

Global Absolute Rotary Encoders Market Growth 2025-2031

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Abstracts

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The global Absolute Rotary Encoders market size is predicted to grow from US\$ 1569 million in 2025 to US\$ 2039 million in 2031; it is expected to grow at a CAGR of 4.5% from 2025 to 2031.

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.

Global Absolute Rotary Encoders key players include Heidenhain, Tamagawa, Nemicon, P+F, Baumer, etc. Global top five manufacturers hold a share about 55%. Europe is the largest market, with a share about 45%, followed by North America, with a share about 25 percent. In terms of product, Single-Turn is the largest segment, with a share about 60%. And in terms of application, the largest application is Machine Tool, followed by Healthcare, Assembly Equipment, Consumer Electronics, etc.

LP Information, Inc. (LPI) ' newest research report, the "Absolute Rotary Encoders

Industry Forecast” looks at past sales and reviews total world Absolute Rotary Encoders sales in 2024, providing a comprehensive analysis by region and market sector of projected Absolute Rotary Encoders sales for 2025 through 2031. With Absolute Rotary Encoders sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Absolute Rotary Encoders industry.

This Insight Report provides a comprehensive analysis of the global Absolute Rotary Encoders 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 Encoders portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Absolute Rotary Encoders market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Absolute Rotary Encoders 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 Encoders.

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

Segmentation by Type:

Multi-Turn Encoders

Single-Turn Encoders

Segmentation by Application:

Healthcare

Machine Tool

Consumer Electronics

Assembly Equipment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

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

Heidenhain

Tamagawa

Nemicon

P+F

TR Electronic

Baumer

Kuebler

Danaher

Omron

Koyo

Sensata(BEI)

Sick

Yuheng Optics

ELCO

Wuxi CREATE

Roundss

Sanfeng

Shanghai HOUDE

Key Questions Addressed in this Report

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

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

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

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

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

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