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

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Abstracts

The global Robotic High-precision Absolute Rotary Encoders market size is expected to reach $ 2402 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, global Robotic High-precision Absolute Rotary Encoders production reached approximately 6 million units, with an average global market price of around USD 220 per unit.

The gross profit margin of major companies in the industry was approximately 35%–58%.

In 2025, global production capacity of Robotic High-precision Absolute Rotary Encoders was approximately 7.8 million units.

Robotic High-precision Absolute Rotary Encoders measure the unique angular position of robot joints and retain position information after power interruption. Optical, magnetic, inductive, or capacitive sensing technologies may be used to provide high resolution, accuracy, repeatability, and communication reliability. The scope excludes incremental encoders, linear encoders, low-precision potentiometers, standalone torque sensors, complete servo motors, and robot joint modules containing non-separable encoders.

The industrial chain includes upstream optical discs, magnets, sensing chips, bearings, precision shafts, PCBs, signal processors, housings, and communication components. Midstream covers sensing design, precision machining, electronic assembly, firmware development, calibration, environmental testing, and certification. Downstream

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applications include industrial robots, collaborative robots, humanoid robots, mobile robots, medical robots, semiconductor robots, precision automation equipment, and robotic joint actuators.

Report Scope

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Robotic High-precision Absolute Rotary Encoders production by Type,

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production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Robotic High-precision 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 Dr. Johannes Heidenhain GmbH, Renishaw plc, Tamagawa Seiki Co., Ltd., SICK AG, Baumer Holding AG, K?bler Group, Hengstler GmbH, FRABA B.V., Netzer Precision Position Sensors A.C.S. Ltd., Novanta Inc., 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 Robotic High-precision 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 (US$/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 Robotic High-precision Absolute Rotary Encoders Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Robotic High-precision Absolute Rotary Encoders Market, Segmentation by Type:

Optical Absolute Encoders

Magnetic Absolute Encoders

Inductive and Capacitive Absolute Encoders

Global Robotic High-precision Absolute Rotary Encoders Market, Segmentation by Mechanical Configuration:

Shafted Encoders

Hollow-shaft Encoders

Kit and Ring Encoders

Global Robotic High-precision Absolute Rotary Encoders Market, Segmentation by Single-turn Resolution:

Standard-resolution??17 Bit?

High-resolution??17–22 Bit?

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Ultra-high-resolution??22 Bit?

Global Robotic High-precision Absolute Rotary Encoders Market, Segmentation by Application:

Industrial Robots

Collaborative Robots

Humanoid and Service Robots

Other

Companies Profiled:

Dr. Johannes Heidenhain GmbH

Renishaw plc

Tamagawa Seiki Co., Ltd.

SICK AG

Baumer Holding AG

K?bler Group

Hengstler GmbH

FRABA B.V.

Netzer Precision Position Sensors A.C.S. Ltd.

Novanta Inc.

Lika Electronic S.r.l.

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BOGEN Magnetics GmbH

Changchun Yuheng Optics Co., Ltd.

Shenzhen Mosrac Motor Co., Ltd.

Shenzhen BriterEncoder Technology Co., Ltd.

Shanghai Hengxiang Optical Electronic Co., Ltd.

Changchun Rongde Optics Co., Ltd.

Key Questions Answered:

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

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