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Global Robot Joint Encoder Market Growth 2026-2032

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Abstracts

The global Robot Joint Encoder market size is predicted to grow from US$ 394 million in 2025 to US$ 1720 million in 2032; it is expected to grow at a CAGR of 23.1% from 2026 to 2032.

Robot Joint Encoder refers to rotary or angular position sensing devices used in robot joints to measure joint angle, rotational position, speed, direction, and motion feedback for closed-loop control. These encoders are installed in servo motors, harmonic drive joints, cycloidal drive joints, direct-drive joints, humanoid robot joints, collaborative robot joints, robotic arms, robotic hands, AGVs, AMRs, and other robotic motion modules. In this report, the market mainly includes absolute encoders, incremental encoders, magnetic encoders, optical encoders, inductive encoders, capacitive encoders, hollow-shaft encoders, frameless kit encoders, motor feedback encoders, secondary joint encoders, and dual-encoder solutions for robot joint control. The 2025 benchmark ASP is US$42 / unit, shipment volume is 9,600k units, and average gross margin is 40%. The upstream industry chain includes magnetic chips, optical gratings, code discs, ASICs, Hall sensors, photodiodes, LED light sources, PCB assemblies, bearings, housings, connectors, cables, sealing materials, and signal processing components. The midstream includes encoder structure design, sensing element integration, precision assembly, calibration, signal processing development, resolution testing, accuracy testing, environmental testing, and robot joint integration. The downstream includes industrial robotics, humanoid robotics, collaborative robotics, service robotics, medical robotics, logistics automation, mobile robots, consumer robotics, and research and education robotics.

Robot joint encoders are becoming more important as robots require higher motion accuracy, better torque control, safer human-robot interaction, and more reliable joint state feedback. In humanoid robots and collaborative robots, compact and high-resolution encoders are critical for joint position detection, balance control, motion

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planning, and force-sensitive interaction. The market is shifting toward absolute position feedback, hollow-shaft and frameless designs, dual-encoder joint architectures, higher resolution, lower latency, stronger anti-interference performance, and improved integration with compact actuator modules. Demand is supported by the expansion of humanoid robots, robotic arms, AGVs, AMRs, medical robots, and high-precision industrial automation. As robot joints become smaller, more integrated, and more intelligent, encoders will remain a key sensing component for precise motion control.

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

This Insight Report provides a comprehensive analysis of the global Robot Joint Encoder 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 Robot Joint Encoder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Robot Joint Encoder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robot Joint Encoder 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 Robot Joint Encoder.

This report presents a comprehensive overview, market shares, and growth opportunities of Robot Joint Encoder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Multi-Turn Encoder

Single-Turn Encoder

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Segmentation by Resolution Level:

Standard-Resolution Encoder

High-Resolution Encoder

Ultra-High-Resolution Encoder

Segmentation by Integration Level:

Standalone Encoder

Motor-Integrated Encoder

Joint-Module Integrated Encoder

Segmentation by Application:

Industrial Robotics

Collaborative Robotics

Service Robotics

Medical Robotics

Others

This report also splits the market by region:

Americas

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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

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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

RLS

Celera Motion

Netzer Precision

POSITAL

Tamagawa Seiki

SIKO

Lika Electronic

PWB Encoders

Broadcom

Mosrac

Key Questions Addressed in this Report

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What is the 10-year outlook for the global Robot Joint Encoder market?

What factors are driving Robot Joint Encoder market growth, globally and by region?

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

How do Robot Joint Encoder market opportunities vary by end market size?

How does Robot Joint Encoder break out by Type, by Application?

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