

Global Water-Cooled Permanent Magnet Synchronous Motors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Water-Cooled Permanent Magnet Synchronous Motors market size is expected to reach \$ 11358 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

A water-cooled permanent magnet synchronous motor is a high-efficiency motor that uses permanent magnets as the excitation source, maintains synchronous rotor speed with the stator's rotating magnetic field, and utilizes a liquid cooling system for heat dissipation. Its core structure consists of a stator, permanent magnet rotor, water-cooled jacket (cooling channels), bearing system, and control and drive device. Compared to traditional air-cooled motors, water-cooled permanent magnet synchronous motors directly remove heat generated during winding and core operation through circulating coolant, significantly improving heat dissipation efficiency and power density, enabling the motor to maintain stable performance under high load, high speed, and continuous operation conditions.

The upstream of the industry chain mainly includes suppliers of rare earth permanent magnet materials (neodymium iron boron, samarium cobalt, etc.), silicon steel sheets, copper materials, aluminum materials, bearings, insulating materials, cooling system components (cooling water jackets, water pumps, heat exchangers), power semiconductor devices (IGBTs, SiC modules), and core components such as encoders and sensors. The midstream consists of companies designing, manufacturing, and integrating water-cooled permanent magnet synchronous motors and their supporting drive control systems, covering the R&D and production of industrial motors, new energy vehicle drive motors, high-speed spindle motors, and marine propulsion motors. The downstream applications are widely used in new energy vehicles, industrial

automation equipment, CNC machine tools, robots, fans, water pumps, compressors, rail transportation, marine propulsion systems, mining machinery, and new energy power generation equipment.

In 2025, global sales of water-cooled permanent magnet synchronous motors reached 10.3 million units, with a production capacity of approximately 15 million units. The average selling price was \$615 per unit, and the average gross profit margin was 20%-30%.

Technological development focuses primarily on high power density, high speed, high efficiency, and intelligent control. Product structures are gradually upgrading from traditional air-cooled permanent magnet motors to water-cooled, oil-cooled, and composite cooling solutions, improving continuous output capacity through optimized cooling channel design and enhanced heat dissipation efficiency. In terms of the motor body, high-performance neodymium iron boron magnets, high-slot full-rate windings, hairpin flat wire windings, and high-speed rotor technology are widely used. In drive control, SiC power devices, advanced vector control algorithms, and intelligent monitoring systems are becoming increasingly prevalent. The trend towards integrated design of motors, electronic controls, and reduction mechanisms will further strengthen in the future, driving electric drive systems towards higher integration levels.

Global energy conservation, emission reduction, and carbon neutrality policies provide long-term impetus for the water-cooled permanent magnet synchronous motor industry. Countries are continuously promoting the replacement of traditional inefficient motors with high-efficiency motors and supporting the development of high-efficiency drive technologies through new energy vehicle subsidies, industrial energy-saving standards, electrified transportation construction, and green manufacturing policies.

Simultaneously, the energy efficiency standards for high-efficiency motors are constantly improving, prompting companies to increase R&D investment and product upgrades. On the other hand, as a core raw material, the supply security and price fluctuations of rare earth permanent magnet materials have also attracted high attention from various countries, prompting companies in the industrial chain to strengthen supply chain layout and material substitution research.

This report studies the global Water-Cooled Permanent Magnet Synchronous Motors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

U.S. VS China: Water-Cooled Permanent Magnet Synchronous Motors domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Water-Cooled 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, Mitsubishi Electric, HITACHI, Nidec, Bosch, MEIDENSHA, AVL, CONTINENTAL, 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 Water-Cooled 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 Water-Cooled Permanent Magnet Synchronous Motors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Water-Cooled Permanent Magnet Synchronous Motors Market, Segmentation by Type:

Surface Type

Built-In Type

Global Water-Cooled Permanent Magnet Synchronous Motors Market, Segmentation by Power:

?50 kW

50?200 kW

200?1000 kW

?1000 kW

Global Water-Cooled Permanent Magnet Synchronous Motors Market, Segmentation by Voltage:

?690V

690V?10kV

?10kV

Global Water-Cooled 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

Mitsubishi Electric

HITACHI

Nidec

Bosch

MEIDENSHA

AVL

CONTINENTAL

ALSTOM

TOSHIBA

Parker

Baumüller

Delta Electronics

Wolong Electric Drive

Dayang Electric

Dongfang Electric

Langgao Electric

CATL

WEG

Yaskawa

Key Questions Answered:

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

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