

Global Magnetic Encoder for Robot 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 Magnetic Encoder for Robot market size was valued at US\$ 514 million in 2025 and is forecast to a readjusted size of US\$ 1123 million by 2032 with a CAGR of 11.9% during review period.

A magnetic encoder for robots is a position-feedback device that measures angular or linear movement by detecting changes in a magnetic field. It usually uses a magnet mounted on the motor shaft or rotating target, together with Hall-effect or magnetoresistive sensing elements and signal-processing electronics. In robotic systems, magnetic encoders are used for servo motor feedback, joint-position detection, wheel control, grippers, exoskeletons, AGVs/AMRs, humanoid robots, and compact actuators. Compared with optical encoders, magnetic encoders are generally more resistant to dust, humidity, vibration, oil, and mechanical shock, making them suitable for harsh or compact robot environments.

Global production capacity is approximately 5 million units.

In 2025, global sales reached approximately 3.3 million units, with an average price of around US\$ 151 per unit, gross margin around 36%.

The magnetic encoders are becoming an important robot feedback technology because they offer a strong balance of compact size, environmental resistance, cost efficiency, and reliable non-contact operation. Although optical encoders still dominate many high-precision robot applications, magnetic encoders are gaining share in mobile robots, humanoid robots, compact servo systems, grippers, exoskeletons, and cost-sensitive industrial robots. Future competition will focus on improving resolution, compensation

algorithms, multi-turn capability, safety functions, digital interfaces, and ease of integration with robot joints and motors. As robotics expands from factories into logistics, healthcare, services, and humanoid platforms, magnetic encoder demand is expected to grow steadily.

Market Trend

The magnetic encoder for robot market is trending toward compact absolute encoders, non-contact sensing, battery-free multi-turn designs, higher resolution, and easier integration into servo motors and robot joints. As robots become smaller, lighter, and more cost-sensitive, magnetic encoders are increasingly adopted in compact BLDC motors, mobile robots, collaborative robots, exoskeletons, and humanoid robot joints. Suppliers are also improving accuracy compensation, digital interfaces, and kit-style encoder structures to make installation easier. Magnetic encoders are especially attractive where space, weight, contamination resistance, and cost are more important than ultra-high optical-level precision.

Market Drive

The main driver of the magnetic encoder for robot market is the rapid growth of cost-effective, compact, and rugged robotic motion-control systems. Mobile robots, service robots, warehouse robots, humanoid robots, and collaborative robots often operate in environments with vibration, dust, temperature changes, or space limitations, where magnetic encoders offer strong reliability advantages. Their non-contact structure reduces wear and supports long service life in high-cycle robotic movement. In addition, the expansion of integrated motors, compact actuators, and robot joint modules increases demand for small-size encoder solutions with good accuracy, low power consumption, and flexible mounting.

Upstream and Downstream

The upstream side of magnetic encoders for robots includes permanent magnets, Hall-effect sensors, magnetoresistive sensors, encoder ICs, signal-processing chips, PCBs, bearings, housings, connectors, cables, and calibration equipment. Downstream customers include robot OEMs, servo motor manufacturers, actuator suppliers, AGV/AMR producers, humanoid robot developers, medical robotics companies, and automation integrators. Typical applications include motor feedback, joint control, wheel-speed detection, gripper position feedback, and exoskeleton movement control.

This report is a detailed and comprehensive analysis for global Magnetic Encoder for Robot 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 Magnetic Encoder for Robot market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Magnetic Encoder for Robot 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 Magnetic Encoder for Robot 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 Magnetic Encoder for Robot 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 Magnetic Encoder for Robot

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 Magnetic Encoder for Robot 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 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.

Market Segmentation

Magnetic Encoder for Robot 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

- Incremental Encoder

- Absolute Encoder

Market segment by Structure

- Open-Type

- Sealed

Market segment by Motion Measurement

- Rotary Encoders

- Linear Encoders

Market segment by Application

- Industrial Robot

- Collaborative Robot

Service Robot

Major players covered

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

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 Magnetic Encoder for Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnetic Encoder for Robot, with price, sales quantity, revenue, and global market share of Magnetic Encoder for Robot from

2021 to 2026.

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

Chapter 4, the Magnetic Encoder for Robot 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 Magnetic Encoder for Robot 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 Magnetic Encoder for Robot.

Chapter 14 and 15, to describe Magnetic Encoder for Robot sales channel, distributors, customers, research findings and conclusion.

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