

Global Aircraft Engine Compressor Blades Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aircraft Engine Compressor Blades market size is expected to reach \$ 24266 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

Aircraft Engine Compressor Blades are precision aerodynamic components installed in the compressor section of an aircraft engine, designed to progressively increase the pressure of incoming air before it enters the combustion chamber. Arranged in multiple rotating and stationary stages, these blades accelerate, compress, and direct airflow to achieve the required pressure ratio and efficiency for combustion. They operate under high rotational speeds, mechanical stress, and moderate temperatures compared to turbine blades, and are typically manufactured from high-strength materials such as titanium alloys or advanced steels to balance strength, weight, and fatigue resistance. Their aerodynamic profile, structural integrity, and manufacturing precision are critical to overall engine performance, fuel efficiency, and stability, making them essential components in modern aerospace propulsion systems. Aircraft engine blades are high-value precision components with a strongly tiered pricing structure, typically averaging around US\$6,000-10,000 per piece, with advanced high-pressure turbine blades reaching significantly higher levels while lower-stage blades remain at comparatively moderate prices.

The upstream of the Aircraft engine blade industry is centered on advanced material and process supply, including nickel- and cobalt-based superalloys, ceramic thermal barrier coatings, precision casting materials, and specialized equipment for vacuum casting, single-crystal growth, machining, and coating, supported by technology development in metallurgy and cooling design. The downstream is highly concentrated within the aerospace propulsion value chain, where blades are supplied to aircraft

engine OEMs and module integrators for commercial and military engines, and subsequently to maintenance, repair, and overhaul providers that repair or replace blades throughout the engine lifecycle. Demand is therefore closely tied not only to new aircraft production but more critically to the installed fleet size, flight cycles, and long-term service requirements of the global aviation industry.

From a market perspective, the aircraft engine blade industry represents a high-technology, lifecycle-driven segment within the broader aircraft engine ecosystem, characterized by strong barriers to entry, stringent certification requirements, and deep integration with engine OEM platforms. Demand is supported not only by new aircraft production but more critically by a large installed base that drives continuous maintenance, repair, and replacement cycles, giving the market a relatively resilient and recurring revenue structure. Technological advancement remains a central competitive factor, with ongoing innovation in single-crystal superalloys, thermal barrier coatings, and advanced cooling architectures enabling higher engine efficiency and operating temperatures. At the same time, the supply chain is highly concentrated among a limited number of qualified manufacturers and material providers, reinforcing pricing power in critical segments. Overall, the market exhibits a balance between cyclical exposure to aerospace production trends and structural stability derived from aftermarket demand, positioning it as a strategically important and defensible niche within the global aerospace industry.

This report studies the global Aircraft Engine Compressor Blades production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aircraft Engine Compressor Blades and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Aircraft Engine Compressor Blades that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aircraft Engine Compressor Blades total production and demand, 2021-2032, (K Units)

Global Aircraft Engine Compressor Blades total production value, 2021-2032, (USD Million)

Global Aircraft Engine Compressor Blades production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Aircraft Engine Compressor Blades consumption by region & country, CAGR,

2021-2032 & (K Units)

U.S. VS China: Aircraft Engine Compressor Blades domestic production, consumption, key domestic manufacturers and share

Global Aircraft Engine Compressor Blades production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Aircraft Engine Compressor Blades production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Aircraft Engine Compressor Blades production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Aircraft Engine Compressor Blades market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include GE Aerospace, Rolls-Royce, Pratt & Whitney, Safran Aircraft Engines, Precision Castparts Corp. (PCC), CFAN, GKN Aerospace, Leistriz AG, AECC Power, AECC Precision Casting, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Aircraft Engine Compressor Blades market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Aircraft Engine Compressor Blades Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aircraft Engine Compressor Blades Market, Segmentation by Type:

High-pressure Compressor Blades

Low-pressure Compressor Blades

Global Aircraft Engine Compressor Blades Market, Segmentation by Manufacturing Process:

Precision Casting Blade

Precision Forging Blade

Composite Blade

Global Aircraft Engine Compressor Blades Market, Segmentation by Material:

Nickel-based Superalloy Blades

Cobalt-based Alloy Blades

Ceramic Matrix Composite Blades

Titanium Alloy Blades

Global Aircraft Engine Compressor Blades Market, Segmentation by Application:

Civil Aircraft

Military Aircraft

Companies Profiled:

GE Aerospace

Rolls-Royce

Pratt & Whitney

Safran Aircraft Engines

Precision Castparts Corp. (PCC)

CFAN

GKN Aerospace

Leistritz AG

AECC Power

AECC Precision Casting

Yingliu

Wedge Industrial

Ligeance Aerospace Technology

Suvast Special Alloy Technology

Wuxi Turbine Blade

Wuxi Hyatech

Key Questions Answered:

1. How big is the global Aircraft Engine Compressor Blades market?
2. What is the demand of the global Aircraft Engine Compressor Blades market?
3. What is the year over year growth of the global Aircraft Engine Compressor Blades market?
4. What is the production and production value of the global Aircraft Engine Compressor Blades market?
5. Who are the key producers in the global Aircraft Engine Compressor Blades market?
6. What are the growth factors driving the market demand?

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