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# Global Dual Absolute Encoder Market Growth 2026-2032

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## Abstracts

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

A dual absolute encoder is an encoder that can output two absolute position information at the same time, one is the position of the motor shaft, and the other is the position of the robot arm joint. In this way, it can achieve full closed-loop control and improve the accuracy and stability of the robotic arm. Dual absolute encoders can also be used to measure the output torque of a joint by comparing the error values ??of the two encoders. The principle of dual absolute encoder is to install an absolute encoder on the motor shaft to detect the rotation speed and position of the motor. Install another absolute encoder on the robot arm joint to detect the angle and position of the joint. The signals from the two encoders are transmitted to the controller through an interface. The controller calculates the actual position and desired position of the joint based on the data from the two encoders, and then adjusts the drive current of the motor to make the joint reach the target position.The advantage of the dual absolute encoder is that it does not require a counter, does not require a zero point or a reference point, is not affected by power outages or interference, and each position has a unique code that can be read directly. The disadvantage of the dual absolute encoder is that its structure is relatively complex, the cost is relatively high, and it requires a dedicated interface and controller. Dual absolute encoders are mainly used in collaborative robots. Collaborative robots are robots that can work safely with humans. They require sensors and controllers with high precision, high sensitivity, high reliability and high safety. Dual absolute encoders can meet these requirements of collaborative robots and improve the performance and quality of collaborative robots.

United States market for Dual Absolute Encoder is estimated to increase from US$

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million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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

Global key Dual Absolute Encoder players cover Leine Linde, HEIDENHAIN, Encoder Products Company, Metoree, POSITAL, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

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

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

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Segmentation by Type:

- Optical Dual Absolute Encoder
- Magnetic Dual Absolute Encoder

Segmentation by Application:

- Achitechive
- Logistics Industry
- Automobile Industry
- Metallurgical Industry
- Chemical Industry
- PV Industry
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China

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- 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.

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Leine Linde

HEIDENHAIN

Encoder Products Company

Metoree

POSITAL

Renishaw

TR Electronic

Dynapar

Hengstler

Baumer

Pepperl+Fuchs

Sick

Tamagawa

Eltra

Lika Electronic

Key Questions Addressed in this Report

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

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

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

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

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

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