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Global Humanoid Robot Integrated Joint Actuator Market Growth 2026-2032

https://marketpublishers.com/r/GDEDD7DE6D75EN.html
Date: October 2026
Pages: 126
Price: US$ 3,660.00 (Single User License)
ID: GDEDD7DE6D75EN

Abstracts

The global Humanoid Robot Integrated Joint Actuator market size is predicted to grow from US$ 247 million in 2025 to US$ 8725 million in 2032; it is expected to grow at a CAGR of 52.1% from 2026 to 2032.

Humanoid Robot Integrated Joint Actuator refers to a highly integrated joint motion unit used in humanoid robots, which combines motor, reducer, encoder, driver, controller, sensor, bearing, brake, housing and wiring structure into one compact module. Its function is to convert electrical energy and control signals into precise torque, speed, position and force output, enabling humanoid robots to complete walking, balancing, arm swinging, grasping, lifting, squatting, turning and other human-like movements. Compared with separated motor-and-transmission solutions, an integrated joint actuator has higher structural compactness, easier installation, better system consistency and stronger modularity. It is widely used in shoulder joints, elbow joints, wrist joints, waist joints, hip joints, knee joints, ankle joints and some hand or finger joints. The product usually needs to meet requirements such as high torque density, light weight, high response speed, accurate feedback, low noise, strong impact resistance, good heat dissipation and long service life.

The main raw materials and components of humanoid robot integrated joint actuators include frameless torque motors, brushless DC motors, coreless motors, harmonic reducers, planetary reducers, cycloidal reducers, ball screws, planetary roller screws, bearings, encoders, torque sensors, force sensors, magnetic steel, copper wire, silicon steel sheets, aluminum alloy housings, steel shafts, precision gears, lubricants, seals, fasteners, power chips, motor drivers, control boards, cables, connectors and thermal management materials. The upstream supply chain mainly includes motor suppliers, precision reducer manufacturers, screw and bearing companies, sensor suppliers,

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semiconductor and power device companies, precision machining suppliers, aluminum alloy and steel material suppliers, and motion control software providers. Downstream customers mainly include humanoid robot manufacturers, embodied intelligence companies, service robot companies, industrial robot companies, automation equipment manufacturers, research institutions and education platforms. These customers generally focus on torque output, motion accuracy, reliability, batch consistency, modular installation, maintenance convenience, cost reduction potential and compatibility with robot control systems.

In 2025, global Humanoid Robot Integrated Joint Actuator production reached approximately 567 thousand units, with an average market price of around US$445 per unit.

The humanoid robot integrated joint actuator market is developing together with humanoid robots, embodied intelligence, advanced motion control and intelligent manufacturing. As one of the most important motion modules in humanoid robots, integrated joint actuators directly affect walking stability, limb flexibility, load capacity, energy efficiency and human-robot interaction safety. The market is still in the early stage of commercialization, but demand is gradually shifting from prototype development to small-batch production and early mass-production preparation. Robot manufacturers are increasingly looking for standardized and modular joint actuator solutions because they can reduce mechanical design complexity, shorten development cycles, improve assembly efficiency and enhance product consistency.

From a regional perspective, China is becoming an important supply chain and manufacturing base, supported by local motor, reducer, sensor, machining, electronics and robot companies. North America has advantages in humanoid robot platforms, AI systems, embodied intelligence algorithms and high-end robotics applications. Europe has a strong foundation in precision transmission, motion control, mechatronics and industrial automation. Japan and South Korea have accumulated capabilities in motors, reducers, electronic components, precision manufacturing and robotics. In terms of technology trends, products are moving toward higher integration, higher torque density, lighter weight, smaller size, better backdrivability, stronger force control capability, lower noise, lower cost and easier maintenance. Drive-control integration, sensor integration, lightweight housing design, standardized interfaces and modular replacement are becoming important directions.

The growth drivers of this market are relatively strong. First, humanoid robot commercialization is accelerating, directly increasing demand for integrated joint

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actuators. Second, each humanoid robot requires many joint modules, so actuator demand can expand quickly once robot shipments increase. Third, embodied intelligence and AI model development improve robot perception, planning and control, which raises the requirement for high-performance motion hardware. Fourth, industrial manufacturing, warehousing and logistics, commercial service, healthcare, education, research and home service applications provide broad downstream potential. Fifth, robot companies prefer integrated joint actuators because they simplify design, reduce assembly difficulty and improve system reliability. Sixth, localization of motors, reducers, encoders, sensors and control electronics helps reduce cost and improve supply stability. Seventh, advances in precision machining, power electronics, materials, thermal management and control algorithms are improving actuator performance. Eighth, the demand for stable walking, dexterous operation, safe interaction and force-controlled movement is pushing the market toward high-precision and compliant joint modules. However, the industry still faces challenges such as high cost, difficult thermal management, strict reliability requirements, limited mass-production experience, complex structural design and competition among different transmission routes.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Humanoid Robot Integrated Joint Actuator 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

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nuanced view of the current state and future trajectory in the global Humanoid Robot Integrated Joint Actuator.

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

Segmentation by Type:

Rotary Actuator

Linear Actuator

Segmentation by Joint Position:

Shoulder Joint Actuator

Elbow Joint Actuator

Wrist Joint Actuator

Waist Joint Actuator

Hip Joint Actuator

Knee Joint Actuator

Ankle Joint Actuator

Hand/Finger Actuator

Segmentation by Application:

Industrial Manufacturing

Warehousing and Logistics

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Commercial Service

Healthcare and Elderly Care

Home Service

Research and Education

Security and Special Operations

Entertainment and Exhibition

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

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India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

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.

Robotis

Schaeffler

Techsoft Robotics

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MyActuator

CubeMars

HEBI Robotics

Harmonic Drive Syste

Zeroerr Robotics

Unitree Robotics

Laifual Drive

Suzhou Honpine Precision Industry

Ti5 Robot

TC Drive

EYOU Robot

Synapticon

Sanhua Intelligent Controls

Shenzhen VEICHI Electric

Ningbo Zhenyu Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Humanoid Robot Integrated Joint Actuator market?

What factors are driving Humanoid Robot Integrated Joint Actuator market growth, globally and by region?

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

How do Humanoid Robot Integrated Joint Actuator market opportunities vary by end market size?

How does Humanoid Robot Integrated Joint Actuator break out by Type, by Application?

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