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Global Magnetic Encoders for Humanoid Robot Joints Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Magnetic Encoders for Humanoid Robot Joints market size was valued at US$ 24.69 million in 2025 and is forecast to a readjusted size of US$ 308 million by 2032 with a CAGR of 37.1% during review period.

Magnetic encoders for humanoid robot joints are electronic position sensing components used to provide angular position, speed feedback, and closed-loop control signals in humanoid robot joints. The product mainly focuses on rotary or oscillating joints such as shoulder, elbow, wrist, hip, knee, ankle, waist, neck, and dexterous hand joints. A typical device consists of a magnetic ring or magnet, magnetic sensing chip, readhead, printed circuit board, signal conditioning circuit, communication interface, and calibration algorithm. Main product forms include magnetic absolute encoders, magnetic incremental encoders, hollow-shaft magnetic encoders, off-axis magnetic encoders, magnetic ring and readhead assemblies, and magnetic position sensing solutions. Common sensing technologies include Hall, AMR, GMR, and TMR technologies. Key specifications include resolution, accuracy, repeatability, response speed, anti-interference capability, operating temperature range, installation tolerance, outer diameter, thickness, communication protocol, and long-term reliability. The core function of the product is to provide real-time position feedback for joint actuators, servo motors, reducers, and motion control systems, thereby improving motion stability, control accuracy, synchronization, and safety redundancy of humanoid robots. In early-stage humanoid robot applications, magnetic encoders are valued for compact size, non-contact operation, vibration resistance, contamination tolerance, and easier integration into high-density joint modules. In 2025, the global average selling price of magnetic encoders for humanoid robot joints is estimated at about USD 18 to USD 35 per unit,

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and the industry average gross margin is estimated at about 35% to 60%.

Magnetic encoders for humanoid robot joints are positioned as midstream core sensing components in the humanoid robot supply chain. The upstream side includes magnetic sensing chips, magnetic rings or magnets, PCBs, signal conditioning circuits, packaging, calibration algorithms, and precision mechanical parts. The downstream side mainly includes humanoid robot OEMs, joint module suppliers, servo actuator manufacturers, and dexterous hand solution providers. The value of this product does not come only from unit price, but from high usage per robot, strict integration requirements, and its direct impact on joint feedback, motion stability, and safety control. The competitive landscape is shifting from traditional industrial encoder suppliers toward robot-oriented sensing solution providers. Overseas companies still have advantages in high-precision magnetic encoders, magnetic position sensor chips, and industrial motion control experience. Chinese suppliers are accelerating entry due to local humanoid robot development, joint module localization, and servo system supply chain upgrading. Competition is not yet fully consolidated, and future market share will depend on customer qualification, reliability testing, batch delivery capability, and the ability to co-design with compact joint modules. The policy and investment environment is supportive. Industrial automation, robotics, advanced sensors, and high-end equipment policies are encouraging the localization of key components, while robot OEMs and actuator suppliers are increasing investment in joint modules and feedback systems. Product development is moving toward smaller size, higher resolution, stronger anti-interference capability, safety redundancy, lower power consumption, and lower cost. In the short term, market growth is still constrained by the pace of humanoid robot commercialization, but as prototypes move into small-batch deployment, magnetic encoders are expected to become a fast-growing sensing component category within the humanoid robot joint supply chain.

This report is a detailed and comprehensive analysis for global Magnetic Encoders for Humanoid Robot Joints market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Output Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

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Global Magnetic Encoders for Humanoid Robot Joints market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Magnetic Encoders for Humanoid Robot Joints market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Magnetic Encoders for Humanoid Robot Joints market size and forecasts, by Output Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Magnetic Encoders for Humanoid Robot Joints market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Magnetic Encoders for Humanoid Robot Joints

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Magnetic Encoders for Humanoid Robot Joints market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Renishaw plc, Melexis NV, Timken Encoders, POSITAL, ZeroErr, MultiDimension Technology Co., Ltd., SIKO GmbH, ams OSRAM AG, Infineon Technologies AG, Allegro MicroSystems, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

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Magnetic Encoders for Humanoid Robot Joints market is split by Output Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Output Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Output Type

- Absolute Magnetic Encoder
- Incremental Magnetic Encoder
- Dual Magnetic Encoder
- Others

Market segment by Sensing Technology

- Hall Magnetic Encoder
- AMR Magnetic Encoder
- GMR Magnetic Encoder
- TMR Magnetic Encoder
- Others

Market segment by Customer Type

- Humanoid Robot OEMs
- Joint Module and Actuator Suppliers
- Servo Motor and Motion Control Suppliers

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Dexterous Hand Suppliers

Research and Prototype Customers

Others

Market segment by Joint Application

Finger Joints

Neck Joint

Waist Joint

Hip Joint

Shoulder Joint

Elbow Joint

Others

Market segment by Application

Industrial Manufacturing

Logistics and Warehousing

Commercial Services

Medical and Rehabilitation

Education and Research

Home and Personal Assistance

Others

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Major players covered

- Renishaw plc
- Melexis NV
- Timken Encoders
- POSITAL
- ZeroErr
- MultiDimension Technology Co., Ltd.
- SIKO GmbH
- ams OSRAM AG
- Infineon Technologies AG
- Allegro MicroSystems, Inc.
- Tamagawa Seiki Co., Ltd.
- Sensata Technologies, Inc.
- TDK Corporation
- K?bler Group

Market segment by region, regional analysis covers

- North America (United States, Canada, and Mexico)
- Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Magnetic Encoders for Humanoid Robot Joints product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnetic Encoders for Humanoid Robot Joints, with price, sales quantity, revenue, and global market share of Magnetic Encoders for Humanoid Robot Joints from 2021 to 2026.

Chapter 3, the Magnetic Encoders for Humanoid Robot Joints competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnetic Encoders for Humanoid Robot Joints breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Output Type and by Application, with sales market share and growth rate by Output Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Magnetic Encoders for Humanoid Robot Joints market forecast, by regions, by Output Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Magnetic Encoders for Humanoid Robot Joints.

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Chapter 14 and 15, to describe Magnetic Encoders for Humanoid Robot Joints sales channel, distributors, customers, research findings and conclusion.

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