

Global Harmonic Reducer for Humanoid Robot Rotating Joint Market Growth 2026-2032

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Abstracts

The global Harmonic Reducer for Humanoid Robot Rotating Joint market size is predicted to grow from US\$ 125 million in 2025 to US\$ 1082 million in 2032; it is expected to grow at a CAGR of 36.3% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Harmonic Reducer for Humanoid Robot Rotating Joint Industry Forecast" looks at past sales and reviews total world Harmonic Reducer for Humanoid Robot Rotating Joint sales in 2025, providing a comprehensive analysis by region and market sector of projected Harmonic Reducer for Humanoid Robot Rotating Joint sales for 2026 through 2032. With Harmonic Reducer for Humanoid Robot Rotating Joint sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Harmonic Reducer for Humanoid Robot Rotating Joint industry.

This Insight Report provides a comprehensive analysis of the global Harmonic Reducer for Humanoid Robot Rotating Joint landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Harmonic Reducer for Humanoid Robot Rotating Joint portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Harmonic Reducer for Humanoid Robot Rotating Joint market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Harmonic Reducer for Humanoid Robot Rotating Joint and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on

hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Harmonic Reducer for Humanoid Robot Rotating Joint.

This report presents a comprehensive overview, market shares, and growth opportunities of Harmonic Reducer for Humanoid Robot Rotating Joint market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Standard Harmonic Reducer

High-Torque Harmonic Reducer

Segmentation by Reduction Ratio:

30:1 / 50:1

80:1 / 100:1

120:1 / 160:1

200:1 and Above

Segmentation by Hollow Bore Structure:

≤20 mm

20-50 mm

50-100 mm

≥100 mm

Segmentation by Application:

Upper Limb Joints

Lower Limb Joints

Hand Joints

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Harmonic Reducer for Humanoid Robot Rotating Joint market?

What factors are driving Harmonic Reducer for Humanoid Robot Rotating Joint market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Harmonic Reducer for Humanoid Robot Rotating Joint market opportunities vary by end market size?

How does Harmonic Reducer for Humanoid Robot Rotating Joint break out by Type, by Application?

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