

Global Incremental Encoders for Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Incremental Encoders for Robots market size is expected to reach \$ 1383 million by 2032, rising at a market growth of 11.1% CAGR during the forecast period (2026-2032).

Incremental encoders for robots are motion feedback devices used to measure rotational or linear movement by generating pulse signals as the robot joint, motor, or actuator moves. Unlike absolute encoders, incremental encoders do not provide a unique position value immediately after power-on; instead, they calculate position, speed, and direction by counting pulses from a reference point. They are widely used in industrial robots, collaborative robots, mobile robots, service robots, and robotic automation systems. Incremental encoders are valued for their relatively simple structure, fast response, compact size, cost efficiency, and suitability for motor control, speed feedback, and repetitive motion positioning.

Global production capacity is approximately 10 million units.

In 2025, global sales reached approximately 6.1 million units, with an average price of around US\$ 105 per unit, gross margin around 34%.

The incremental encoders for robots remain a practical and widely used feedback solution in robotic motion control. While absolute encoders are increasingly adopted in high-end and safety-critical robotic systems, incremental encoders continue to offer advantages in cost, speed measurement, compact design, and simple integration. Their demand is expected to remain stable in industrial robots, mobile robots, collaborative robots, grippers, auxiliary axes, and general automation equipment. Future competition will focus on resolution, reliability, miniaturization, environmental resistance, signal quality, interface compatibility, and total cost. Incremental encoders will continue to play

an important role in robot motor control and motion feedback systems.

Market Trend

The incremental encoders for robots market is moving toward higher resolution, smaller size, stronger anti-interference capability, and better integration with servo motors and robotic joints. As robots become more compact, lightweight, and precise, encoder suppliers are developing miniaturized products with improved signal stability and higher pulse output accuracy. Demand is also increasing for magnetic and optical incremental encoders that can operate reliably in harsh industrial environments. Although absolute encoders are gaining share in high-end robots, incremental encoders remain important in cost-sensitive applications, auxiliary axes, mobile robots, grippers, and general automation systems where speed feedback and repeatable motion control are required.

Market Drive

The main driver of the incremental encoders for robots market is the continued expansion of robot adoption in manufacturing, logistics, electronics, automotive, healthcare, and service industries. Robots require accurate feedback to control motor speed, joint movement, position repeatability, and motion stability. Incremental encoders provide a cost-effective solution for many robotic systems, especially where absolute position memory is not essential. Growth in industrial automation, collaborative robots, AGVs, AMRs, robotic arms, packaging robots, and warehouse automation supports demand. In addition, pressure to improve production efficiency, reduce labor dependence, and enhance motion control precision is encouraging wider use of encoder-based feedback systems.

Upstream and Downstream

The upstream supply chain of incremental encoders for robots includes optical discs, magnetic sensors, Hall elements, LEDs, photodiodes, ASIC chips, bearings, shafts, housings, cables, connectors, precision machining parts, and signal processing components. Key upstream suppliers include semiconductor companies, sensor manufacturers, optical component suppliers, magnetic material producers, bearing makers, and electronic component companies. Midstream companies design and manufacture incremental rotary encoders, linear encoders, motor feedback encoders, and integrated encoder modules. Downstream customers include robot OEMs, servo motor manufacturers, industrial automation companies, CNC equipment makers, logistics robot producers, medical robot developers, and system integrators serving

smart manufacturing and automation projects.

This report studies the global Incremental Encoders for Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Incremental Encoders for Robots 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 Incremental Encoders for Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Incremental Encoders for Robots total production and demand, 2021-2032, (K Units)

Global Incremental Encoders for Robots total production value, 2021-2032, (USD Million)

Global Incremental Encoders for Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Incremental Encoders for Robots consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Incremental Encoders for Robots domestic production, consumption, key domestic manufacturers and share

Global Incremental Encoders for Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Incremental Encoders for Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Incremental Encoders for Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Incremental Encoders for Robots 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, Renishaw, Tamagawa Seiki, Omron, SICK, FAULHABER, Rockwell Automation, Inovance, Broadcom, Nikon, 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 Incremental Encoders for Robots 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 Incremental Encoders for Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Incremental Encoders for Robots Market, Segmentation by Type:

Hollow Shaft

Solid Shaft

Global Incremental Encoders for Robots Market, Segmentation by Sensing Technology:

Optical Encoders

Magnetic Encoders

Capacitive Encoders

Inductive Encoders

Global Incremental Encoders for Robots Market, Segmentation by Motion:

Rotary Encoders

Linear Encoders

Global Incremental Encoders for Robots Market, Segmentation by Application:

Industrial Robot

Collaborative Robot

Service Robot

Companies Profiled:

Heidenhain

Renishaw

Tamagawa Seiki

Omron

SICK

FAULHABER

Rockwell Automation

Inovance

Broadcom

Nikon

Maxon Motor

Baumer

RLS

HCFA

KingKong Technology

Yuheng Optics

POSITAL

Encoder Products Company

ZeroErr

K?bler

Dynapar Encoders

SIKO

Hengstler

Guangzhou Haozhi Industrial

Balluff

Key Questions Answered:

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

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