Aircraft Fuel Systems Market by System (Pumps, Valves, Control Units, Flow Meters, Sensors, Gauges), Technology (Pump, Gravity, Pressurized Feed), Engine (Conventional, Hybrid-Electric), Point of Sale, Aircraft & Region - Global Forecast to 2030

Market Report | 2025-05-07 | 300 pages | MarketsandMarkets

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Report description:

The aircraft fuel systems market is expected to be valued at USD 10.17 billion in 2025 and projected to reach USD 11.63 billion by 2030, at a CAGR of 2.7%. The demand for aircraft fuel systems is tied to several factors, such as the demand for next-generation aircraft, technological advances (advanced fuel monitoring systems, lightweight composite fuel tanks, and electronic fuel management), the emphasis on green aviation (like sustainable aviation fuels and hybrid-electric), and government investments in defense aviation upgrades. Strategic partnerships among OEMs, system integrators, and technology vendors also stimulate innovation and the adoption of next-generation fuel system solutions.

"The conventional engine segment will account for the largest market share in the aircraft fuel systems market during the estimated year."

The traditional engine segment will likely hold the highest market share in the aircraft fuel systems market in the estimated year because traditional propulsion systems have widespread and established usage in commercial, military, and general aviation fleets worldwide. Traditional engines, such as turbofan, turboprop, turboshaft, and piston engines, remain prevalent in aircraft manufacturing and active fleet size due to their tested performance, dependability, and pervasive operational infrastructure. Although interest is growing in hybrid-electric and hydrogen fuel cell propulsion, these are presently developing or in early adoption phases with no deployment on a large scale.

"The fuel control & monitoring systems segment is estimated to register the fastest growth in the market."

The fuel control and monitoring systems segment is anticipated to register the highest growth during the forecast period. With increasingly advanced technology-based aircraft being introduced, intelligent systems that can control fuel flow, real-time fuel

use, and anomaly sensing before they become operational defects are more desired. These systems enable more efficient fuel use, a direct factor in reducing operating costs and carbon emissions. With fleet upgradation, aircraft deliveries, and retrofit programs increasing globally, these systems are seeing growing use.

"The aftermarket segment will account for the largest market share in the aircraft fuel systems market during the estimated year."

The aftermarket segment is likely to hold the highest market share in the aircraft fuel systems market in the forecast year because of the aging world fleet and ongoing need to maintain, repair, and replace fuel system components. Airlines, the military, and private operators continue to pour vast amounts of money into keeping old planes aloft and refurbished, keeping the aircraft in service longer and in compliance with regulations. Fuel systems are critical to flight efficiency and safety, and equipment such as pumps, valves, sensors, and fuel monitoring devices must be checked and replaced periodically. With the average age of aircraft fleets increasing, particularly in developing economies, demand for aftermarket activity such as maintenance, upgrade, and retrofitting is increasing. Moreover, new fuel efficiency requirements and the emergence of sustainable aviation fuels are compelling operators to overhaul or redesign fuel system components.

"The Asia Pacific is estimated to be the fastest-growing region in the aircraft fuel systems market."

The Asia Pacific is forecasted to register the highest growth in the aircraft fuel systems market owing to the fast economic expansion, increased air travel traffic, and major investment in commercial and defense aviation infrastructure across countries such as China, India, Japan, and South Korea. The increasing middle class and greater demand for domestic and international air travel have resulted in an air traffic boom, driving massive orders for new planes and advanced fuel system technologies. Moreover, governments are investing in upgrading their defense fleets.

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

- By Company Type: Tier 1-49%; Tier 2-37%; and Tier 3-14%
- By Designation: C Level-55%; Directors-27%; and Others-18%
- By Region: North America-32%; Europe-32%; Asia Pacific-16%; Middle East & Africa-10%; Latin America-10%

Eaton Corporation (Ireland), Parker Hannifin Corporation (US), Woodward Inc. (US), Honeywell International Inc. (US), and Triumph Group (US) are some of the leading players operating in the aircraft fuel systems market.

Research Coverage

The study covers the aircraft fuel systems market across various segments and subsegments. It aims to estimate the size and growth potential of this market across different segments based on system, technology, engine type, aircraft 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 solutions and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

Key benefits of buying this report: This report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall aircraft fuel systems market and its subsegments. The report covers the entire ecosystem of the aircraft fuel systems market. It will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following points:

- Analysis of key drivers and factors, such as technological advancements in hybrid propulsion technologies, increasing adoption of sustainable aviation fuel, growing development of next-generation military, and technological advancements in fuel management systems.
- Product Development: In-depth product innovation/development analysis by companies across various regions.
- Market Development: Comprehensive information about lucrative markets-the report analyses the aircraft fuel systems market across various regions.
- Market Diversification: Exhaustive information about new solutions, untapped geographies, recent developments, and investments in the aircraft fuel systems market.

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players in the aircraft fuel systems market, such as Parker Hannifin Corporation (US), RTX (US), Eaton Corporation (Ireland), Safran (France), and Woodward Inc. (US).

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