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Global Giant Magnetoresistive Current Sensor Market Growth 2026-2032

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Abstracts

The global Giant Magnetoresistive Current Sensor market size is predicted to grow from US$ 33.53 million in 2025 to US$ 52.40 million in 2032; it is expected to grow at a CAGR of 6.7% from 2026 to 2032.

In 2025, global Giant Magnetoresistive Current Sensor production reached approximately 16.3 M Units, with an average global market price of around 2.1 USD per Unit.

A Giant Magnetoresistive Current Sensor, or GMR Current Sensor, is a magnetic sensing device that measures electric current through the giant magnetoresistance effect. When current flows through a conductor, PCB trace, or busbar, it generates a magnetic field related to the magnitude and direction of the current. The GMR sensing structure, typically consisting of alternating ferromagnetic and non-magnetic conductive layers, changes its electrical resistance in response to the applied magnetic field. A Wheatstone bridge, amplifier, and signal-conditioning circuit then convert this resistance change into an analog or digital output corresponding to the measured current.

Giant magnetoresistive current sensors use the high sensitivity of GMR materials to weak magnetic-field variations to provide non-contact measurement of DC, AC, and pulsed currents. Their key advantages include low insertion loss, fast response, compact size, convenient electrical isolation, and compatibility with a wide measurement range. These characteristics help address the heat generation and power loss associated with shunt-resistor solutions, the relatively large size of conventional magnetic sensing architectures, and the insufficient dynamic response of traditional current sensors in high-frequency power systems. As electric vehicles move toward higher-voltage architectures, energy storage capacity expands, industrial equipment

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becomes more intelligent, data-center power density increases, and silicon carbide and gallium nitride power devices gain wider adoption, demand for high-bandwidth, high-accuracy, low-power, and miniaturized current sensing will continue to strengthen, creating new opportunities for coreless, external-busbar, and current-over-PCB-trace GMR sensor designs. Although GMR current sensing continues to face competition from Hall-effect and TMR technologies, and the number of commercial products and suppliers remains relatively limited, its differentiated value in high-resolution low-current measurement, rapid overcurrent protection, and compact high-current sensing is increasingly evident. Continued improvements in magnetic materials, temperature compensation, stray-field rejection, and packaging integration are expected to support the development of a more stable specialized market across automotive electronics, renewable energy equipment, industrial drives, and high-density power systems.

The upstream raw materials for Giant Magnetoresistive Current Sensor mainly include monocrystalline silicon, photomasks, photoresists, bonding materials, etc. Typical raw material suppliers include Shin-Etsu Chemical, SUMCO, Siltronic, SK Siltron, Tekscend Photomask, Photronics, DNP, Tokyo Ohka Kogyo, JSR, etc. The downstream applications are mainly in industrial automation and motor drives, new energy vehicles, energy storage, consumer electronics, etc. Typical users include Siemens, ABB, Schneider Electric, Rockwell Automation, Tesla, BYD, NIO, Li Auto, etc.

The single-line capacity of Giant Magnetoresistive Current Sensor varies greatly due to factors such as wafer capacity, packaging capability, calibration and testing cycle time, and finished product yield. The industry gross profit margin is approximately 35%–55%.

United States market for Giant Magnetoresistive Current Sensor is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Giant Magnetoresistive Current Sensor is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Giant Magnetoresistive Current Sensor is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Giant Magnetoresistive Current Sensor players cover Allegro MicroSystems, ALPS ALPINE CO., LTD., NVE Corporation, Sensitec GmbH, Yamaha Corporation, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in

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2025.

LP Information, Inc. (LPI) ' newest research report, the “Giant Magnetoresistive Current Sensor Industry Forecast” looks at past sales and reviews total world Giant Magnetoresistive Current Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Giant Magnetoresistive Current Sensor sales for 2026 through 2032. With Giant Magnetoresistive Current Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Giant Magnetoresistive Current Sensor industry.

This Insight Report provides a comprehensive analysis of the global Giant Magnetoresistive Current Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Giant Magnetoresistive Current Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Giant Magnetoresistive Current Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Giant Magnetoresistive Current Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Giant Magnetoresistive Current Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Giant Magnetoresistive Current Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Integrated-Conductor Type

Non Integrated-Conductor Type

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Segmentation by Current Range:

5A Below

5-100A

100A Above

Segmentation by Magnetic-Circuit Architecture:

Coreless Type

Magnetic-Concentrator Type

Magnetic-Core-Assisted Type

Others

Segmentation by Application:

Industrial

Automotive & Transportation

Energy & Power

Consumer Electronics

Other

This report also splits the market by region:

Americas

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United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

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Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Allegro MicroSystems

ALPS ALPINE CO., LTD.

NVE Corporation

Sensitec GmbH

Yamaha Corporation

Anhui Sinomags Technology

MultiDimension Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Giant Magnetoresistive Current Sensor market?

What factors are driving Giant Magnetoresistive Current Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Giant Magnetoresistive Current Sensor market opportunities vary by

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end market size?

How does Giant Magnetoresistive Current Sensor break out by Type, by Application?

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