

Global Frameless Torque Motor for Robot Joint Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Frameless Torque Motor for Robot Joint market size is expected to reach \$ 1195 million by 2032, rising at a market growth of 15.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global Frameless Torque Motor for Robot Joint production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Frameless Torque Motor for Robot Joint 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 Motor for Robot Joint that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Frameless Torque Motor for Robot Joint total production and demand, 2021-2032, (K Units)

Global Frameless Torque Motor for Robot Joint total production value, 2021-2032, (USD Million)

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

Global Frameless Torque Motor for Robot Joint consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Frameless Torque Motor for Robot Joint domestic production, consumption, key domestic manufacturers and share

Global Frameless Torque Motor for Robot Joint production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Frameless Torque Motor for Robot Joint production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Frameless Torque Motor for Robot Joint production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Frameless Torque Motor for Robot Joint 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 Maxon, Allient, CubeMars, Kollmorgen, Leadshine, Kinco Electric, Novanta, Parker Hannifin, Aerotech, Portescap, 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 Motor for Robot Joint 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 Motor for Robot Joint Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Frameless Torque Motor for Robot Joint Market, Segmentation by Type:

Inner-Rotor Frameless Torque Motor

Outer-Rotor Frameless Torque Motor

Global Frameless Torque Motor for Robot Joint Market, Segmentation by Structure:

Slotted Frameless Torque Motor

Slotless Frameless Torque Motor

Global Frameless Torque Motor for Robot Joint Market, Segmentation by Rated Voltage:

24V

36V

48V

Others

Global Frameless Torque Motor for Robot Joint Market, Segmentation by Application:

Collaborative Robots

Quadruped Robots

Humanoid Robots

Others

Companies Profiled:

Maxon

Allient

CubeMars

Kollmorgen

Leadshine

Kinco Electric

Novanta

Parker Hannifin

Aerotech

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

Key Questions Answered:

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

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