

# Global Wear-Free Rotary Encoder Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Wear-Free Rotary Encoder market size was valued at US\$ 268 million in 2024 and is forecast to a readjusted size of USD 437 million by 2031 with a CAGR of 7.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A wear-free rotary encoder is a sensor that uses non-contact sensing technology (such as magnetic induction, capacitive induction or photoelectric induction) to measure angle or position. Because of its no mechanical wear, long life and strong anti-interference ability, it is widely used in industrial automation, robotics, medical equipment, wind power generation, rail transit and other fields with high precision and high reliability requirements. In 2024, the global wear-free rotary encoder market size was approximately US\$260 million, and it is expected to continue to grow at an annual compound growth rate of approximately 8% in the future, benefiting from the increasing demand for high-performance sensors in smart manufacturing, Industry 4.0 and high-end equipment.

This report is a detailed and comprehensive analysis for global Wear-Free Rotary Encoder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Wear-Free Rotary Encoder market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Wear-Free Rotary Encoder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Wear-Free Rotary Encoder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Wear-Free Rotary Encoder market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Wear-Free Rotary Encoder
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Wear-Free Rotary Encoder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include IFM, SIKO, RLS, Contelec, Lenord Bauer, Baumer, NSD Group, Opkon, Citizen, TE Connectivity, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Wear-Free Rotary Encoder market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This

analysis can help you expand your business by targeting qualified niche markets.

### **Market segment by Type**

Absolute Rotary Encoder

Incremental Rotary Encoder

### **Market segment by Application**

New Energy And Electricity

Machine Tool

Motor

Food & Packaging

Others

### **Major players covered**

IFM

SIKO

RLS

Contelec

Lenord Bauer

Baumer

NSD Group

Opkon

Citizen

TE Connectivity

RENISHAW

K?BLER

Pepperl+Fuchs

Dynapar

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 Wear-Free Rotary Encoder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wear-Free Rotary Encoder, with price, sales quantity, revenue, and global market share of Wear-Free Rotary Encoder from 2020 to 2025.

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

Chapter 4, the Wear-Free Rotary Encoder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020

to 2025.and Wear-Free Rotary Encoder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Wear-Free Rotary Encoder.

Chapter 14 and 15, to describe Wear-Free Rotary Encoder sales channel, distributors, customers, research findings and conclusion.

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