

Global Permanent Magnet Synchronous Motor (PMSM) Controller Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Permanent Magnet Synchronous Motor (PMSM) Controller market size is expected to reach \$ 13340 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

A permanent magnet synchronous motor controller is a power electronic device based on core algorithms such as vector control (FOC) and direct torque control (DTC). As the 'brain' of a permanent magnet synchronous motor (PMSM) system, it collects signals such as rotor position, current, and speed, and outputs precise frequency and voltage variable drive signals to achieve real-time adjustment and precise control of motor speed, torque, and power. It also integrates protection functions such as overcurrent, overvoltage, overheat, and undervoltage protection, as well as communication interfaces. It features fast response, high efficiency, and high control precision, and is the core control component for stable operation and performance optimization of permanent magnet synchronous motors.

In 2025, the global production of permanent magnet synchronous motor controllers was 21.8 million units, with an average price of US\$363 per unit.

Upstream of permanent magnet synchronous motor controllers mainly includes power semiconductors, MCUs and DSPs, gate drivers and isolation devices, magnetics and passive components, sensors, thermal and mechanical materials, and basic electronic parts, with strong requirements for industrial or automotive-grade reliability and supply stability. Downstream represents the core of demand and value, serving electric vehicles, electric two- and three-wheelers, industrial automation and robotics, HVAC and compressors, fans and pumps, servo systems, and renewable energy equipment. End users focus on control accuracy and dynamic response, efficiency and power density, noise and vibration performance, functional safety and reliability, software and hardware customization, system cost, and long-term supply and technical support, with

clear trends toward platform-based selection and large-scale deployment. Industry trends point to simultaneous advances in higher power density and efficiency, evolution of control algorithms toward model-based and adaptive approaches, faster integration and modularization of hardware and software, expanding adoption of wide-bandgap devices, and greater software-defined flexibility across applications. Key drivers include rising electrification and automation penetration, stricter energy efficiency and emission regulations, growing demand for compact high-performance equipment, and OEM pressure to reduce total system cost. Major constraints include volatility in power device and chip costs, long development and certification cycles, complexity of system tuning across fragmented applications, and intensifying price competition limiting R&D investment. Overall gross margins for PMSM controllers are moderate, typically ranging from 20% to 35%. Vendors with proprietary algorithms, strong system-level design capabilities, stable supply chains, and deep relationships with leading customers achieve higher margins, while companies competing mainly on standardized low-cost products face significant margin pressure.

This report studies the global Permanent Magnet Synchronous Motor (PMSM) Controller production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Permanent Magnet Synchronous Motor (PMSM) Controller total production and demand, 2021-2032, (Units)

Global Permanent Magnet Synchronous Motor (PMSM) Controller total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Permanent Magnet Synchronous Motor (PMSM) Controller domestic production, consumption, key domestic manufacturers and share

Global Permanent Magnet Synchronous Motor (PMSM) Controller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Permanent Magnet Synchronous Motor (PMSM) Controller production by Type,

production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Permanent Magnet Synchronous Motor (PMSM) Controller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Permanent Magnet Synchronous Motor (PMSM) 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 Bosch, DENSO Corporation, ZF Friedrichshafen AG, BorgWarner Inc., Valeo, Hitachi Astemo, Ltd., Schaeffler AG (incl. Vitesco Technologies), AUMOVIO (formerly Continental Automotive), Marelli, Hyundai Mobis, 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 Permanent Magnet Synchronous Motor (PMSM) 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 Permanent Magnet Synchronous Motor (PMSM) Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Permanent Magnet Synchronous Motor (PMSM) Controller Market,
Segmentation by Type:

Vector Control (Field-Oriented Control, FOC)

V/f (Voltage/Frequency) Control

Model Predictive Control (MPC)

Global Permanent Magnet Synchronous Motor (PMSM) Controller Market,
Segmentation by Power:

Below 1kW

1kW-15kW

15kW-100kW

Above 100kW

Global Permanent Magnet Synchronous Motor (PMSM) Controller Market,
Segmentation by Installation Method:

Integrated

Split Type

Global Permanent Magnet Synchronous Motor (PMSM) Controller Market,
Segmentation by Communication Interface:

CAN Bus Type

RS485/RS232 Type

Ethernet Type

Wireless Communication Type

Global Permanent Magnet Synchronous Motor (PMSM) Controller Market,
Segmentation by Application:

New Energy Vehicles

Other Electric Vehicles

Industrial Automation

Smart Home

Special Equipment

Companies Profiled:

Bosch

DENSO Corporation

ZF Friedrichshafen AG

BorgWarner Inc.

Valeo

Hitachi Astemo, Ltd.

Schaeffler AG (incl. Vitesco Technologies)

AUMOVIO (formerly Continental Automotive)

Marelli

Hyundai Mobis

Nidec Corporation

AISIN Corporation

Dana Incorporated (Dana TM4)

Magna International Inc.

LG Magna e-Powertrain

Delta Electronics, Inc.

Mitsubishi Electric Mobility Corporation

Curtis Instruments, Inc.

Kelly Controls, LLC

Key Questions Answered:

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

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