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

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Abstracts

The global Absolute Encoders for Robots market size is expected to reach $ 1767 million by 2032, rising at a market growth of 11.9% CAGR during the forecast period (2026-2032).

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

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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

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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.

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

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

Highlights and key features of the study
Global Absolute Encoders for Robots total production and demand, 2021-2032, (K Units)
Global Absolute Encoders for Robots total production value, 2021-2032, (USD Million)
Global Absolute Encoders for Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Absolute Encoders for Robots consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Absolute Encoders for Robots domestic production, consumption, key domestic manufacturers and share
Global Absolute Encoders for Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Absolute Encoders for Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Absolute Encoders for Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Absolute 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.

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Absolute 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 Absolute Encoders for Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Absolute Encoders for Robots Market, Segmentation by Type:

Hollow Shaft

Solid Shaft

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

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Optical Encoders

Magnetic Encoders

Capacitive Encoders

Inductive Encoders

Global Absolute Encoders for Robots Market, Segmentation by Motion:

Rotary Encoders

Linear Encoders

Global Absolute Encoders for Robots Market, Segmentation by Application:

Industrial Robot

Collaborative Robot

Service Robot

Companies Profiled:

Heidenhain

Renishaw

Tamagawa Seiki

Omron

SICK

FAULHABER

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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

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Key Questions Answered:

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

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