

# Global AMR Magnetic Encoder Chips Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global AMR Magnetic Encoder Chips market size is expected to reach \$ 296 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

An AMR magnetic encoder chip is a magnetic position-sensing device designed based on the Anisotropic Magnetoresistance (AMR) effect. By detecting changes in the direction or intensity of an external magnetic field, it converts information regarding rotational angle, linear displacement, speed, or position into electrical signals, thereby enabling high-precision position measurement and motion control. Typically used in conjunction with a permanent magnet, the chip serves as the core component of a magnetic encoder system, calculating the shaft's position and motion status by monitoring magnetic field variations. The upstream segment of the industry chain primarily comprises suppliers of magnetoresistive materials (AMR thin-film materials), silicon wafers, semiconductor manufacturing equipment, packaging and testing services, and permanent magnets (such as NdFeB and ferrite), alongside supporting electronic components like analog ICs, power management chips, and MCUs. The midstream consists of AMR magnetic encoder chip design and manufacturing companies responsible for magnetoresistive sensing unit design, signal processing algorithm development, ASIC integration, circuit design, wafer fabrication, packaging and testing, and system calibration; their output includes products such as angle encoder chips, rotary position sensor chips, and linear displacement detection chips. Downstream applications primarily span industrial robots, collaborative robots, humanoid robots, AGV/AMR mobile robots, servo motors, automated production lines, power tools, automotive electronics, and medical equipment.

In 2025, global sales volume for AMR magnetic encoder chips is projected to reach 36

million pcs, with a production capacity of approximately 51 million pcs; the average selling price is estimated at \$5.50 per pcs, with an average gross margin of 30%-40%.

AMR magnetic encoder technology is evolving toward miniaturization, high precision, enhanced interference immunity, and greater integration. Traditional standalone AMR sensors are gradually incorporating digital signal processing modules to support multiple output modes such as AB-phase pulses, SSI, I<sup>2</sup>C, and PWM. Continuous optimization of magnet design, signal processing algorithms, and temperature compensation techniques enables these encoders to maintain high precision during high-frequency motion, in low-noise environments, and across wide temperature ranges. Future development trends include deep integration with servo controllers and industrial digital twin systems, as well as the adoption of modular, interchangeable, and standardized interface designs.

Global industrial automation, intelligent manufacturing, and robotics industry policies present significant growth opportunities for the AMR magnetic encoder market. Initiatives such as China's 'Made in China 2025,' Europe's 'Industry 4.0,' and Japan's automation upgrade plans are driving the expansion of the robotics and high-precision servo systems sectors, thereby stimulating demand for magnetic encoders.

This report studies the global AMR Magnetic Encoder Chips production, demand, key manufacturers, and key regions.

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

#### Highlights and key features of the study

Global AMR Magnetic Encoder Chips total production and demand, 2021-2032, (Million Pcs)

Global AMR Magnetic Encoder Chips total production value, 2021-2032, (USD Million)

Global AMR Magnetic Encoder Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs), (based on production site)

Global AMR Magnetic Encoder Chips consumption by region & country, CAGR, 2021-2032 & (Million Pcs)

U.S. VS China: AMR Magnetic Encoder Chips domestic production, consumption, key domestic manufacturers and share

Global AMR Magnetic Encoder Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Pcs)

Global AMR Magnetic Encoder Chips production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

Global AMR Magnetic Encoder Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

This report profiles key players in the global AMR Magnetic Encoder Chips 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 RLS, TE Connectivity, Murata Manufacturing, SG Micro, MEMSIC Semiconductor, CONNTEK, MagnTek, MultiDimension Technology, AKM, Honeywell, 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 AMR Magnetic Encoder Chips market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Pcs) and average price (US\$/Pcs) 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 AMR Magnetic Encoder Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AMR Magnetic Encoder Chips Market, Segmentation by Type:

Absolute

Incremental

Global AMR Magnetic Encoder Chips Market, Segmentation by Measurement Method:

Rotary

Linear

Global AMR Magnetic Encoder Chips Market, Segmentation by Angle Measurement Accuracy:

±0.05°-±0.1°

±0.1°-±1°

±1°

Global AMR Magnetic Encoder Chips Market, Segmentation by Application:

Robotics

Industrial Automation

Automotive Electronics

Medical Equipment

Others

#### Companies Profiled:

RLS

TE Connectivity

Murata Manufacturing

SG Micro

MEMSIC Semiconductor

CONNTEK

MagnTek

MultiDimension Technology

AKM

Honeywell

Allegro MicroSystems

iC-Haus

Novosense

#### Key Questions Answered:

1. How big is the global AMR Magnetic Encoder Chips market?
2. What is the demand of the global AMR Magnetic Encoder Chips market?
3. What is the year over year growth of the global AMR Magnetic Encoder Chips

market?

4. What is the production and production value of the global AMR Magnetic Encoder Chips market?
5. Who are the key producers in the global AMR Magnetic Encoder Chips market?
6. What are the growth factors driving the market demand?

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