

Global AMR Magnetic Encoders Market Growth 2026-2032

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Abstracts

The global AMR Magnetic Encoders market size is predicted to grow from US\$ 198 million in 2025 to US\$ 295 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 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.

LP Information, Inc. (LPI)'s newest research report, the 'AMR Magnetic Encoders Industry Forecast' looks at past sales and reviews total world AMR Magnetic Encoders sales in 2025, providing a comprehensive analysis by region and market sector of projected AMR Magnetic Encoders sales for 2026 through 2032. With AMR Magnetic Encoders sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AMR Magnetic Encoders industry.

This Insight Report provides a comprehensive analysis of the global AMR Magnetic Encoders landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AMR Magnetic Encoders portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AMR Magnetic Encoders market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AMR Magnetic Encoders and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AMR Magnetic Encoders.

This report presents a comprehensive overview, market shares, and growth opportunities of AMR Magnetic Encoders market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Absolute

Incremental

Segmentation by Measurement Method:

Rotary

Linear

Segmentation by Angle Measurement Accuracy:

±0.05°-±0.1°

±0.1°-±1°

±1°

Segmentation by Application:

Robotics

Industrial Automation

Automotive Electronics

Medical Equipment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

RLS

TE Connectivity

Murata Manufacturing

SG Micro

MEMSIC Semiconductor

CONNTEK

MagnTek

MultiDimension Technology

AKM

Honeywell

Allegro MicroSystems

iC-Haus

Novosense

Key Questions Addressed in this Report

What is the 10-year outlook for the global AMR Magnetic Encoders market?

What factors are driving AMR Magnetic Encoders market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AMR Magnetic Encoders market opportunities vary by end market size?

How does AMR Magnetic Encoders break out by Type, by Application?

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