

Global Frameless Torque Motors for Robotic Arm Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Frameless Torque Motors for Robotic Arm market size is expected to reach \$ 1195 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

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.

This report studies the global Frameless Torque Motors for Robotic Arm production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Frameless Torque Motors for Robotic Arm and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Frameless Torque Motors for Robotic Arm that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Frameless Torque Motors for Robotic Arm total production and demand, 2021-2032, (K Units)

Global Frameless Torque Motors for Robotic Arm total production value, 2021-2032, (USD Million)

Global Frameless Torque Motors for Robotic Arm production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Frameless Torque Motors for Robotic Arm consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Frameless Torque Motors for Robotic Arm domestic production,

consumption, key domestic manufacturers and share

Global Frameless Torque Motors for Robotic Arm production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Frameless Torque Motors for Robotic Arm production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Frameless Torque Motors for Robotic Arm production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Frameless Torque Motors for Robotic Arm market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kollmorgen, Aerotech, Wittenstein, Parker, Sensata, Maxon Motor, Allied Motion, TQ Robodrive, Magnetic Innovations, Tecnotion, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Frameless Torque Motors for Robotic Arm market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Frameless Torque Motors for Robotic Arm Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Frameless Torque Motors for Robotic Arm Market, Segmentation by Type:

Inner Rotor Type

Outer Rotor Type

Global Frameless Torque Motors for Robotic Arm Market, Segmentation by Peak Torque:

Below 100Nm

Above 100Nm

Global Frameless Torque Motors for Robotic Arm Market, Segmentation by Cooling Method:

Air-cooled

Liquid-cooled

Global Frameless Torque Motors for Robotic Arm Market, Segmentation by Application:

Humanoid Robots

Collaborative Robots

Others

Companies Profiled:

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 Answered:

1. How big is the global Frameless Torque Motors for Robotic Arm market?
2. What is the demand of the global Frameless Torque Motors for Robotic Arm market?
3. What is the year over year growth of the global Frameless Torque Motors for Robotic Arm market?
4. What is the production and production value of the global Frameless Torque Motors for Robotic Arm market?
5. Who are the key producers in the global Frameless Torque Motors for Robotic Arm market?
6. What are the growth factors driving the market demand?

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