

Global Frameless Brushless DC Motors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Frameless Brushless DC Motors market size was valued at US\$ 260 million in 2024 and is forecast to a readjusted size of USD 321 million by 2031 with a CAGR of 3.1% during review period.

Brushless DC electric motor (BLDC motors, BL motors) also known as electronically commutated motors (ECMs, EC motors), or synchronous DC motors, are synchronous motors powered by DC electricity via an inverter or switching power supply which produces an AC electric current to drive each phase of the motor via a closed loop controller. The controller provides pulses of current to the motor windings that control the speed and torque of the motor.

For example, in components space and weight are a prime concern, with standard solutions coming up against their limits. For this reason, motor is offering its brushless motors as frameless motor kits. Rotors and stators are delivered separately – without bearings or motorshaft – and connected only when the components are assembled. In this way, customers achieve the best of both worlds: high torque density and minimum volume.

Global Frameless Brushless DC Motors key players include Kollmorgen, Moog, Maxon Motor, BEI Kimco, Shinano Kenshi, etc. Global top five manufacturers hold a share about 50%.

North America is the largest market, with a share over 35%, followed by China, and Europe, both have a share about 40 percent.

In terms of product, 12V-24V is the largest segment, with a share nearly 50%. And in terms of application, the largest application is Industrial Automation, followed by Aerospace and Defense, Medical Device, etc.

This report is a detailed and comprehensive analysis for global Frameless Brushless DC Motors 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 Brushless DC Motors market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global Frameless Brushless DC Motors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global Frameless Brushless DC Motors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global Frameless Brushless DC Motors market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (USD/KW), 2020-2025

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 Brushless DC Motors

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 Brushless DC Motors 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 Kollmorgen, Moog, Maxon Motor, BEI Kimco, Woodward, Shinano Kenshi, Johnson Electric, Portescap, Skurka Aerospace, Servotecnica, etc.

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

Market Segmentation

Frameless Brushless DC Motors market is split by Type and by Application. For the period 2020-2031, 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

12V-24V

24V-48V

Others

Market segment by Application

Industrial Automation

Medical Device

Aerospace & Defense

Others

Major players covered

Kollmorgen

Moog

Maxon Motor

BEI Kimco

Woodward

Shinano Kenshi

Johnson Electric

Portescap

Skurka Aerospace

Servotecnica

Mclennan

Aerotech

ARC Systems

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 Brushless DC Motors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Frameless Brushless DC Motors, with price, sales quantity, revenue, and global market share of Frameless Brushless DC Motors from 2020 to 2025.

Chapter 3, the Frameless Brushless DC Motors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Frameless Brushless DC Motors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Frameless Brushless DC Motors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Brushless DC Motors.

Chapter 14 and 15, to describe Frameless Brushless DC Motors sales channel, distributors, customers, research findings and conclusion.

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