

Aircraft Engine Test Cells Market by Engine Test (Turbofan, Turbojet, Turboshift, Piston Engine and Apu), End User (Oems, Mros, Airlines and Operators), End-Use Industry, Point of Sale, Solution Type & Region - Global Forecast to 2028

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Abstracts

The global aircraft engine test cells market size is projected to grow from USD 3.3 billion in 2023 to USD 4.1 billion by 2028, at a CAGR of 4.2% from 2023 to 2028.

Furthermore, Growing Upgradation and Maintenance of Jet Engine Test Cells, and Increasing Demand for Commercial Aircraft and Associated MRO Services. However, Technological Complexities in Designing and Manufacturing of Aircraft Engine Test Cells pose a challenge for aircraft engine test cells market growth.

Safran (France), MDS Aero Support Corporation (US), Calspan Corporation (US), Atec, Inc. (US), and CEL (Canada) are some of the leading players operating in the Aircraft engine test cells market.

“The turbofan segment to account for largest market share in the aircraft engine test cells market during the forecast period.”

Based on engine test, the aircraft engine test cells market has been classified into Turbofan, Turbojet, Turboshift, Piston Engine, and APU (Auxiliary Power Unit). The turbofan segment is projected to lead the aircraft engine test cells market during the forecast period as these engines are much more capable of flying at a higher altitude when compared to other engines. These engines also have a less amount of noise as compared to other types of engines making them an ideal choice for both commercial and military end-use-industry.

“The OEM segment to account for largest market share in the aircraft engine test cells market during the forecast period.”

Based on end-user, the aircraft engine test cells market has been segmented into OEMs, MROs, and airlines and operators. The OEMs segment will contribute to the highest market share in 2023 due to huge investments in modernizing engine test facilities. These investments drive increased demand for advanced testing equipment, fostering technological advancements, and enhancing the global reach of players in the market.

“The commercial end-use industry will dominate the aircraft engine test cells market during the forecast period.”

Based on end-use industry, the aircraft engine test cells market has been segmented into commercial, and military. The commercial end-use industry will dominate the market during the forecast period as commercial industry has a considerably larger fleet compared to military aviation. Airlines and MRO Maintenance, Repair, and Overhaul (MRO) service providers are also collaborating with each other for aircraft engine maintenance.

“The retrofit & upgrades segment is projected to grow at the highest CAGR in the aircraft engine test cells market during the forecast period.”

Based on point of sale, the aircraft engine test cells market has been segmented into new installations, retrofit & upgrades, and maintenance & services. The retrofit & upgrades segment is projected to grow at the highest CAGR in the aircraft engine test cells market as these initiatives offer a cost-effective and efficient solution to extend the lifespan and enhance the performance of existing test cells.

“The test cells segment to account for largest market share in the aircraft engine test cells market during the forecast period.”

Based on solution type, the aircraft engine test cells market has been segmented into test cells, component test benches, data acquisition & control systems, software, and ancillary systems. The test cells segment is projected to lead the aircraft engine test cells market during the forecast period due to continuous research in test cells. Researchers are working on new test cell design for advancement in aviation technology and improving various aspects of aircraft engines.

“The Asia Pacific market is projected to grow at highest CAGR during the forecast period.”

Asia Pacific is expected to register the highest CAGR during the forecast period. The market for aircraft engine test cell solutions in the Asia-Pacific region is dynamic and experiencing rapid expansion, fueled by the region's expanding aviation sector. This growth is propelled by various factors such as the escalating volume of air travel, the proliferation of budget airlines, and substantial governmental investments in aviation infrastructure throughout the region. The ambition of self-reliance aircraft engine production has led to significant investments in aircraft engine testing and R&D facilities.

Breakdown of primaries

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 1–35%; Tier 2–45%; and Tier 3–20%

By Designation: C Level–35%; Directors–25%; and Others–40%

By Region: North America–45%; Europe–15%; Asia Pacific–25%; and RoW–15%

Safran (France), MDS Aero Support Corporation (US), Calspan Corporation (US), Atec, Inc. (US), CEL (Canada), General Electric (US), RTX Corporation (US), Rolls-Royce plc (UK), and Honeywell International Inc. (US) are some of the leading players operating in the aircraft engine test cells market .

Research Coverage

The study covers the aircraft engine test cells market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on Engine Test, End User, End-Use Industry, Point of Sale, Solution 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 in this market with information on the closest approximations of the revenue numbers for the overall aircraft engine test cells market and its subsegments. The report covers the entire ecosystem of the aircraft engine test cells 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 pointers:

Analysis of key drivers and several factors, such as growing investments to establish new aircraft engine test facilities, increasing Demand for Commercial Aircrafts and there MRO Services, others that could contribute to an increase in aircraft engine test cells market .

Market Development: Comprehensive information about lucrative markets – the report analyses the aircraft engine test cells market across varied regions

Market Diversification: Exhaustive information about new solutions, untapped geographies, recent developments, and investments in aircraft engine test cells market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Safran (France), MDS Aero Support Corporation (US), Calspan Corporation (US), Atec, Inc. (US), and CEL (Canada) among others in the aircraft engine test cells market .

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