

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

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Abstracts

The global Magnetic Encoder for Robot market size is expected to reach \$ 1123 million by 2032, rising at a market growth of 11.9% CAGR during the forecast period (2026-2032).

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

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

Highlights and key features of the study

Global Magnetic Encoder for Robot total production and demand, 2021-2032, (K Units)
Global Magnetic Encoder for Robot total production value, 2021-2032, (USD Million)
Global Magnetic Encoder for Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Magnetic Encoder for Robot consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Magnetic Encoder for Robot domestic production, consumption, key domestic manufacturers and share
Global Magnetic Encoder for Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Magnetic Encoder for Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Magnetic Encoder for Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Magnetic Encoder for Robot 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 Magnetic Encoder for Robot 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 Magnetic Encoder for Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetic Encoder for Robot Market, Segmentation by Type:

Incremental Encoder

Absolute Encoder

Global Magnetic Encoder for Robot Market, Segmentation by Structure:

Open-Type

Sealed

Global Magnetic Encoder for Robot Market, Segmentation by Motion Measurement:

Rotary Encoders

Linear Encoders

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

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