

Global Robot Magnetic Encoder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robot Magnetic Encoder market size is expected to reach \$ 1147 million by 2032, rising at a market growth of 11.8% CAGR during the forecast period (2026-2032).

A robot magnetic encoder is a non-contact position feedback device that measures rotary or linear movement by detecting changes in a magnetic field. It usually consists of a magnet, Hall-effect or magnetoresistive sensor, signal-processing circuit, and output interface. In robots, magnetic encoders are used for motor feedback, joint position control, wheel-speed detection, gripper control, linear motion sensing, and mobile robot navigation. They are valued for compact size, low cost, simple installation, and strong resistance to dust, oil, humidity, vibration, and mechanical shock. FAULHABER describes magnetic encoders as using sensors to detect magnetic-field changes from motor rotation.

Global production capacity is approximately 5 million units.

In 2025, global sales reached approximately 3.4 million units, with an average price of around US\$ 153 per unit, gross margin around 36%.

The robot magnetic encoders are an important growth segment in the robot feedback supply chain. Compared with optical encoders, they offer better contamination resistance, smaller size, simpler assembly, and lower system cost, although ultra-high precision applications may still prefer optical solutions. Magnetic encoders are especially attractive for mobile robots, humanoid robot joints, compact actuators, grippers, exoskeletons, and cost-sensitive servo systems. As robotics expands from traditional factories into logistics, healthcare, services, and outdoor environments, demand for robust magnetic feedback solutions is expected to grow steadily. Future competition will focus on accuracy improvement, integration, safety, multi-turn

capability, and digital communication.

Market Trend

The robot magnetic encoder market is moving toward compact absolute encoders, higher resolution, battery-free multi-turn feedback, hollow-shaft structures, and easier integration with servo motors and robot joints. Magnetic encoders are gaining adoption in collaborative robots, AGVs/AMRs, humanoid robots, exoskeletons, grippers, and compact BLDC motor systems. Suppliers are improving compensation algorithms, digital interfaces, and safety functions to reduce the accuracy gap with optical encoders. Renishaw notes that magnetic encoders can measure both linear and rotary motion and support compact integrated designs, while POSITAL highlights encoder use in robot and actuator feedback applications.

Market Drive

The main driver of the robot magnetic encoder market is the increasing demand for reliable, compact, and cost-effective feedback devices in robotic motion-control systems. Mobile robots, warehouse robots, service robots, and humanoid robots need durable sensors that can operate under vibration, dust, temperature variation, and space limitations. Magnetic encoders provide non-contact measurement, long service life, flexible mounting, and good environmental tolerance, making them suitable for high-cycle robotic movement. RLS specifically describes magnetic encoders for robotic applications such as motor feedback, joint position control, linear motion sensing, gripper feedback, and force feedback.

Upstream and Downstream

The upstream side of robot magnetic encoders includes permanent magnets, Hall-effect sensors, magnetoresistive sensors, encoder ICs, signal-processing chips, PCBs, bearings, housings, cables, connectors, and calibration equipment. Downstream customers include robot OEMs, servo motor manufacturers, actuator suppliers, AMR/AGV producers, humanoid robot developers, medical robotics companies, warehouse automation integrators, and end users in electronics, logistics, automotive, healthcare, and industrial automation.

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

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

Highlights and key features of the study

Global Robot Magnetic Encoder total production and demand, 2021-2032, (K Units)

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

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

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

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

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

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

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

This report profiles key players in the global Robot Magnetic Encoder 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 Heidenhain, Renishaw, Tamagawa Seiki, Omron, SICK, FAULHABER, Rockwell Automation, Inovance, Broadcom, Nikon, 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 Robot Magnetic Encoder 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 Robot Magnetic Encoder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot Magnetic Encoder Market, Segmentation by Type:

Incremental Encoder

Absolute Encoder

Global Robot Magnetic Encoder Market, Segmentation by Structure:

Open-Type

Sealed Type

Global Robot Magnetic Encoder Market, Segmentation by Motion Measurement:

Rotary Encoders

Linear Encoders

Global Robot Magnetic Encoder Market, Segmentation by Application:

Industrial Robot

Collaborative Robot

Service Robot

Companies Profiled:

Heidenhain

Renishaw

Tamagawa Seiki

Omron

SICK

FAULHABER

Rockwell Automation

Inovance

Broadcom

Nikon

Maxon Motor

Baumer

RLS

HCFA

KingKong Technology

Yuheng Optics

POSITAL

Encoder Products Company

ZeroErr

K?bler

Dynapar Encoders

SIKO

Hengstler

Guangzhou Haozhi Industrial

Balluff

Key Questions Answered:

1. How big is the global Robot Magnetic Encoder market?
2. What is the demand of the global Robot Magnetic Encoder market?
3. What is the year over year growth of the global Robot Magnetic Encoder market?
4. What is the production and production value of the global Robot Magnetic Encoder market?
5. Who are the key producers in the global Robot Magnetic Encoder market?
6. What are the growth factors driving the market demand?

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