

Global Lightweight Joint Modules 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 Lightweight Joint Modules market size was valued at US\$ 353 million in 2025 and is forecast to a readjusted size of US\$ 4118 million by 2032 with a CAGR of 48.8% during review period.

A lightweight joint module is a robotic joint unit that significantly reduces its own mass through structural topology optimization, the application of novel lightweight materials, and deeply integrated design of motor and reducer, while maintaining high power density and high stiffness output. Its core lies in achieving maximum torque output and dynamic response capability within a limited weight budget, enabling the robot body it equips to attain a higher payload-to-weight ratio and lower motion inertia. The value of this module is embodied in its highly integrated design, which eliminates redundant cables, housings, and connectors found in traditional joints, reducing overall size while improving system reliability and energy efficiency. In terms of functional realization, it typically incorporates high-resolution encoders and temperature monitoring to achieve closed-loop control and overload protection within a compact package, thereby not sacrificing motion accuracy or service life under stringent weight reduction requirements. In 2025, global Lightweight Joint Modules production reached approximately 572.5 k units with an average global market price of around US\$600 per unit.

The future industry development trends of lightweight joint modules present several key directions. First, multiple listed companies that have disclosed their robotics business progress in annual reports clearly state that joint modules are evolving from traditional separated motor-plus-reducer combinations toward integrated, lightweight assembly

solutions. Companies generally believe that through integrated housing casting and optimized internal electrical wiring, they can directly reduce material costs and assembly labor hours, thereby improving gross margin levels of products. Second, the trend of vertical integration across the industry chain is particularly prominent in the lightweight field. Some enterprises with long-term experience in precision die-casting and composite material molding have announced through official news their expansion into joint structural components and module assembly, aiming to capture higher product pricing power by mastering lightweight manufacturing processes. At the same time, complete machine manufacturers have also begun prioritizing in-house development of lightweight modules to reduce dependence on specific suppliers. This two-way deployment is driving industry profits toward companies that possess material processing and integration capabilities. Furthermore, government policies related to the robotics industry have repeatedly emphasized weight reduction and energy efficiency improvement of robot bodies, prompting companies to increase investment in directions such as magnesium alloy, carbon fiber composite materials, and topology optimization design. Although the introduction of these new materials and processes will drive up research and development expenses in the short term, corporate annual reports generally view this as a necessary path to establish product differentiation advantages. Finally, corporate official information shows that an increasing number of companies are focusing on the balanced design between high stiffness and low inertia in lightweight joint modules, improving dynamic response through optimized hollow shaft structures and bearing layouts, rather than simply pursuing lighter weight. Overall, this field is transitioning from general-purpose weight reduction solutions toward customized designs that synergistically optimize torque density and thermal management, and the annual reports of related companies generally regard lightweight joint technology as an important foundation supporting high-value-added products within future profit structures.

This report is a detailed and comprehensive analysis for global Lightweight Joint Modules 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 Lightweight Joint Modules market size and forecasts, in consumption value (\$

Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lightweight Joint Modules 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 Lightweight Joint Modules 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 Lightweight Joint Modules 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 Lightweight Joint Modules

- 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 Lightweight Joint Modules 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 HIGEN RNM, Harmonic Drive, Infranor, Kollmorgen, Ti5Robot Technology, GUANGZHOU HAOZHI INDUSTRIAL, Techrobots (Shenzhen), Suzhou SIP Gears Intelligent, HC Motion Control, Shenzhen Komo Robot, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Lightweight Joint Modules 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

L Type Joint

I Type (Straight) Joint

Market segment by Transmission Mechanism

Linear Actuator

Rotary Actuator

Market segment by Driving Method

Pneumatic

Hydraulic

Electric

Market segment by Application

Humanoid Robot

Robot Dog

Robot Arm

Others

Major players covered

HIGEN RNM

Harmonic Drive

Infranor

Kollmorgen

Ti5Robot Technology

GUANGZHOU HAOZHI INDUSTRIAL

Techrobots (Shenzhen)

Suzhou SIP Gears Intelligent

HC Motion Control

Shenzhen Komo Robot

Suzhou Dongmao Industrial Equipment

Hangzhou DEEP Robotics

China Leadshine Technology

Magiclab Robotics Technology(Wuxi)

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 Lightweight Joint Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lightweight Joint Modules, with price, sales quantity, revenue, and global market share of Lightweight Joint Modules from 2021 to 2026.

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

Chapter 4, the Lightweight Joint Modules 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 Lightweight Joint Modules 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 Lightweight Joint Modules.

Chapter 14 and 15, to describe Lightweight Joint Modules sales channel, distributors, customers, research findings and conclusion.

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