

Global Rotary Encoders Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Rotary Encoders market size will reach 3,141.54 Million USD in 2025 and is projected to reach 5,633.13 Million USD by 2032, with a CAGR of 8.70% (2025-2032). Notably, the China Rotary Encoders market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Rotary encoders are electromechanical devices used to convert the angular position or rotation of an object into an electrical signal. They typically consist of a rotating shaft, a disc with evenly spaced slots or marks, and sensors to detect the position of the marks as the shaft rotates. Rotary encoders can be incremental or absolute. Incremental rotary encoders generate pulses as the shaft rotates, allowing for relative position measurement and speed detection. Absolute rotary encoders provide a unique digital code for each position of the shaft, enabling precise position tracking without the need for a reference point. Rotary encoders are commonly used in various applications such as robotics, CNC machines, motor control systems, and industrial automation, where accurate position sensing and feedback are essential for proper operation. They offer advantages such as high resolution, reliability, and durability, making them indispensable components in many electromechanical systems.

The major global manufacturers of Rotary Encoders include Heidenhain, Danaher, Tamagawa, Baumer, Nemicon, P+F, Kubler, Koyo, Omron, Leine & Linde, Sick, TR

Electronic, BEI, Rep Avago, Yuheng Optics, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Rotary Encoders. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Rotary Encoders market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Rotary Encoders market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Rotary Encoders industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Rotary Encoders Include:

Heidenhain

Danaher

Tamagawa

Baumer

Nemicon

P+F

Kubler

Koyo

Omron

Leine & Linde

Sick

TR Electronic

BEI

Rep Avago

Yuheng Optics

Rotary Encoders Product Segment Include:

Incremental Rotary Encoders

Absolute Rotary Encoders

Rotary Encoders Product Application Include:

Elevator Industry

Machine Tool

Motor

Food & Packaging

Other

Chapter Scope

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