

# Global Linear 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 Linear Encoders for Robots market size was valued at US\$ 916 million in 2025 and is forecast to a readjusted size of US\$ 1405 million by 2032 with a CAGR of 6.5% during review period.

A robotic linear encoder is a high-precision sensor specifically designed to measure the linear displacement and velocity of moving parts in robots and automated equipment, and convert this information into digital electrical signals for feedback to the control system. It directly monitors the position of the part using an optical or magnetic reading head and is commonly used in industrial robot end-effector positioning, CNC machine tools, and precision assembly lines, effectively eliminating mechanical transmission errors.

The upstream core components include photoelectric sensors (array ICs), light-emitting diodes, high-precision scales (glass encoders or metal gratings), signal processing chips (ASICs), and magnetic arrays. Among these, the high-precision gratings produced using photolithography technology are crucial in determining resolution. Currently, high-performance photosensitive chips and encoder materials with ultra-low thermal expansion coefficients still have high technological barriers to entry.

Their price is affected by accuracy, measurement length, and technology type (magnetic or optical), ranging from \$30 to \$150+ per unit, with annual shipments typically in the tens of millions of units. The industry's gross profit margin is around 35-55%.

The core driving force behind the industry's rapid growth stems from the deep

integration of precision manufacturing and the emergence of new robotic forms. Firstly, the continuous expansion of advanced semiconductor processes (such as 3nm and below) demands almost impossibly stringent nanoscale resolution requirements for linear feedback systems in wafer inspection and lithography handling equipment. Secondly, the explosive growth of collaborative robots and humanoid robots globally requires linear encoders to possess extremely high functional safety levels and ultra-compact physical dimensions to adapt to their compact joint structures. At the same time, government subsidy policies for 'smart factories' and 'Industry 4.0' have stimulated the upgrading of existing equipment with absolute encoders, aiming to significantly improve production line utilization rates by eliminating the reset process after power outages.

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

Global Linear 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 Linear 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 Linear 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 Linear 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 Linear 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, TR-Electronic, Sensata Technologies, Sick, Novanta, Renishaw, Baumer, SIKO Global, K?bler, etc.

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

## **Market Segmentation**

Linear 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

Optical

Magnetic Induction

## Market segment by Contact Type

Contact

Non-Contact

## Market segment by Application

CNC Machine Tools

Humanoid Robots

Semiconductor Equipment

Industrial Automation

Other

## Major players covered

HEIDENHAIN

Pepperl+Fuchs

TR-Electronic

Sensata Technologies

Sick

Novanta

Renishaw

Baumer

SIKO Global

K?bler

Balluff

RLS d.o.o.

ASM

Resson

Lika Electronic

Givi Misure

Yuheng Optics

TOFI Sensing Technology

Changchun Rongde 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 Linear Encoders for Robots product scope, market overview,

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market estimation caveats and base year.

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

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

Chapter 4, the Linear 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 Linear 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 Linear Encoders for Robots.

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

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