

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

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Abstracts

The global Absolute Rotary Encoders market size is expected to reach \$ 2287 million by 2032, rising at a market growth of 3.3% CAGR during the forecast period (2026-2032).

In 2024, global Absolute Rotary Encoders production reached approximately 14661 K units, with an average global market price of around US\$ 116 per unit. A rotary encoder, also called a shaft encoder, is an electro-mechanical device that converts the angular position or motion of a shaft or axle to an analog or digital code. There are two main types: absolute and incremental (relative). Absolute rotary encoders provide a distinctly coded numerical value for each shaft position. In positioning tasks in particular, the absolute encoders relieve the controller of computation tasks and keep costs down by eliminating the need for additional input components. Moreover, reference runs when the machine is switched on or after power failures are no longer required as the current position value is available immediately. Parallel absolute encoders transmit the position value to the analyzing electronics through several parallel cables. Serial absolute encoders transmit their output data via standardized interfaces and protocols.

Technical Development Trends

?High Precision and Intelligence?: Mainstream products are moving towards an accuracy of $\pm 0.1^\circ$, and AI algorithms are used to achieve real-time position compensation. Breakthroughs in multi-turn absolute encoders technology, supporting power-off memory and wireless transmission functions?.

?Emerging Technologies as Alternatives?: Magnetic encoders are gradually replacing some of the optical encoders in the market due to their strong anti-interference ability and low cost (growth rate exceeds optical encoders in 2024). Inductive encoders

demonstrate significant potential in applications in harsh environments (such as high temperatures and oil contamination)?.

Application Domain Expansion

?Industrial Robots?: Collaborative robots have increasing demand for lightweight and high-response encoders?.

?Medical Devices?: Surgical robots are developing micro-sized and sterile-encased encoders?.

Challenges and Solutions

Technical Barriers?: Domestic high-end encoders still need to overcome in terms of resolution (such as >24 bits) and reliability?.

Supply Chain Risks?: Key materials (such as optical glass) rely on imports, and local production needs to be strengthened?.

Policy and Investment Opportunities

Policy Support?: China's 'Made in China 2025' promotes the domestication of encoders, providing subsidies for research and development investment?.

?Investment Directions?: High-precision magnetic encoders, multi-turn absolute value encoders, and intelligent integration solutions?.

This report studies the global Absolute Rotary Encoders production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Absolute Rotary Encoders 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, Tamagawa, Nemicon, P+F, TR Electronic, Baumer, Kuebler, Dynapar, Omron, JTEKT ELECTRONICS, 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 Absolute Rotary Encoders market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Absolute Rotary Encoders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Absolute Rotary Encoders Market, Segmentation by Type:

Multi-Turn Encoders

Single-Turn Encoders

Global Absolute Rotary Encoders Market, Segmentation by Application:

Healthcare

Machine Tool

Consumer Electronics

Assembly Equipment

Others

Companies Profiled:

Heidenhain

Tamagawa

Nemicon

P+F

TR Electronic

Baumer

Kuebler

Dynapar

Omron

JTEKT ELECTRONICS

Sensata(BEI)

Sick

Yuheng Optics

ELCO

Wuxi CREATE

Roundss

Sanfeng

Shanghai HOUDE

Key Questions Answered:

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

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