

Global Rotary Encoders for Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Rotary Encoders for Robots market size is expected to reach \$ 4359 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

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 studies the global Rotary Encoders for Robots production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Rotary Encoders for Robots total production and demand, 2021-2032, (K Units)

Global Rotary Encoders for Robots total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Rotary Encoders for Robots 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Rotary Encoders for Robots 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 Rotary Encoders for Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Rotary Encoders for Robots Market, Segmentation by Type:

Absolute

Incremental

Global Rotary Encoders for Robots Market, Segmentation by Detection Principle:

Photoelectric Type

Magnetolectric Type

Capacitive Type

Global Rotary Encoders for Robots Market, Segmentation by Structural Form:

Solid Shaft

Hollow Shaft

Global Rotary Encoders for Robots Market, Segmentation by Application:

Industrial Automation

Medical Equipment

Logistics and Warehousing

Service and Humanoid Robots

Other

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Rotary Encoders for Robots market?
2. What is the demand of the global Rotary Encoders for Robots market?

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

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