

# Aircraft Electric Motor Market to Soar to \$14.5 Billion by 2032 - Insights into the Aviation Industry's Power Evolution

*An aircraft electric motor is a type of electric motor specifically designed for use in aircraft propulsion systems.*

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/EINPresswire.com/ -- Allied Market Research published a report, titled, "[Aircraft Electric Motor Market](#) by Type (AC Motor and DC Motor), by Output (Up to 10 kW and 10-200 kW), by Application (Propulsion System, Flight Control System, Engine Control System, Environmental Control System and Others): Global Opportunity Analysis and Industry Forecast, 2023-2032". According to the report, the global aircraft electric motor industry generated \$6.4 billion in 2022, and is anticipated to generate \$14.4 billion by 2032, witnessing a CAGR of 8.5% from 2023 to 2032.



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The global aircraft electric motor market is driven by factors such as surge in regulations on carbon emissions and environmental sustainability, advancements in electric motor technology, and government policies, incentives and funding programs for aircraft electrification. However, high voltage and thermal issues of aircraft electrical systems and limited energy density of batteries are hampering the aircraft electric motor market growth. On the contrary, rise of urban air mobility and air taxi services and regional and short-haul aviation are expected to offer remunerative opportunities for the expansion of the aircraft electric motor market during the forecast period.

There is a growing demand for aircraft electric motors due to Increasing awareness of climate change and the need to reduce greenhouse gas emissions has led to a strong push for cleaner

and more sustainable aviation solutions. Electric motors offer lower, or zero emissions compared to traditional combustion engines, making them an attractive choice for reducing the environmental impact of aircraft. In addition, the [aircraft electric motor market is an exciting and rapidly evolving sector](#), with significant potential for growth and innovation in the coming year. Industry often emphasizes the importance of embracing sustainability. They recognize the need for cleaner and more efficient propulsion technologies to address environmental concerns and meet the growing demand for sustainable aviation solutions. They may discuss their company's commitment to reducing emissions and developing innovative electric motor solutions.

Based on type, the AC motor segment held the highest market share in 2022 accounting for nearly three-fifths of the global market share and is estimated to maintain its leadership status throughout the forecast period, as these motors are a key component of electric aircraft propulsion systems, and as the demand for electric aircraft rises, the demand for AC motors is also expected to increase. However, the DC motor segment is projected to manifest the highest CAGR of 10.1% from 2023 to 2032, as it offers a favorable combination of power density, efficiency, and compactness. This makes them ideal for aircraft applications where weight and space constraints are critical.

For more information on the aircraft electric motor market, visit <https://www.alliedmarketresearch.com/aircraft-electric-motor-market/purchase-options>

Based on application, the engine control system segment held the highest market share in 2022, accounting for nearly one-fourth of the global aircraft electric motor market revenue. Furthermore, the propulsion segment is estimated to maintain its leadership status throughout the forecast period, as it plays a vital role in managing the operation of the electric motor(s) used for aircraft propulsion. However, the other segment is projected to manifest the highest CAGR of 11.4% from 2023 to 2032, electric motor-driven door actuation systems can incorporate advanced safety features and reliability enhancements. These systems can include position sensors, obstacle detection, and redundant control mechanisms to ensure the safe and reliable operation of aircraft doors.

Based on the output, the 10-200 kW segment accounted for the largest share in 2022 accounting for more than four-fifths of the global market share, and is estimated to maintain its leadership status throughout the forecast period, as its power output are designed to meet the unique requirements of aviation applications, including high power-to-weight ratio, efficiency, reliability, and compactness. However, the up to 10 kW segment is expected to portray the largest CAGR of

12.1% from 2023 to 2032. Aircraft electric motors with outputs up to 10 kW find applications in smaller aircraft, auxiliary systems, and actuation systems where lower power requirements are sufficient.

Reported by Allied Market Research, the aircraft electric motor market is expected to grow at a CAGR of 11.9% from 2023 to 2032.

Based on region, North America held the highest market share in terms of revenue in 2022, accounting for nearly one-third of the global aircraft electric motor market revenue, owing to rise in demand for aircraft propel [the growth of the aircraft electric motor market](#) in North America during the forecast period. However, Europe region is estimated to maintain its leadership status throughout the forecast period. However, the LAMEA region is expected to witness the fastest CAGR of 11.9% from 2023 to 2032, owing to presence of wealthy economies such as Saudi Arabia & Qatar and increasing investment toward the advancement of aircraft systems and components by the LAMEA nations are anticipated to support the growth of the LAMEA aircraft electric motor market during the forecast period.

Key players in the aircraft electric motor market include:

Ametek, Inc.  
EMRAX D.O.O.  
H3X Systems and Motors  
Maxon  
MGM Compro  
Moog Inc.  
MagniX  
Safaran  
Woodward, Inc.  
Windings Inc.

The report provides a detailed analysis of these key players of the global aircraft electric motor market. These players have adopted different strategies such as new product launches, collaborations, expansion, joint ventures, agreements, and others to increase their market share and maintain dominant shares in different regions. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market players to showcase the competitive scenario.

For more information, contact Allied Market Research at [sales@alliedmarketresearch.com](mailto:sales@alliedmarketresearch.com) or [+1 866 709 0840](tel:+18667090840).

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Electric motors have the potential to significantly reduce noise pollution compared to traditional engines, especially during takeoff and landing. This makes them particularly appealing for applications such as urban air mobility (UAM) and electric vertical takeoff and landing (eVTOL) aircraft, where noise restrictions are critical. Advancements in electric motor technology, battery systems, and power electronics have played a crucial role in expanding the capabilities of aircraft

electric motors.

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