

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

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Abstracts

The global Permanent Magnet Synchronous Motor (PMSM) market size is expected to reach \$ 41033 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Permanent Magnet Synchronous Motor (PMSM) is an AC synchronous motor in which the rotor excitation is provided by permanent magnets rather than field windings. The rotor rotates in synchronism with the stator's rotating magnetic field and is typically controlled by an inverter or servo drive. PMSMs are valued for high efficiency, high power density, precise torque control, compact size, and low rotor loss, making them widely used in electric vehicles, industrial automation, elevators, rail traction, HVAC compressors, robotics, and high-efficiency drive systems.

In 2025, global Permanent Magnet Synchronous Motor (PMSM) production reached approximately 40 million units.

The Permanent Magnet Synchronous Motor (PMSM) market is mainly driven by the rapid electrification of transportation and the global shift toward higher-efficiency drive systems. In electric vehicles, hybrid vehicles, electric buses, rail traction, and two-wheelers, PMSMs are preferred because they offer high power density, strong torque response, compact structure, and excellent efficiency across a wide speed range. Automakers are under pressure to extend driving range, reduce battery size, improve acceleration performance, and meet stricter carbon-emission standards, all of which favor PMSM adoption. The expansion of charging infrastructure, government incentives for new energy vehicles, and the growing localization of electric drive supply chains are also reinforcing demand for traction motors based on permanent magnet synchronous

technology.

Another important driver comes from industrial energy saving and automation upgrades. PMSMs are increasingly used in servo systems, robotics, CNC machinery, elevators, compressors, pumps, fans, HVAC equipment, and precision motion-control platforms because they reduce energy consumption while improving control accuracy and system responsiveness. As factories move toward intelligent manufacturing, equipment suppliers are replacing conventional induction motors and older drive systems with high-efficiency PMSM solutions paired with inverters and digital controllers. In parallel, rising electricity costs, stricter motor-efficiency standards, and the need for compact, low-maintenance equipment are encouraging broader adoption in both heavy industry and commercial infrastructure.

This report studies the global Permanent Magnet Synchronous Motor (PMSM) 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) 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) that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Permanent Magnet Synchronous Motor (PMSM) 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 Mitsubishi Electric, Hitachi, ABB, Siemens, GE, Bosch, Meidensha, JJE, 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 Permanent Magnet Synchronous Motor (PMSM) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Below 5Kw

5-10Kw

10-50Kw

Above 50Kw

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

Air-cooled Motor

Water-cooled Motor

Oil-cooled Motor

Other

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

Surface-mounted (SPMSM)

Interior/Embedded (IPMSM)

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

Automotive

Elevator

Industrial & Automation

Others

Companies Profiled:

Mitsubishi Electric

Hitachi

ABB

Siemens

GE

Bosch

Meidensha

JJE

Continental

Alstom

Broad-Ocean

Toshiba

Xizi Forvorda

Key Questions Answered:

1. How big is the global Permanent Magnet Synchronous Motor (PMSM) market?
2. What is the demand of the global Permanent Magnet Synchronous Motor (PMSM) market?

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

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