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Global Inductive Absolute Rotary Encoder Market Growth 2026-2032

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Abstracts

The global Inductive Absolute Rotary Encoder market size is predicted to grow from US$ 646 million in 2025 to US$ 933 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 2032.

The inductive absolute rotary encoder is a high-precision position sensor that uses the principle of electromagnetic induction to achieve angle measurement. It can provide a unique absolute angle value immediately after each power-on without the need for zeroing or resetting the reference point. It determines the position of the shaft through the change in the induction signal between a fixed coil system and a metal target (such as an encoder disk) that rotates with the shaft. It has strong resistance to dust, oil and vibration interference. Compared with photoelectric encoders, the inductive design is not afraid of harsh industrial environments and is particularly suitable for application scenarios such as wind power, construction machinery, robot joints, electric actuators, etc. that require high robustness and long-term stability. Since no contact measurement is required, the encoder also has the advantages of long service life and high repeatability.

United States market for Inductive Absolute Rotary Encoder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Inductive Absolute Rotary Encoder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Inductive Absolute Rotary Encoder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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Global key Inductive Absolute Rotary Encoder players cover FLUX, Hans Turck, Sentech, Novanta, POSIC, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Inductive Absolute Rotary Encoder Industry Forecast” looks at past sales and reviews total world Inductive Absolute Rotary Encoder sales in 2025, providing a comprehensive analysis by region and market sector of projected Inductive Absolute Rotary Encoder sales for 2026 through 2032. With Inductive 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 Inductive Absolute Rotary Encoder industry.

This Insight Report provides a comprehensive analysis of the global Inductive 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 Inductive 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 Inductive Absolute Rotary Encoder market.

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

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

Market Segmentation

Segmentation by Type:

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Single-Turn Encoder

Multi-Turn Encoder

Segmentation by Application:

Electric Motors

Mobile Device

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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- 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.

- FLUX
- Hans Turck
- Sentech
- Novanta
- POSIC

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Renishaw

Pepperl+Fuchs

HEIDENHAIN

Semiment Technology

Newall Electronics

AMO Automatisierung Messtechnik Optik

Texas Instruments

LENZ

Tamagawa

Key Questions Addressed in this Report

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

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

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

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

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

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