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Global Frameless Torque Motor for Robot Joint Market Growth 2026-2032

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Abstracts

The global Frameless Torque Motor for Robot Joint market size is predicted to grow from US$ 406 million in 2025 to US$ 1195 million in 2032; it is expected to grow at a CAGR of 16.6% from 2026 to 2032.

In 2025, global Frameless Torque Motor for Robot Joint production reached approximately 2730 k units?with an average global market price of around US$ 152 per unit, and a gross profit margin of approximately 20%-40%. Frameless Torque Motors for Robot Joints are compact brushless motor kits consisting primarily of separate stator and rotor components without independent housings, shafts, or bearings. They are directly integrated into robot joint structures to generate precise rotational motion. These motors provide high torque density, low cogging torque, rapid dynamic response, compact dimensions, low weight, and flexible mechanical integration. They are commonly combined with harmonic, planetary, or cycloidal reducers, encoders, brakes, torque sensors, and motor drives. Major applications include humanoid robots, collaborative robots, industrial robotic arms, surgical robots, exoskeletons, quadruped robots, service robots, and precision automation equipment. The industrial chain of Frameless Torque Motors for Robot Joints covers upstream materials and components such as permanent magnets, electrical steel sheets, copper wire, insulation materials, adhesives, temperature sensors, Hall sensors, magnetic encoders, bearings, and aluminum structural parts. The midstream includes electromagnetic design, lamination stamping, stator winding, rotor magnet installation, balancing, potting, insulation treatment, precision machining, sensor integration, performance testing, and quality inspection. Downstream manufacturers integrate the motors with reducers, encoders, brakes, torque sensors, controllers, and housings to form robot joints. Applications include industrial automation, humanoid robots, medical robots, logistics robots, exoskeletons, inspection robots, and research platforms.

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United States market for Frameless Torque Motor for Robot Joint is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Frameless Torque Motor for Robot Joint is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Frameless Torque Motor for Robot Joint is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Frameless Torque Motor for Robot Joint players cover Maxon, Allient, CubeMars, Kollmorgen, Leadshine, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Frameless Torque Motor for Robot 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 Frameless Torque Motor for Robot Joint portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Frameless Torque Motor for Robot Joint market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Frameless Torque Motor for Robot 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 Frameless Torque Motor for

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Robot Joint.

This report presents a comprehensive overview, market shares, and growth opportunities of Frameless Torque Motor for Robot Joint market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Inner-Rotor Frameless Torque Motor

Outer-Rotor Frameless Torque Motor

Segmentation by Structure:

Slotted Frameless Torque Motor

Slotless Frameless Torque Motor

Segmentation by Rated Voltage:

24V

36V

48V

Others

Segmentation by Application:

Collaborative Robots

Quadruped Robots

Humanoid Robots

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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

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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.

Maxon

Allient

CubeMars

Kollmorgen

Leadshine

Kinco Electric

Novanta

Parker Hannifin

Aerotech

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Portescap

TQ-Systems

WITTENSTEIN

Tecnotion

Mabuchi Motor

HIGEN RNM

HansMotor

Leader Drive

Mosrac Motor

Fulling Motor

Wolong Electric

MOONS' Industries

Johnson Electric

Guangzhou Haozhi Industrial

Xinzhi Group

Hcfa

DINGS

Veichi

MYACTUATOR

MAINTEX

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Frameless Torque Motor for Robot Joint market?

What factors are driving Frameless Torque Motor for Robot Joint market growth, globally and by region?

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

How do Frameless Torque Motor for Robot Joint market opportunities vary by end market size?

How does Frameless Torque Motor for Robot Joint break out by Type, by Application?

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Figure 89. Global Frameless Torque Motor for Robot Joint Sales Market Forecast by Region (2027-2032)
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