

Global Box-Type Permanent Magnet Synchronous Motors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Box-Type Permanent Magnet Synchronous Motors market size is expected to reach \$ 865 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

A box-type permanent magnet synchronous motor refers to a permanent magnet synchronous motor that uses permanent magnets as the excitation source and integrates the motor body, terminals, protection devices, control interfaces, and some auxiliary components into a closed box structure. This product, through modular and integrated design, mounts the motor and electrical connection system uniformly within a robust box-type enclosure, featuring dustproof, moisture-proof, corrosion-resistant, impact-resistant, and easy-to-install and maintain characteristics, enabling it to adapt to complex industrial environments and outdoor operating conditions.

The upstream of the industry chain mainly includes suppliers of core raw materials and components such as rare earth permanent magnet materials (neodymium iron boron, samarium cobalt, etc.), silicon steel sheets, copper wire, bearings, insulating materials, castings and enclosure materials, sensors, encoders, frequency converters, and IGBT/SiC power modules; the midstream consists of manufacturers of box-type permanent magnet synchronous motors and permanent magnet drive systems, responsible for motor design, electromagnetic optimization, enclosure structure integration, protection system development, drive control system integration, and complete machine production; the downstream is mainly used in heavy-duty industrial fields such as mining, metallurgy, petroleum, chemical, and ports.

In 2025, the global sales volume of box-type permanent magnet synchronous motors

will reach 94,000 units, with a production capacity of approximately 134,000 units, an average selling price of US\$5,200 per unit, and an average gross profit margin of 20%-30%.

Global carbon reduction and industrial energy conservation policies have provided a favorable policy environment for the development of box-type permanent magnet synchronous motors. Countries are continuously raising energy efficiency standards for industrial equipment, promoting the replacement of traditional inefficient drive equipment with high-efficiency motors. China's 'dual-carbon' strategy, green mine construction policies, and industrial energy-saving renovation projects are continuously advancing, becoming important driving forces for industry development. Furthermore, the accelerating pace of intelligent mining, port automation, and industrial digital transformation has also promoted the widespread application of permanent magnet direct drive technology and intelligent drive systems.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Box-Type Permanent Magnet Synchronous Motors production by Type,

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

This report profiles key players in the global Box-Type 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, Bosch, MEIDENSHA, ALSTOM, TOSHIBA, 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 Box-Type 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 Box-Type Permanent Magnet Synchronous Motors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Horizontal Type

Vertical Type

Global Box-Type Permanent Magnet Synchronous Motors Market, Segmentation by Cooling Methods:

IC611 (Self-Cooled with Built-In Fan)

IC666 (Independent Fan Forced Cooling)

IC81W (Water Cooler)

Global Box-Type Permanent Magnet Synchronous Motors Market, Segmentation by Voltage:

≤690V

690V-6kV

≥6kV

Global Box-Type Permanent Magnet Synchronous Motors Market, Segmentation by Application:

Mining Conveying

Port Material Conveying

Metallurgy

Power

Chemical

Petroleum

Others

Companies Profiled:

ABB

Siemens

Nidec

Mitsubishi Electric

Yaskawa

HITACHI

Bosch

MEIDENSHA

ALSTOM

TOSHIBA

Parker

Baumüller

Taihao Shenyang Electric

Delta Electronics

Wolong Electric Drive

Dayang Electric

Dongfang Electric

XEMC

Key Questions Answered:

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

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