

# Global Industrial Motion Control Rotary Encoders Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Industrial Motion Control Rotary Encoders market size is expected to reach \$ 5017 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

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 studies the global Industrial Motion Control Rotary Encoders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Industrial Motion Control Rotary Encoders and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Industrial Motion Control Rotary Encoders that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Industrial Motion Control Rotary Encoders total production and demand, 2021-2032, (K Units)

Global Industrial Motion Control Rotary Encoders total production value, 2021-2032, (USD Million)

Global Industrial Motion Control Rotary Encoders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Industrial Motion Control Rotary Encoders consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Industrial Motion Control Rotary Encoders domestic production, consumption, key domestic manufacturers and share

Global Industrial Motion Control Rotary Encoders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Industrial Motion Control Rotary Encoders production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Industrial Motion Control Rotary Encoders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Industrial Motion Control Rotary Encoders

market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Industrial Motion Control Rotary Encoders market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Industrial Motion Control Rotary Encoders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Industrial Motion Control Rotary Encoders Market, Segmentation by Type:

Optical Encoder

Magnetic Encoder

Others

Global Industrial Motion Control Rotary Encoders Market, Segmentation by Output Type:

Incremental

Absolute

Global Industrial Motion Control Rotary Encoders Market, Segmentation by Mechanical Structure:

Solid Shaft Encoder

Hollow Shaft Encoder

Others

Global Industrial Motion Control Rotary Encoders Market, Segmentation by Resolution/Accuracy:

Low-resolution Encoder

Medium-resolution Encoder

High-resolution Encoder

Ultra-high Precision Encoder

Global Industrial Motion Control Rotary Encoders Market, Segmentation by Application:

Elevator Industry

Machine Tool

Motor

Industrial Automation

Robotics

Others

**Companies Profiled:**

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)

#### Key Questions Answered:

1. How big is the global Industrial Motion Control Rotary Encoders market?
2. What is the demand of the global Industrial Motion Control Rotary Encoders market?
3. What is the year over year growth of the global Industrial Motion Control Rotary Encoders market?
4. What is the production and production value of the global Industrial Motion Control Rotary Encoders market?
5. Who are the key producers in the global Industrial Motion Control Rotary Encoders market?
6. What are the growth factors driving the market demand?

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