

Global Brushless Synchronous Motor Controller Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Brushless Synchronous Motor Controller market size is expected to reach \$ 5494 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

A brushless synchronous motor controller is a core power electronic control device specifically designed for brushless synchronous motors, serving as the 'control center' connecting the power supply and the brushless synchronous motor. Its core working principle involves converting the mains frequency AC/DC power supply into adjustable voltage and frequency (V/F) three-phase AC power through a power conversion module. This, combined with a position/speed detection module, collects real-time rotor position, speed, and current signals. The core control module (MCU/DSP/FPGA) then adjusts the output voltage, frequency, and current using a dedicated control algorithm to achieve functions such as motor starting, stepless speed regulation, forward and reverse rotation, braking, and torque control. Simultaneously, it integrates fault protection and operating condition monitoring functions, enabling rapid response and protection against faults such as overcurrent, overvoltage, overtemperature, undervoltage, stalled rotor, and phase loss, ensuring the safe and stable operation of both the motor and the controller.

In 2025, the global production of brushless synchronous motor controllers was 21.63 million units, with an average price of US\$193 per unit.

Upstream mainly includes power semiconductor devices, control and driver ICs, MCUs or DSPs, sensors, passive components, PCBs, and thermal management materials. Downstream demand is the key focus, covering electric vehicle traction and auxiliary systems, industrial automation and robotics, home appliances and HVAC equipment,

drones and power tools, as well as energy storage and renewable energy equipment. Downstream customers emphasize control accuracy, efficiency, reliability, safety functions, and system compatibility, with particularly stringent requirements for functional safety and long-term stability in automotive and industrial applications. Brushless synchronous motor controllers are moving toward higher power density, higher efficiency, and greater intelligence, with integrated designs, advanced control algorithms, multi-protocol communication support, and functional safety becoming major trends. Market growth is driven by the expansion of electric vehicles, increasing electrification and automation, and tighter energy efficiency regulations that accelerate the replacement of legacy controllers. Key constraints include cost volatility of advanced chips and power devices, high R&D investment, long certification cycles, and intensifying competition that pressures pricing. Overall, gross margins for brushless synchronous motor controllers are at a mid-to-high level, typically ranging from 30% to 50%. Manufacturers with proprietary control algorithms, strong chip integration capabilities, and a focus on high-end applications tend to achieve higher margins, while suppliers targeting generic and price-sensitive markets face relatively lower profitability.

This report studies the global Brushless Synchronous Motor Controller production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Brushless Synchronous Motor Controller total production and demand, 2021-2032, (Units)

Global Brushless Synchronous Motor Controller total production value, 2021-2032, (USD Million)

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

Global Brushless Synchronous Motor Controller consumption by region & country, CAGR, 2021-2032 & (Units)

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

Global Brushless Synchronous Motor Controller production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Brushless Synchronous Motor Controller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Brushless Synchronous Motor Controller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Brushless Synchronous Motor Controller 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 Siemens, Schneider Electric, ABB, Mitsubishi Electric, Rockwell Automation, Danfoss, Eaton, Emerson, Bosch, Panasonic, 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 Brushless Synchronous Motor Controller market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Brushless Synchronous Motor Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Brushless Synchronous Motor Controller Market, Segmentation by Type:

FOC (Field-Oriented Control)

V/F (Voltage/Frequency Ratio Control)

Direct Torque Control (DTC)

Other

Global Brushless Synchronous Motor Controller Market, Segmentation by Input Current Type:

DC Input

AC Input

Global Brushless Synchronous Motor Controller Market, Segmentation by Motor Type:

Permanent Magnet Brushless Synchronous Motor

Electrically Excited Brushless Synchronous Motor

Global Brushless Synchronous Motor Controller Market, Segmentation by Application:

New Energy Vehicles

Industrial Transmission and Automation

New Energy Power Generation

Rail Transit and Shipbuilding

Municipal Utilities

Other

Companies Profiled:

Siemens

Schneider Electric

ABB

Mitsubishi Electric

Rockwell Automation

Danfoss

Eaton

Emerson

Bosch

Panasonic

Omron

Yaskawa

Fanuc

Nidec

Parker Hannifin

Regal Rexnord

SEW-EURODRIVE

Fuji Electric

Hitachi

Toshiba

WEG

Delta Electronics

Beckhoff

Lenze

KEB Automation

Festo

Moog

Inovance

Leadshine

Estun

Sanyo Denki

Oriental Motor

Maxon

FAULHABER

Key Questions Answered:

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

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