

Permanent Magnet Motor Market Size, Share & Trends Analysis Report By Motor Type (Permanent Magnet AC Motor, Brushless DC Motor), By Magnetic Material Type, By Power Rating, By Cooling Method, By End User Industry, By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global permanent magnet motor market size was estimated at USD 58.68 billion in 2025 and is projected to reach USD 122.59 billion by 2033, growing at a CAGR of 9.8% from 2026 to 2033. The growth can be attributed to the increasing adoption of permanent magnet motors, which offer higher torque per unit volume than conventional designs, enabling high-performance, compact drive solutions across multiple applications.

The growing demand for high-efficiency motors at partial loads and low speeds is driving the permanent magnet motor market. These magnets allow the motor to deliver higher power from a smaller and lighter design, which makes the motor compact, easier to install, and less energy-intensive. Many applications, including pumps, fans, and compressors, operate for long periods at partial load or reduced speed. Permanent magnet motors maintain high efficiency under these conditions, while conventional motors typically experience efficiency losses. This consistent efficiency at lower operating levels helps end users reduce energy consumption and lower operating costs.

The rising demand for energy-efficient electric vehicles is accelerating growth. Car buyers and fleet operators increasingly choose EVs that deliver longer range and lower operating costs, and vehicle manufacturers meet this demand by using permanent magnet motors that convert battery energy into motion more efficiently than traditional

motors. For instance, in March 2026, the Leapmotor A05 uses a permanent-magnet synchronous motor in its drivetrain, signaling continued reliance on this technology in cost-effective, energy-efficient EVs.

Both public and private stakeholders are investing in electric motor supply chains and reducing reliance on critical raw materials. For instance, in October 2025, Niron Magnetics partnered with Stellantis to develop next-generation electric motor designs using rare-earth-free permanent magnets for automotive applications. The collaboration centers on Niron's Iron Nitride magnet technology, which uses abundant iron and nitrogen to reduce reliance on rare-earth materials largely sourced from China. The project builds on Stellantis Ventures' strategic investment in Niron and was supported by USD 2.7 million from the U.S. Department of Energy to strengthen domestic supply chains and advance energy independence.

Stringent government regulations pertaining to energy efficiency and emissions reduction are driving the adoption of permanent magnet motors, as industries replace inefficient motor systems with high-efficiency solutions to meet compliance requirements and lower operating costs. Agencies such as the U.S. Department of Energy are mandating higher minimum efficiency levels for electric motors to reduce electricity consumption and industrial emissions. In addition, regulatory frameworks and compliance requirements are accelerating the replacement of older motor systems with premium-efficiency solutions. Permanent magnet motors align well with these mandates because they deliver higher efficiency across a wide operating range, helping businesses lower energy use and operating costs. As inefficient motor designs are phased out, regulatory pressure continues to drive sustained adoption of permanent magnet motors across industrial, commercial, and infrastructure applications

Global Permanent Magnet Motor Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global permanent magnet motor market report based on motor type, magnetic material, cooling method, power rating, cooling method, end user industry, and region.

Motor Type Outlook (Revenue, USD Million, 2021 - 2033)

Permanent Magnet AC Motor

Permanent Magnet DC Motor

Brushless DC Motor

Hermetic Motor

Magnetic Material Type Outlook (Revenue, USD Million, 2021 - 2033)

Neodymium Iron Boron

Samarium Cobalt

Ferrite

Power Rating Outlook (Revenue, USD Million, 2021 - 2033)

Up to 4 kW

4-22 kW

22-75 kW

75 kW and Above

Cooling Method Outlook (Revenue, USD Million, 2021 - 2033)

Air-Cooled

Liquid-Cooled

Oil-Cooled

Hybrid Cooling

End User Industry Outlook (Revenue, USD Million, 2021 - 2033)

Automotive

Mining, Oil and Gas

Aerospace and Defense

Consumer Electronics

Healthcare Equipment

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

Australia

Latin America

Brazil

Middle East & Africa (MEA)

KSA

UAE

South Africa

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Fig. 52 Europe permanent magnet motor market estimates and forecasts, 2021 - 2033

(USD Million)

Fig. 53 UK permanent magnet motor market estimates and forecasts, 2021 - 2033

(USD Million)

Fig. 54 Germany permanent magnet motor market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 55 France permanent magnet motor market estimates and forecasts, 2021 - 2033 (USD Million)

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Fig. 66 South Africa permanent magnet motor market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 67 Strategy framework

Fig. 68 Company Categorization

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