

Global Giant Magnetoresistive Current Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Giant Magnetoresistive Current Sensor market size was valued at US\$ 35.27 million in 2025 and is forecast to a readjusted size of US\$ 53.91 million by 2032 with a CAGR of 6.3% during review period.

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 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%.

This report is a detailed and comprehensive analysis for global Giant Magnetoresistive Current Sensor 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 Giant Magnetoresistive Current Sensor market size and forecasts, in

Global Giant Magnetoresistive Current Sensor Market 2026 by Manufacturers, Regions, Type and Application, Fore...

consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Giant Magnetoresistive Current Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Giant Magnetoresistive Current Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Giant Magnetoresistive Current Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

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 Giant Magnetoresistive Current Sensor

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Giant Magnetoresistive Current Sensor 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 Allegro MicroSystems, ALPS ALPINE CO., LTD., NVE Corporation, Sensitec GmbH, Yamaha Corporation, Anhui Sinomags Technology, MultiDimension Technology, etc.

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

Market Segmentation

Giant Magnetoresistive Current Sensor market is split by Type and by Application. For

the period 2021-2032, 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

Integrated-Conductor Type

Non Integrated-Conductor Type

Market segment by Current Range

5A Below

5-100A

100A Above

Market segment by Magnetic-Circuit Architecture

Coreless Type

Magnetic-Concentrator Type

Magnetic-Core-Assisted Type

Others

Market segment by Application

Industrial

Automotive & Transportation

Energy & Power

Consumer Electronics

Other

Major players covered

Allegro MicroSystems

ALPS ALPINE CO., LTD.

NVE Corporation

Sensitec GmbH

Yamaha Corporation

Anhui Sinomags Technology

MultiDimension Technology

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 Giant Magnetoresistive Current Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Giant Magnetoresistive Current Sensor, with price, sales quantity, revenue, and global market share of Giant Magnetoresistive Current Sensor from 2021 to 2026.

Chapter 3, the Giant Magnetoresistive Current Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Giant Magnetoresistive Current Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Giant Magnetoresistive Current Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Giant Magnetoresistive Current Sensor.

Chapter 14 and 15, to describe Giant Magnetoresistive Current Sensor sales channel, distributors, customers, research findings and conclusion.

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