

Aviation Gas Turbine Industry Report: Competitive Landscape and Future Prospects

*The Business Research Company's
Aviation Gas Turbine Global Market
Report 2026 – Market Size, Trends, And
Forecast 2026-2035*

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/EINPresswire.com/ -- The aviation gas
turbine industry has experienced

significant expansion recently, driven by technological advancements and increasing demand for efficient propulsion systems worldwide. This sector is poised for continued growth as innovations and rising air travel contribute to its promising outlook. Below is a detailed overview of the market size, key drivers, leading regions, and trends shaping this evolving market.



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Current Market Size and Expected Growth of the [Aviation Gas Turbine Market](#)

The aviation gas turbine market has shown strong growth over the past few years, with its value projected to rise from \$12.14 billion in 2025 to \$12.88 billion in 2026, reflecting a compound annual growth rate (CAGR) of 6.1%. This growth during the historical period is largely due to increasing production of both commercial and military aircraft, which drives demand for gas turbine engines. Improvements in compressor and turbine technologies have also enhanced engine efficiency and thrust, further propelling market expansion. Additionally, the growth in maintenance and overhaul activities encourages replacement of components such as combustion chambers and exhaust systems. The adoption of high-temperature materials has improved engine durability and performance, while the global surge in air travel continues to support the need for reliable propulsion systems.

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Looking ahead, the aviation gas turbine market is expected to expand robustly, reaching \$16.21 billion by 2030 with a CAGR of 5.9%. The forecasted growth is supported by the development of next-generation fuel-efficient turbines aimed at reducing emissions and lowering operating costs. There is also rising investment in hybrid-electric propulsion systems that incorporate

advanced turbine parts. The adoption of additive manufacturing techniques for producing lightweight and optimized components is gaining momentum. Demand is growing for high-performance engines tailored to support long-haul and supersonic aircraft concepts. Moreover, innovations such as digital twins and advanced analytics are being developed to optimize turbine performance and improve lifecycle management. Key trends include enhanced underwater navigation technologies, autonomous mission planning, advanced imaging and mapping capabilities, multi-sensor payload integration, as well as extended battery life and endurance solutions.

Understanding Aviation Gas Turbines and Their Function

An aviation gas turbine is a rotary engine that converts combustion gases into mechanical energy. Its primary purpose is to provide propulsion power for aircraft, while also enhancing combustion efficiency and energy output. These engines operate on the principles of compression, combustion, and expansion, increasing air pressure and temperature while reducing velocity. This mechanism ensures an optimal power-to-weight ratio, contributing to greater comfort and performance during flights.

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Rising Global Air Travel as a Major Growth Driver in the Aviation Gas Turbine Market

The expanding number of global travelers is a significant factor driving the aviation gas turbine market forward. Global travelers are defined as individuals frequently journeying internationally or relocating between locations. Due to the operational principles of gas turbines, which rely on managing air compression and combustion to maintain power, these engines are well-suited to meet the demands of increasing air traffic. For instance, in November 2024, Eurostat—the statistical office of the European Union based in Luxembourg—reported that air travel within the EU reached 973 million passengers in 2023. This represents a 19.3% rise compared to 2022. Such a surge in passenger numbers clearly supports the growing need for advanced gas turbine technology in aviation.

Dominant Market Region for Aviation Gas Turbines

In 2025, North America held the position as the largest regional market for aviation gas turbines. The comprehensive market report covers various geographic areas, including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, South America, the Middle East, and Africa, providing a broad perspective on global market trends and regional dynamics.

Our 2026 market reports now feature expanded strategic intelligence through market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables, Excel-based dashboards, market hotspots infographics, key technology and future trend analysis, along with updated graphics and tables.

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