

# Global Encoder Market Research Report 2026(Status and Outlook)

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## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Encoder competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. An encoder is actually a sensor. It is a device that converts input signals or data into digital signals or coded signals through physical effects (such as light, magnetism, capacitance/inductance, mechanics, etc.). According to the detection principle, there are optical, magnetic, and capacitance/inductance types; according to the encoding method, there are absolute and incremental types; according to the measurement method, there are rotary encoding and linear encoding. Encoders can provide high-precision feedback information such as position and speed in application fields such as industrial automation to meet the needs of precision measurement and control. As a sensor, encoders have significant differences in different application scenarios. For example, rotary encoders have a larger measurement range, while linear encoders have a shorter measurement range and are suitable for short-distance linear measurement applications. The encoder production areas in various regions of the world are mainly distributed in Europe (Germany, Italy, France, etc.), Japan, the United States and China. Europe occupies the vast majority of the market share. Chinese encoder companies still have a certain gap in production capacity and product performance with international leading companies (such as Heidenhain and Tamagawa Seiki). However, with the continuous breakthroughs of Chinese companies in product development technology in recent years, some companies have achieved breakthroughs in revenue and shipments, and have occupied a certain market share in the Chinese servo encoder market, such as Zhejiang Reagle Sensing. Encoders have different types according to different principles. This article subdivides them into rotary encoders and linear encoders according to the differences in encoder measurement methods, and can be

further subdivided into incremental and absolute types. Incremental encoders have certain advantages in price under the same parameters as absolute encoders, but as the market share of absolute encoders continues to increase, the price gap between the two is also narrowing. At present, in some new equipment, absolute encoders will be the best choice. The core areas targeted by rotary encoders and linear encoders are different. For example, in the field of machine tools, linear encoders are used in the closed-loop servo system of CNC machine tools and can be used to detect linear displacement or angular displacement. Their price is closely related to their accuracy, measurement range, and resolution. In this field, the price of linear encoders is much higher than that of rotary encoders, but from the perspective of various downstream application scenarios, rotary encoders currently still occupy a large market share, reaching 68% in 2023, and are expected to maintain their leading position in the next few years. From the perspective of downstream applications of encoders, encoders are just a part of various types of equipment, mainly used directly on motors, such as stepper motors and servo motors. The downstream of motors involves all walks of life. At present, the machine tool market accounts for the largest share, and the machine tool market share reached 30% in 2023. In addition, the robot market has greatly promoted the surge in demand for encoders in recent years with the development of high-tech equipment such as industrial robots, AGV/AMR mobile robots, semiconductor manipulators, and medical robots. With the accelerated advancement of new industrialization, encoders, as core components of robots, will further increase their market share in the future. It is expected that by 2030, encoders will account for 25.4% of the robot market.

The global Encoder market size was estimated at USD 3644.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Encoder market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Encoder market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Encoder market.

### **Global Encoder Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Heidenhain  
Tamagawa Seiki  
Sick  
Renishaw  
Pepperl+Fuchs  
Dynapar  
Baumer  
Sensata Technologies  
Broadcom  
Omron  
TR Electronic  
Balluff  
Rockwell Automation

Bourns  
Zhejiang Reagle Sensing  
TE Connectivity  
Fagor Automation  
Kubler  
SIKO  
JTEKT Electronics  
POSITAL (FRABA)  
Changchun Yuheng Optics  
Lenord+Bauer  
Faulhaber  
Lika Electronic  
Gurley Precision Instruments  
Mitutoyo  
Citizen Micro Co., Ltd  
ELCO Industrie Automation GmbH  
Weihai Idencoder Electronic Technology

### **Market Segmentation (by Type)**

Rotary Encoder  
Linear Encoder

### **Market Segmentation (by Application)**

Machine Tools  
Robots  
Packaging Equipment  
Conveyor  
Textile Machinery  
Construction Machinery  
Medical Equipment  
Elevators  
Automotive  
Others

### **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the Encoder Market  
Overview of the regional outlook of the Encoder Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Encoder Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Encoder, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change  
This enables you to anticipate market changes to remain ahead of your competitors  
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents  
The concise analysis, clear graph, and table format will enable you to pinpoint the

information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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