

Global Rotary Encoders for Robots Market Growth 2026-2032

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Abstracts

The global Rotary Encoders for Robots market size is predicted to grow from US\$ 2510 million in 2025 to US\$ 4253 million in 2032; it is expected to grow at a CAGR of 8.0% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Rotary Encoders for Robots Industry Forecast" looks at past sales and reviews total world Rotary Encoders for Robots sales in 2025, providing a comprehensive analysis by region and market sector of projected Rotary Encoders for Robots sales for 2026 through 2032. With Rotary Encoders for Robots sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Rotary Encoders for Robots industry.

This Insight Report provides a comprehensive analysis of the global Rotary Encoders for Robots landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Rotary Encoders for Robots portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Rotary Encoders for Robots market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Rotary Encoders for Robots and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Rotary Encoders for Robots.

This report presents a comprehensive overview, market shares, and growth opportunities of Rotary Encoders for Robots market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Absolute

Incremental

Segmentation by Detection Principle:

Photoelectric Type

Magnetoelectric Type

Capacitive Type

Segmentation by Structural Form:

Solid Shaft

Hollow Shaft

Segmentation by Application:

Industrial Automation

Medical Equipment

Logistics and Warehousing

Service and Humanoid Robots

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Rotary Encoders for Robots market?

What factors are driving Rotary Encoders for Robots market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Rotary Encoders for Robots market opportunities vary by end market size?

How does Rotary Encoders for Robots break out by Type, by Application?

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