

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

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Abstracts

The global Humanoid Robot Integrated Joint Module market size is expected to reach \$ 902 million by 2032, rising at a market growth of 29.5% CAGR during the forecast period (2026-2032).

In 2025, global Humanoid Robot Integrated Joint Module production reached approximately 290 k units?with an average global market price of around US\$ 510 per unit, and a gross profit margin of approximately 20%-40%. Humanoid Robot Integrated Joint Modules are compact electromechanical actuator assemblies designed to generate and control rotary or linear motion in humanoid robot limbs, waists, necks, and other movable structures. A typical module integrates a frameless torque motor or servo motor, precision reducer or ball screw, encoder, motor driver, brake, bearings, housing, and optional torque or force sensors. Compared with separately assembled components, integrated modules provide smaller dimensions, lower weight, simplified wiring, higher torque density, faster installation, and more consistent motion control. Major types include rotary joint modules, linear actuator modules, quasi-direct-drive modules, and sensor-integrated compliant joint modules. The industrial chain of Humanoid Robot Integrated Joint Modules covers upstream materials and components such as permanent magnets, electrical steel, copper wire, aluminum housings, bearings, harmonic reducers, planetary reducers, ball screws, encoders, torque sensors, brakes, driver chips, and printed circuit boards. The midstream includes electromagnetic design, reducer manufacturing, motor winding, precision machining, sensor integration, driver development, module assembly, software calibration, thermal testing, durability testing, and quality inspection. Downstream applications include humanoid robot arms, shoulders, elbows, wrists, waists, hips, knees, ankles, necks, and dexterous manipulation systems. Supporting activities include motion-control development, parameter tuning, system integration, maintenance, replacement,

technical support, and joint performance testing.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Humanoid Robot Integrated 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, Kollmorgen, Ti5 Robot, CubeMars, TC Drive, Ningbo Zhongda Leader Intelligent Transmission, ROBSTRIDE DYNAMICS, Zhejiang Laifual Drive, Huayan Robotics, EYOU Robot, 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 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 Integrated Joint Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Rotary Joint Module

Liner Joint Module

Global Humanoid Robot Integrated Joint Module Market, Segmentation by Driver

Architecture:

Direct Drive (DD)

Quasi-Direct Drive (QDD)

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

Head and Neck Joint

Shoulder Joint

Elbow Joint

Wrist Joint

Hip Joint

Knee Joint

Others

Companies Profiled:

Maxon

Kollmorgen

Ti5 Robot

CubeMars

TC Drive

Ningbo Zhongda Leader Intelligent Transmission

ROBSTRIDE DYNAMICS

Zhejiang Laifual Drive

Huayan Robotics

EYOU Robot

MYACTUATOR

ARC Intelligent

HONPINE

ZeroErr

Welling

Samhyun

TECO Electric & Machinery

High Torque

Veichi

Realman

JUXIE INTELLIGENT

Leader Drive

Key Questions Answered:

1. How big is the global Humanoid Robot Integrated Joint Module market?
2. What is the demand of the global Humanoid Robot Integrated Joint Module market?
3. What is the year over year growth of the global Humanoid Robot Integrated Joint Module market?
4. What is the production and production value of the global Humanoid Robot Integrated Joint Module market?

5. Who are the key producers in the global Humanoid Robot Integrated Joint Module market?
6. What are the growth factors driving the market demand?

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