

Global Giant Magnetoresistive Current Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Giant Magnetoresistive Current Sensor market size is expected to reach \$ 53.91 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

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

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 studies the global Giant Magnetoresistive Current Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Giant Magnetoresistive Current Sensor total production and demand, 2021-2032, (Million Units)

Global Giant Magnetoresistive Current Sensor total production value, 2021-2032, (USD Million)

Global Giant Magnetoresistive Current Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Giant Magnetoresistive Current Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Giant Magnetoresistive Current Sensor domestic production, consumption, key domestic manufacturers and share

Global Giant Magnetoresistive Current Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Giant Magnetoresistive Current Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Giant Magnetoresistive Current Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Giant Magnetoresistive Current Sensor 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Giant Magnetoresistive Current Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, 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 Magnetoresistive Current Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Giant Magnetoresistive Current Sensor Market, Segmentation by Type:

Integrated-Conductor Type

Non Integrated-Conductor Type

Global Giant Magnetoresistive Current Sensor Market, Segmentation by Current Range:

5A Below

5-100A

100A Above

Global Giant Magnetoresistive Current Sensor Market, Segmentation by Magnetic-Circuit Architecture:

Coreless Type

Magnetic-Concentrator Type

Magnetic-Core-Assisted Type

Others

Global Giant Magnetoresistive Current Sensor Market, Segmentation by Application:

Industrial

Automotive & Transportation

Energy & Power

Consumer Electronics

Other

Companies Profiled:

Allegro MicroSystems

ALPS ALPINE CO., LTD.

NVE Corporation

Sensitec GmbH

Yamaha Corporation

Anhui Sinomags Technology

MultiDimension Technology

Key Questions Answered:

1. How big is the global Giant Magnetoresistive Current Sensor market?
2. What is the demand of the global Giant Magnetoresistive Current Sensor market?

3. What is the year over year growth of the global Giant Magnetoresistive Current Sensor market?
4. What is the production and production value of the global Giant Magnetoresistive Current Sensor market?
5. Who are the key producers in the global Giant Magnetoresistive Current Sensor market?
6. What are the growth factors driving the market demand?

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