

# Global Rotary 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 Rotary Encoders for Robots market size was valued at US\$ 2641 million in 2025 and is forecast to a readjusted size of US\$ 4359 million by 2032 with a CAGR of 7.5% during review period.

A robotic rotary encoder is a crucial sensor that converts the angular position, speed, or rotation of a mechanical shaft into an analog or digital signal. In robotics, it is used for real-time monitoring of joint angles and motor speeds, ensuring high-precision positioning and motion control. It is mainly divided into two types: incremental (detecting speed/relative position via pulses) and absolute (measuring angular position), and operates based on photoelectric or magnetic principles.

The upstream segment primarily focuses on core components and materials, including high-precision photomasks, semiconductor photosensitive chips, magnetic sensing elements, precision bearings, light-emitting diodes, and high-quality encoder materials. Among these, high-performance processor chips and high-precision optical lithography technology represent key technological barriers.

Common incremental encoders typically cost US\$40?100 per unit, while absolute encoders and higher-end models often range from US\$200?500 per unit, with high-precision branded models reaching over US\$900. Annual shipments are usually in the tens of millions of units. The industry's gross profit margin is approximately 35-55%.

The acceleration of industrial automation globally is the core engine of growth in this industry. On the one hand, the widespread adoption of intelligent manufacturing and the Industrial Internet of Things (IIoT) demands higher precision motion control on

production lines, directly boosting the demand for high-resolution optical encoders. On the other hand, the boom in the new energy vehicle industry chain, particularly the entry of humanoid robots into small-scale trial production, has opened up significant growth opportunities for hollow and lightweight magnetic encoders. With the advent of Industry 4.0 and the humanoid robot wave, market demands for encoders are no longer limited to basic resolution, but are evolving towards high integration, miniaturization, and intelligent diagnostic capabilities.

Despite promising prospects, the industry still faces significant technological and economic barriers. The high-end market is currently dominated by a few European, American, and Japanese giants, and there is a high degree of dependence on the supply chain for core photosensitive chips and high-precision encoders. This, to some extent, restricts the profit margins and technological iteration speed of mid-to-low-end manufacturers.

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

Global Rotary 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 Rotary 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 Rotary 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 Rotary 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 Rotary 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, Pepperl+Fuchs, Baumer, TR Electronic, Danaher, Omron, SIKO Global, Broadcom, TAMAGAWA SEIKI, Leine & Linde, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Rotary 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

Absolute

Incremental

### Market segment by Detection Principle

Photoelectric Type

Magnetolectric Type

Capacitive Type

#### Market segment by Structural Form

Solid Shaft

Hollow Shaft

#### Market segment by Application

Industrial Automation

Medical Equipment

Logistics and Warehousing

Service and Humanoid Robots

Other

#### Major players covered

HEIDENHAIN

Pepperl+Fuchs

Baumer

TR Electronic

Danaher

Omron

SIKO Global

Broadcom

TAMAGAWA SEIKI

Leine & Linde

SICK

K?bler

JTEKT ELECTRONICS

Sensata Technologies

Renishaw

POSITAL

Lika Electronic

Yuheng Optics

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

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

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

Chapter 4, the Rotary 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 Rotary 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 Rotary Encoders for Robots.

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

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