

Global Frameless Direct Drive DC Torque Motor Market Growth 2026-2032

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Abstracts

The global Frameless Direct Drive DC Torque Motor market size is predicted to grow from US\$ 692 million in 2025 to US\$ 1196 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 2032.

In 2025, global production of frameless direct drive DC torque motors reached 1.36 million units, with an estimated average selling price of US\$520 per unit. Frameless direct-drive DC torque motors are a type of high-precision rotary motor that achieves low-speed, high-torque output through DC drive/brushless DC control. They are delivered as stator and rotor kits, without the traditional motor housing, bearings, end caps, and independent output shaft. They need to be directly embedded into robot joints, turntables, spindles, or equipment mechanisms, with the equipment structure undertaking the functions of bearing support, heat dissipation, and installation positioning. This achieves zero backlash, high rigidity, high response, and high torque density. Applications include collaborative robots, humanoid robots, industrial robot joints, medical/surgical robots, exoskeletons, AGVs/AMRs, semiconductor equipment, wafer handling equipment, machine tool turntables and spindles, optical platforms, radar/antenna turntables, aerospace actuators, precision measurement, and high-end automation equipment. The upstream of the industry chain mainly includes neodymium iron boron permanent magnet materials, electrical steel/silicon steel sheets, enameled wire, insulating materials, potting compounds, Hall effect elements, temperature sensors, encoders, power devices, servo drives, precision bearings, heat dissipation materials, and precision machined parts; the midstream includes electromagnetic design, stator lamination and winding, rotor magnet assembly, potting and encapsulation, dynamic balancing, thermal management design, testing and calibration, and system adaptation; the downstream includes robot manufacturers, medical equipment manufacturers, semiconductor equipment manufacturers, machine tool

manufacturers, aerospace and defense equipment companies, and automation system integrators. Gross profit margins range from approximately 25% to 45%.

United States market for Frameless Direct Drive DC Torque Motor 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 Direct Drive DC Torque Motor 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 Direct Drive DC Torque Motor 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 Direct Drive DC Torque Motor players cover Parker Hannifin, Kollmorgen, Allied Motion, Moog, ETEL, 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 Direct Drive DC Torque Motor Industry Forecast" looks at past sales and reviews total world Frameless Direct Drive DC Torque Motor sales in 2025, providing a comprehensive analysis by region and market sector of projected Frameless Direct Drive DC Torque Motor sales for 2026 through 2032. With Frameless Direct Drive DC Torque Motor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Frameless Direct Drive DC Torque Motor industry.

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

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

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

Segmentation by Type:

External Rotor Type

Internal Rotor Type

Segmentation by Cooling Method:

Natural Cooling

Air Cooling

Liquid Cooling/Water Cooling

Segmentation by Mounting Form:

Standard Stator/Rotor Kit

Hollow Shaft Stator/Rotor Kit

Segmentation by Application:

Industrial Robots

Medical Equipment

Semiconductor Equipment

Machine Tools

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.

Parker Hannifin

Kollmorgen

Allied Motion

Moog

ETEL

ALXION

Novanta

Aerotech, Inc.

ThinGap

Delta Line

Maxon Group

Harmonic Drive

Akribis Systems

Tecnotion

Guangzhou Haozhi Industrial

Kinco

HAN'S MOTOR

Sengle Electric

Suzhou Zhiwei Precision Drive Control Technology

Mosrac

Viso Automation

Shenzhen Dynamikwell Technology

Suzhou VEICHI Electric

Shanghai Darui Micromotor

Suzhou Yan Machine Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Frameless Direct Drive DC Torque Motor market?

What factors are driving Frameless Direct Drive DC Torque Motor market growth, globally and by region?

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

How do Frameless Direct Drive DC Torque Motor market opportunities vary by end market size?

How does Frameless Direct Drive DC Torque Motor break out by Type, by Application?

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