

Global Humanoid Robot Integrated Joint Actuator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Humanoid Robot Integrated Joint Actuator market size is expected to reach \$ 8125 million by 2032, rising at a market growth of 49.1% CAGR during the forecast period (2026-2032).

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,

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

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.

This report studies the global Humanoid Robot Integrated Joint Actuator production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Humanoid Robot Integrated Joint Actuator total production and demand, 2021-2032, (K Units)

Global Humanoid Robot Integrated Joint Actuator total production value, 2021-2032, (USD Million)

Global Humanoid Robot Integrated Joint Actuator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Humanoid Robot Integrated Joint Actuator consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Humanoid Robot Integrated Joint Actuator domestic production, consumption, key domestic manufacturers and share

Global Humanoid Robot Integrated Joint Actuator production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Humanoid Robot Integrated Joint Actuator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Humanoid Robot Integrated Joint Actuator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Humanoid Robot Integrated Joint Actuator 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 Robotis, Schaeffler, Techsoft Robotics, MyActuator, CubeMars, HEBI Robotics, Harmonic Drive Systeme, Zeroerr Robotics, Unitree Robotics, Laifual Drive, 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 Humanoid Robot Integrated Joint Actuator 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 Humanoid Robot Integrated Joint Actuator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Humanoid Robot Integrated Joint Actuator Market, Segmentation by Type:

Rotary Actuator

Linear Actuator

Global Humanoid Robot Integrated Joint Actuator Market, 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

Global Humanoid Robot Integrated Joint Actuator Market, Segmentation by Application:

Industrial Manufacturing

Warehousing and Logistics

Commercial Service

Healthcare and Elderly Care

Home Service

Research and Education

Security and Special Operations

Entertainment and Exhibition

Others

Companies Profiled:

Robotis

Schaeffler

Techsoft Robotics

MyActuator

CubeMars

HEBI Robotics

Harmonic Drive System

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 Answered:

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

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