

Global Surface Permanent Magnet Motors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Surface Permanent Magnet Motors market size is expected to reach \$ 22716 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global Surface Permanent Magnet Motor output reached about 360 million units and global capacity of around 400 million units. The average price is about USD 35 per unit, with gross margins near 31%. Surface Permanent Magnet Motors are a type of permanent magnet synchronous motor (PMSM) in which permanent magnets are mounted directly on the outer surface of the rotor rather than embedded inside it. This design provides a simple rotor structure, high power density, excellent efficiency, fast dynamic response, and precise speed control, making SPM motors widely used in electric vehicles, industrial automation, robotics, HVAC systems, machine tools, pumps, compressors, drones, and household appliances. The supply chain begins upstream with raw materials such as rare-earth permanent magnets (primarily neodymium-iron-boron (NdFeB) and samarium-cobalt), electrical steel laminations, copper winding wire, aluminum housings, bearings, shafts, insulation materials, and power semiconductor devices. Midstream manufacturers design and produce motor components, including stators, rotors, magnet assemblies, encoders, and motor drives, then assemble complete SPM motor systems. Downstream, these motors are integrated into electric drivetrains, industrial machinery, servo systems, renewable energy equipment, aerospace systems, and consumer products, with performance increasingly enhanced through advanced motor control algorithms, high-efficiency inverters, and high-temperature magnetic materials.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Surface Permanent Magnet 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 Nidec Corporation, Mitsubishi Electric, Yaskawa Electric, Fuji Electric, ABB Group, Siemens, Bosch Rexroth, SEW-Eurodrive, Lafert Group, Hyosung Heavy Industries, 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 Surface Permanent Magnet 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 Surface Permanent Magnet Motors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Surface Permanent Magnet Motors Market, Segmentation by Type:

Natural Air-Cooled

Forced Air-Cooled

Liquid-Cooled

Oil-Cooled

Glycol Cooled

Global Surface Permanent Magnet Motors Market, Segmentation by Power Rating:

500 kW

Global Surface Permanent Magnet Motors Market, Segmentation by Application:

Automotive

Industrial

HVAC Systems

Consumer Appliances

Robotics

Renewable Energy

Others

Companies Profiled:

Nidec Corporation

Mitsubishi Electric

Yaskawa Electric

Fuji Electric

ABB Group

Siemens

Bosch Rexroth

SEW-Eurodrive

Lafert Group

Hyosung Heavy Industries

Regal Rexnord

Kollmorgen

Parker Hannifin

Emerson Electric

Inovance Technology

Estun Automation

Leadshine Technology

Wolong Electric

Dazhong Electric Motor

CRRC Zhuzhou Electric

Key Questions Answered:

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

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