

Global Slotless Brushless Motors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Slotless Brushless Motors market size is expected to reach \$ 301 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

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 studies the global Slotless Brushless Motors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Slotless Brushless Motors 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 Slotless Brushless Motors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Slotless Brushless Motors total production and demand, 2021-2032, (K Units)

Global Slotless Brushless Motors total production value, 2021-2032, (USD Million)

Global Slotless Brushless Motors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Slotless Brushless Motors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Slotless Brushless Motors domestic production, consumption, key domestic manufacturers and share

Global Slotless Brushless Motors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Slotless Brushless Motors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Slotless Brushless Motors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Slotless Brushless Motors 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Slotless Brushless Motors 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 Slotless Brushless Motors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Slotless Brushless Motors Market, Segmentation by Type:

Diameter

Diameter 10mm-30mm

Diameter ? 30mm

Global Slotless Brushless Motors Market, Segmentation by Sensor Classification:

Sensitive Type

Non-Sensitive Type

Global Slotless Brushless Motors Market, Segmentation by Structure:

Inner Rotor Brushless

Outer Rotor Brushless

Global Slotless Brushless Motors Market, Segmentation by Application:

Medical Equipment

Home Appliances

Aerospace

Industrial

Other

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Slotless Brushless Motors market?
2. What is the demand of the global Slotless Brushless Motors market?
3. What is the year over year growth of the global Slotless Brushless Motors market?
4. What is the production and production value of the global Slotless Brushless Motors market?
5. Who are the key producers in the global Slotless Brushless Motors market?
6. What are the growth factors driving the market demand?

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