

Global Variable Frequency Permanent Magnet Synchronous Motors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G8BA9DD7FB2BEN.html>

Date: July 2026

Pages: 140

Price: US\$ 3,480.00 (Single User License)

ID: G8BA9DD7FB2BEN

Abstracts

According to our (Global Info Research) latest study, the global Variable Frequency Permanent Magnet Synchronous Motors market size was valued at US\$ 13706 million in 2025 and is forecast to a readjusted size of US\$ 23350 million by 2032 with a CAGR of 7.9% during review period.

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 is a detailed and comprehensive analysis for global Variable Frequency Permanent Magnet Synchronous Motors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Variable Frequency Permanent Magnet Synchronous Motors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Variable Frequency Permanent Magnet Synchronous Motors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Variable Frequency Permanent Magnet Synchronous Motors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Variable Frequency Permanent Magnet Synchronous Motors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Variable Frequency Permanent Magnet Synchronous Motors

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Variable Frequency Permanent Magnet Synchronous Motors market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Variable Frequency Permanent Magnet Synchronous Motors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Surface Type

Built-In Type

Market segment by Power

?50 kW

50?200 kW

200?1000 kW

?1000 kW

Market segment by Voltage

?690V

690V?10kV

Market segment by Application

New Energy Vehicles

Industrial Automation

CNC Machine Tools

Compressor Equipment

Pumps and Fans

Rail Transit

Marine Ships

Others

Major players covered

ABB

Siemens

Nidec

Mitsubishi Electric

Yaskawa

HITACHI

Schneider Electric

Bosch

MEIDENSHA

ALSTOM

TOSHIBA

Parker

Baumüller

Delta Electronics

Wolong Electric Drive

Dayang Electric

Dongfang Electric

CATL

XEMC

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Variable Frequency Permanent Magnet Synchronous Motors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Variable Frequency Permanent Magnet Synchronous Motors, with price, sales quantity, revenue, and global market share of Variable Frequency Permanent Magnet Synchronous Motors from 2021 to 2026.

Chapter 3, the Variable Frequency Permanent Magnet Synchronous Motors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Variable Frequency Permanent Magnet Synchronous Motors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Variable Frequency Permanent Magnet Synchronous Motors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Variable Frequency Permanent Magnet Synchronous Motors.

Chapter 14 and 15, to describe Variable Frequency Permanent Magnet Synchronous Motors sales channel, distributors, customers, research findings and conclusion.

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