

Global Humanoid Robots Rotary Actuators 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 Robots Rotary Actuators market size was valued at US\$ 75.11 million in 2025 and is forecast to a readjusted size of US\$ 1177 million by 2032 with a CAGR of 46.9% during review period.

In 2025, global Rotary Actuators for Humanoid Robots capacity 240 k Units, sales reached approximately 231 k Units, with an average market price of around 317 USD/Unit, industrial gross margin 41%.

Rotary Actuators for Humanoid Robots are no longer “just joints.” They are the performance-and-cost anchor that determines whether a humanoid can move with authority, survive real duty cycles, and ship repeatedly with predictable quality. As programs transition from prototypes to replicable builds, the actuator becomes the shared bottleneck: arms demand bandwidth and backdrivability for safe interaction; legs demand stiffness, shock tolerance, and fatigue life; torso and neck prioritize stability and low acoustic signature. In practice, Rotary Actuators for Humanoid Robots are judged by system delivery—power density plus thermal headroom plus consistency—rather than by a single peak metric.

The key evaluation set for Rotary Actuators for Humanoid Robots tends to converge on six engineering “truths”: (1) peak vs. continuous torque and torque density, (2) joint speed/acceleration and usable control bandwidth, (3) backlash and torsional stiffness under load, (4) force/impedance control capability and sensor stack quality, (5) thermal rise and heat-flow architecture, and (6) sealing/robustness for industrial handling. The dominant architecture is the integrated joint module: a frameless torque motor or flat

BLDC + precision reduction (harmonic/cycloidal RV/planetary) + cross-roller bearing + absolute encoder (increasingly dual-encoder, multi-turn) + embedded FOC drive with CANopen/EtherCAT. The industry direction is clear: integration pushes intelligence down into the joint—single-cable wiring, position retention behavior, built-in protection and diagnostics, and calibration routines become part of the actuator, not the robot.

Supplier dynamics reflect “critical-component pull” and “system-integration tiers.” Harmonic-drive-based servo actuators remain compelling when compact packaging, high positional accuracy, and near-zero backlash are the priority; cycloidal RV solutions typically win where large torque, long life, and shock tolerance dominate; frameless motor platforms compete on torque density, manufacturability, and the ability to scale from prototype to full production without redesign; bearings and encoders often set the true ceiling on lifetime and repeatability. The Rotary Actuators for Humanoid Robots value chain therefore runs from upstream magnetic materials and electrical steel, specialty steels and bearing steels, into midstream stator/rotor manufacturing, precision gearing with heat treatment and grinding, drives and power electronics, and then into joint modules and final assembly. The hard moat is rarely “the CAD model”—it is distortion control in heat treatment, contact fatigue on gear/race surfaces, dual-encoder calibration, motor-drive tuning, and statistical process control that keeps batch-to-batch behavior within tight limits.

Commercial momentum is increasingly visible through designated sourcing and framework agreements that freeze specs early. In December 2025, Zhongyuan Neipei disclosed a strategic cooperation framework with Ningbo Puzhi Future Robot. One explicit objective is that, after supplier qualification, the subsidiary aims to become a core supplier of humanoid robot joint modules, with a five-year cooperation term. The disclosure also emphasizes process and manufacturing commonality between robot joint modules and established electromechanical actuators—an important signal that automotive-grade manufacturing discipline (quality systems, supply-chain control, traceability) is moving into Rotary Actuators for Humanoid Robots as a practical route to scale.

The growth engine for Rotary Actuators for Humanoid Robots is shifting from “peak performance” to “platform cost-down and supply resilience.” Expect continued upward integration (embedded drives, simplified harnessing, dual absolute encoders, built-in diagnostics), clearer module standardization (high-torque/high-stiffness leg joints; high-bandwidth/backdrivable arm joints; highly integrated miniature hand joints), and thermal design becoming the mass-production separator (heat paths, grease life, drift

compensation under long duty cycles). Upstream magnet supply is now a first-order design constraint: on Oct 9, 2025, China's MOFCOM Announcement No. 61 implemented export controls covering specified rare-earth items and items containing rare-earth permanent magnet materials; in July 2025, MP Materials and Apple announced a US\$500 million partnership to produce recycled rare-earth magnets in the U.S., while MP Materials also announced a public-private partnership with the U.S. defense-related side to accelerate domestic magnet independence; in Oct 2025, Lynas announced expansion of heavy rare earth separation capacity in Malaysia. For actuator makers, the practical responses are already visible: magnet recipes that reduce heavy-rare-earth dependence, recycling loops and dual-sourcing qualification, and elevating manufacturability metrics (yield, consistency, traceability) to the same status as torque density.

This report is a detailed and comprehensive analysis for global Humanoid Robots Rotary Actuators market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Power 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 Robots Rotary Actuators market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

Global Humanoid Robots Rotary Actuators 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:

Global Humanoid Robots Rotary Actuators Market 2026 by Manufacturers, Regions, Type and Application, Forecast...

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Humanoid Robots Rotary Actuators
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 Robots Rotary Actuators 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 Shenzhen Inovance Technology, Ningbo Tuopu Group, Zhejiang Sanhua Intelligent Controls, Zhejiang XCC Group, ZeroErr, etc.

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

Market Segmentation

Humanoid Robots Rotary Actuators market is split by Power and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Power, 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 Power

Hydraulic Type

Pneumatic Type

Electric Type

Market segment by Type

Rigid Type

Elastic Type

Collimation Type

Market segment by Application

Biped Humanoid Robot

Wheeled Humanoid Robot

Major players covered

Shenzhen Inovance Technology

Ningbo Tuopu Group

Zhejiang Sanhua Intelligent Controls

Zhejiang XCC Group

ZeroErr

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 Robots Rotary Actuators product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Humanoid Robots Rotary Actuators 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 Power and by Application, with sales market share and growth rate by Power, 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 Robots Rotary Actuators market forecast, by regions, by Power, 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 Robots Rotary Actuators.

Chapter 14 and 15, to describe Humanoid Robots Rotary Actuators sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Power

1.3.1 Overview: Global Humanoid Robots Rotary Actuators Consumption Value by Power: 2021 Versus 2025 Versus 2032

1.3.2 Hydraulic Type

1.3.3 Pneumatic Type

1.3.4 Electric Type

1.4 Market Analysis by Type

1.4.1 Overview: Global Humanoid Robots Rotary Actuators Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.4.2 Rigid Type

1.4.3 Elastic Type

1.4.4 Collimation Type

1.5 Market Analysis by Application

1.5.1 Overview: Global Humanoid Robots Rotary Actuators Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Biped Humanoid Robot

1.5.3 Wheeled Humanoid Robot

1.6 Global Humanoid Robots Rotary Actuators Market Size & Forecast

1.6.1 Global Humanoid Robots Rotary Actuators Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Humanoid Robots Rotary Actuators Sales Quantity (2021-2032)

1.6.3 Global Humanoid Robots Rotary Actuators Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Shenzhen Inovance Technology

2.1.1 Shenzhen Inovance Technology Details

2.1.2 Shenzhen Inovance Technology Major Business

2.1.3 Shenzhen Inovance Technology Humanoid Robots Rotary Actuators Product and Services

2.1.4 Shenzhen Inovance Technology Humanoid Robots Rotary Actuators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Shenzhen Inovance Technology Recent Developments/Updates

2.2 Ningbo Tuopu Group

2.2.1 Ningbo Tuopu Group Details

2.2.2 Ningbo Tuopu Group Major Business

2.2.3 Ningbo Tuopu Group Humanoid Robots Rotary Actuators Product and Services

2.2.4 Ningbo Tuopu Group Humanoid Robots Rotary Actuators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Ningbo Tuopu Group Recent Developments/Updates

2.3 Zhejiang Sanhua Intelligent Controls

2.3.1 Zhejiang Sanhua Intelligent Controls Details

2.3.2 Zhejiang Sanhua Intelligent Controls Major Business

2.3.3 Zhejiang Sanhua Intelligent Controls Humanoid Robots Rotary Actuators Product and Services

2.3.4 Zhejiang Sanhua Intelligent Controls Humanoid Robots Rotary Actuators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Zhejiang Sanhua Intelligent Controls Recent Developments/Updates

2.4 Zhejiang XCC Group

2.4.1 Zhejiang XCC Group Details

2.4.2 Zhejiang XCC Group Major Business

2.4.3 Zhejiang XCC Group Humanoid Robots Rotary Actuators Product and Services

2.4.4 Zhejiang XCC Group Humanoid Robots Rotary Actuators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Zhejiang XCC Group Recent Developments/Updates

2.5 ZeroErr

2.5.1 ZeroErr Details

2.5.2 ZeroErr Major Business

2.5.3 ZeroErr Humanoid Robots Rotary Actuators Product and Services

2.5.4 ZeroErr Humanoid Robots Rotary Actuators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 ZeroErr Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HUMANOID ROBOTS ROTARY ACTUATORS BY MANUFACTURER

3.1 Global Humanoid Robots Rotary Actuators Sales Quantity by Manufacturer (2021-2026)

3.2 Global Humanoid Robots Rotary Actuators Revenue by Manufacturer (2021-2026)

3.3 Global Humanoid Robots Rotary Actuators Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

- 3.4.1 Producer Shipments of Humanoid Robots Rotary Actuators by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- 3.4.2 Top 3 Humanoid Robots Rotary Actuators Manufacturer Market Share in 2025
- 3.4.3 Top 6 Humanoid Robots Rotary Actuators Manufacturer Market Share in 2025
- 3.5 Humanoid Robots Rotary Actuators Market: Overall Company Footprint Analysis
 - 3.5.1 Humanoid Robots Rotary Actuators Market: Region Footprint
 - 3.5.2 Humanoid Robots Rotary Actuators Market: Company Product Type Footprint
 - 3.5.3 Humanoid Robots Rotary Actuators Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Humanoid Robots Rotary Actuators Market Size by Region
 - 4.1.1 Global Humanoid Robots Rotary Actuators Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Humanoid Robots Rotary Actuators Consumption Value by Region (2021-2032)
 - 4.1.3 Global Humanoid Robots Rotary Actuators Average Price by Region (2021-2032)
- 4.2 North America Humanoid Robots Rotary Actuators Consumption Value (2021-2032)
- 4.3 Europe Humanoid Robots Rotary Actuators Consumption Value (2021-2032)
- 4.4 Asia-Pacific Humanoid Robots Rotary Actuators Consumption Value (2021-2032)
- 4.5 South America Humanoid Robots Rotary Actuators Consumption Value (2021-2032)
- 4.6 Middle East & Africa Humanoid Robots Rotary Actuators Consumption Value (2021-2032)

5 MARKET SEGMENT BY POWER

- 5.1 Global Humanoid Robots Rotary Actuators Sales Quantity by Power (2021-2032)
- 5.2 Global Humanoid Robots Rotary Actuators Consumption Value by Power (2021-2032)
- 5.3 Global Humanoid Robots Rotary Actuators Average Price by Power (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Humanoid Robots Rotary Actuators Sales Quantity by Application (2021-2032)

6.2 Global Humanoid Robots Rotary Actuators Consumption Value by Application (2021-2032)

6.3 Global Humanoid Robots Rotary Actuators Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Humanoid Robots Rotary Actuators Sales Quantity by Power (2021-2032)

7.2 North America Humanoid Robots Rotary Actuators Sales Quantity by Application (2021-2032)

7.3 North America Humanoid Robots Rotary Actuators Market Size by Country

7.3.1 North America Humanoid Robots Rotary Actuators Sales Quantity by Country (2021-2032)

7.3.2 North America Humanoid Robots Rotary Actuators Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Humanoid Robots Rotary Actuators Sales Quantity by Power (2021-2032)

8.2 Europe Humanoid Robots Rotary Actuators Sales Quantity by Application (2021-2032)

8.3 Europe Humanoid Robots Rotary Actuators Market Size by Country

8.3.1 Europe Humanoid Robots Rotary Actuators Sales Quantity by Country (2021-2032)

8.3.2 Europe Humanoid Robots Rotary Actuators Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity by Power

(2021-2032)

9.2 Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity by Application
(2021-2032)

9.3 Asia-Pacific Humanoid Robots Rotary Actuators Market Size by Region

9.3.1 Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity by Region
(2021-2032)

9.3.2 Asia-Pacific Humanoid Robots Rotary Actuators Consumption Value by Region
(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Humanoid Robots Rotary Actuators Sales Quantity by Power
(2021-2032)

10.2 South America Humanoid Robots Rotary Actuators Sales Quantity by Application
(2021-2032)

10.3 South America Humanoid Robots Rotary Actuators Market Size by Country

10.3.1 South America Humanoid Robots Rotary Actuators Sales Quantity by Country
(2021-2032)

10.3.2 South America Humanoid Robots Rotary Actuators Consumption Value by
Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity by Power
(2021-2032)

11.2 Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity by
Application (2021-2032)

11.3 Middle East & Africa Humanoid Robots Rotary Actuators Market Size by Country

11.3.1 Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity by
Country (2021-2032)

11.3.2 Middle East & Africa Humanoid Robots Rotary Actuators Consumption Value by

Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Humanoid Robots Rotary Actuators Market Drivers

12.2 Humanoid Robots Rotary Actuators Market Restraints

12.3 Humanoid Robots Rotary Actuators Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Humanoid Robots Rotary Actuators and Key Manufacturers

13.2 Manufacturing Costs Percentage of Humanoid Robots Rotary Actuators

13.3 Humanoid Robots Rotary Actuators Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Humanoid Robots Rotary Actuators Typical Distributors

14.3 Humanoid Robots Rotary Actuators Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Humanoid Robots Rotary Actuators Consumption Value by Power, (USD Million), 2021 & 2025 & 2032

Table 2. Global Humanoid Robots Rotary Actuators Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 3. Global Humanoid Robots Rotary Actuators Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Shenzhen Inovance Technology Basic Information, Manufacturing Base and Competitors

Table 5. Shenzhen Inovance Technology Major Business

Table 6. Shenzhen Inovance Technology Humanoid Robots Rotary Actuators Product and Services

Table 7. Shenzhen Inovance Technology Humanoid Robots Rotary Actuators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Shenzhen Inovance Technology Recent Developments/Updates

Table 9. Ningbo Tuopu Group Basic Information, Manufacturing Base and Competitors

Table 10. Ningbo Tuopu Group Major Business

Table 11. Ningbo Tuopu Group Humanoid Robots Rotary Actuators Product and Services

Table 12. Ningbo Tuopu Group Humanoid Robots Rotary Actuators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Ningbo Tuopu Group Recent Developments/Updates

Table 14. Zhejiang Sanhua Intelligent Controls Basic Information, Manufacturing Base and Competitors

Table 15. Zhejiang Sanhua Intelligent Controls Major Business

Table 16. Zhejiang Sanhua Intelligent Controls Humanoid Robots Rotary Actuators Product and Services

Table 17. Zhejiang Sanhua Intelligent Controls Humanoid Robots Rotary Actuators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Zhejiang Sanhua Intelligent Controls Recent Developments/Updates

Table 19. Zhejiang XCC Group Basic Information, Manufacturing Base and Competitors

Table 20. Zhejiang XCC Group Major Business

Table 21. Zhejiang XCC Group Humanoid Robots Rotary Actuators Product and

Services

Table 22. Zhejiang XCC Group Humanoid Robots Rotary Actuators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Zhejiang XCC Group Recent Developments/Updates

Table 24. ZeroErr Basic Information, Manufacturing Base and Competitors

Table 25. ZeroErr Major Business

Table 26. ZeroErr Humanoid Robots Rotary Actuators Product and Services

Table 27. ZeroErr Humanoid Robots Rotary Actuators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. ZeroErr Recent Developments/Updates

Table 29. Global Humanoid Robots Rotary Actuators Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 30. Global Humanoid Robots Rotary Actuators Revenue by Manufacturer (2021-2026) & (USD Million)

Table 31. Global Humanoid Robots Rotary Actuators Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 32. Market Position of Manufacturers in Humanoid Robots Rotary Actuators, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 33. Head Office and Humanoid Robots Rotary Actuators Production Site of Key Manufacturer

Table 34. Humanoid Robots Rotary Actuators Market: Company Product Type Footprint

Table 35. Humanoid Robots Rotary Actuators Market: Company Product Application Footprint

Table 36. Humanoid Robots Rotary Actuators New Market Entrants and Barriers to Market Entry

Table 37. Humanoid Robots Rotary Actuators Mergers, Acquisition, Agreements, and Collaborations

Table 38. Global Humanoid Robots Rotary Actuators Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 39. Global Humanoid Robots Rotary Actuators Sales Quantity by Region (2021-2026) & (K Units)

Table 40. Global Humanoid Robots Rotary Actuators Sales Quantity by Region (2027-2032) & (K Units)

Table 41. Global Humanoid Robots Rotary Actuators Consumption Value by Region (2021-2026) & (USD Million)

Table 42. Global Humanoid Robots Rotary Actuators Consumption Value by Region (2027-2032) & (USD Million)

Table 43. Global Humanoid Robots Rotary Actuators Average Price by Region (2021-2026) & (US\$/Unit)

Table 44. Global Humanoid Robots Rotary Actuators Average Price by Region (2027-2032) & (US\$/Unit)

Table 45. Global Humanoid Robots Rotary Actuators Sales Quantity by Power (2021-2026) & (K Units)

Table 46. Global Humanoid Robots Rotary Actuators Sales Quantity by Power (2027-2032) & (K Units)

Table 47. Global Humanoid Robots Rotary Actuators Consumption Value by Power (2021-2026) & (USD Million)

Table 48. Global Humanoid Robots Rotary Actuators Consumption Value by Power (2027-2032) & (USD Million)

Table 49. Global Humanoid Robots Rotary Actuators Average Price by Power (2021-2026) & (US\$/Unit)

Table 50. Global Humanoid Robots Rotary Actuators Average Price by Power (2027-2032) & (US\$/Unit)

Table 51. Global Humanoid Robots Rotary Actuators Sales Quantity by Application (2021-2026) & (K Units)

Table 52. Global Humanoid Robots Rotary Actuators Sales Quantity by Application (2027-2032) & (K Units)

Table 53. Global Humanoid Robots Rotary Actuators Consumption Value by Application (2021-2026) & (USD Million)

Table 54. Global Humanoid Robots Rotary Actuators Consumption Value by Application (2027-2032) & (USD Million)

Table 55. Global Humanoid Robots Rotary Actuators Average Price by Application (2021-2026) & (US\$/Unit)

Table 56. Global Humanoid Robots Rotary Actuators Average Price by Application (2027-2032) & (US\$/Unit)

Table 57. North America Humanoid Robots Rotary Actuators Sales Quantity by Power (2021-2026) & (K Units)

Table 58. North America Humanoid Robots Rotary Actuators Sales Quantity by Power (2027-2032) & (K Units)

Table 59. North America Humanoid Robots Rotary Actuators Sales Quantity by Application (2021-2026) & (K Units)

Table 60. North America Humanoid Robots Rotary Actuators Sales Quantity by Application (2027-2032) & (K Units)

Table 61. North America Humanoid Robots Rotary Actuators Sales Quantity by Country (2021-2026) & (K Units)

Table 62. North America Humanoid Robots Rotary Actuators Sales Quantity by Country

(2027-2032) & (K Units)

Table 63. North America Humanoid Robots Rotary Actuators Consumption Value by Country (2021-2026) & (USD Million)

Table 64. North America Humanoid Robots Rotary Actuators Consumption Value by Country (2027-2032) & (USD Million)

Table 65. Europe Humanoid Robots Rotary Actuators Sales Quantity by Power (2021-2026) & (K Units)

Table 66. Europe Humanoid Robots Rotary Actuators Sales Quantity by Power (2027-2032) & (K Units)

Table 67. Europe Humanoid Robots Rotary Actuators Sales Quantity by Application (2021-2026) & (K Units)

Table 68. Europe Humanoid Robots Rotary Actuators Sales Quantity by Application (2027-2032) & (K Units)

Table 69. Europe Humanoid Robots Rotary Actuators Sales Quantity by Country (2021-2026) & (K Units)

Table 70. Europe Humanoid Robots Rotary Actuators Sales Quantity by Country (2027-2032) & (K Units)

Table 71. Europe Humanoid Robots Rotary Actuators Consumption Value by Country (2021-2026) & (USD Million)

Table 72. Europe Humanoid Robots Rotary Actuators Consumption Value by Country (2027-2032) & (USD Million)

Table 73. Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity by Power (2021-2026) & (K Units)

Table 74. Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity by Power (2027-2032) & (K Units)

Table 75. Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity by Application (2021-2026) & (K Units)

Table 76. Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity by Application (2027-2032) & (K Units)

Table 77. Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity by Region (2021-2026) & (K Units)

Table 78. Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity by Region (2027-2032) & (K Units)

Table 79. Asia-Pacific Humanoid Robots Rotary Actuators Consumption Value by Region (2021-2026) & (USD Million)

Table 80. Asia-Pacific Humanoid Robots Rotary Actuators Consumption Value by Region (2027-2032) & (USD Million)

Table 81. South America Humanoid Robots Rotary Actuators Sales Quantity by Power (2021-2026) & (K Units)

Table 82. South America Humanoid Robots Rotary Actuators Sales Quantity by Power (2027-2032) & (K Units)

Table 83. South America Humanoid Robots Rotary Actuators Sales Quantity by Application (2021-2026) & (K Units)

Table 84. South America Humanoid Robots Rotary Actuators Sales Quantity by Application (2027-2032) & (K Units)

Table 85. South America Humanoid Robots Rotary Actuators Sales Quantity by Country (2021-2026) & (K Units)

Table 86. South America Humanoid Robots Rotary Actuators Sales Quantity by Country (2027-2032) & (K Units)

Table 87. South America Humanoid Robots Rotary Actuators Consumption Value by Country (2021-2026) & (USD Million)

Table 88. South America Humanoid Robots Rotary Actuators Consumption Value by Country (2027-2032) & (USD Million)

Table 89. Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity by Power (2021-2026) & (K Units)

Table 90. Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity by Power (2027-2032) & (K Units)

Table 91. Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity by Application (2021-2026) & (K Units)

Table 92. Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity by Application (2027-2032) & (K Units)

Table 93. Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity by Country (2021-2026) & (K Units)

Table 94. Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity by Country (2027-2032) & (K Units)

Table 95. Middle East & Africa Humanoid Robots Rotary Actuators Consumption Value by Country (2021-2026) & (USD Million)

Table 96. Middle East & Africa Humanoid Robots Rotary Actuators Consumption Value by Country (2027-2032) & (USD Million)

Table 97. Humanoid Robots Rotary Actuators Raw Material

Table 98. Key Manufacturers of Humanoid Robots Rotary Actuators Raw Materials

Table 99. Humanoid Robots Rotary Actuators Typical Distributors

Table 100. Humanoid Robots Rotary Actuators Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Humanoid Robots Rotary Actuators Picture
- Figure 2. Global Humanoid Robots Rotary Actuators Revenue by Power, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Humanoid Robots Rotary Actuators Revenue Market Share by Power in 2025
- Figure 4. Hydraulic Type Examples
- Figure 5. Pneumatic Type Examples
- Figure 6. Electric Type Examples
- Figure 7. Global Humanoid Robots Rotary Actuators Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Humanoid Robots Rotary Actuators Revenue Market Share by Type in 2025
- Figure 9. Rigid Type Examples
- Figure 10. Elastic Type Examples
- Figure 11. Collimation Type Examples
- Figure 12. Global Humanoid Robots Rotary Actuators Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Humanoid Robots Rotary Actuators Revenue Market Share by Application in 2025
- Figure 14. Biped Humanoid Robot Examples
- Figure 15. Wheeled Humanoid Robot Examples
- Figure 16. Global Humanoid Robots Rotary Actuators Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 17. Global Humanoid Robots Rotary Actuators Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 18. Global Humanoid Robots Rotary Actuators Sales Quantity (2021-2032) & (K Units)
- Figure 19. Global Humanoid Robots Rotary Actuators Price (2021-2032) & (US\$/Unit)
- Figure 20. Global Humanoid Robots Rotary Actuators Sales Quantity Market Share by Manufacturer in 2025
- Figure 21. Global Humanoid Robots Rotary Actuators Revenue Market Share by Manufacturer in 2025
- Figure 22. Producer Shipments of Humanoid Robots Rotary Actuators by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 23. Top 3 Humanoid Robots Rotary Actuators Manufacturer (Revenue) Market

Share in 2025

Figure 24. Top 6 Humanoid Robots Rotary Actuators Manufacturer (Revenue) Market Share in 2025

Figure 25. Global Humanoid Robots Rotary Actuators Sales Quantity Market Share by Region (2021-2032)

Figure 26. Global Humanoid Robots Rotary Actuators Consumption Value Market Share by Region (2021-2032)

Figure 27. North America Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 28. Europe Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 29. Asia-Pacific Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 30. South America Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 31. Middle East & Africa Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 32. Global Humanoid Robots Rotary Actuators Sales Quantity Market Share by Power (2021-2032)

Figure 33. Global Humanoid Robots Rotary Actuators Consumption Value Market Share by Power (2021-2032)

Figure 34. Global Humanoid Robots Rotary Actuators Average Price by Power (2021-2032) & (US\$/Unit)

Figure 35. Global Humanoid Robots Rotary Actuators Sales Quantity Market Share by Application (2021-2032)

Figure 36. Global Humanoid Robots Rotary Actuators Revenue Market Share by Application (2021-2032)

Figure 37. Global Humanoid Robots Rotary Actuators Average Price by Application (2021-2032) & (US\$/Unit)

Figure 38. North America Humanoid Robots Rotary Actuators Sales Quantity Market Share by Power (2021-2032)

Figure 39. North America Humanoid Robots Rotary Actuators Sales Quantity Market Share by Application (2021-2032)

Figure 40. North America Humanoid Robots Rotary Actuators Sales Quantity Market Share by Country (2021-2032)

Figure 41. North America Humanoid Robots Rotary Actuators Consumption Value Market Share by Country (2021-2032)

Figure 42. United States Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 43. Canada Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 44. Mexico Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 45. Europe Humanoid Robots Rotary Actuators Sales Quantity Market Share by Power (2021-2032)

Figure 46. Europe Humanoid Robots Rotary Actuators Sales Quantity Market Share by Application (2021-2032)

Figure 47. Europe Humanoid Robots Rotary Actuators Sales Quantity Market Share by Country (2021-2032)

Figure 48. Europe Humanoid Robots Rotary Actuators Consumption Value Market Share by Country (2021-2032)

Figure 49. Germany Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 50. France Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 51. United Kingdom Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 52. Russia Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 53. Italy Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 54. Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity Market Share by Power (2021-2032)

Figure 55. Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity Market Share by Application (2021-2032)

Figure 56. Asia-Pacific Humanoid Robots Rotary Actuators Sales Quantity Market Share by Region (2021-2032)

Figure 57. Asia-Pacific Humanoid Robots Rotary Actuators Consumption Value Market Share by Region (2021-2032)

Figure 58. China Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 59. Japan Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 60. South Korea Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 61. India Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 62. Southeast Asia Humanoid Robots Rotary Actuators Consumption Value

(2021-2032) & (USD Million)

Figure 63. Australia Humanoid Robots Rotary Actuators Consumption Value

(2021-2032) & (USD Million)

Figure 64. South America Humanoid Robots Rotary Actuators Sales Quantity Market Share by Power (2021-2032)

Figure 65. South America Humanoid Robots Rotary Actuators Sales Quantity Market Share by Application (2021-2032)

Figure 66. South America Humanoid Robots Rotary Actuators Sales Quantity Market Share by Country (2021-2032)

Figure 67. South America Humanoid Robots Rotary Actuators Consumption Value Market Share by Country (2021-2032)

Figure 68. Brazil Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 69. Argentina Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 70. Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity Market Share by Power (2021-2032)

Figure 71. Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity Market Share by Application (2021-2032)

Figure 72. Middle East & Africa Humanoid Robots Rotary Actuators Sales Quantity Market Share by Country (2021-2032)

Figure 73. Middle East & Africa Humanoid Robots Rotary Actuators Consumption Value Market Share by Country (2021-2032)

Figure 74. Turkey Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 75. Egypt Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 76. Saudi Arabia Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 77. South Africa Humanoid Robots Rotary Actuators Consumption Value (2021-2032) & (USD Million)

Figure 78. Humanoid Robots Rotary Actuators Market Drivers

Figure 79. Humanoid Robots Rotary Actuators Market Restraints

Figure 80. Humanoid Robots Rotary Actuators Market Trends

Figure 81. Porters Five Forces Analysis

Figure 82. Manufacturing Cost Structure Analysis of Humanoid Robots Rotary Actuators in 2025

Figure 83. Manufacturing Process Analysis of Humanoid Robots Rotary Actuators

Figure 84. Humanoid Robots Rotary Actuators Industrial Chain

Figure 85. Sales Channel: Direct to End-User vs Distributors

Figure 86. Direct Channel Pros & Cons

Figure 87. Indirect Channel Pros & Cons

Figure 88. Methodology

Figure 89. Research Process and Data Source

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