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# Global Magnetic Encoders for Humanoid Robot Joints Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Magnetic Encoders for Humanoid Robot Joints market size is expected to reach $ 308 million by 2032, rising at a market growth of 37.1% CAGR during the forecast period (2026-2032).

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

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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 studies the global Magnetic Encoders for Humanoid Robot Joints production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global Magnetic Encoders for Humanoid Robot Joints total production and demand, 2021-2032, (Units)

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Global Magnetic Encoders for Humanoid Robot Joints total production value, 2021-2032, (USD Million)
Global Magnetic Encoders for Humanoid Robot Joints production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Magnetic Encoders for Humanoid Robot Joints consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Magnetic Encoders for Humanoid Robot Joints domestic production, consumption, key domestic manufacturers and share
Global Magnetic Encoders for Humanoid Robot Joints production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Magnetic Encoders for Humanoid Robot Joints production by Output Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Magnetic Encoders for Humanoid Robot Joints production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Magnetic Encoders for Humanoid Robot Joints 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnetic Encoders for Humanoid Robot Joints market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by manufacturer, by Output 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 Magnetic Encoders for Humanoid Robot Joints Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetic Encoders for Humanoid Robot Joints Market, Segmentation by Output Type:

Absolute Magnetic Encoder

Incremental Magnetic Encoder

Dual Magnetic Encoder

Others

Global Magnetic Encoders for Humanoid Robot Joints Market, Segmentation by Sensing Technology:

Hall Magnetic Encoder

AMR Magnetic Encoder

GMR Magnetic Encoder

TMR Magnetic Encoder

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Others

Global Magnetic Encoders for Humanoid Robot Joints Market, Segmentation by Customer Type:

Humanoid Robot OEMs

Joint Module and Actuator Suppliers

Servo Motor and Motion Control Suppliers

Dexterous Hand Suppliers

Research and Prototype Customers

Others

Global Magnetic Encoders for Humanoid Robot Joints Market, Segmentation by Joint Application:

Finger Joints

Neck Joint

Waist Joint

Hip Joint

Shoulder Joint

Elbow Joint

Others

Global Magnetic Encoders for Humanoid Robot Joints Market, Segmentation by

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Application:

- Industrial Manufacturing
- Logistics and Warehousing
- Commercial Services
- Medical and Rehabilitation
- Education and Research
- Home and Personal Assistance
- Others

Companies Profiled:

- Renishaw plc
- Melexis NV
- Timken Encoders
- POSITAL
- ZeroErr
- MultiDimension Technology Co., Ltd.
- SIKO GmbH
- ams OSRAM AG
- Infineon Technologies AG
- Allegro MicroSystems, Inc.

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Tamagawa Seiki Co., Ltd.

Sensata Technologies, Inc.

TDK Corporation

K?bler Group

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

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