

# The Aircraft Electric Motor Market is projected to grow to USD 13.06 Billion by 2030, expanding at a CAGR of 6.8%

*The Business Research Company's  
Aircraft Electric Motor Market Report  
2026 – Market Size, Trends, And Global  
Forecast 2026-2035*

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[/EINPresswire.com/](https://www.einpresswire.com/) -- "The aircraft

electric motor sector has seen notable

expansion recently, driven by technological advancements and increasing demand for sustainable propulsion in aviation. As the industry evolves, electric motors are becoming a critical component in modern aircraft designs, contributing to improved efficiency and reduced environmental impact. Let's explore the market's current size, growth drivers, regional outlook, and key trends shaping its future.

Projected Size and Growth of the [Aircraft Electric Motor Market](#) by 2026

The aircraft electric motor market has experienced significant growth in recent years. Forecasts indicate that the market will expand from \$9.36 billion in 2025 to \$10.05 billion in 2026, reflecting a compound annual growth rate (CAGR) of 7.3%. This growth during the historical period is driven by the early adoption of electric propulsion systems in light aircraft and unmanned aerial vehicles. Additional factors contributing to this growth include increased investments in lithium-polymer battery technology, which supports electric motor development, growing demand for advanced magnetic flux and coil assemblies to enhance motor efficiency, advancements in cobalt steel alloy stators that provide higher power density, and the use of lightweight materials like carbon fiber plates to reduce the weight of propulsion systems.

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Future Growth Prospects and Market Size Outlook to 2030

Looking ahead, the aircraft electric motor market is expected to continue expanding robustly, reaching \$13.06 billion by 2030 with a CAGR of 6.8%. This forecast growth is largely attributed to the rise of hybrid-electric and fully electric aircraft programs, which are driving demand for more



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Aircraft Electric Motor Market Report 2026

sophisticated electric motors. Additionally, the push for high-efficiency electric propulsion to help meet aviation emission targets is fueling development. Improvements in battery energy density will enable better integration of electric motors into larger aircraft. There is also increasing focus on enhancing the reliability of key components such as ball bearings and electromagnetic parts designed for aviation use. Furthermore, aerospace original equipment manufacturers (OEMs) are investing heavily in scalable electric propulsion systems aimed at future aircraft platforms. Emerging trends highlight the growing adoption of permanent magnet motors with high power density, advanced thermal management and cooling systems, modular distributed motor architectures for electric vertical takeoff and landing (eVTOL) and urban air mobility (UAM), lightweight composite and 3D-printed motor housings, and integrated motor-inverter units known as electromechanical power modules.

### Understanding the Basics of Aircraft Electric Motors

An aircraft electric motor operates by converting electrical energy from a battery into mechanical motion using electromagnetic forces. Inside the motor, magnetic forces cause an electromagnet to rotate, generating thrust. The batteries used to power these motors are typically composed of stacks of thin lithium-polymer cells, which provide the necessary energy density and lightweight characteristics essential for aviation applications.

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### Key Factors Supporting [Growth in the Aircraft Electric Motor Market](#)

The continued growth of the aviation industry is a major driver of the aircraft electric motor market. This sector includes all aspects of aircraft design, manufacturing, operation, and maintenance, as well as management of passenger and cargo air transport services. Increasing global demand for air travel and freight transportation is fueling the expansion of airline fleets, flight routes, and airport infrastructure. Electric motors contribute to this growth by enabling propulsion systems that are more efficient, lightweight, and environmentally sustainable. For example, in August 2025, the International Air Transport Association (IATA), a Canada-based trade association, reported that in 2024, the United States remained the world's largest aviation market with 876 million passengers. This figure was driven mainly by strong domestic travel and represented a year-over-year increase of 5.2%. Such trends illustrate how the aviation industry's expansion is closely linked to rising demand for aircraft electric motors.

### Regional Outlook: North America Leading While Asia-Pacific Surges

In 2025, North America held the largest share of the aircraft electric motor market. However, the Asia-Pacific region is projected to experience the fastest growth during the forecast period. The market research covers several key regions, including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global market dynamics.

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