

Global Automotive Brushless DC Motor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Brushless DC Motor market size is expected to reach \$ 9341 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

Brushless DC motors (BLDC) for automotive applications are motors that drive the rotor through electronic commutation, replacing traditional brushes. They offer advantages such as high efficiency, long lifespan, low noise, and precise speed control, and are widely used in electric vehicles, hybrid vehicles, and automotive components such as power steering, electric fans, and electric pumps. The automotive BLDC motor industry chain includes upstream raw materials such as permanent magnets, copper wire, steel sheets, and electronic control components. The midstream includes motor manufacturing, rotor and stator assembly, electronic controller integration, and quality inspection. Downstream applications cover electric vehicles, hybrid vehicles, automotive parts suppliers, and aftermarket replacement services. The industry chain also includes installation, commissioning, thermal management, and maintenance services to ensure stable motor performance and extended lifespan. In 2025, the global production of automotive BLDC motors was approximately 52,083 thousand units, with a global average market price of approximately US\$120 per unit. The gross profit margin of major companies in the industry ranged from 20% to 40%. In 2025, the global production capacity of automotive BLDC motors was approximately 65,104 thousand units.

The market for automotive brushless DC motors is growing rapidly due to the increasing adoption of electric vehicles and hybrid vehicles worldwide. Demand for higher efficiency, reduced emissions, and improved vehicle performance drives BLDC motor deployment. Technological advances in permanent magnet materials, motor design,

and electronic controllers enhance performance, reliability, and cost-effectiveness. OEMs and Tier-1 suppliers are investing in compact, high-torque, and energy-efficient motor solutions. Overall, regulatory policies promoting electrification, along with rising consumer preference for EVs, continue to support market growth.

This report studies the global Automotive Brushless DC Motor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive Brushless DC Motor total production and demand, 2021-2032, (K Units)

Global Automotive Brushless DC Motor total production value, 2021-2032, (USD Million)

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

Global Automotive Brushless DC Motor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Brushless DC Motor domestic production, consumption, key domestic manufacturers and share

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

Global Automotive Brushless DC Motor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Brushless DC Motor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Brushless DC Motor 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, Composite Motors, Anaheim Automation, Lin Engineering, MOONS, Rotex Electric, Nidec Corporation, Maxon Motor, Johnson Electric Holdings, Allied Motion, 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 Automotive Brushless DC Motor 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 Automotive Brushless DC Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Brushless DC Motor Market, Segmentation by Type:

Inner Rotor Motor

Outer Rotor Motor

Global Automotive Brushless DC Motor Market, Segmentation by Power Supply Voltage:

12V

24V

Global Automotive Brushless DC Motor Market, Segmentation by Rotational Speed:

Low Speed

Medium Speed

High Speed

Global Automotive Brushless DC Motor Market, Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

Companies Profiled:

Portescap

Composite Motors

Anaheim Automation

Lin Engineering

MOONS

Rotex Electric

Nidec Corporation

Maxon Motor

Johnson Electric Holdings

Allied Motion

Sinotech

Sensata Technologies

Geeplus

ElectroCraft

Hansen Motors

Odawara Automation

Motor Power Company

Jiangsu Chaoli Electric Appliance Co., Ltd.

Jiangsu DINGS' Intelligent Control Technology Co., Ltd.

Key Questions Answered:

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

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