

Global Variable Frequency Permanent Magnet Synchronous Motors Market Growth 2026-2032

<https://marketpublishers.com/r/GA5412E286EDEN.html>

Date: July 2026

Pages: 139

Price: US\$ 3,660.00 (Single User License)

ID: GA5412E286EDEN

Abstracts

The global Variable Frequency Permanent Magnet Synchronous Motors market size is predicted to grow from US\$ 13030 million in 2025 to US\$ 22815 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Variable Frequency Permanent Magnet Synchronous Motors Industry Forecast" looks at past sales and reviews total world Variable Frequency Permanent Magnet Synchronous Motors sales in 2025, providing a comprehensive analysis by region and market sector of projected Variable Frequency Permanent Magnet Synchronous Motors sales for 2026 through 2032. With Variable Frequency Permanent Magnet Synchronous Motors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Variable Frequency Permanent Magnet Synchronous Motors industry.

This Insight Report provides a comprehensive analysis of the global Variable Frequency Permanent Magnet Synchronous Motors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Variable Frequency Permanent Magnet Synchronous Motors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Variable Frequency Permanent Magnet Synchronous Motors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Variable Frequency Permanent Magnet Synchronous Motors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Variable Frequency Permanent Magnet Synchronous Motors.

This report presents a comprehensive overview, market shares, and growth opportunities of Variable Frequency Permanent Magnet Synchronous Motors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Surface Type

Built-In Type

Segmentation by Power:

?50 kW

50?200 kW

200?1000 kW

?1000 kW

Segmentation by Voltage:

?690V

690V?10kV

Segmentation by Application:

New Energy Vehicles

Industrial Automation

CNC Machine Tools

Compressor Equipment

Pumps and Fans

Rail Transit

Marine Ships

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Variable Frequency Permanent Magnet Synchronous Motors market?

What factors are driving Variable Frequency Permanent Magnet Synchronous Motors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Variable Frequency Permanent Magnet Synchronous Motors market opportunities vary by end market size?

How does Variable Frequency Permanent Magnet Synchronous Motors break out by Type, by Application?

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