

Global Absolute Encoders for Robots Market Growth 2026-2032

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Abstracts

The global Absolute Encoders for Robots market size is predicted to grow from US\$ 767 million in 2025 to US\$ 1748 million in 2032; it is expected to grow at a CAGR of 12.7% from 2026 to 2032.

Absolute encoders for robots are precision position feedback devices that provide a unique digital position value for each shaft or joint position. They are used in robot joints, servo motors, actuators, grippers, mobile robot wheels, and precision motion modules to measure angular or linear position accurately. Unlike incremental encoders, absolute encoders can provide position information immediately after power-on without requiring a homing process. They can be single-turn or multi-turn, depending on whether they measure position within one revolution or across multiple rotations. In robotic systems, absolute encoders improve positioning accuracy, safety, repeatability, and motion control reliability.

Global production capacity is approximately 10 million units.

In 2025, global sales reached approximately 5.3 million units, with an average price of around US\$ 148 per unit, gross margin around 36%.

The absolute encoders for robots are becoming increasingly important as robotic systems move toward higher precision, higher safety, and more intelligent motion control. Compared with incremental encoders, they offer stronger advantages in position retention, startup efficiency, multi-axis coordination, and safety-critical applications. Although their cost is generally higher, their value is significant in industrial robots, collaborative robots, humanoid robots, medical robots, and advanced servo systems. Future competition will focus on resolution, compactness, reliability, interface

compatibility, anti-interference performance, functional safety, and integration with robotic joints. As robot adoption expands, absolute encoders are expected to maintain strong growth potential.

Market Trend

The absolute encoders for robots market is moving toward higher resolution, miniaturization, multi-turn capability, stronger environmental resistance, and deeper integration with robotic joints and servo systems. As industrial robots, collaborative robots, humanoid robots, medical robots, and mobile robots require more precise and safer motion control, demand for compact high-performance absolute encoders is increasing. Magnetic and optical technologies are both evolving, while modular and bearingless encoder designs are gaining attention for lightweight robotic joints. Suppliers are also improving communication interfaces, signal stability, functional safety features, and compatibility with EtherCAT, BiSS, SSI, CANopen, and other industrial control protocols.

Market Drive

The main driver of the absolute encoders for robots market is the rising demand for precise, safe, and reliable robotic motion control. Robots increasingly operate in complex environments where joint position must be known immediately after startup, emergency stop, power loss, or manual movement. Absolute encoders help reduce homing time, improve production efficiency, and enhance safety in multi-axis systems. Growth in industrial automation, collaborative robots, logistics robots, surgical robots, semiconductor equipment, humanoid robots, and high-end servo systems is supporting adoption. In addition, stricter requirements for repeatability, uptime, predictive maintenance, and intelligent motion control are pushing robot manufacturers toward absolute feedback solutions.

Upstream and Downstream

The upstream supply chain of absolute encoders for robots includes optical code discs, magnetic sensors, Hall sensors, magnetoresistive chips, ASICs, LEDs, photodiodes, bearings, shafts, housings, cables, connectors, communication interface chips, and precision machining components. Key upstream suppliers include semiconductor companies, sensor manufacturers, optical component suppliers, magnetic material producers, bearing manufacturers, and electronic component providers. Midstream companies design and manufacture single-turn absolute encoders, multi-turn absolute

encoders, motor feedback encoders, modular encoders, and integrated robotic joint feedback modules. Downstream customers include robot OEMs, servo motor manufacturers, collaborative robot companies, humanoid robot developers, medical robot makers, automation integrators, and industrial equipment manufacturers.

LP Information, Inc. (LPI) ' newest research report, the ?Absolute Encoders for Robots Industry Forecast? looks at past sales and reviews total world Absolute Encoders for Robots sales in 2025, providing a comprehensive analysis by region and market sector of projected Absolute Encoders for Robots sales for 2026 through 2032. With Absolute 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 Absolute Encoders for Robots industry.

This Insight Report provides a comprehensive analysis of the global Absolute 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 Absolute 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 Absolute Encoders for Robots market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Absolute 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 Absolute Encoders for Robots.

This report presents a comprehensive overview, market shares, and growth opportunities of Absolute 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 Absolute Encoders for Robots market?

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

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

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

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

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