

Global MEMS Magnetic Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MEMS Magnetic Sensor market size is expected to reach \$ 1832 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032). The working principle of a magnetic sensor is to convert the magnetic properties of sensitive components caused by external factors such as magnetic field, current, stress-strain, temperature, and light into voltage or current information. Featuring miniaturization, low power consumption, high sensitivity, and high reliability, it is widely used in fields such as consumer electronics, automotive industry, medical equipment, and aerospace to achieve product miniaturization, intelligence, and high efficiency. In 2025, global MEMS Magnetic Sensor sales volume reached approximately 928 million units, with an average global market price of around US\$ 1.3 per unit.

1. Rising Demand from Automotive Electrification and Advanced Driver Systems

One of the most significant trends in the MEMS magnetic sensor market is the strong growth driven by automotive electrification and increasing sensor content per vehicle. MEMS magnetic sensors are widely used for position sensing, speed detection, current sensing, and angle measurement in electric power steering, motor control, transmission systems, and battery management systems. The rapid penetration of electric vehicles (EVs) and hybrid vehicles is accelerating demand for high-accuracy, low-drift magnetic sensors to monitor motor position and current with greater precision. In parallel, advanced driver-assistance systems (ADAS) and safety functions are increasing the need for robust, automotive-qualified magnetic sensors, pushing the market toward higher performance and higher reliability solutions.

2. Technology Shift from Hall Sensors toward Magnetoresistive Solutions

A clear technological trend in the MEMS magnetic sensor market is the gradual shift from traditional Hall-effect sensors toward higher-sensitivity magnetoresistive technologies, including AMR, GMR, and especially TMR sensors. While Hall sensors remain dominant in cost-sensitive and high-volume applications, magnetoresistive

sensors offer superior sensitivity, lower noise, and better accuracy, enabling more precise position and angle detection. As manufacturing processes mature and costs decline, TMR and GMR sensors are increasingly adopted in automotive, industrial automation, robotics, and precision motion control applications. This transition is driving higher average selling prices and expanding the addressable market for advanced MEMS magnetic sensors.

3. Expansion of Industrial Automation, Robotics, and IoT Applications

The growing adoption of industrial automation, robotics, and IoT systems is another major trend supporting MEMS magnetic sensor market growth. In industrial environments, magnetic sensors are widely used for non-contact position sensing, rotational speed measurement, current monitoring, and end-of-travel detection, offering high reliability in harsh conditions where optical sensors may fail. The rise of smart factories and connected industrial equipment is increasing demand for compact, low-power, and digitally integrated MEMS magnetic sensors capable of continuous operation and real-time data feedback. This trend is shifting market growth beyond consumer electronics into higher-value industrial and infrastructure applications, strengthening long-term demand fundamentals.

This report studies the global MEMS Magnetic Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global MEMS Magnetic Sensor total production and demand, 2021-2032, (K Units)

Global MEMS Magnetic Sensor total production value, 2021-2032, (USD Million)

Global MEMS Magnetic Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global MEMS Magnetic Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: MEMS Magnetic Sensor domestic production, consumption, key domestic manufacturers and share

Global MEMS Magnetic Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global MEMS Magnetic Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global MEMS Magnetic Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global MEMS Magnetic 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, AMS, Asahi Kasei Microdevices, Honeywell International, Infineon Technologies, Murata Manufacturing, Bosch, TDK, ams OSRAM, NXP Semiconductors, 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 MEMS Magnetic Sensor 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 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 MEMS Magnetic Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MEMS Magnetic Sensor Market, Segmentation by Type:

Hall-Effect Sensor

Magnetic Resistance Sensor

Others

Global MEMS Magnetic Sensor Market, Segmentation by Axis:

Single-axis

Dual-axis

Multi-axis

Global MEMS Magnetic Sensor Market, Segmentation by Technology:

Hall-Effect Sensor

AMR Sensor

GMR Sensor

TMR Sensor

Other

Global MEMS Magnetic Sensor Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Industrial Control

Smart Grid

Household Appliances

Medical

Others

Companies Profiled:

Allegro Microsystems

AMS

Asahi Kasei Microdevices

Honeywell International

Infineon Technologies

Murata Manufacturing

Bosch

TDK

ams OSRAM

NXP Semiconductors

ROHM

Semiment Technology

Coseमितech

Melexis

Memsic

Micronas Semiconductor

Key Questions Answered:

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

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