

Global Parallel Absolute Encoder Market Growth 2025-2031

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Abstracts

The global Parallel Absolute Encoder market size is predicted to grow from US\$ 1281 million in 2025 to US\$ 2200 million in 2031; it is expected to grow at a CAGR of 9.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

A parallel absolute encoder is an angular/displacement measuring device that directly provides absolute position information through multi-channel outputs. Its core structure includes a code disc (engraved with binary, Gray code, or other coding patterns) and a corresponding array of photoelectric sensors, with each sensor channel corresponding to a coding bit on the code disc. When the encoder shaft rotates, each channel synchronously outputs parallel binary codes based on the occlusion state of the code disc, enabling real-time acquisition of absolute position values without relying on initial position or continuous counting. It features strong anti-interference capability, non-volatile position information during power outages, and fast response speed, and is commonly used in scenarios requiring absolute position feedback, such as high-precision servo systems, robot joint positioning, and CNC machine tools.

United States market for Parallel Absolute Encoder is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Parallel Absolute Encoder is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Parallel Absolute Encoder is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Parallel Absolute Encoder players cover Renishaw plc, Heidenhain GmbH, Sick AG, Baumer Group, Pepperl+Fuchs GmbH, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Parallel Absolute Encoder Industry Forecast" looks at past sales and reviews total world Parallel Absolute Encoder sales in 2024, providing a comprehensive analysis by region and market sector of projected Parallel Absolute Encoder sales for 2025 through 2031. With Parallel Absolute Encoder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Parallel Absolute Encoder industry.

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

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

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

Segmentation by Type:

Photoelectric Type

Magnetolectric Type

Capacitive Type

Segmentation by Application:

CNC Machine Tools

Printing Machines

Packaging Machinery

Other

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.

Renishaw plc

Heidenhain GmbH

Sick AG

Baumer Group

Pepperl+Fuchs GmbH

Rockwell Automation, Inc.

Omron Corporation

Honeywell International Inc.

Schneider Electric SE

Mitsubishi Electric Corporation

FANUC Corporation

K?bler Group

Leine & Linde AB

Dynapar Corporation

BEI Sensors

Bourns, Inc.

FRABA B.V.

Hengstler GmbH

Tamagawa Seiki Co., Ltd.

Balluff GmbH

Key Questions Addressed in this Report

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

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

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

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

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

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