

Global Encoders for Industrial Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Encoders for Industrial Robot market size is expected to reach \$ 2204 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

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 studies the global Encoders for Industrial Robot production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global Encoders for Industrial Robot total production and demand, 2021-2032, (K Units)

Global Encoders for Industrial Robot total production value, 2021-2032, (USD Million)

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

Global Encoders for Industrial Robot consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Encoders for Industrial Robot domestic production, consumption, key domestic manufacturers and share

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

Global Encoders for Industrial Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Encoders for Industrial Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Encoders for Industrial 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 Encoders for Industrial 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 Encoders for Industrial Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Encoders for Industrial Robot Market, Segmentation by Type:

Incremental Encoder

Absolute Encoder

Global Encoders for Industrial Robot Market, Segmentation by Sensing Technology:

Optical Encoders

Magnetic Encoders

Capacitive Encoders

Inductive Encoders

Global Encoders for Industrial Robot Market, Segmentation by Motion Measurement:

Rotary Encoders

Linear Encoders

Global Encoders for Industrial Robot Market, Segmentation by Application:

Articulated Robots

Parallel Robots

SCARA Robots

Others

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 Encoders for Industrial Robot market?
2. What is the demand of the global Encoders for Industrial Robot market?

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

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