

Global AMR Magnetic Encoders Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AMR Magnetic Encoders market size is expected to reach \$ 304 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

An AMR magnetic encoder is an angle or position detector based on the Anisotropic Magnetoresistance (AMR) effect, utilized to measure displacement, velocity, and angular information associated with rotating shafts or linear motion. Its core operating principle relies on the characteristic of magnetic-sensitive elements to undergo changes in electrical resistance when subjected to an external magnetic field; by sensing the magnetic field distribution generated by a magnet mounted on a rotating shaft or moving component, the device precisely calculates rotational angles, linear displacement, or rotational speed.

The upstream segment of the industry chain primarily comprises suppliers of magnetic materials (such as NdFeB magnets and magnetic strips), semiconductor chip manufacturers (providing the core components for AMR sensors), suppliers of PCBs and precision electronic components, as well as providers of packaging materials and production equipment?including microelectronics packaging machinery and lithography/etching systems. The midstream segment consists of AMR magnetic encoder manufacturers, who integrate, debug, and calibrate the AMR sensor chips, magnets, PCB circuitry, signal processing modules, and protective housings to produce encoder products ready for direct application in rotational or linear measurement tasks. The downstream segment finds primary application in scenarios involving industrial robots, collaborative robots, humanoid robots, AGVs/AMRs (autonomous mobile robots), servo motors, automated production lines, power tools, automotive electronics, and medical equipment.

In 2025, the global sales volume of AMR magnetic encoders is projected to reach 27 million units, with a production capacity of approximately 38 million units. The average selling price is estimated at \$7.50 per unit, with an average gross margin ranging between 30% and 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, I²C, 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 Encoders production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global AMR Magnetic Encoders total production and demand, 2021-2032, (K Units)

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

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

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

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

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

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

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

This report profiles key players in the global AMR Magnetic Encoders 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 Encoders 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 AMR Magnetic Encoders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AMR Magnetic Encoders Market, Segmentation by Type:

Absolute

Incremental

Global AMR Magnetic Encoders Market, Segmentation by Measurement Method:

Rotary

Linear

Global AMR Magnetic Encoders Market, Segmentation by Angle Measurement Accuracy:

±0.05°-±0.1°

±0.1°-±1°

±1°

Global AMR Magnetic Encoders 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 Encoders market?
2. What is the demand of the global AMR Magnetic Encoders market?
3. What is the year over year growth of the global AMR Magnetic Encoders market?

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

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