

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

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Abstracts

The global Humanoid Robot Rotary Joint Module market size is expected to reach \$ 584 million by 2032, rising at a market growth of 27.8% CAGR during the forecast period (2026-2032).

In 2025, global Humanoid Robot Rotary Joint Module production reached approximately 228 k units?with an average global market price of around US\$ 520 per unit, and a gross profit margin of approximately 20%-40%. Humanoid Robot Rotary Joint Modules are compact electromechanical actuator assemblies designed to generate controlled rotational movement in humanoid robot shoulders, elbows, wrists, waists, hips, knees, ankles, and necks. A typical module integrates a frameless torque motor or servo motor, harmonic, planetary, or cycloidal reducer, encoder, bearings, brake, driver, housing, and optional torque sensor. These modules provide high torque density, low backlash, accurate positioning, rapid response, compact dimensions, and simplified system integration. Product types include high-torque load-bearing joints, lightweight arm joints, hollow-shaft joints, quasi-direct-drive joints, and sensor-integrated compliant rotary joints. The industrial chain of Humanoid Robot Rotary Joint Modules covers upstream materials and components such as permanent magnets, electrical steel, copper wire, aluminum housings, bearings, harmonic reducers, planetary reducers, encoders, torque sensors, brakes, driver chips, printed circuit boards, seals, and lubricants. The midstream includes electromagnetic design, reducer manufacturing, motor winding, precision machining, sensor integration, driver development, thermal management, module assembly, software calibration, durability testing, and quality inspection. Downstream applications include humanoid robot shoulders, elbows, wrists, waists, hips, knees, ankles, necks, and dexterous manipulation systems. Supporting activities include motion-control development, parameter tuning, system integration, maintenance, replacement, and technical services.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Humanoid Robot Rotary Joint 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, Ti5 Robot, CubeMars, MYACTUATOR, TC Drive, ZeroErr, Zhejiang Laifual Drive, Huayan Robotics, EYOU Robot, HONPINE, 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 Rotary Joint 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 Rotary Joint Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

24V

48V

Others

Global Humanoid Robot Rotary Joint Module Market, Segmentation by Driver Architecture:

Direct Drive (DD)

Quasi-Direct Drive (QDD)

Others

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

Elbow Joint

Wrist Joint

Knee Joint

Others

Companies Profiled:

Maxon

Ti5 Robot

CubeMars

MYACTUATOR

TC Drive

ZeroErr

Zhejiang Laifual Drive

Huayan Robotics

EYOU Robot

HONPINE

Ningbo Zhongda Leader Intelligent Transmission

Leader Drive

Welling

Samhyun

TECO Electric & Machinery

High Torque

Veichi

Realman

JUXIE INTELLIGENT

Kinco

Key Questions Answered:

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

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