

Global Absolute Rotary Encoders 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 Absolute Rotary Encoders market size was valued at USD 1517.9 million in 2023 and is forecast to a readjusted size of USD 2013 million by 2030 with a CAGR of 4.1% during review period.

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.

The Global Info Research report includes an overview of the development of the Absolute Rotary Encoders industry chain, the market status of Healthcare (Multi-Turn

Encoders, Single-Turn Encoders), Machine Tool (Multi-Turn Encoders, Single-Turn Encoders), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Absolute Rotary Encoders.

Regionally, the report analyzes the Absolute Rotary Encoders 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 Absolute Rotary Encoders market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Absolute Rotary Encoders 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 Absolute Rotary Encoders 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., Multi-Turn Encoders, Single-Turn Encoders).

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 Absolute Rotary Encoders market.

Regional Analysis: The report involves examining the Absolute Rotary Encoders 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 Absolute Rotary Encoders market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Absolute Rotary Encoders:

Company Analysis: Report covers individual Absolute Rotary Encoders 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 Absolute Rotary Encoders. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Healthcare, Machine Tool).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Absolute Rotary Encoders 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

Absolute Rotary Encoders 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

Multi-Turn Encoders

Single-Turn Encoders

Market segment by Application

Healthcare

Machine Tool

Consumer Electronics

Assembly Equipment

Others

Major players covered

Heidenhain

Tamagawa

Nemicon

P+F

TR Electronic

Baumer

Kuebler

Danaher

Omron

Koyo

Sensata(BEI)

Sick

Yuheng Optics

ELCO

Wuxi CREATE

Roundss

Sanfeng

Shanghai HOUDE

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 Absolute Rotary Encoders product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Absolute Rotary Encoders 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 Absolute Rotary Encoders 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 Absolute Rotary Encoders.

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

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