giant Magnetoresistance Sensors market?
4. What is the production and production value of the global Giant Magnetoresistance Sensors market?
5. Who are the key producers in the global Giant Magnetoresistance Sensors market?
6. What are the growth factors driving the market demand?

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