

Global Variable Frequency Permanent Magnet Synchronous Motors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Variable Frequency Permanent Magnet Synchronous Motors market size is expected to reach \$ 23350 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

A variable frequency permanent magnet synchronous motor (VFM) is a type of permanent magnet synchronous motor that uses permanent magnets as its excitation source and employs a frequency converter (VFD) to regulate the power supply frequency and voltage, thereby achieving precise control of the motor's speed, torque, and operating status. It mainly consists of a stator, a permanent magnet rotor, a variable frequency drive, a control system, and auxiliary devices. During motor operation, the VFD converts a fixed-frequency power supply to an adjustable-frequency power supply, ensuring that the rotor always operates synchronously with the rotating magnetic field of the stator, thus achieving wide-range speed regulation and high-efficiency operation.

The upstream sector primarily includes suppliers of rare earth permanent magnet materials (neodymium iron boron, samarium cobalt, etc.), silicon steel sheets, copper wire, aluminum materials, bearings, insulating materials, sensors, encoders, and power electronic components such as IGBTs and SiC power modules. It also involves manufacturers of frequency converters, controllers, and drive systems. The midstream sector comprises R&D and manufacturing companies specializing in variable frequency permanent magnet synchronous motors and motor drive systems, responsible for motor design, electromagnetic simulation, control algorithm development, system integration, and complete machine manufacturing. The downstream sector is widely used in industrial automation, fans, pumps, compressors, HVAC, mining machinery, petrochemical equipment, CNC machine tools, robots, new energy vehicles, rail

transportation, and new energy power generation.

In 2025, global sales of variable frequency permanent magnet synchronous motors reached 29.6 million units, with a production capacity of approximately 43 million units. The average selling price was \$450 per unit, and the average gross profit margin was 20%-30%.

Global energy conservation, emission reduction, and green manufacturing policies have provided long-term support for the industry's development. Countries are continuously raising energy efficiency standards for industrial motors, promoting the replacement of traditional inefficient drive systems with high-efficiency motors and variable frequency speed control technologies. Major economies such as the EU, China, the US, and Japan have successively introduced industrial energy conservation, electrification, and carbon emission reduction policies, promoting the expansion of the variable frequency permanent magnet synchronous motor market. Meanwhile, issues such as the security of the rare earth permanent magnet material supply chain, the localization of key power semiconductors, and industrial digital transformation have become key areas of focus for the industry, driving companies to accelerate technological upgrades and supply chain layout.

This report studies the global Variable Frequency Permanent Magnet Synchronous Motors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Variable Frequency Permanent Magnet Synchronous 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 Variable Frequency Permanent Magnet Synchronous Motors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Variable Frequency Permanent Magnet Synchronous Motors total production and demand, 2021-2032, (K Units)

Global Variable Frequency Permanent Magnet Synchronous Motors total production value, 2021-2032, (USD Million)

Global Variable Frequency Permanent Magnet Synchronous Motors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Variable Frequency Permanent Magnet Synchronous Motors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Variable Frequency Permanent Magnet Synchronous Motors domestic production, consumption, key domestic manufacturers and share

Global Variable Frequency Permanent Magnet Synchronous Motors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Variable Frequency Permanent Magnet Synchronous Motors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Variable Frequency Permanent Magnet Synchronous Motors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Variable Frequency Permanent Magnet Synchronous 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 ABB, Siemens, Nidec, Mitsubishi Electric, Yaskawa, HITACHI, Schneider Electric, Bosch, MEIDENSHA, ALSTOM, 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 Variable Frequency Permanent Magnet Synchronous 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 Variable Frequency Permanent Magnet Synchronous Motors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Variable Frequency Permanent Magnet Synchronous Motors Market,
Segmentation by Type:

Surface Type

Built-In Type

Global Variable Frequency Permanent Magnet Synchronous Motors Market,
Segmentation by Power:

?50 kW

50?200 kW

200?1000 kW

?1000 kW

Global Variable Frequency Permanent Magnet Synchronous Motors Market,
Segmentation by Voltage:

?690V

690V?10kV

Global Variable Frequency Permanent Magnet Synchronous Motors Market, Segmentation by Application:

New Energy Vehicles

Industrial Automation

CNC Machine Tools

Compressor Equipment

Pumps and Fans

Rail Transit

Marine Ships

Others

Companies Profiled:

ABB

Siemens

Nidec

Mitsubishi Electric

Yaskawa

HITACHI

Schneider Electric

Bosch

MEIDENSHA

ALSTOM

TOSHIBA

Parker

Baum?ller

Delta Electronics

Wolong Electric Drive

Dayang Electric

Dongfang Electric

CATL

XEMC

Key Questions Answered:

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

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