

## Report Information

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# Commercial Aircraft Turbine Blades and Vanes Market Research Report - Global Forecast till 2027

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### Description:

#### Market Scenario

Blades and vanes in aircraft turbine engines are extract energy from the high temperature and high-pressure gas generated in the combustion chamber. The blades and vanes are designed and manufactured to withstand high pressure and temperature for long durations. In order to withstand harsh climatic conditions turbine blades, use various methods of cooling such as internal air channels, thermal barrier coatings, and boundary layer cooling. However, blade fatigue is a major source of failure in turbines. Fatigue is caused by the stress-induced by vibration and resonance within the operating range of machines.

Increasing in number of aircraft manufactured and the rising demand for fuel-efficient engines are expected to drive the market growth. However, the current backlog in aircraft deliveries and issues associated with material costs and blade fatigue might hamper the growth of the market.

Hence, the **Global Commercial Aircraft Turbine Blades and Vanes Market** is projected to reach **USD 1,610.24 million by 2025**, growing at **5.91% CAGR** during the forecast period.

#### Segmentation of the Global Commercial Aircraft Turbine Blades and Vanes Market

By engine type, the commercial aircraft turbine blades and vanes market comprises fixed-wing and rotary-wing. The fixed-wing segment is sub-divided into turbojet, turbofan, and turboprop. The fixed-wing segment dominated the market in 2018 and is expected to grow at a higher CAGR during the forecast period from **2019 to 2025**. Increasing aircraft being manufactured and the demand for new aircraft from countries such as China and India is expected to drive the segment growth.

Based on blade type, the global market has been segregated into equiaxed blade, directionally solidified blade, and single-crystal blade. The directionally solidified blade segment dominated the market in **2018** and is expected to register the highest CAGR during the forecast period. Directionally solidified blades offer numerous benefits such as high tolerance against strain, enhanced ductility, and thermal fatigue life. Hence, the segment is expected to grow at the highest CAGR during the forecast period.

Based on material, the global market has been divided into steel & nickel alloys, titanium alloys, and others. The steel & nickel alloys segment dominated the segment is **2018** and is expected to grow at the highest CAGR during the forecast period. Aircraft turbine blades and vanes manufactured using steel & nickel alloys have high strength and high melting point. Therefore, the segment is expected to grow at the highest CAGR during the forecast period.

Based on the region, the market has been categorized as North America, Europe, Asia-Pacific, Middle East & Africa, and Latin America. North America led the market in 2018 with a market share of **38.36%**. However, the market in Asia-Pacific is expected to grow at the highest CAGR during the forecast period. Increasing air passenger traffic in countries such as China and India is expected to drive the market growth in the region.

#### Key Players

The key players in the global commercial aircraft turbine blades and vanes market are **Arconic (US), Collins Aerospace (US), Doncasters Group Ltd (UK), DongYing Hengxin turbomachinery Co.,Ltd (China), FLC Flowcastings GMBH (Germany), PBS Group, a. s. (Prague), Precision Castparts Corp (US), Rolls-Royce (UK), Safran (France), AMETEK.Inc. (US), Turbine Casting SAS (France), GE Aviation (US), Turbocam International (US), Chromalloy (US), and The Robert E. Morris Company (US).**

#### Research Methodology

The market values and forecasts are derived using MRFR research methodology, which includes secondary research, primary interviews, data triangulation, and validation from an in-house data repository and statistical modeling tools.

- **Secondary Research**

In this process, data is collected from various secondary sources, including annual reports, SEC filings, journals, government associations, aerospace & defense magazines, white papers, corporate presentations, company websites, and paid databases.

- **Primary Research**

In this process, both the demand- and supply-side parties are interviewed to extract facts and insights into the market forecast, production, trends, and projected market growth. Industry stakeholders such as CEOs, VPs, directors, and marketing executives across the value chain are approached to obtain key information.

### Key Insights

- Market sizing, forecast, and analysis: detailed coverage of the market segment and sub-segments
- Regional/country trends and forecast: detailed analysis of the market in North America, Asia-Pacific, Europe, the Middle East & Africa, and Latin America, along with key countries in each region
- Market dynamics intelligence: market drivers, opportunities, trends, restraints, Porter's five forces, supply chain, and value chain analysis
- Technology trends, regulatory landscape, and patent analysis outlook
- Competitive intelligence: market share analysis, financial analysis, product benchmarking, and strategic developments including joint ventures, product launches, and mergers & acquisitions
- Regional attractiveness and related growth opportunities

### Report Customization

MRFR offers report customization to valued customers. Below are the options available for customization:

- **Company Profiles**

In-depth profiling of additional market players (3 to 4 companies)

- **Country-Level Analysis**

Detailed analysis of a country-level market and related segments as per the report scope (subject to data availability)

### Intended Audience

- Commercial aircraft turbine blades and vanes manufacturers
- Component providers
- Metal companies
- Airline companies
- Government organizations

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FIGURE 21 Asia-Pacific: Commercial Aircraft Turbine Blades And Vanes Market, By Country, 2020-2027 (USD Million)
FIGURE 22 Middle East & Africa: Commercial Aircraft Turbine Blades And Vanes Market Share (%), 2020
FIGURE 23 Middle East & Africa: Commercial Aircraft Turbine Blades And Vanes Market, By Country, 2020-2027 (USD Million)

FIGURE 24 Latin America: Commercial Aircraft Turbine Blades And Vanes Market Share (%), 2020

FIGURE 25 Latin America: Commercial Aircraft Turbine Blades And Vanes Market, By Country, 2020-2027 (USD Million)

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