

Global Slotless Brushless Motors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Slotless Brushless Motors market size was valued at US\$ 184 million in 2025 and is forecast to a readjusted size of US\$ 301 million by 2032 with a CAGR of 7.5% during review period.

Slotless Brushless Motors are high-performance permanent magnet motors that combine brushless structure and slotless stator technology. They replace mechanical carbon brushes with electronic commutation, and the stator has no silicon steel slots; the windings are directly fixed to a smooth surface. These motors offer advantages such as no cogging effect, smooth operation, high efficiency, low inductance, high power density, and ultra-long lifespan, making them widely used in medical equipment, industrial automation, aerospace, and other fields requiring high precision and speed.

The upstream mainly comprises high-performance raw material suppliers. Core components include high-energy-product rare-earth permanent magnet materials (such as high-grade neodymium iron boron), ultra-thin silicon steel sheets, and high-performance enameled wire. Precision machining equipment and high-performance sensors are also crucial.

In 2025, global sales of brushless slotless motors reached 622,300 units, with an average selling price of \$288 per unit. The industry's gross profit margin is around 35%-40%.

As collaborative robots and medical exoskeletons demand increasingly stringent requirements for force feedback transparency, the inherent 'cogging torque' of traditional cogging motors has become a bottleneck limiting system control bandwidth.

Brushless cogging motors, with their superior performance in high efficiency, high precision, low vibration, and lightweight design, are gradually becoming key driving forces in high-end manufacturing fields such as medical, robotics, aerospace, and industrial automation. The explosive growth of medical surgical robots is the biggest driving force, as cogging motors, due to their vibration-free and highly linear torque output, can provide doctors with near-realistic tactile feedback. Meanwhile, in fields such as commercial aerospace and industrial automation, cogging motors are largely replacing traditional drive solutions due to their excellent power-to-weight ratio and low heat dissipation characteristics.

This report is a detailed and comprehensive analysis for global Slotless Brushless 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 Slotless Brushless Motors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Slotless Brushless Motors 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 Slotless Brushless Motors 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 Slotless Brushless Motors 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 Slotless Brushless 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 Slotless Brushless 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 Portescap, FAULHABER, maxon group, Ametek, Allient, Citizen Chiba Precision, Elinco International JPC, Allied Motion, Celera Motion, MOONS INDUSTRIES, etc.

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

Market Segmentation

Slotless Brushless Motors 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

Diameter

Diameter 10mm-30mm

Diameter > 30mm

Market segment by Sensor Classification

Sensitive Type

Non-Sensitive Type

Market segment by Structure

Inner Rotor Brushless

Outer Rotor Brushless

Market segment by Application

Medical Equipment

Home Appliances

Aerospace

Industrial

Other

Major players covered

Portescap

FAULHABER

maxon group

Ametek

Allient

Citizen Chiba Precision

Elinco International JPC

Allied Motion

Celera Motion

MOONS INDUSTRIES

Constar Motion

Topband Motor

Fulling Motor

Shenzhen City Wanzhida Motor Manufacture

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

Chapter 2, to profile the top manufacturers of Slotless Brushless Motors, with price, sales quantity, revenue, and global market share of Slotless Brushless Motors from 2021 to 2026.

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

Chapter 4, the Slotless Brushless Motors 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 Slotless Brushless Motors 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 Slotless Brushless Motors.

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

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