

# Global Industrial Motion Control Rotary Encoders Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Industrial Motion Control Rotary Encoders market size was valued at US\$ 2791 million in 2025 and is forecast to a readjusted size of US\$ 5017 million by 2032 with a CAGR of 8.6% during review period.

Industrial Motion Control Rotary Encoders are high-precision feedback sensors used in motion control systems to measure the angular position, rotational speed, and direction of a rotating shaft, converting mechanical motion into high-resolution electrical or digital signals for precise closed-loop control of servo systems, robotics, and industrial automation equipment. These encoders are specifically designed for integration into motion control architectures, where high dynamic response, accurate positioning, and high reliability are required. Typical applications include servo motor feedback, industrial robot joint control, CNC machine tools, semiconductor manufacturing equipment, and advanced automated production lines. This definition focuses on high-precision motion control applications in industrial environments and excludes automotive position sensors, consumer-grade rotary input devices, and general low-end industrial angle sensing products. In 2025, global industrial motion control rotary encoder production reached approximately 37651 K Units. The industrial motion control rotary encoder industry is a core enabling sector for industrial automation and advanced motion control. Technologies include optical, magnetic, inductive, and resolver-based solutions. Upstream suppliers provide ASICs, MEMS sensors, optical components, and magnetic materials. Downstream applications span robotics, CNC machinery, servo systems, electric vehicles, and semiconductor equipment. Industry trends are moving toward higher precision, miniaturization, networking, and functional safety, with magnetic and inductive encoders showing the fastest growth in EV and robotics applications.

Industrial Motion Control Rotary Encoders are critical feedback components in modern industrial automation and high-end manufacturing systems. They convert rotational motion—such as angular position, speed, and direction—into electrical or digital signals, enabling high-precision closed-loop control in motion control systems. These encoders are deeply integrated into servo systems, industrial robotics, CNC machine tools, semiconductor manufacturing equipment, and advanced automated production lines. They play a key role in ensuring positioning accuracy, dynamic performance, and operational stability. In high-performance motion control architectures, rotary encoders work together with servo drives, controllers (PLC/CNC/IPC), and motors to form a complete closed-loop control system.

This report is a detailed and comprehensive analysis for global Industrial Motion Control Rotary Encoders 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 Industrial Motion Control Rotary Encoders market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Industrial Motion Control Rotary Encoders market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Industrial Motion Control Rotary Encoders market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Industrial Motion Control Rotary Encoders market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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

*Global Industrial Motion Control Rotary Encoders Market 2026 by Manufacturers, Regions, Type and Application,...*

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Industrial Motion Control Rotary Encoders

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 Industrial Motion Control Rotary Encoders 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 Heidenhain, Dynapar, Tamagawa, Baumer, Nemicon, P+F, TR Electronic, Kubler, Koyo, Omron, etc.

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

## Market Segmentation

Industrial Motion Control Rotary Encoders market is split by Type and by Application. For the period 2021-2032, 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

Optical Encoder

Magnetic Encoder

Others

### Market segment by Output Type

Incremental

Absolute

### Market segment by Mechanical Structure

Solid Shaft Encoder

Hollow Shaft Encoder

Others

### Market segment by Resolution/Accuracy

Low-resolution Encoder

Medium-resolution Encoder

High-resolution Encoder

Ultra-high Precision Encoder

### Market segment by Application

Elevator Industry

Machine Tool

Motor

Industrial Automation

Robotics

Others

### Major players covered

Heidenhain

Dynapar

Tamagawa

Baumer

Nemicon

P+F

TR Electronic

Kubler

Koyo

Omron

Leine & Linde

Sick

Sensata Technologies

Rep Avago

Yuheng Optics

Optotech

Reagle Sensing

KingKong Technology

Renishaw (RLS)

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 Industrial Motion Control Rotary Encoders product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Motion Control Rotary Encoders, with price, sales quantity, revenue, and global market share of Industrial Motion Control Rotary Encoders from 2021 to 2026.

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

Chapter 4, the Industrial Motion Control Rotary Encoders breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Industrial Motion Control Rotary Encoders market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Industrial Motion Control Rotary Encoders.

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

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