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Global Absolute Rotary Encoder Market Growth 2026-2032

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Abstracts

The global Absolute Rotary Encoder market size is predicted to grow from US$ 1731 million in 2025 to US$ 2238 million in 2032; it is expected to grow at a CAGR of 3.8% from 2026 to 2032.

In 2024, global Absolute rotary encoders production reached approximately 16610 k units, with an average global market price of around US$ 116 per unit. Absolute rotary encoders provide a single encoded value for each shaft position. Especially in positioning tasks, absolute encoders relieve the controller of computing tasks and reduce costs by eliminating the need for additional input components.

Technology upgrade

Nano level precision breakthrough: The accuracy of the 23 bit absolute encoder has reached ? 2 arcseconds, and it will develop towards 25 bits or more in the future to meet high-end requirements such as semiconductor equipment (? 0.001mm positioning accuracy).

AI integration: By using machine learning algorithms to achieve adaptive parameter tuning and fault prediction, it is expected that the market share of AI self-learning function encoders will exceed 25% by 2028.

Anti interference enhancement: Differential signal transmission and optical isolation technology can filter 99.7% of electromagnetic noise and adapt to extreme environments such as oil drilling.

Emerging fields drive growth

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Industrial robots: Humanoid robots require 54-66 encoders per machine, and the market size is expected to exceed 5 billion yuan by 2025.

New energy vehicles: Multi turn absolute value encoders are used in electric drive systems to provide real-time feedback on rotor position and number of turns.

Low altitude economy: The demand for attitude control of eVTOL aircraft drives the development of high dynamic response encoders.

Modularization and Integration

Servo system integration: Encoder, driver, and motor are integrated to reduce wiring complexity and improve response speed (95%) and low dielectric materials (CAGR 22.22%) have become research and development priorities.

LP Information, Inc. (LPI) ' newest research report, the ?Absolute Rotary Encoder Industry Forecast? looks at past sales and reviews total world Absolute Rotary Encoder sales in 2025, providing a comprehensive analysis by region and market sector of projected Absolute Rotary Encoder sales for 2026 through 2032. With Absolute Rotary Encoder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Absolute Rotary Encoder industry.

This Insight Report provides a comprehensive analysis of the global Absolute Rotary Encoder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Absolute Rotary Encoder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Absolute Rotary Encoder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Absolute Rotary Encoder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Absolute Rotary Encoder.

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This report presents a comprehensive overview, market shares, and growth opportunities of Absolute Rotary Encoder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-Turn

Multi-Turn

Segmentation by Application:

Agriculture

Architecture

Forestry

Medical

Solar Panel

Automated Industry

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

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China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

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from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Pepperl+Fuchs

RENISHAW

Omron

Baumer

RLS

Siko

IFM Electronic

Olympus

Contelec

K?bler Group

Broadcom

Sensata Technologies

Balluff

BRTE

Siko

Simphoenix

Calt

BEIFFDER

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Absolute Rotary Encoder market?

What factors are driving Absolute Rotary Encoder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Absolute Rotary Encoder market opportunities vary by end market size?

How does Absolute Rotary Encoder break out by Type, by Application?

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