

# Global Permanent Magnet Motor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Permanent Magnet Motor market size is expected to reach \$ 96962 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

Permanent Magnet Motors (PM motors) are electric motors that use permanent magnets embedded in or mounted on the rotor to generate a constant magnetic field, eliminating the need for rotor excitation current. Compared with induction motors, PM motors offer higher efficiency, higher power density, smaller size, faster dynamic response, and lower energy loss, making them ideal for applications such as electric vehicles, industrial robots, automation equipment, HVAC compressors, drones, and precision machine tools. In 2025, global Permanent Magnet Motors reached approximately 218.11 M Units. Upstream of the Permanent Magnet Motors industry includes permanent magnets (mainly NdFeB), silicon steel laminations, copper wire, power semiconductors, and structural materials. Key magnet suppliers include JL MAG, Ningbo Yunsheng, Hitachi Metals, while silicon steel is supplied by Baosteel, POSCO, Nippon Steel, and power devices by Infineon, STMicroelectronics, onsemi, Mitsubishi Electric. Downstream demand comes from EV OEMs (Tesla, BYD, Geely), industrial automation and robotics companies (KUKA, FANUC, Estun), appliance manufacturers (Midea, Gree, Haier), and energy equipment firms (Vestas, Goldwind).

Driven by electrification, industrial automation, and energy efficiency policies, Permanent Magnet Motors have become a core growth engine of the global motor industry. Their superior efficiency, compactness, power density, and controllability are accelerating adoption in EVs, robotics, and high-efficiency compressors. With carbon neutrality targets, Industry 4.0, and rapid expansion of New Energy Industry, the Permanent Magnet Motors market is expected to sustain steady mid-to-high single-digit growth, with China emerging as both the largest producer and consumer and a key player in rare earth and manufacturing capabilities.

This report studies the global Permanent Magnet Motor production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Permanent Magnet Motor total production and demand, 2021-2032, (M Units)

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

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

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

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

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

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

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

This report profiles key players in the global Permanent Magnet Motor 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, WEG, Toshiba, Franklin Electric, Regal Beloit, Mitsubishi Electric, HITACHI, TECO Electric, 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 Motor market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M 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 Permanent Magnet Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Permanent Magnet Motor Market, Segmentation by Type:

1-25 KW

25-100 KW

100-300 KW

Above 300 KW

#### Global Permanent Magnet Motor Market, Segmentation by Rotor Type:

Inner Rotor

Outer Rotor

#### Global Permanent Magnet Motor Market, Segmentation by Magnetic Flux:

Radial Flux

Axial Flux

Global Permanent Magnet Motor Market, Segmentation by Cooling Method:

Water Cooling

Air Cooling

Global Permanent Magnet Motor Market, Segmentation by Application:

Petrochemical

Oil and Gas

Metallurgy

Mine (Except Coal)

Coal

Power

Aerospace

Textile Industry

Other

**Companies Profiled:**

ABB

Siemens

Nidec

WEG

Toshiba

Franklin Electric

Regal Beloit

Mitsubishi Electric

HITACHI

TECO Electric

Wolong

Dongfeng Electric Machinery

CRRC

Jiamusi Electric Machine

Zhongyuan Electric

XIANGTAN ELECTRIC MANUFACTURING

Mingteng Dianji

Jiangtian Electric Machine

Jiangsu Aerospace Power Mechanical

Hunan SUND Technological

Yaskawa Electric

Bosch Rexroth

Rockwell Automation

Regal Rexnord

Jing-Jin Electric

Moons

Broad-Ocean Motor

**Key Questions Answered:**

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

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