

Comprehensive Report on the Aircraft Engine Blade Market: Opportunities and Challenges

*The Business Research Company's
Aircraft Engine Blade Global Market
Report 2025 – Market Size, Trends, And
Global Forecast 2025-2034*

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Aircraft Engine Blade Global Market Report 2025

What Is The Expected CAGR For The [Aircraft Engine Blade Market](#) Through 2025?

In recent times, the aircraft engine blade market has seen significant growth. It's projected to expand from \$16.34 billion in 2024 to \$17.52 billion in 2025, exhibiting a compound annual growth rate (CAGR) of 7.2%. Factors such as the expansion of the aerospace industry, heightened demand for air travel, the needs of military aviation, advances in materials science research, the drive for fuel efficiency, and the increase of low-cost carriers can explain the growth seen in the historical period.

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The market size for aircraft engine blades is projected to experience significant expansion in the forthcoming years,

expecting to reach a valuation of \$23.3 billion by 2029, with a compound annual growth rate (CAGR) of 7.4%. This projected growth during the prediction period can be attributed to a combination of factors such as strict aviation safety protocols, the electrification trend in aviation, the integration of additive manufacturing, expansion in regional aviation markets, and upgrading of antiquated aircraft fleets. Key emerging trends anticipated for the forecast period comprise strategic collaborations in the aerospace sector, data-oriented engine maintenance, advances in blade coating technologies, the use of lightweight structures, the implementation of 3D printing technology, and the utilization of sensor technologies.

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What Are The Driving Factors Impacting The Aircraft Engine Blade Market?

The rising adoption of economic and fuel-saving planes is anticipated to drive the expansion of the aircraft engine blade market. Such planes are constructed to not only curb operational expenses but also boost environmental sustainability. They are fitted with sophisticated technologies to improve fuel economy, minimize emissions, and decrease maintenance costs. The utilization of aircraft engine blades in a range of such planes enhances their lifespan. For example, according to the Commercial Market Outlook (CMO) 2022 published by the Boeing Company, a US aircraft industry firm, the need for fuel-efficient airplanes is projected to escalate to 41,000 units by 2041. Consequently, the uptrend in adopting economical and fuel-saving aircraft fuels the growth of the aircraft engine blade market.

Which Players Dominate The Aircraft Engine Blade Industry Landscape?

Major players in the Aircraft Engine Blade Global Market Report 2025 include:

- CFM International
- General Electric Company
- Rolls-Royce Holdings plc
- MTU Aero Engines AG
- Albany International Corporation
- Doncasters Group Limited
- Safran S.A.
- Farinia S.A.
- RTX Corporation
- AeroEdge Co. Ltd.

What Are The Future Trends Of The Aircraft Engine Blade Market?

Innovations in composite materials have emerged as a prominent trend in the aircraft engine blade market. Leading firms in this segment are concentrating on such innovations in their production processes to solidify their market presence. For example, Rostec, a Russian industrial conglomerate, launched unique production techniques for aircraft engine blades in April 2022. The firm used high-precision machinery and specific materials like titanium alloy to produce high-performance blades. This trend is fueled by the increasing demand for aircraft that are more fuel-efficient and environmentally-friendly, which can help lower fuel usage and emissions.

Global [Aircraft Engine Blade Market Segmentation](#) By Type, Application, And Region

The aircraft engine blade market covered in this report is segmented –

- 1) By Blade Type: Compressor Blades, Turbine Blades, Fan Blades
- 2) By Blade Size: 0-20, 21-40, 41-60
- 3) By Material: Titanium, Nickel Alloy, Composites, Other Materials
- 4) By Aircraft Type: Commercial Aircraft, General Aviation, Regional Aircraft, Military Aircraft
- 5) By End User: Original Equipment Manufacturer (OEM), Aftermarket

Subsegments:

- 1) By Compressor Blades: Low-Pressure Compressor Blades, High-Pressure Compressor Blades
- 2) By Turbine Blades: High-Pressure Turbine Blades, Low-Pressure Turbine Blades
- 3) By Fan Blades: Front Fan Blades, Rear Fan Blades

View the full aircraft engine blade market report:

<https://www.thebusinessresearchcompany.com/report/aircraft-engine-blade-global-market-report>

Which Region Holds The Largest Market Share In The Aircraft Engine Blade Market?

In 2024, North America dominated the aircraft engine blade market as the largest region. However, the highest projected growth for this market during the forecast period is anticipated to be in the Asia-Pacific region. The global report for the aircraft engine blade market for 2025 covers the following regions: Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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