

# Global Incremental Quadrature Rotary 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 Quadrature Rotary Encoder competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, global sales of quadrature rotary encoders will reach approximately 23 million units, with an average unit price of approximately \$48. These encoders are angle measurement devices that output two pulse signals with a 90° phase difference. They are widely used in CNC machine tools, robotic joints, motor control, automated transmission systems, and other fields for precise angular displacement and speed detection. Their advantage lies in determining the direction of rotation based on the phase relationship between the A/B signals and providing high-resolution counting capabilities, making them a core component in motion control and servo feedback systems. The upstream market primarily relies on optoelectronic components, magnetic sensors, PCB substrates, and precision mechanical parts, while the downstream market includes industrial automation equipment manufacturers, robotics companies, and motor and drive control system manufacturers.

**Product Overview** Quadrature rotary encoders are widely used in applications requiring precise motion control. For example, in industrial automation equipment, each CNC machine tool spindle or servo drive typically requires one or two quadrature rotary encoders as core motion control feedback components, making them standard sensing units for machine tool and robotic drive systems.

**Supply Situation** Upstream raw materials primarily include photoelectric sensor chips, magnetic sensors, precision bearings, PCB circuit boards, and metal/plastic housings. Typical suppliers include Broadcom, Allegro Microsystems, MinebeaMitsumi, Jabil, and TE Connectivity.

**Manufacturer Features** Bourns specializes in mid-to-low-cost photoelectric encoders for industrial and automotive applications, suitable for volume production. Sparkfun primarily targets the education, maker, and

lightweight automation markets, emphasizing low prices and easy integration. Grayhill excels in high-reliability military and medical equipment, known for its rugged products. Same Sky focuses on robotics and drones, providing compact and lightweight magnetic encoding solutions. Applications Industrial Automation: Used for servo drive feedback in CNC machine tools and automated production lines. Customers include Fanuc, Siemens, and Bosch Rexroth. Robotics: Used in joint servo motors, AGVs, and collaborative robots. Typical customers include ABB and KUKA. Automotive and Transportation: Used in electric vehicle drive systems and steering system feedback. Customers include Tesla, BYD, and Toyota. Consumer Electronics and Home Appliances: Used in high-end digital cameras and knob controls for smart appliances. Customers include Sony and LG. Medical and Aerospace: Used in surgical robots, flight control, and optical platforms. Customers include Intuitive Surgical, Airbus, and NASA. Technology Trends Quadrature rotary encoders are evolving toward higher resolution, miniaturization, and contactless technology. Optoelectronic solutions are gradually being replaced by magnetoelectric and capacitive solutions to adapt to harsh operating conditions and smaller packaging requirements. Multi-turn encoding and absolute output are penetrating some incremental applications, improving system reliability. Digital interfaces such as BiSS and EtherCAT Encoder communication standards are becoming increasingly popular, enhancing integration with Industrial Ethernet. Meanwhile, Chinese and Southeast Asian manufacturers are accelerating import substitution, pushing prices down from the \$50 range to \$30-35, further expanding market application boundaries. Market Drivers The growing market demand for encoders is deeply tied to developments in multiple downstream sectors and industry trends. Specific drivers can be summarized as follows: First, the accelerated upgrade of smart manufacturing and industrial automation is driving increasing demand for high-precision motion control feedback, laying the foundation for core encoder applications. Second, the rapid expansion of the robotics industry, particularly the adoption of collaborative robots and unmanned logistics equipment, has directly accelerated encoder shipment growth. Third, in the new energy vehicle sector, the demand for high-reliability position detection in key components such as electric drive systems and steer-by-wire has significantly increased, further expanding the application space for encoders. Fourth, the trend toward miniaturization in consumer electronics and smart home appliances has driven the market adoption of miniature encoders. Fifth, the growing trend of domestic substitution and lower costs has both enhanced the competitiveness of domestic encoders in the global market and accelerated their penetration into various downstream applications.

The global Quadrature Rotary Encoder market size was estimated at USD 1104.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of

7.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Quadrature Rotary 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 Quadrature Rotary 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 Quadrature Rotary Encoder market.

### **Global Quadrature Rotary 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**

Dynapar  
Sparkfun  
TE Connectivity  
Same Sky  
Bourns  
Broadcom  
Rotalink  
Omron  
Grayhill  
Nidec Components  
Panasonic  
Sensata  
TT Electronics  
WURTH ELEKTRONIK  
ELAP  
US Digital  
JTEKT  
Joral

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

10 PPR  
12 PPR  
15 PPR  
20 PPR  
24 PPR  
Others

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

Industrial Robots  
Automation Equipment  
Automotive Electronics  
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 Quadrature Rotary Encoder Market  
Overview of the regional outlook of the Quadrature Rotary 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 Quadrature Rotary 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 Quadrature Rotary 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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