

Global Robot Rotary Joints 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 Robot Rotary Joints market size was valued at US\$ 1420 million in 2025 and is forecast to a readjusted size of US\$ 3208 million by 2032 with a CAGR of 12.3% during review period.

In 2025, global Robot Rotary Joint output reached about 12 million units and global capacity of around 18 million units. The average unit price is about USD 115, with gross margins near 33%. Robot Rotary Joints are mechanical and electromechanical components used in robotic systems to enable controlled rotational movement between connected segments of a robot, such as the joints in robotic arms or articulated manipulators. These joints transmit motion, torque, power, and sometimes data signals while allowing rotation around a fixed axis. Robot rotary joints typically integrate key elements including bearings, harmonic or planetary gear reducers, motors, encoders, slip rings, and structural housings to provide precise positioning, smooth rotation, and high load capacity. They are widely used in industrial robots, collaborative robots (cobots), service robots, medical robots, and autonomous systems where precise articulation and repeatable motion are required. The supply chain of robot rotary joints begins upstream with suppliers of raw materials and precision components such as alloy steels, aluminum alloys, bearings, gears, motors, encoders, and electronic control units. Midstream manufacturers design and assemble the rotary joint modules, integrating mechanical transmission systems, sensing elements, and control interfaces into compact joint units. Downstream, these rotary joints are supplied to robot OEMs and automation integrators who incorporate them into articulated robot arms, humanoid robots, inspection robots, and automated manufacturing systems across industries including automotive manufacturing, electronics assembly, logistics automation, healthcare robotics, and aerospace production.

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

Global Robot Rotary Joints 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 Robot Rotary Joints 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 Robot Rotary Joints 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 Robot Rotary Joints

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 Robot Rotary Joints 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 Systems, Nabtesco, Nidec Drive Technology, Sumitomo Drive Technologies, HIWIN Technologies, Wittenstein, Bosch Rexroth, Maxon Group, Moog, Kollmorgen, etc.

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

Market Segmentation

Robot Rotary Joints 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

Harmonic Drive Rotary Joints

Planetary Gear Rotary Joints

Direct Drive Rotary Joints

Cycloidal Drive Rotary Joints

Market segment by Mechanical Structure

Single-Axis Rotary Joints

Multi-Axis Rotary Joints

Continuous Rotation Joints

Market segment by Application

Automotive

Electronics

Industrial

Logistics

Others

Major players covered

Harmonic Drive Systems

Nabtesco

Nidec Drive Technology

Sumitomo Drive Technologies

HIWIN Technologies

Wittenstein

Bosch Rexroth

Maxon Group

Moog

Kollmorgen

SEW-Eurodrive

Apex Dynamics

Neugart

Cone Drive

Oriental Motor

Intelligent Actuator

Leaderdrive

Zhejiang Laifual

Arcsec Drive

TQ-Robotics

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 Robot Rotary Joints product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Robot Rotary Joints 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 Robot Rotary Joints 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 Robot Rotary Joints.

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

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