

Aircraft Engine Blade Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Aircraft Type (Commercial Aircraft, General Aviation, Regional Aircraft, Military Aircraft), By Blade Type (Compressor Blades, Turbine Blades, Fan Blades), By Material (Titanium, Nickel Alloy, Composites, others), By End Use (OEM, Aftermarket), By Region, Competition

https://marketpublishers.com/r/A5B6D8E0B2E8EN.html

Date: May 2023 Pages: 112 Price: US\$ 4,900.00 (Single User License) ID: A5B6D8E0B2E8EN

# **Abstracts**

Global Aircraft Engine blades Market consists of vanes and valves which are used in Air crafts. These vanes and valves can provide a smooth gas flow by directing and compressing the air inside the engine. A turbine blade produces a tangential force that rotates a turbine rotor, an aerodynamic blade positioned in the rim of a turbine disc which consists of many blades. These blades are also used in steam turbines and gas turbine engines. The combustor produces high temperatures with high-pressure gas, and this energy is utilized by the blades. Blades are usually the limiting factors in an engine.

The demand for engines and other aviation-related components has grown significantly. As a result of this expansion, engine manufacturers are now required to produce a larger number of engines annually. Due to the increased demand caused by this reason, the market for engine blades is expanding much faster. Due to this rise in demand, businesses are adopting technologies that can reduce the overall weight and emissions of the engines to get potential customers and increase their market share. This is driving investments towards research and development in this sector. The new aircraft engines that feature considerable technological innovations are expected to



make a major part of new deliveries in developing regions. The entry of new aircraft programs is propelling the development of newer aircraft engine models that are developed specifically for the new aircraft. The component and part manufacturers are expanding their production facilities, along with adopting the latest technologies, primarily to boost their production capacities.

The COVID-19 epidemic and containment efforts are resulting in a sharp decline in the demand for passenger air travel, endangering the survival of numerous businesses in the air transport sector and the rest of the aviation industry. The Covid pandemic has had a significant impact on international aircraft suppliers. As a result, restrictions have prevented the industry's recent continuous expansion. The significant increase in spending on the military sector may aid the industry's recovery, which helps recover the aircraft engine blade market.

Increasing Sales of new Aircraft and periodic replacement

On average more than 1,800 commercial aircraft were delivered to several airline operators worldwide, out of which around 40% were reportedly delivered in the Asia-Pacific region. There have been more orders placed by Qantas Airways Ltd, Air Asia, etc. Many companies are investing in new designs of blades to increase their efficiency and provide more power. Moreover, this results in the growing demand for the aircraft engine blade market. In addition, with periodic replacement of engine blades propels the market in the forecasted period.

# Innovation in Material Technology

The machine is the major complex part of the aircraft and consists of numerous individual factors of varying complexity. Even the simplest element design and material changes have been proven to lead to significant advancements in overall engine performance. The engines reaching 2100°C (3800°F) temperature has increased the demand for the new material system. As a result, high-temperature superalloys (HRSA), including some non-metallic mixes similar to titanium blends, nickel blends, and pottery, have been considered in engine blade manufacturing. In addition, increasing demand for lightweight, high-temperature resistant parts for engines and critical factors that contribute to energy effectiveness. These developments are anticipated to propel the growth of the aircraft engine blade market in the coming year.

Complex Designs Restrict the Manufacturing



Over the course of that time, a lot of progress was made in the industry of aircraft engines. However, these advancements have brought the technology closer to its limit in terms of reliability. Under the competition, engine manufacturers are compelled to produce lighter engines with improved performance as airlines and aircraft OEMs increase their demands for thrust and efficiency. To reduce carbon emissions, engine manufacturers are developing more effective propulsion systems. Although, numerous glitches have forced many airlines to ground aircraft.

#### Market Segmentation

The global Aircraft Engine Blade Market is segmented by aircraft type, blade type, material, end-use, and by region. Based on aircraft type, the market is segmented into Commercial Aircraft, General Aviation, Regional Aircraft, and Military Aircraft. Based on Blade Type, it is divided into Compressor Blades, Turbine Blades, and Fan Blades. Based on Material, the market is segmented into Titanium, Nickel Alloy, Composites, and others. The end Use of Aircraft engine blade market is divided into OEM and Aftermarket. The market analysis also studies the regional segmentation to devise regional market divided amongst Asia-Pacific, Europe, North America, South America, Middle East & Africa.

#### **Company Profiles**

General Electric Company, CFM International, United Technologies Corporation, Rolls-Royce Holdings PLC, MTU Aero Engine, Albany International Corporation, Collins Aerospace, Arconic Inc., Pratt & Whitney, and GKN Aerospace are the key players developing advanced technologies to stay competitive in the market enhancing their product portfolio in the regions to increase their customer outreach.

# Report Scope:

In this report, global Aircraft Engine Blade Market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Global Aircraft Engine Blade Market, By Aircraft Type:

**Commercial Aircraft** 

**General Aviation** 



#### **Regional Aircraft**

Military Aircraft

Global Aircraft Engine Blade Market, By Blade Type:

**Compressor Blades** 

**Turbine Blades** 

Fan Blades

Global Aircraft Engine Blade Market, By Material:

Titanium

Nickel Alloy

composites

Others

Global Aircraft Engine Blade Market, By End Use:

OEM

Aftermarket

Global Aircraft Engine Blade Market, By Region:

Asia-Pacific

China

India

Japan



South Korea

Malaysia

Indonesia

Thailand

#### North America

**United States** 

Canada

Mexico

Europe & CIS

Germany

Russia

France

Spain

Italy

United Kingdom

Poland

Netherland

Norway

Middle East and Africa

South Africa



Saudi Arabia

United Arab Emirates

South America

Argentina

Brazil

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in global Aircraft Engine Blade Market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).



# Contents

# 1. INTRODUCTION

- 1.1. Product Overview
- 1.2. Key Highlights of the Report
- 1.3. Market Coverage
- 1.4. Market Segments Covered
- 1.5. Research Tenure Considered

# 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

# **3. EXECUTIVE SUMMARY**

- 3.1. Market Overview
- 3.2. Market Forecast
- 3.3. Key Regions
- 3.4. Key Segments

# 4. IMPACT OF COVID-19 ON GLOBAL AIRCRAFT ENGINE BLADE MARKET

- 4.1.1. Key Segments Impacted
- 4.1.2. Key Regions Impacted
- 4.1.3. Key Countries Impacted

# 5. VOICE OF CUSTOMER ANALYSIS

- 5.1. Factors Influencing Purchase Decision
- 5.2. Brand Awareness
- 5.3. Challenges/Issues Faced Post Purchase



# 6. GLOBAL AIRCRAFT ENGINE BLADE MARKET OUTLOOK

- 6.1. Market Size & Forecast
- 6.1.1. By Volume & Value
- 6.2. Market Share & Forecast

6.2.1. By Aircraft Type Market Share Analysis (Commercial Aircraft, General Aviation, Regional Aircraft, Military Aircraft)

6.2.2. By Blade Type Market Share Analysis (Compressor Blades, Turbine Blades, Fan Blades)

- 6.2.3. By Material Market Share Analysis (Titanium, Nickel Alloy, Composites, Others)
- 6.2.4. By End Use Market Share Analysis (OEM Vs. Aftermarket)
- 6.2.5. By Regional Market Share Analysis
- 6.2.5.1. Asia-Pacific Market Share Analysis
- 6.2.5.2. Europe Market Share Analysis
- 6.2.5.3. North America Market Share Analysis
- 6.2.5.4. South America Market Share Analysis
- 6.2.5.5. Middle East & Africa Market Share Analysis
- 6.2.6. By Company Market Share Analysis (By Value, 2022)
- 6.3. Global Aircraft Engine Blade Market Mapping & Opportunity Assessment
  - 6.3.1. By Aircraft Type Market Mapping & Opportunity Assessment
  - 6.3.2. By Blade Type Mapping & Opportunity Assessment
  - 6.3.3. By Material Mapping & Opportunity Assessment
  - 6.3.4. By End Use Mapping & Opportunity Assessment
  - 6.3.5. By Regional Market Mapping & Opportunity Assessment

# 7. ASIA-PACIFIC AIRCRAFT ENGINE BLADE MARKET OUTLOOK

- 7.1. Market Size & Forecast
- 7.1.1. By Volume & Value
- 7.2. Market Share & Forecast
- 7.2.1. By Aircraft Type Market Share Analysis
- 7.2.2. By Blade Type Market Share Analysis
- 7.2.3. By Material Market Share Analysis
- 7.2.4. By End Use Market Share Analysis
- 7.2.5. By Country Market Share Analysis
- 7.3. Asia-Pacific: Country Analysis
  - 7.3.1. China Aircraft Engine Blade Market Outlook
    - 7.3.1.1. Market Size & Forecast
    - 7.3.1.1.1. By Volume & Value



7.3.1.2. Market Share & Forecast

- 7.3.1.2.1. By Aircraft Type Market Share Analysis
- 7.3.1.2.2. By Blade Type Market Share Analysis
- 7.3.1.2.3. By Material Market Share Analysis
- 7.3.1.2.4. By End Use Market Share Analysis
- 7.3.2. India Aircraft Engine Blade Market Outlook
- 7.3.2.1. Market Size & Forecast
- 7.3.2.1.1. By Volume & Value
- 7.3.2.2. Market Share & Forecast
- 7.3.2.2.1. By Aircraft Type Market Share Analysis
- 7.3.2.2.2. By Blade Type Market Share Analysis
- 7.3.2.2.3. By Material Market Share Analysis
- 7.3.2.2.4. By End Use Market Share Analysis
- 7.3.3. Japan Aircraft Engine Blade Market Outlook
- 7.3.3.1. Market Size & Forecast
  - 7.3.3.1.1. By Volume & Value
- 7.3.3.2. Market Share & Forecast
- 7.3.3.2.1. By Aircraft Type Market Share Analysis
- 7.3.3.2.2. By Blade Type Market Share Analysis
- 7.3.3.2.3. By Material Market Share Analysis
- 7.3.3.2.4. By End Use Market Share Analysis
- 7.3.4. Indonesia Aircraft Engine Blade Market Outlook
- 7.3.4.1. Market Size & Forecast
- 7.3.4.1.1. By Volume & Value
- 7.3.4.2. Market Share & Forecast
- 7.3.4.2.1. By Aircraft Type Market Share Analysis
- 7.3.4.2.2. By Blade Type Market Share Analysis
- 7.3.4.2.3. By Material Market Share Analysis
- 7.3.4.2.4. By End Use Market Share Analysis
- 7.3.5. Thailand Aircraft Engine Blade Market Outlook
- 7.3.5.1. Market Size & Forecast
- 7.3.5.1.1. By Volume & Value
- 7.3.5.2. Market Share & Forecast
- 7.3.5.2.1. By Aircraft Type Market Share Analysis
- 7.3.5.2.2. By Blade Type Market Share Analysis
- 7.3.5.2.3. By Material Market Share Analysis
- 7.3.5.2.4. By End Use Market Share Analysis
- 7.3.6. South Korea Aircraft Engine Blade Market Outlook
  - 7.3.6.1. Market Size & Forecast



7.3.6.1.1. By Volume & Value

- 7.3.6.2. Market Share & Forecast
- 7.3.6.2.1. By Aircraft Type Market Share Analysis
- 7.3.6.2.2. By Blade Type Market Share Analysis
- 7.3.6.2.3. By Material Market Share Analysis
- 7.3.6.2.4. By End Use Market Share Analysis
- 7.3.7. Malaysia Aircraft Engine Blade Market Outlook
- 7.3.7.1. Market Size & Forecast
- 7.3.7.1.1. By Volume & Value
- 7.3.7.2. Market Share & Forecast
- 7.3.7.2.1. By Aircraft Type Market Share Analysis
- 7.3.7.2.2. By Blade Type Market Share Analysis
- 7.3.7.2.3. By Material Market Share Analysis
- 7.3.7.2.4. By End Use Market Share Analysis

# 8. EUROPE AIRCRAFT ENGINE BLADE MARKET OUTLOOK

- 8.1. Market Size & Forecast
- 8.1.1. By Volume & Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Aircraft Type Market Share Analysis
  - 8.2.2. By Blade Type Market Share Analysis
  - 8.2.3. By Material Market Share Analysis
  - 8.2.4. By End Use Market Share Analysis
  - 8.2.5. By Country Market Share Analysis
- 8.3. Europe: Country Analysis
  - 8.3.1. Germany Aircraft Engine Blade Market Outlook
    - 8.3.1.1. Market Size & Forecast
    - 8.3.1.1.1. By Volume & Value
    - 8.3.1.2. Market Share & Forecast
    - 8.3.1.2.1. By Aircraft Type Market Share Analysis
    - 8.3.1.2.2. By Blade Type Market Share Analysis
    - 8.3.1.2.3. By Material Market Share Analysis
    - 8.3.1.2.4. By End Use Market Share Analysis
  - 8.3.2. Spain Aircraft Engine Blade Market Outlook
    - 8.3.2.1. Market Size & Forecast
    - 8.3.2.1.1. By Volume & Value
  - 8.3.2.2. Market Share & Forecast
  - 8.3.2.2.1. By Aircraft Type Market Share Analysis



- 8.3.2.2.2. By Blade Type Market Share Analysis
- 8.3.2.2.3. By Material Market Share Analysis
- 8.3.2.2.4. By End Use Market Share Analysis
- 8.3.3. France Aircraft Engine Blade Market Outlook
- 8.3.3.1. Market Size & Forecast
- 8.3.3.1.1. By Volume & Value
- 8.3.3.2. Market Share & Forecast
- 8.3.3.2.1. By Aircraft Type Market Share Analysis
- 8.3.3.2.2. By Blade Type Market Share Analysis
- 8.3.3.2.3. By Material Market Share Analysis
- 8.3.3.2.4. By End Use Market Share Analysis
- 8.3.4. Russia Aircraft Engine Blade Market Outlook
- 8.3.4.1. Market Size & Forecast
- 8.3.4.1.1. By Volume & Value
- 8.3.4.2. Market Share & Forecast
  - 8.3.4.2.1. By Aircraft Type Market Share Analysis
- 8.3.4.2.2. By Blade Type Market Share Analysis
- 8.3.4.2.3. By Material Market Share Analysis
- 8.3.4.2.4. By End Use Market Share Analysis
- 8.3.5. Italy Aircraft Engine Blade Market Outlook
- 8.3.5.1. Market Size & Forecast
- 8.3.5.1.1. By Volume & Value
- 8.3.5.2. Market Share & Forecast
- 8.3.5.2.1. By Aircraft Type Market Share Analysis
- 8.3.5.2.2. By Blade Type Market Share Analysis
- 8.3.5.2.3. By Material Market Share Analysis
- 8.3.5.2.4. By End Use Market Share Analysis
- 8.3.6. United Kingdom Aircraft Engine Blade Market Outlook
- 8.3.6.1. Market Size & Forecast
- 8.3.6.1.1. By Volume & Value
- 8.3.6.2. Market Share & Forecast
- 8.3.6.2.1. By Aircraft Type Market Share Analysis
- 8.3.6.2.2. By Blade Type Market Share Analysis
- 8.3.6.2.3. By Material Market Share Analysis
- 8.3.6.2.4. By End Use Market Share Analysis
- 8.3.7. Poland Aircraft Engine Blade Market Outlook
  - 8.3.7.1. Market Size & Forecast
  - 8.3.7.1.1. By Volume & Value
  - 8.3.7.2. Market Share & Forecast



- 8.3.7.2.1. By Aircraft Type Market Share Analysis
- 8.3.7.2.2. By Blade Type Market Share Analysis
- 8.3.7.2.3. By Material Market Share Analysis
- 8.3.7.2.4. By End Use Market Share Analysis
- 8.3.8. Netherlands Aircraft Engine Blade Market Outlook
- 8.3.8.1. Market Size & Forecast
- 8.3.8.1.1. By Volume & Value
- 8.3.8.2. Market Share & Forecast
- 8.3.8.2.1. By Aircraft Type Market Share Analysis
- 8.3.8.2.2. By Blade Type Market Share Analysis
- 8.3.8.2.3. By Material Market Share Analysis
- 8.3.8.2.4. By End Use Market Share Analysis
- 8.3.9. Norway Aircraft Engine Blade Market Outlook
- 8.3.9.1. Market Size & Forecast
  - 8.3.9.1.1. By Volume & Value
- 8.3.9.2. Market Share & Forecast
- 8.3.9.2.1. By Aircraft Type Market Share Analysis
- 8.3.9.2.2. By Blade Type Market Share Analysis
- 8.3.9.2.3. By Material Market Share Analysis
- 8.3.9.2.4. By End Use Market Share Analysis

# 9. NORTH AMERICA AIRCRAFT ENGINE BLADE MARKET OUTLOOK

- 9.1. Market Size & Forecast
- 9.1.1. By Volume & Value
- 9.2. Market Share & Forecast
- 9.2.1. By Aircraft Type Market Share Analysis
- 9.2.2. By Blade Type Market Share Analysis
- 9.2.3. By Material Market Share Analysis
- 9.2.4. By End Use Market Share Analysis
- 9.2.5. By Country Market Share Analysis
- 9.3. North America: Country Analysis
  - 9.3.1. United States Aircraft Engine Blade Market Outlook
    - 9.3.1.1. Market Size & Forecast
    - 9.3.1.1.1. By Volume & Value
    - 9.3.1.2. Market Share & Forecast
    - 9.3.1.2.1. By Aircraft Type Market Share Analysis
    - 9.3.1.2.2. By Blade Type Market Share Analysis
    - 9.3.1.2.3. By Material Market Share Analysis



- 9.3.1.2.4. By End Use Market Share Analysis
- 9.3.2. Mexico Aircraft Engine Blade Market Outlook
  - 9.3.2.1. Market Size & Forecast
  - 9.3.2.1.1. By Volume & Value
  - 9.3.2.2. Market Share & Forecast
  - 9.3.2.2.1. By Aircraft Type Market Share Analysis
  - 9.3.2.2.2. By Blade Type Market Share Analysis
  - 9.3.2.2.3. By Material Market Share Analysis
  - 9.3.2.2.4. By End Use Market Share Analysis
- 9.3.3. Canada Aircraft Engine Blade Market Outlook
  - 9.3.3.1. Market Size & Forecast
  - 9.3.3.1.1. By Volume & Value
  - 9.3.3.2. Market Share & Forecast
  - 9.3.3.2.1. By Aircraft Type Market Share Analysis
  - 9.3.3.2.2. By Blade Type Market Share Analysis
  - 9.3.3.2.3. By Material Market Share Analysis
  - 9.3.3.2.4. By End Use Market Share Analysis

#### **10. SOUTH AMERICA AIRCRAFT ENGINE BLADE MARKET OUTLOOK**

- 10.1. Market Size & Forecast
- 10.1.1. By Volume & Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Aircraft Type Market Share Analysis
  - 10.2.2. By Blade Type Market Share Analysis
  - 10.2.3. By Material Market Share Analysis
  - 10.2.4. By End Use Market Share Analysis
- 10.2.5. By Country Market Share Analysis
- 10.3. South America: Country Analysis
  - 10.3.1. Brazil Aircraft Engine Blade Market Outlook
  - 10.3.1.1. Market Size & Forecast
  - 10.3.1.1.1. By Volume & Value
  - 10.3.1.2. Market Share & Forecast
  - 10.3.1.2.1. By Aircraft Type Market Share Analysis
  - 10.3.1.2.2. By Blade Type Market Share Analysis
  - 10.3.1.2.3. By Material Market Share Analysis
  - 10.3.1.2.4. By End Use Market Share Analysis
  - 10.3.2. Colombia Aircraft Engine Blade Market Outlook
    - 10.3.2.1. Market Size & Forecast



10.3.2.1.1. By Volume & Value

10.3.2.2. Market Share & Forecast

- 10.3.2.2.1. By Aircraft Type Market Share Analysis
- 10.3.2.2.2. By Blade Type Market Share Analysis
- 10.3.2.2.3. By Material Market Share Analysis
- 10.3.2.2.4. By End Use Market Share Analysis
- 10.3.3. Argentina Aircraft Engine Blade Market Outlook
- 10.3.3.1. Market Size & Forecast
- 10.3.3.1.1. By Volume & Value
- 10.3.3.2. Market Share & Forecast
- 10.3.3.2.1. By Aircraft Type Market Share Analysis
- 10.3.3.2.2. By Blade Type Market Share Analysis
- 10.3.3.2.3. By Material Market Share Analysis
- 10.3.3.2.4. By End Use Market Share Analysis

# **11. MIDDLE EAST & AFRICA AIRCRAFT ENGINE BLADE MARKET OUTLOOK**

# 11.1. Market Size & Forecast

- 11.1.1. By Volume & Value
- 11.2. Market Share & Forecast
- 11.2.1. By Aircraft Type Market Share Analysis
- 11.2.2. By Blade Type Market Share Analysis
- 11.2.3. By Material Market Share Analysis
- 11.2.4. By End Use Market Share Analysis
- 11.2.5. By Country Market Share Analysis
- 11.3. Middle East & Africa: Country Analysis
  - 11.3.1. Saudi Arabia Aircraft Engine Blade Market Outlook
  - 11.3.1.1. Market Size & Forecast
  - 11.3.1.1.1. By Volume & Value
  - 11.3.1.2. Market Share & Forecast
  - 11.3.1.2.1. By Aircraft Type Market Share Analysis
  - 11.3.1.2.2. By Blade Type Market Share Analysis
  - 11.3.1.2.3. By Material Market Share Analysis
  - 11.3.1.2.4. By End Use Market Share Analysis
- 11.3.2. UAE Aircraft Engine Blade Market Outlook
  - 11.3.2.1. Market Size & Forecast
  - 11.3.2.1.1. By Volume & Value
  - 11.3.2.2. Market Share & Forecast
    - 11.3.2.2.1. By Aircraft Type Market Share Analysis



11.3.2.2.2. By Blade Type Market Share Analysis
11.3.2.2.3. By Material Market Share Analysis
11.3.2.2.4. By End Use Market Share Analysis
11.3.3. South Africa Aircraft Engine Blade Market Outlook
11.3.3.1. Market Size & Forecast
11.3.3.1.1. By Volume & Value
11.3.3.2. Market Share & Forecast
11.3.3.2.1. By Aircraft Type Market Share Analysis
11.3.3.2.2. By Blade Type Market Share Analysis
11.3.3.2.3. By Material Market Share Analysis
11.3.3.2.4. By End Use Market Share Analysis

#### 12. SWOT ANALYSIS

- 12.1. Strength
- 12.2. Weakness
- 12.3. Opportunities
- 12.4. Threats

#### **13. PORTER'S FIVE FORCES MODEL**

- 13.1. Competitive Rivalry
- 13.2. Bargaining Power of Suppliers
- 13.3. Bargaining Power of Buyers
- 13.4. Threat of New Entrants
- 13.5. Threat of Substitutes

# **14. MARKET DYNAMICS**

- 14.1. Market Drivers
- 14.2. Market Challenges

# **15. MARKET TRENDS AND DEVELOPMENTS**

#### 16. COMPETITIVE LANDSCAPE

- 16.1. Company Profiles (Up to 10 leading companies)
  - 16.1.1. General Electric Company
    - 16.1.1.1. Company Details



- 16.1.1.2. Product & Services
- 16.1.1.3. Financials (As Per Availability)
- 16.1.1.4. Recent Developments
- 16.1.1.5. Key Management Personnel
- 16.1.2. CFM International
- 16.1.2.1. Company Details
- 16.1.2.2. Product & Services
- 16.1.2.3. Financials (As Per Availability)
- 16.1.2.4. Recent Developments
- 16.1.2.5. Key Management Personnel
- 16.1.3. United Technologies Corporation
- 16.1.3.1. Company Details
- 16.1.3.2. Product & Services
- 16.1.3.3. Financials (As Per Availability)
- 16.1.3.4. Recent Developments
- 16.1.3.5. Key Management Personnel
- 16.1.4. Rolls-Royce Holdings PLC
- 16.1.4.1. Company Details
- 16.1.4.2. Product & Services
- 16.1.4.3. Financials (As Per Availability)
- 16.1.4.4. Recent Developments
- 16.1.4.5. Key Management Personnel
- 16.1.5. MTU Aero Engine
  - 16.1.5.1. Company Details
  - 16.1.5.2. Product & Services
- 16.1.5.3. Financials (As Per Availability)
- 16.1.5.4. Recent Developments
- 16.1.5.5. Key Management Personnel
- 16.1.6. Albany International Corporation
  - 16.1.6.1. Company Details
  - 16.1.6.2. Product & Services
  - 16.1.6.3. Financials (As Per Availability)
  - 16.1.6.4. Recent Developments
  - 16.1.6.5. Key Management Personnel
- 16.1.7. Collins Aerospace
- 16.1.7.1. Company Details
- 16.1.7.2. Product & Services
- 16.1.7.3. Financials (As Per Availability)
- 16.1.7.4. Recent Developments



- 16.1.7.5. Key Management Personnel
- 16.1.8. Arconic Inc.
- 16.1.8.1. Company Details
- 16.1.8.2. Product & Services
- 16.1.8.3. Financials (As Per Availability)
- 16.1.8.4. Recent Developments
- 16.1.8.5. Key Management Personnel
- 16.1.9. Pratt & Whiteny
  - 16.1.9.1. Company Details
  - 16.1.9.2. Product & Services
- 16.1.9.3. Financials (As Per Availability)
- 16.1.9.4. Recent Developments
- 16.1.9.5. Key Management Personnel
- 16.1.10. GKN Aerospace
  - 16.1.10.1. Company Details
- 16.1.10.2. Product & Services
- 16.1.10.3. Financials (As Per Availability)
- 16.1.10.4. Recent Developments
- 16.1.10.5. Key Management Personnel

#### **17. STRATEGIC RECOMMENDATIONS**

- 17.1. Key Focus Areas
- 17.2. Target Regions & Countries
- 17.3. Target Aircraft Type
- 17.4. Target Blade Type

#### **18. ABOUT US & DISCLAIMER**



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