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Global External-Rotor DC Brushless Permanent Magnet Motor Market Growth 2026-2032

https://marketpublishers.com/r/GCDD00791450EN.html
Date: October 2026
Pages: 115
Price: US$ 3,660.00 (Single User License)
ID: GCDD00791450EN

Abstracts

The global External-Rotor DC Brushless Permanent Magnet Motor market size is predicted to grow from US$ 2292 million in 2025 to US$ 3261 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 2032.

The external-rotor DC brushless permanent magnet motor is a type of permanent magnet synchronous motor featuring permanent magnets arranged on an external rotating rotor and a stator with windings located internally; commutation is achieved via an electronic commutator rather than mechanical brushes. Typically designed with a bell-shaped structure that encloses the stator, these motors offer characteristics such as high moment of inertia, smooth low-speed operation, low torque ripple, high torque output per unit of axial length, a flat and compact profile, and ease of direct connection to impellers, drums, or loads. They are widely used in applications including axial, centrifugal, and blower fans for HVAC, ventilation, refrigeration, data centers, and equipment cooling; home appliances; automotive electronics and thermal management; cooling fans and pumps; industrial automation; robotics; AGV wheel drives; textile and packaging machinery; medical equipment; aerospace; satellite reaction wheels; drones; communication equipment; and consumer electronics.

In terms of the industry chain, the upstream sector primarily comprises enameled copper wire; electrical steel/silicon steel sheets; NdFeB or ferrite permanent magnet materials; bearings; shafts; aluminum alloy and steel housings; engineering plastics; insulation materials; adhesives; and electronic control components such as Hall sensors, encoders, MCUs, MOSFETs/power devices, and PCBs. Midstream manufacturing processes include stator and rotor design, lamination stamping, winding, insulation treatment, magnet bonding and magnetization, rotor housing machining, bearing assembly, dynamic balancing, Hall sensor/encoder installation, drive PCB and

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power electronics integration, final assembly, and performance testing. The downstream sector connects to fan/HVAC manufacturers, automotive Tier 1 suppliers and OEMs, home appliance OEMs, industrial automation and robotics manufacturers, medical equipment enterprises, and aerospace clients. Geographically, the Asia-Pacific region is the largest market for both production and consumption, with China, Japan, and South Korea hosting large-scale manufacturing bases for motors, home appliances, automobiles, and electronics; Europe is a hub for high-end HVAC, EC fans, industrial automation, and automotive applications (particularly in Germany); and North America focuses on HVAC, data centers, automation, medical equipment, and aerospace. Future industry development will primarily focus on high efficiency and energy conservation; flat external-rotor designs and high torque density; EC drive integration; sensorless control; FOC sine-wave control and noise reduction; smart communication and condition monitoring; direct-drive systems that eliminate reduction gears; the substitution of rare-earth magnets with ferrite magnets in certain applications; and growth in high-end sectors such as automotive thermal management, data center cooling, robotics/AGVs, medical devices, and aerospace.

United States market for External-Rotor DC Brushless Permanent Magnet 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 External-Rotor DC Brushless Permanent Magnet 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 External-Rotor DC Brushless Permanent Magnet 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 External-Rotor DC Brushless Permanent Magnet Motor players cover Nidec, MinebeaMitsumi, ASPINA, FAULHABER, Nanotec Electronic, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “External-Rotor DC Brushless Permanent Magnet Motor Industry Forecast” looks at past sales and reviews total world External-Rotor DC Brushless Permanent Magnet Motor sales in 2025, providing a comprehensive analysis by region and market sector of projected External-Rotor DC

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Brushless Permanent Magnet Motor sales for 2026 through 2032. With External-Rotor DC Brushless Permanent Magnet Motor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world External-Rotor DC Brushless Permanent Magnet Motor industry.

This Insight Report provides a comprehensive analysis of the global External-Rotor DC Brushless Permanent Magnet 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 External-Rotor DC Brushless Permanent Magnet Motor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global External-Rotor DC Brushless Permanent Magnet Motor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for External-Rotor DC Brushless Permanent Magnet 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 External-Rotor DC Brushless Permanent Magnet Motor.

This report presents a comprehensive overview, market shares, and growth opportunities of External-Rotor DC Brushless Permanent Magnet Motor market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Single-phase

Three-phase

Multi-phase

Segmentation by Electromagnetic Structure:

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Slotted

Slotless

Segmentation by Application:

Automotive

Home Appliances

Medical Equipment

Robotics

Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

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- 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.

- Nidec

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MinebeaMitsumi

ASPINA

FAULHABER

Nanotec Electronic

MACCON

Portescap

Allient

Jiangsu Fulling Motor

Hengdrive

Jiangsu Leili

Volcano Electric

Key Questions Addressed in this Report

What is the 10-year outlook for the global External-Rotor DC Brushless Permanent Magnet Motor market?

What factors are driving External-Rotor DC Brushless Permanent Magnet Motor market growth, globally and by region?

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

How do External-Rotor DC Brushless Permanent Magnet Motor market opportunities vary by end market size?

How does External-Rotor DC Brushless Permanent Magnet Motor break out by Type, by Application?

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