

Global Encoders for Industrial 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 Encoders for Industrial Robot market size was valued at US\$ 1042 million in 2025 and is forecast to a readjusted size of US\$ 2204 million by 2032 with a CAGR of 11.3% during review period.

Encoders for industrial robots are precision feedback devices used to measure the position, speed, direction, and angular displacement of robot joints, servo motors, rotary axes, and linear motion modules. They convert mechanical movement into electrical signals and provide real-time feedback to robot controllers and servo drives. In industrial robots, encoders are essential for motion accuracy, repeatability, path control, tool-center-point precision, safety monitoring, and multi-axis synchronization. They include optical, magnetic, inductive, absolute, incremental, rotary, and linear encoders. Rotary encoders are especially important because they measure angular motion in robot joints and rotary axes.

Global production capacity is approximately 10 million units.

In 2025, global sales reached approximately 8.6 million units, with an average price of around US\$ 118 per unit, gross margin around 35%.

The encoders are critical components in industrial robots because they directly affect positioning accuracy, repeatability, motion stability, and safety. Optical encoders remain important in high-precision robot applications, while magnetic and inductive encoders are gaining adoption in compact, rugged, and cost-sensitive systems. Future market competition will focus on higher accuracy, miniaturization, absolute position feedback,

dual feedback, digital communication, functional safety, and easier integration with servo motors and robot joints. With industrial robot installations remaining at a high level globally, the encoder market for industrial robots is expected to maintain stable growth and become increasingly important in advanced manufacturing automation.

Market Trend

The encoders for industrial robot market is moving toward higher resolution, absolute feedback, compact hollow-shaft design, dual-encoder architecture, and functional safety integration. As industrial robots are used in welding, assembly, painting, machining, semiconductor handling, and precision manufacturing, demand is increasing for encoders that can improve joint accuracy and reduce backlash-related errors. HEIDENHAIN notes that secondary encoders mounted downstream from the gear system can measure actual robot joint position and compensate for joint elasticity, zero-position error, reversal error, and machining effects. This supports the trend toward more accurate and intelligent robot motion control.

Market Drive

The main driver of the market is the continuous expansion of industrial automation and factory robot deployment. According to the International Federation of Robotics, global industrial robot installations reached about 542,000 units in 2024, with annual installations above 500,000 units for the fourth consecutive year. This growing installed base increases demand for servo motors, motion-control systems, and encoder feedback devices. Industrial robots require precise feedback to improve productivity, reduce defects, and support high-speed automated production. Demand is especially strong in automotive, electronics, semiconductor, metal processing, logistics, and general manufacturing, where accurate robot positioning directly affects production quality and efficiency.

Upstream and Downstream

The upstream side of industrial robot encoders includes optical components, magnetic sensors, inductive sensor ICs, code discs, glass scales, PCB coils, bearings, housings, connectors, cables, signal-processing chips, and precision machining parts. Downstream customers include industrial robot OEMs, servo motor manufacturers, joint-module suppliers, automation integrators, and end users in automotive, electronics, semiconductor, metalworking, packaging, and logistics. Renishaw notes that encoders provide real-time position feedback in robotic arms, including wafer-handling robots that

require high stability and accuracy.

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

Global Encoders for Industrial 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 Encoders for Industrial 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 Encoders for Industrial 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 Encoders for Industrial 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 Encoders for Industrial 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

Encoders for Industrial 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 Sensing Technology

- Optical Encoders

- Magnetic Encoders

- Capacitive Encoders

- Inductive Encoders

Market segment by Motion Measurement

- Rotary Encoders

- Linear Encoders

Market segment by Application

Articulated Robots

Parallel Robots

SCARA Robots

Others

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 Encoders for Industrial Robot product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Encoders for Industrial 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 Encoders for Industrial 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 Encoders for Industrial Robot.

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

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