

# Global 360° AMR Magneto-resistive Angle Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 360° AMR Magneto-resistive Angle Sensor market size is expected to reach \$ 189 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global sales of 360° AMR Magneto-resistive Angle Sensor reached approximately 150 million units, with an average market price of about USD 0.8 per unit, an annual production capacity of roughly 210 million units, and an industry-average gross margin of approximately 35%.

A 360° AMR Magneto-resistive Angle Sensor is a type of magnetic position sensor that exploits the anisotropic magneto-resistance (AMR) effect. Using on-chip AMR resistor arrays, it senses changes in the direction of an external magnetic field and converts the relative angle of a rotating magnet (or field) into an analog or digital output representing 0–360° (or a limited angular span). Compared with conventional Hall-based angle sensors, AMR solutions provide higher sensitivity and better angle linearity at moderate field strengths, enabling high-accuracy, non-contact, wear-free angle measurement with small air gaps. Typical applications include steering-angle sensing, pedal and throttle position, motor rotor position, rotary knobs and encoders.

Upstream, 360° AMR Magneto-resistive Angle Sensors depend on foundries (CMOS/BCD processes), AMR thin-film and magneto-resistive material processing, assembly & test houses, and permanent-magnet suppliers, as well as EDA/IP tools and automotive/industrial qualification infrastructure. In the midstream, chip design and manufacturing companies integrate AMR arrays with signal-conditioning circuitry, perform wafer fabrication and packaging, and supply products as bare die, standard IC packages or magnet-integrated modules. Downstream, the sensors are integrated by

automotive electronics manufacturers (steering, pedal, transmission), industrial automation and motor-drive vendors, and appliance/consumer-electronics makers. Actual consumption is tightly linked to vehicle production, shipments of motors and servo drives, and penetration of smart appliances and tools, with the sensors typically installed once per device and consumed rigidly with end-equipment shipments.

This report studies the global 360° AMR Magneto-resistive Angle Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 360° AMR Magneto-resistive Angle 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 360° AMR Magneto-resistive Angle Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 360° AMR Magneto-resistive Angle Sensor total production and demand, 2021-2032, (Million Units)

Global 360° AMR Magneto-resistive Angle Sensor total production value, 2021-2032, (USD Million)

Global 360° AMR Magneto-resistive Angle Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global 360° AMR Magneto-resistive Angle Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: 360° AMR Magneto-resistive Angle Sensor domestic production, consumption, key domestic manufacturers and share

Global 360° AMR Magneto-resistive Angle Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global 360° AMR Magneto-resistive Angle Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global 360° AMR Magnetoresistive Angle Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global 360° AMR Magnetoresistive Angle 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 Murata Manufacturing, TI, ADI, TE, Infineon, NXP, MEMSIC, MultiDimension Technology, Suzhou Novosense, 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 360° AMR Magnetoresistive Angle 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 360° AMR Magnetoresistive Angle Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 360° AMR Magnetoresistive Angle Sensor Market, Segmentation by Type:

Single-axis

Multi-axis

Global 360° AMR Magnetoresistive Angle Sensor Market, Segmentation by Output:

Analog

Digital

Global 360° AMR Magnetoresistive Angle Sensor Market, Segmentation by Application:

Automotive Electronics

Industrial Automation

Consumer Electronics

Others

Companies Profiled:

Murata Manufacturing

TI

ADI

TE

Infineon

NXP

MEMSIC

MultiDimension Technology

Suzhou Novosense

#### Key Questions Answered:

1. How big is the global 360° AMR Magnetoresistive Angle Sensor market?
2. What is the demand of the global 360° AMR Magnetoresistive Angle Sensor market?
3. What is the year over year growth of the global 360° AMR Magnetoresistive Angle Sensor market?
4. What is the production and production value of the global 360° AMR Magnetoresistive Angle Sensor market?
5. Who are the key producers in the global 360° AMR Magnetoresistive Angle Sensor market?
6. What are the growth factors driving the market demand?

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