



**Global Permanent Magnet Motor Market (Motor Type, Magnet type, Power Range, Applications and Geography) - Size, Share, Global Trends, Company Profiles, Demand, Insights, Analysis, Research, Report, Opportunities, Segmentation and Forecast, 2013 - 2020**

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# Aarkstore - Global Permanent Magnet Motor Market



Permanent magnet is an object made up of ferromagnetic material, which has magnetic properties and creates its own magnetic field. “[Permanent magnet motors](#)” are manufactured using permanent magnets in the rotors. Rare earth magnets, made from rare earth metals, are powerful magnets used in PM motors. Unlike electromagnets, permanent magnets do not require continuous electrical energy to maintain their electric field, due to which PM motors are preferred over electromagnetic motors. One of the recent innovations in permanent magnets are the nanocomposite permanent magnets. The use of permanent magnets reduces the size of motors and improves performance, which can be done using Nanocomposite permanent magnets. Currently, these magnets are used in magnetic storage media, biomedicine, sensors, pigments and catalysts.

Most permanent magnet motors are used in combination with AC or DC electric motors. These type of motors require less power, possess excellent heat dissipation property and performs with higher efficiencies as compared to other electric motors. Permanent magnet motors are used in various industrial applications, in order to improve the efficiencies of the machines. Forklifts, Robots, Blower drives, Railroad (switchers, track, crossing gates), Marine Pumps and Amusement rides, are some of the prime examples where permanent magnet motors are used. Presently, various advantages of permanent magnets such as operating capabilities at higher temperatures, (due to less rotor losses) and less bearing currents (due to larger air gaps) are driving the permanent magnet motors market. Additionally, permanent magnet synchronous motors have a 30% to 60% higher torque capacity with faster acceleration and deceleration, as compared to asynchronous type motors. On the other hand, high cost of these motors due to limited raw material sources of magnets and complex construction circuitries for some applications limits the use of these motors across various applications. Market players are launching highly efficient and low power consuming devices, to meet the rising demands of consumers. The market is witnessing growing trend of energy efficient motors in all applications. For instance, in 2012, Hitachi launched an 11kW, high efficiency permanent magnet synchronous motor, without the use of conventional materials. This motor is compact in size, offers an operational efficiency of approximately 93% and delivers improved performance of the motor. The efficiency of motors is divided in various efficiency classes namely IE1, IE2, IE3, IE4, where IE4 being highest efficiency and IE1 being lowest.

## **KEY BENEFITS**

The study highlights the global market for permanent magnet motors along with current market conditions and a trend/awareness forecast to forage the prominent investment pockets in the market

The analysis unveils the dominant aspects, viz. upsurge in demand of permanent magnet motors in industrial and agricultural sectors, which drives the global permanent magnet motor market. Trends of the global market are outlined to determine the overall attractiveness and single out market trends and gain a stronger foothold in the market

A Microscopic analysis of segments is conducted to gauge the potential of the market. These segments, highlight the favorable conditions for the growth of global permanent magnet motor market

Porters five forces model helps in analyzing the potential of buyers & suppliers with a competitive sketch of the market, which helps market players in better decision making.

Value chain analysis of the industry provides a clear view of the key intermediaries involved and elaborates their roles and value addition at every stage in the chain.

## **KEY MARKET SEGMENTS**

### **MARKET BY MOTOR TYPE**

AC motors

DC motors

Hermetic motors

### **MARKET BY MAGNET TYPE**

Neodymium (NdFeB)

Samarium Cobalt (SmCo<sub>5</sub> and  
Sm<sub>2</sub>Co<sub>17</sub>)

Ferrite

### **MARKET BY POWER RANGE**

4.0 kW and below

Between 4.0 22.0 kW

Between 22.0 75.0 kW

75.0 kW and above

## **MARKET BY APPLICATIONS**

Factory Automation

Consumer

Office Automation

Commercial

Lab Equipment

Medical

Military/Aerospace

### **MARKET BY GEOGRAPHY**

North America

Europe

Asia Pacific

LAMEA

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## ***Aarkstore - Global Permanent Magnet Motor Market***

**Published: Jan 2015 | 145 Pages**

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<b>Format</b>	<b>Price</b>
<b>PDF</b>	<b>\$ 4515</b>
<b>Hard copy</b>	<b>\$ 4815</b>
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<b>Site Licence</b>	<b>\$ 7515</b>

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