

Global Frameless Direct Drive Rotary Motor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GB6808C542E6EN.html>

Date: August 2026

Pages: 162

Price: US\$ 3,480.00 (Single User License)

ID: GB6808C542E6EN

Abstracts

According to our (Global Info Research) latest study, the global Frameless Direct Drive Rotary Motor market size was valued at US\$ 728 million in 2025 and is forecast to a readjusted size of US\$ 1224 million by 2032 with a CAGR of 7.9% during review period.

In 2025, global production of frameless direct drive rotary motors reached 1.36 million units, with an estimated average selling price of US\$520 per unit. Frameless direct-drive rotary motors are high-precision motors composed of stator and rotor assemblies that are directly embedded into the customer's equipment structure. They typically lack the traditional motor housing, end covers, bearings, output shafts, and independent mounting flanges. The motor body itself provides support, heat dissipation, bearings, and structural positioning, achieving a more compact space, higher torque density, lower transmission backlash, and better dynamic response. Applications include industrial robots, collaborative robots, humanoid robots, medical/surgical robots, semiconductor equipment, machine tool turntables and spindles, electronic manufacturing equipment, optical and laser equipment, aerospace, radar/antenna turntables, AGVs/AMRs, exoskeletons, and precision automation equipment. The upstream of the industry chain mainly includes rare earth permanent magnet materials, silicon steel sheets/electrical steel, enameled wire, insulating materials, epoxy potting materials, temperature sensors, Hall elements, encoders, power devices, servo drives, precision machined parts, and heat dissipation materials. The midstream includes electromagnetic design, stator windings, rotor magnet assembly, potting and encapsulation, dynamic balancing, testing and calibration, and application adaptation. The downstream includes robot manufacturers, machine tool manufacturers, semiconductor equipment manufacturers, medical equipment manufacturers, automation system integrators, and aerospace and defense equipment companies.

Gross profit margin is approximately 25%-40%.

This report is a detailed and comprehensive analysis for global Frameless Direct Drive Rotary Motor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Frameless Direct Drive Rotary Motor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Frameless Direct Drive Rotary Motor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Frameless Direct Drive Rotary Motor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Frameless Direct Drive Rotary Motor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Frameless Direct Drive Rotary Motor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Frameless Direct Drive Rotary Motor

market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Parker Hannifin, Kollmorgen, Allied Motion, Moog, ETEL, ALXION, Novanta, Aerotech, Inc., ThinGap, Delta Line, etc.

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

Market Segmentation

Frameless Direct Drive Rotary Motor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Frameless External Rotor

Frameless Internal Rotor

Market segment by Cooling Method

Natural Cooling

Air Cooling

Liquid Cooling/Water Cooling

Market segment by Torque Output

Low/Medium Torque Type

High Torque Type

Market segment by Application

Industrial Robots

Medical Equipment

Semiconductor Equipment

Machine Tools

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Frameless Direct Drive Rotary Motor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Frameless Direct Drive Rotary Motor, with price, sales quantity, revenue, and global market share of Frameless Direct Drive Rotary Motor from 2021 to 2026.

Chapter 3, the Frameless Direct Drive Rotary Motor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Frameless Direct Drive Rotary Motor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Frameless Direct Drive Rotary Motor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Frameless Direct Drive Rotary Motor.

Chapter 14 and 15, to describe Frameless Direct Drive Rotary Motor sales channel, distributors, customers, research findings and conclusion.

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