

Global Turbine Blades for Aero-engine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Turbine Blades for Aero-engine market size is expected to reach \$ 16683 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

Turbine Blades for aero-engines are high-precision components located in the turbine section of an aircraft engine, designed to extract energy from high-temperature, high-pressure combustion gases and convert it into mechanical work to drive the compressor and fan systems. Operating under extreme conditions of temperature, stress, and rotational speed, these blades are typically made from advanced nickel-based superalloys, often in single-crystal form, and incorporate complex internal cooling structures and protective coatings to maintain durability and performance. Their aerodynamic design, thermal resistance, and structural integrity are critical to engine efficiency, fuel consumption, and overall reliability, making them among the most technologically demanding components in aerospace propulsion systems. Turbine Blades for aero-engines 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 Turbine Blade for aero-engine 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 Aviation 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 Turbine Blade for aero-engine industry represents a high-technology, lifecycle-driven segment within the broader Aviation 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 Turbine Blades for Aero-engine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Turbine Blades for Aero-engine 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 Turbine Blades for Aero-engine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Turbine Blades for Aero-engine total production and demand, 2021-2032, (K Units)

Global Turbine Blades for Aero-engine total production value, 2021-2032, (USD Million)

Global Turbine Blades for Aero-engine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Turbine Blades for Aero-engine consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Turbine Blades for Aero-engine domestic production, consumption, key

domestic manufacturers and share

Global Turbine Blades for Aero-engine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Turbine Blades for Aero-engine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Turbine Blades for Aero-engine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Turbine Blades for Aero-engine 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, 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 Turbine Blades for Aero-engine 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 Turbine Blades for Aero-engine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Turbine Blades for Aero-engine Market, Segmentation by Type:

Rotor Blades

Stator Blades

Global Turbine Blades for Aero-engine Market, Segmentation by Blade Length:

Short Blades (250 mm)

Global Turbine Blades for Aero-engine Market, Segmentation by Material:

Nickel-based Superalloy Blades

Cobalt-based Alloy Blades

Ceramic Matrix Composite Blades

Titanium Alloy Blades

Global Turbine Blades for Aero-engine Market, Segmentation by Application:

Military Aircraft

Civil Aircraft

Companies Profiled:

GE Aerospace

Rolls-Royce

Pratt & Whitney

Safran Aircraft Engines

Precision Castparts Corp

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

Sumitomo Heavy Industries

Key Questions Answered:

1. How big is the global Turbine Blades for Aero-engine market?

2. What is the demand of the global Turbine Blades for Aero-engine market?
3. What is the year over year growth of the global Turbine Blades for Aero-engine market?
4. What is the production and production value of the global Turbine Blades for Aero-engine market?
5. Who are the key producers in the global Turbine Blades for Aero-engine market?
6. What are the growth factors driving the market demand?

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