

Global Frameless Torque Motors for Robotic Arm Market Growth 2026-2032

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Abstracts

The global Frameless Torque Motors for Robotic Arm market size is predicted to grow from US\$ 583 million in 2025 to US\$ 1175 million in 2032; it is expected to grow at a CAGR of 10.6% from 2026 to 2032.

In 2025, global Frameless Torque Motors for Robotic Arm production reached approximately 1,700 k units with an average global market price of around US\$350 per unit. The frameless torque motor for robotic arms is a type of direct-drive motor that lacks the traditional motor structures such as the casing, bearings, and shaft. It typically consists of two parts: the stator and the rotor, and is directly integrated into the joints of the robotic arm. It is capable of providing torque output directly to drive the joints of the robotic arm for movement. With high torque density, high precision, and rapid response characteristics, it can effectively enhance the performance and motion control accuracy of the robotic arm.

The future development trend of frameless torque motors for robotic arms points to synchronized volume growth across three major application directions: industrial robots, collaborative robots, and humanoid robots. During its third-quarter 2025 earnings call, Kinco Automation disclosed that the main drivers of its robotics business growth are the rapid development of industrial robots, humanoid robots, and collaborative robots. Sales of frameless torque motors in the first three quarters achieved significant year-on-year growth, pushing the revenue share of its robotics business to exceed half of the company's total revenue for the first time. Leadshine Technology explicitly stated in its 2025 board of directors' work report that it has been continuously cultivating the robotics industry since 2018, and its frameless torque motor business has begun explosive growth, with annual deliveries exceeding 120,000 units. The company's core robotics components have entered the supply chains of 80 percent of mainstream domestic

humanoid robot manufacturers, and it is currently constructing automated production capacity of two million units per year to meet downstream demand. Weiguang Holdings revealed during its 2025 earnings call that the robotic joint modules developed by its wholly-owned subsidiary have passed verification by individual complete machine manufacturers and have entered the small-batch delivery stage. These modules integrate frameless torque motors with components such as encoders, while the company's hollow cup motors are currently in the sample delivery stage. The policy front also provides clear support. The Science, Technology and Economy Commission of Shanghai Pudong New Area has issued a special application notice, providing rewards to enterprises undertaking the industrialization of humanoid robot core components, including frameless torque motors, at a certain percentage of the first batch sales contract value. In summary, the major trends in the frameless torque motor industry for robotic arms are as follows: the demand drivers cover three major scenarios of industrial robots, collaborative robots, and humanoid robots; the profit model is upgrading from single motor sales to system solutions for joint modules integrating encoders and reducers; and a company's revenue growth and profit margins will depend on its progress in industrializing core areas such as magnetic circuit optimization design, process consistency control, and module integration capabilities.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Frameless Torque Motors for Robotic Arm 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 Motors for Robotic Arm.

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

Segmentation by Type:

Inner Rotor Type

Outer Rotor Type

Segmentation by Peak Torque:

Below 100Nm

Above 100Nm

Segmentation by Cooling Method:

Air-cooled

Liquid-cooled

Segmentation by Application:

Humanoid Robots

Collaborative Robots

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.

Kollmorgen

Aerotech

Wittenstein

Parker

Sensata

Maxon Motor

Allied Motion

TQ Robodrive

Magnetic Innovations

Tecnotion

Moog

Nidec

Akribis

Celera Motion

Shenzhen Mosrac Motor

Kinco Automation (Shanghai)

Guangzhou Haozhi Industrial

Chengdu Weijing Motor

Wolong Electric Group

China Leadshine Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Frameless Torque Motors for Robotic Arm market?

What factors are driving Frameless Torque Motors for Robotic Arm market growth, globally and by region?

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

How do Frameless Torque Motors for Robotic Arm market opportunities vary by end market size?

How does Frameless Torque Motors for Robotic Arm break out by Type, by Application?

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