

# Global Incremental Encoders for Robots 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 Incremental Encoders for Robots market size was valued at US\$ 660 million in 2025 and is forecast to a readjusted size of US\$ 1383 million by 2032 with a CAGR of 11.1% during review period.

Incremental encoders for robots are motion feedback devices used to measure rotational or linear movement by generating pulse signals as the robot joint, motor, or actuator moves. Unlike absolute encoders, incremental encoders do not provide a unique position value immediately after power-on; instead, they calculate position, speed, and direction by counting pulses from a reference point. They are widely used in industrial robots, collaborative robots, mobile robots, service robots, and robotic automation systems. Incremental encoders are valued for their relatively simple structure, fast response, compact size, cost efficiency, and suitability for motor control, speed feedback, and repetitive motion positioning.

Global production capacity is approximately 10 million units.

In 2025, global sales reached approximately 6.1 million units, with an average price of around US\$ 105 per unit, gross margin around 34%.

The incremental encoders for robots remain a practical and widely used feedback solution in robotic motion control. While absolute encoders are increasingly adopted in high-end and safety-critical robotic systems, incremental encoders continue to offer advantages in cost, speed measurement, compact design, and simple integration. Their demand is expected to remain stable in industrial robots, mobile robots, collaborative

robots, grippers, auxiliary axes, and general automation equipment. Future competition will focus on resolution, reliability, miniaturization, environmental resistance, signal quality, interface compatibility, and total cost. Incremental encoders will continue to play an important role in robot motor control and motion feedback systems.

### Market Trend

The incremental encoders for robots market is moving toward higher resolution, smaller size, stronger anti-interference capability, and better integration with servo motors and robotic joints. As robots become more compact, lightweight, and precise, encoder suppliers are developing miniaturized products with improved signal stability and higher pulse output accuracy. Demand is also increasing for magnetic and optical incremental encoders that can operate reliably in harsh industrial environments. Although absolute encoders are gaining share in high-end robots, incremental encoders remain important in cost-sensitive applications, auxiliary axes, mobile robots, grippers, and general automation systems where speed feedback and repeatable motion control are required.

### Market Drive

The main driver of the incremental encoders for robots market is the continued expansion of robot adoption in manufacturing, logistics, electronics, automotive, healthcare, and service industries. Robots require accurate feedback to control motor speed, joint movement, position repeatability, and motion stability. Incremental encoders provide a cost-effective solution for many robotic systems, especially where absolute position memory is not essential. Growth in industrial automation, collaborative robots, AGVs, AMRs, robotic arms, packaging robots, and warehouse automation supports demand. In addition, pressure to improve production efficiency, reduce labor dependence, and enhance motion control precision is encouraging wider use of encoder-based feedback systems.

### Upstream and Downstream

The upstream supply chain of incremental encoders for robots includes optical discs, magnetic sensors, Hall elements, LEDs, photodiodes, ASIC chips, bearings, shafts, housings, cables, connectors, precision machining parts, and signal processing components. Key upstream suppliers include semiconductor companies, sensor manufacturers, optical component suppliers, magnetic material producers, bearing makers, and electronic component companies. Midstream companies design and manufacture incremental rotary encoders, linear encoders, motor feedback encoders,

and integrated encoder modules. Downstream customers include robot OEMs, servo motor manufacturers, industrial automation companies, CNC equipment makers, logistics robot producers, medical robot developers, and system integrators serving smart manufacturing and automation projects.

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

Global Incremental Encoders for Robots 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 Incremental Encoders for Robots 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 Incremental Encoders for Robots 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 Incremental Encoders for Robots

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 Incremental Encoders for Robots 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

Incremental Encoders for Robots 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

Hollow Shaft

Solid Shaft

#### Market segment by Sensing Technology

Optical Encoders

Magnetic Encoders

Capacitive Encoders

Inductive Encoders

#### Market segment by Motion

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 Incremental Encoders for Robots product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Incremental Encoders for Robots 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 Incremental Encoders for Robots 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 Incremental Encoders for Robots.

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

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