

# Global Dual Absolute Encoder Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Dual Absolute Encoder market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

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.

The Global Info Research report includes an overview of the development of the Dual Absolute Encoder industry chain, the market status of Achitechive (Optical Dual Absolute Encoder, Magnetic Dual Absolute Encoder), Logistics Industry (Optical Dual Absolute Encoder, Magnetic Dual Absolute Encoder), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Dual Absolute Encoder.

Regionally, the report analyzes the Dual Absolute Encoder markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Dual Absolute Encoder market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Dual Absolute Encoder market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Dual Absolute Encoder industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Optical Dual Absolute Encoder, Magnetic Dual Absolute Encoder).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Dual Absolute Encoder market.

**Regional Analysis:** The report involves examining the Dual Absolute Encoder market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Dual Absolute Encoder market. This may include

estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Dual Absolute Encoder:

**Company Analysis:** Report covers individual Dual Absolute Encoder manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Dual Absolute Encoder. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Architecture, Logistics Industry).

**Technology Analysis:** Report covers specific technologies relevant to Dual Absolute Encoder. It assesses the current state, advancements, and potential future developments in Dual Absolute Encoder areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Dual Absolute Encoder market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Dual Absolute Encoder market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Optical Dual Absolute Encoder

Magnetic Dual Absolute Encoder

## Market segment by Application

Achitechive

Logistics Industry

Automobile Industry

Metallurgical Industry

Chemical Industry

PV Industry

Others

## Major players covered

Leine Linde

HEIDENHAIN

Encoder Products Company

Metoree

POSITAL

Renishaw

TR Electronic

Dynapar

Hengstler

Baumer

Pepperl+Fuchs

Sick

Tamagawa

Eltra

Lika Electronic

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Dual Absolute Encoder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Dual Absolute Encoder, with price, sales, revenue and global market share of Dual Absolute Encoder from 2019 to 2024.

Chapter 3, the Dual Absolute Encoder competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Dual Absolute Encoder breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to

2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Dual Absolute Encoder market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Dual Absolute Encoder.

Chapter 14 and 15, to describe Dual Absolute Encoder sales channel, distributors, customers, research findings and conclusion.

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