

# Global Absolute 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 Absolute Rotary Encoders market size will reach 1,823.97 Million USD in 2025 and is projected to reach 2,470.56 Million USD by 2032, with a CAGR of 4.43% (2025-2032). Notably, the China Absolute 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

An absolute rotary encoder is a type of position sensor that provides precise and absolute angular position information. It is commonly used in applications where knowing the exact position of a rotating object is crucial, such as in robotics, CNC machines, industrial automation, and motion control systems. Unlike incremental encoders that provide relative position information, absolute rotary encoders give a unique position value for each angular position, even after power loss or system restart. This is achieved through the use of multiple tracks or codes on the encoder disk, each representing a specific position. When the encoder rotates, the tracks are scanned or read by sensors to determine the absolute position. The position information is then transmitted as electrical signals, often in the form of binary or Gray code, to a control system or device for further processing and control. Absolute rotary encoders offer high accuracy, resolution, and repeatability, allowing for precise position control and feedback in various industrial and automation applications.

The major global manufacturers of Absolute Rotary Encoders include Pepperl+Fuchs,

RENISHAW, Omron, Baumer, RLS, Siko, IFM Electronic, Olympus, Contelec, K?bler Group, Broadcom, Sensata Technologies, Balluff, BRTE, Siko, Simphoenix, Calt, BEIFFDER, 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 Absolute 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 Absolute 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 Absolute 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 Absolute 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 Absolute Rotary Encoders Include:

Pepperl+Fuchs

RENISHAW

Omron

Baumer

RLS

Siko

IFM Electronic

Olympus

Contelec

K?bler Group

Broadcom

Sensata Technologies

Balluff

BRTE

Siko

Simphoenix

Calt

BEIFFDER

Absolute Rotary Encoders Product Segment Include:

Single-Turn Absolute Rotary Encoders

## Multi-Turn Absolute Rotary Encoders

Absolute Rotary Encoders Product Application Include:

Agriculture

Architecture

Forestry

Medical

Solar Panel

Automated Industry

### **Chapter Scope**

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