

Aircraft Micro Turbine Engines Market by End Use (OEM, Aftermarket), Platform (General Aviation, Commercial Aviation, Military Aviation, Advanced Air Mobility), Horsepower, Engine Type, Fuel Type and Region - Forecast to 2030

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Abstracts

The Aircraft Micro Turbine Engines Market is projected to grow from USD 2.8 billion in 2021 to USD 4.5 billion by 2030, at a CAGR of 5.5%. The market exhibits lucrative growth potential during the forecast period primarily due to the inherent operational benefits of micro turbine engines, including low operating and maintenance costs of micro turbine engines and the introduction of new generation hybrid architecture in aircraft. Nevertheless, the emergence of hybrid electric power generation technology and the development of distributed power generation systems are anticipated to open several growth opportunities for aircraft micro turbine engine manufacturers during the forecast period.

The Aircraft Micro Turbine Engines Market is dominated by a handful of established players, mainly due to the high technical expertise required to design the high-performance components of a micro turbine engine. The key players in the market include Raytheon Technologies Corporation (US), Honeywell International Inc. (US), Kratos Defense & Security Solutions Inc. (US), Safran SA (France), and UAV Turbines Inc. (US), among others. Major focus was given to the contracts and new product development due to the changing requirements of end-user industries globally.

Based on installation, the aftermarket segment of the aircraft micro turbine engines market is estimated to account for the largest market share from 2021 to 2030

Based on installation, the auxiliary power segment is expected to dominate the market

share during the forecast period (2021 to 2030). The aftermarket segment of the aircraft micro turbine engines market is limited to the replacement of auxiliary power units (APUs) once its service life expires. Since the aftermarket segment mainly replaces micro turbines on old aircraft, the research excludes platforms such as light aircraft, military UAVs, and advanced air mobility (cargo drones and air taxis). Micro turbine engine manufacturers are the sole source of APU replacement. The aftermarket for micro turbine engines of light aircraft, military UAVs, and advanced air mobility aircraft is futuristic as many of these products are yet to be commercialized. However, the continuous advancements in micro turbine engine technology are expected to drive the growth of the aftermarket segment.

Based on end-use, the auxiliary power segment is estimated to account for the largest market share from 2021 to 2030

Based on end-use, the auxiliary power segment is expected to dominate the market share during the forecast period (2021 to 2030). There are ongoing research activities undertaken on an aircraft architecture wherein a micro turbine engine is used for auxiliary power. Micro turbine engines with power ratings between 5 HP and 500 HP are expected to find applications as auxiliary power units in civil aviation by cutting off the operating costs of light aircraft and business jets. The use of microturbines for auxiliary power would increase onboard electric power generation and reduce emissions. The anatomy of a microturbine is similar to a gas turbine used in an aircraft comprising compressor, combustor, turbine, alternator, recuperator, and generator. For small-scale power generation, microturbines for propulsion in aircraft offer many advantages over other technologies, including lesser moving parts, compatible size, lighter weight, better efficiency, lower emissions, and waste fuel utilization. These systems also allow recovery of waste heat, leading to efficiencies greater than 80%.

Based on platform, the advanced air mobility segment is estimated to exhibit the fastest growth in the aircraft micro turbine engines market from 2021 to 2030

Based on the platform, the advanced air mobility segment is expected to witness the fastest growth during the forecast period (2021 to 2030). The unprecedented growth in urban population is envisioned to promote the development of hybrid air taxis and unmanned cargo delivery systems. Presently, several companies are focusing on the development of air taxis that are expected to be commercialized in the coming years. Air taxis can be piloted manually or flown autonomously and have the capability to take off and land vertically, making it easier for them to land in crowded locations in cities. For instance, Rolls- Royce (US) announced the development of a comprehensive hybrid

aerospace turbine engine that is expected to pave the way for experimental flights on aircraft after 2021. The development includes a prototype of the APUS i-5 aircraft to demonstrate the commercial applications of hybrid-electric technology. The system could be used across a wide range of transport platforms, including VTOLs, to enable distributed electric propulsion in aircraft.

Moreover, hybrid architecture is being preferred for power powering intercity travel and cargo deliveries. With the establishment of a viable Beyond Visual Line of Operations (BVLOS) regulatory framework, the adoption of drones for point-to-point delivery of cargo and passengers is envisioned to increase. Japan is one of the few countries to have tested large UAVs for use in freight transport. Swiss Post and Swiss WorldCargo (Switzerland) are currently experimenting with drones for air freight solutions. Plans for commercial drones for freight have recently been announced by many companies, including Deutsche Post (DHL)(Germany), Zookal, Inc. (an Australian textbook service), and Amazon, Inc (US).

The European market is projected to contribute the largest share from 2021 to 2030 in the aircraft micro turbine engines market

Based on region, Europe is expected to lead the aircraft micro turbine engines market from 2021 to 2030. The demand for stealth and durable aerial vehicles for use in military operations in Europe is expected to rise soon. Key players operating in the European market are entering into agreements and collaborations to develop technologies and platforms that can expand the applicability of aerial vehicles in border and coastal patrolling and homeland security. The UK government has permitted more than 130 private companies to fly UAVs in civilian airspace, while France has approved limited UAV operations for homeland security activities. The demand for compact and efficient propulsion systems to operate military drones will drive the aircraft micro turbine engines market. The rise in the number of development programs for electric aircraft, the development of aerial vehicles with advanced technologies, and the growth in air traffic are the major factors expected to add up to the growth of the market in this region during the forecast period.

The break-up of the profile of primary participants in the aircraft micro turbine engines market:

By Company Type: Tier 1 – 49%, Tier 2 – 37%, and Tier 3 – 14%

By Designation: C Level – 55%, Director Level – 27%, and Others – 18%

By Region: North America – 27%, Europe – 55%, Asia Pacific – 9%, Rest of the World – 9%

Major companies profiled in the report include Raytheon Technologies Corporation (US), Honeywell International Inc. (US), Kratos Defense & Security Solutions Inc. (US), Safran SA (France), and UAV Turbines Inc. (US), among others.

Research Coverage:

This market study covers the aircraft micro turbine engines market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on installation, end use, platform, horsepower, engine type, fuel type, and region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall aircraft micro turbine engines market. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on aircraft micro turbine engines offered by the top players in the market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the aircraft micro turbine engines market

Market Development: Comprehensive information about lucrative markets – the

report analyses the aircraft micro turbine engines market across varied regions

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the aircraft micro turbine engines market

Competitive Assessment: In-depth assessment of market shares, growth strategies, products, and manufacturing capabilities of leading players in the aircraft micro turbine engines market

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