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

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Abstracts

The global Humanoid Robot Joint Actuator Module market size is expected to reach $ 4763 million by 2032, rising at a market growth of 21.5% CAGR during the forecast period (2026-2032).

In 2025, global Humanoid Robot Joint Actuator Module production reached approximately 1.5 million units, with an average global market price of around USD 800 per unit.

The gross profit margin of major companies in the industry was approximately 28%–48%.

In 2025, global production capacity of Humanoid Robot Joint Actuator Module was approximately 2 million units.

A Humanoid Robot Joint Actuator Module is an integrated electromechanical unit that generates and controls motion in a humanoid robot joint. It typically combines a frameless motor, precision reducer, encoder, bearings, sensors, and drive electronics. Rotary and linear modules are used in the limbs, waist, and neck. The scope excludes standalone motors, reducers, encoders, structural joints without actuation, complete robotic limbs, and complete humanoid robots.

The industrial chain includes upstream motors, permanent magnets, reducers, bearings, encoders, torque sensors, controllers, power semiconductors, and structural materials. Midstream covers mechanical design, motor and transmission integration, electronics assembly, software configuration, calibration, thermal management, and durability testing. Downstream applications include industrial humanoid robots, service robots,

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logistics robots, inspection robots, research platforms, and embodied-intelligence systems.

Report Scope

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

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

Highlights and key features of the study

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

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

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

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

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

Global Humanoid Robot Joint Actuator Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

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

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

This report profiles key players in the global Humanoid Robot Joint Actuator Module 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 Maxon Group, Harmonic Drive LLC, Moog Inc., Anybotics AG, Kollmorgen Corporation, Parker-Hannifin Corporation, SensDrive GmbH, Shenzhen Inovance Technology Co., Ltd., Ningbo Ewell Motor Co., Ltd., Unitree Robotics, 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 Joint Actuator Module 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 Joint Actuator Module Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Market Segmentation

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

Harmonic Drive Actuator Modules

Planetary Gear Actuator Modules

Cycloidal Drive Actuator Modules

Global Humanoid Robot Joint Actuator Module Market, Segmentation by Actuation Configuration:

Rotary Actuator Modules

Linear Actuator Modules

Rotary–Linear Integrated Actuator Modules

Global Humanoid Robot Joint Actuator Module Market, Segmentation by Rated Output Torque:

Low-torque(?30 N·m)

Medium-torque(>30–100 N·m)

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High-torque(>100 N·m)

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

Upper-limb Joints

Lower-limb Joints

Torso, Neck and Dexterous Hand Joints

Other

Companies Profiled:

Maxon Group

Harmonic Drive LLC

Moog Inc.

Anybotics AG

Kollmorgen Corporation

Parker-Hannifin Corporation

SensDrive GmbH

Shenzhen Inovance Technology Co., Ltd.

Ningbo Ewell Motor Co., Ltd.

Unitree Robotics

Zhejiang Sanhua Intelligent Controls Co., Ltd.

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Jiangsu High-Torque Motion Technology Co., Ltd.

Shenzhen Hans Laser Technology Co., Ltd.

Key Questions Answered:

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

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