

Global Incremental Encoders for Robots Market Growth 2026-2032

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Abstracts

The global Incremental Encoders for Robots market size is predicted to grow from US\$ 628 million in 2025 to US\$ 1365 million in 2032; it is expected to grow at a CAGR of 11.8% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the ?Incremental Encoders for Robots Industry Forecast? looks at past sales and reviews total world Incremental Encoders for Robots sales in 2025, providing a comprehensive analysis by region and market sector of projected Incremental Encoders for Robots sales for 2026 through 2032. With Incremental Encoders for Robots sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Incremental Encoders for Robots industry.

This Insight Report provides a comprehensive analysis of the global Incremental Encoders for Robots landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Incremental Encoders for Robots portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Incremental Encoders for Robots market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Incremental Encoders for Robots and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Incremental Encoders for Robots.

This report presents a comprehensive overview, market shares, and growth opportunities of Incremental Encoders for Robots market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Hollow Shaft

Solid Shaft

Segmentation by Sensing Technology:

Optical Encoders

Magnetic Encoders

Capacitive Encoders

Inductive Encoders

Segmentation by Motion:

Rotary Encoders

Linear Encoders

Segmentation by Application:

Industrial Robot

Collaborative Robot

Service Robot

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Incremental Encoders for Robots market?

What factors are driving Incremental Encoders for Robots market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Incremental Encoders for Robots market opportunities vary by end market size?

How does Incremental Encoders for Robots break out by Type, by Application?

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