

Global Harmonic Reducer for Humanoid Robot Rotating Joint 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 Harmonic Reducer for Humanoid Robot Rotating Joint market size was valued at US\$ 131 million in 2025 and is forecast to a readjusted size of US\$ 1035 million by 2032 with a CAGR of 34.2% during review period.

The harmonic reducer for humanoid robot rotating joint is a core component that ensures high precision and stability of robot motion control by reducing speed and increasing torque, serving as an intermediate structure connecting the power source and the execution mechanism, composed of three basic components: a wave generator, a flex spline, and a circular spline, featuring a large single-stage transmission ratio, compact size, and simple structure, primarily used in parts such as the small arm, wrist, and hand that require high-precision transmission. The harmonic reducer achieves power transmission through the periodic deformation of the flex spline, effectively improving the motion accuracy and response speed of the rotating joint while meeting the requirements for lightweight and compactness in humanoid robots. Its high transmission ratio and precision enable the rotating joint to maintain stability during complex movements, while low noise and high efficiency further optimize the overall performance of the joint. Additionally, the structural design of the harmonic reducer allows it to adapt to enclosed spaces and radiation conditions, providing reliable power support for the rotating joints of humanoid robots. In 2025, global Harmonic Reducer for Humanoid Robot Rotating Joint production reached approximately 608 k units with an average global market price of around US\$210 per unit.

The future industry trends for Harmonic Reducer for Humanoid Robot Rotating Joint will feature the dual characteristics of accelerated domestic substitution and expanded

market space. As the commercialization process of humanoid robots accelerates, the demand for harmonic reducers, as core components of rotary actuators, will continue to grow, driving domestic manufacturers to increase their market share through technological breakthroughs. Domestic enterprises are gradually breaking overseas monopolies and achieving independent research and development in key technologies such as gear design, and combined with the enhanced industrial drive brought by the volume launch of humanoid robots, the process of domestic substitution is expected to accelerate significantly. The industry competitive landscape will concentrate on leading enterprises, and manufacturers with technical advantages and production scale will benefit from industrial chain integration and cost optimization to further consolidate their market position. At the same time, innovations in materials and structures of harmonic reducers will become an important development direction, and manufacturers will commit to improving load capacity, reducing vibration and noise, and lowering production costs to meet the requirements of humanoid robots for lightweight and high precision. In the long run, the explosive growth of the humanoid robot industry will bring sustained revenue and profit growth momentum to the harmonic reducer industry, promoting the synergistic development of the upstream and downstream of the industrial chain.

This report is a detailed and comprehensive analysis for global Harmonic Reducer for Humanoid Robot Rotating Joint 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 Harmonic Reducer for Humanoid Robot Rotating Joint market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Harmonic Reducer for Humanoid Robot Rotating Joint 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 Harmonic Reducer for Humanoid Robot Rotating Joint 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 Harmonic Reducer for Humanoid Robot Rotating Joint 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 Harmonic Reducer for Humanoid Robot Rotating Joint

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 Harmonic Reducer for Humanoid Robot Rotating Joint 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 Harmonic Drive, Nidec-Shimpo, Schaeffler, ILJIN Motion & Control GmbH, SBB Tech, GAM Enterprise, OVALO GmbH, Leader Harmonious Drive Systems, Zhejiang Laifual Drive, Shenzhen PICEA Motion Technology, etc.

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

Market Segmentation

Harmonic Reducer for Humanoid Robot Rotating Joint 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

Standard Harmonic Reducer

High-Torque Harmonic Reducer

Market segment by Reduction Ratio

30:1 / 50:1

80:1 / 100:1

120:1 / 160:1

200:1 and Above

Market segment by Hollow Bore Structure

?20 mm

20–50 mm

50–100 mm

?100 mm

Market segment by Application

Upper Limb Joints

Lower Limb Joints

Hand Joints

Others

Major players covered

Harmonic Drive

Nidec-Shimpo

Schaeffler

ILJIN Motion & Control GmbH

SBB Tech

GAM Enterprise

OVALO GmbH

Leader Harmonious Drive Systems

Zhejiang Laifual Drive

Shenzhen PICEA Motion Technology

Shenzhen TC Drive Technologies

HIWIN Technologies

LI MING Machinery

MAIN DRIVE Corporation

Chengdu RDW Motor

Guangzhou Haozhi Industrial

Sichuan TLIBOT

Ningbo Zhongda Leader Intelligent Transmission

Dongguan BenRun Robot Technology

Beijing CTKM Harmonic Drive

Hubei Kofon Transmission Equipment

Zhejiang Sling Intelligent Drive Group

Chengdu Reach Machinery

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 Harmonic Reducer for Humanoid Robot Rotating Joint product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Harmonic Reducer for Humanoid Robot Rotating Joint 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 Harmonic Reducer for Humanoid Robot Rotating Joint 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 Harmonic Reducer for Humanoid Robot Rotating Joint.

Chapter 14 and 15, to describe Harmonic Reducer for Humanoid Robot Rotating Joint sales channel, distributors, customers, research findings and conclusion.

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