

Global Inner Rotor Permanent Magnet Motors Market Growth 2026-2032

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Abstracts

The global Inner Rotor Permanent Magnet Motors market size is predicted to grow from US\$ 979 million in 2025 to US\$ 1432 million in 2032; it is expected to grow at a CAGR of 5.6% from 2026 to 2032.

An inner rotor permanent magnet motor is a motor configuration in which the rotor is positioned inside the stator and permanent magnets serve as the source of the rotor's magnetic field. Its operating principle involves the interaction between the constant magnetic field generated by the permanent magnets and the rotating magnetic field produced by supplying alternating current to the stator windings; this interaction drives rotor rotation and the output of mechanical energy. These motors are characterized by high power density, high efficiency, rapid response, compact size, and excellent speed regulation capabilities, making them a mainstream technology choice for drive motors in new energy vehicles, high-speed industrial motors, robotic servo motors, and aviation electric propulsion systems. In 2025, global sales of inner rotor permanent magnet motors reached 4.45 million units, with a production capacity of approximately 6.5 million units, an average selling price of \$225 per unit, and an average gross margin of 20%–30%.

The development of inner-rotor permanent magnet motor technology is primarily focused on achieving high power density, high rotational speeds, high efficiency, and low costs. Current mainstream market products include Surface-mounted Permanent Magnet Synchronous Motors (SPMSM) and Interior Permanent Magnet Synchronous Motors (IPMSM); the latter are more widely used in new energy vehicle (NEV) powertrains because embedding the magnets within the rotor offers superior mechanical strength, better flux-weakening capabilities for speed extension, and greater suitability for high-speed operation. Key areas for future technological advancement

include optimizing the application of high-performance NdFeB magnets, designing rotor magnetic circuit structures, enhancing the mechanical strength of high-speed rotors, implementing oil or liquid cooling technologies, and achieving the integrated assembly of the motor, controller, and reduction gear. Meanwhile, to reduce reliance on rare-earth materials, some companies are exploring alternative technologies such as synchronous reluctance motors and electrically excited synchronous motors.

The global promotion of new energy vehicles, along with energy conservation and emission reduction regulations and stricter industrial energy efficiency standards, has created a policy environment conducive to the sustained growth of inner-rotor permanent magnet motors. China, Europe, and the United States are all driving upgrades in motor technology through support policies for the NEV industry, carbon emission regulations, and initiatives promoting high-efficiency motors. As the NEV industry chain moves toward higher efficiency and greater integration, electric drive systems are evolving into highly integrated units combining the motor, controller, and reduction gear, thereby imposing stricter requirements on motor size, weight, and performance. Furthermore, concerns regarding the stability of rare-earth supplies and price volatility are prompting global motor manufacturers to explore ways to reduce the use of permanent magnet materials or develop rare-earth-free motor technologies to enhance supply chain security.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Inner Rotor Permanent Magnet Motors Industry Forecast" looks at past sales and reviews total world Inner Rotor Permanent Magnet Motors sales in 2025, providing a comprehensive analysis by region and market sector of projected Inner Rotor Permanent Magnet Motors sales for 2026 through 2032. With Inner Rotor Permanent Magnet Motors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Inner Rotor Permanent Magnet Motors industry.

This Insight Report provides a comprehensive analysis of the global Inner Rotor Permanent Magnet Motors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Inner Rotor Permanent Magnet Motors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Inner Rotor Permanent Magnet Motors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Inner Rotor Permanent Magnet Motors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Inner Rotor Permanent Magnet Motors.

This report presents a comprehensive overview, market shares, and growth opportunities of Inner Rotor Permanent Magnet Motors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Surface-Mounted

Built-In

Segmentation by Power:

?100 kW

100–300 kW

?300 kW

Segmentation by Application:

New Energy Vehicles

Aerospace

Industrial Automation

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Nidec Corporation

Mitsubishi Electric

Hitachi Astemo

Yaskawa Electric

Toshiba

Fisher & Paykel Technologies

Ebm?papst

ZIEHL-ABEGG

Portescap

Nanotec

MOOG

Johnson Electric

Xiangming Intelligent

Leili Motor

Moons' Electric

Key Questions Addressed in this Report

What is the 10-year outlook for the global Inner Rotor Permanent Magnet Motors market?

What factors are driving Inner Rotor Permanent Magnet Motors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Inner Rotor Permanent Magnet Motors market opportunities vary by end market size?

How does Inner Rotor Permanent Magnet Motors break out by Type, by Application?

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