

Global Humanoid Robot Rotary Joint Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Humanoid Robot Rotary Joint Module market size was valued at US\$ 121 million in 2025 and is forecast to a readjusted size of US\$ 584 million by 2032 with a CAGR of 27.8% during review period.

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 is a detailed and comprehensive analysis for global Humanoid Robot Rotary Joint Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Humanoid Robot Rotary Joint Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Humanoid Robot Rotary Joint Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Humanoid Robot Rotary Joint Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Humanoid Robot Rotary Joint Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Humanoid Robot Rotary Joint Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Humanoid Robot Rotary Joint Module

market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Humanoid Robot Rotary Joint Module market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

24V

48V

Others

Market segment by Driver Architecture

Direct Drive (DD)

Quasi-Direct Drive (QDD)

Others

Market segment by Application

Elbow Joint

Wrist Joint

Knee Joint

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Humanoid Robot Rotary Joint Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Humanoid Robot Rotary Joint Module, with price, sales quantity, revenue, and global market share of Humanoid Robot Rotary Joint Module from 2021 to 2026.

Chapter 3, the Humanoid Robot Rotary Joint Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Humanoid Robot Rotary Joint Module breakdown data are shown at the

regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Humanoid Robot Rotary Joint Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Humanoid Robot Rotary Joint Module.

Chapter 14 and 15, to describe Humanoid Robot Rotary Joint Module sales channel, distributors, customers, research findings and conclusion.

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