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Global Robot Joint Encoder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robot Joint Encoder market size is expected to reach $ 1693 million by 2032, rising at a market growth of 21.7% CAGR during the forecast period (2026-2032).

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-

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resolution encoders are critical for joint position detection, balance control, motion 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.

This report studies the global Robot Joint Encoder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robot Joint Encoder 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 Robot Joint Encoder that contribute to its increasing demand across many markets.

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

This report profiles key players in the global Robot Joint Encoder 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, RLS, Celera Motion, Netzer Precision, POSITAL, Tamagawa Seiki, SIKO, Lika Electronic, PWB Encoders,

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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 Robot Joint Encoder 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 Robot Joint Encoder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot Joint Encoder Market, Segmentation by Type:

Multi-Turn Encoder

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Single-Turn Encoder

Global Robot Joint Encoder Market, Segmentation by Resolution Level:

Standard-Resolution Encoder

High-Resolution Encoder

Ultra-High-Resolution Encoder

Global Robot Joint Encoder Market, Segmentation by Integration Level:

Standalone Encoder

Motor-Integrated Encoder

Joint-Module Integrated Encoder

Global Robot Joint Encoder Market, Segmentation by Application:

Industrial Robotics

Collaborative Robotics

Service Robotics

Medical Robotics

Others

Companies Profiled:

HEIDENHAIN

Renishaw

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RLS

Celera Motion

Netzer Precision

POSITAL

Tamagawa Seiki

SIKO

Lika Electronic

PWB Encoders

Broadcom

Mosrac

Key Questions Answered:
1. How big is the global Robot Joint Encoder market?
2. What is the demand of the global Robot Joint Encoder market?
3. What is the year over year growth of the global Robot Joint Encoder market?
4. What is the production and production value of the global Robot Joint Encoder market?
5. Who are the key producers in the global Robot Joint Encoder market?
6. What are the growth factors driving the market demand?

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