

Global AMR Magnetic Encoders Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AMR Magnetic Encoders market size was valued at US\$ 208 million in 2025 and is forecast to a readjusted size of US\$ 304 million by 2032 with a CAGR of 5.6% during review period.

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 is a detailed and comprehensive analysis for global AMR Magnetic Encoders market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AMR Magnetic Encoders market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AMR Magnetic Encoders market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices

(US\$/Unit), 2021-2032

Global AMR Magnetic Encoders market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AMR Magnetic Encoders market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for AMR Magnetic Encoders

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global AMR Magnetic Encoders market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

AMR Magnetic Encoders market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Absolute

Incremental

Market segment by Measurement Method

Rotary

Linear

Market segment by Angle Measurement Accuracy

±0.05°-±0.1°

±0.1°-±1°

±1°

Market segment by Application

Robotics

Industrial Automation

Automotive Electronics

Medical Equipment

Others

Major players covered

RLS

TE Connectivity

Murata Manufacturing

SG Micro

MEMSIC Semiconductor

CONNTEK

MagnTek

MultiDimension Technology

AKM

Honeywell

Allegro MicroSystems

iC-Haus

Novosense

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AMR Magnetic Encoders product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AMR Magnetic Encoders, with price, sales quantity, revenue, and global market share of AMR Magnetic Encoders from 2021 to 2026.

Chapter 3, the AMR Magnetic Encoders competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AMR Magnetic Encoders breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AMR Magnetic Encoders market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AMR Magnetic Encoders.

Chapter 14 and 15, to describe AMR Magnetic Encoders sales channel, distributors, customers, research findings and conclusion.

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