

Global Frameless Torque Motors for Collaborative Robots Market Growth 2026-2032

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Abstracts

The global Frameless Torque Motors for Collaborative Robots market size is predicted to grow from US\$ 407 million in 2025 to US\$ 821 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 Collaborative Robots production reached approximately 1,700 k units with an average global market price of around US\$350 per unit. The frameless torque motor for collaborative robots is a motor without the traditional structures such as a motor casing, bearings, or a central shaft. It primarily consists of two major parts: the stator and the rotor. The frameless design allows for easier integration into the joints of collaborative robots, making the robot's joint design more compact and flexible. It can directly output torque and possesses high-precision torque control capabilities, enabling precise control over the torque output of the collaborative robot's joints. Due to its compact structure, high torque density, high precision, and rapid response characteristics, it has a wide range of application scenarios in multiple fields.

The future industry development trend for frameless torque motors for collaborative robots is entering a stage of scaled mass production. During its third-quarter 2025 earnings call, Kinco Automation disclosed that one of the main drivers of its robotics business growth is the rapid development of collaborative robots, with sales of frameless torque motors in the first three quarters showing significant year-on-year growth, pushing the revenue share of its robotics business to exceed half of total company revenue for the first time. Jiangsu Leili confirmed on its investor interaction platform that its self-developed frameless torque motors have been integrated with planetary gearboxes and encoders to launch intelligent rotary joint module products, which have entered the small-batch shipment stage and can be directly applied to

collaborative robot joints. Leadshine Technology explicitly stated in its 2025 board of directors' work report that its core robotics components have entered the supply chains of mainstream domestic humanoid robot manufacturers, and its frameless torque motor business has begun explosive growth, with annual deliveries exceeding 120,000 units. The company is simultaneously constructing automated production capacity of two million units per year to meet downstream demand, including that from collaborative robots. Weiguang Holdings revealed during its 2025 earnings call that the robotic joint modules developed by its 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. On the policy front, clear signals have also been released. 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, with a clearly defined maximum cumulative support for a single enterprise. This provides policy guidance for the scaled supply of upstream motors for collaborative robots. In summary, the major trends in the frameless torque motor industry for collaborative robots are as follows: the demand driver is shifting from traditional industrial automation to highly flexible collaborative application scenarios; 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 Collaborative Robots Industry Forecast" looks at past sales and reviews total world Frameless Torque Motors for Collaborative Robots sales in 2025, providing a comprehensive analysis by region and market sector of projected Frameless Torque Motors for Collaborative Robots sales for 2026 through 2032. With Frameless Torque Motors for Collaborative Robots 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 Collaborative Robots industry.

This Insight Report provides a comprehensive analysis of the global Frameless Torque Motors for Collaborative Robots 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 Collaborative Robots 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 Collaborative Robots market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Frameless Torque Motors for Collaborative Robots 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 Drive Method:

Full Direct-drive

Quasi Direct-drive

Segmentation by Application:

Industrial Manufacturing

Medical Rehabilitation

Logistics Warehousing

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 Collaborative Robots market?

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

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

How do Frameless Torque Motors for Collaborative Robots market opportunities vary by end market size?

How does Frameless Torque Motors for Collaborative Robots break out by Type, by Application?

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