

Aircraft Engine Casting Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Aircraft Type (Commercial Aircraft, Regional Aircraft, Helicopter, Military Aircraft, and General Aviation), By Engine Type (Turbofan, Turboprop, Turbojet, and Turboshaft), By Material Type (Nickel, Titanium, Stainless Steel, and Others), By Region, Competition 2019-2029

<https://marketpublishers.com/r/AA254826E3A8EN.html>

Date: January 2024

Pages: 181

Price: US\$ 4,900.00 (Single User License)

ID: AA254826E3A8EN

Abstracts

Global Aircraft Engine Casting market was valued at USD 7.1 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 7.28% through 2029. The global aircraft engine casting market has been experiencing a consistent and remarkable growth over the past decade. This surge can be primarily attributed to the significant increase in the demand for new aircraft, driven by the ever-growing air travel industry worldwide. As the world becomes more interconnected, the necessity for highly efficient, reliable, and technologically advanced aircraft engines becomes increasingly paramount. These engines play a critical role in ensuring safe and seamless air transportation, meeting the evolving needs of passengers and cargo alike. With ongoing advancements in aerospace technology, the aircraft engine casting market is poised to continue its upward trajectory, catering to the expanding global aviation sector.

Aircraft engine casting is a highly critical and intricate process in the manufacturing of aircraft engines. It involves meticulously creating intricate shapes by pouring molten metal into a precisely designed mold, allowing it to gradually solidify and take form. This elaborate technique is absolutely indispensable in the aviation industry as it enables the

production of complex shapes that not only exhibit exceptional durability but also possess the desired lightweight characteristics, both of which are paramount for optimal performance and safety in aircraft operations.

The North American region dominates the market with a substantial share, driven by the presence of major aircraft manufacturers and airlines. Europe follows closely, with Asia-Pacific fast emerging as a key player. The Asia-Pacific growth is spurred by the increasing air travel due to burgeoning middle class, coupled with the rising investments in airport infrastructure in the region.

Various factors are driving the growth of this market. One is the increasing demand for fuel-efficient aircraft. With rising fuel prices and environmental concerns, airlines are seeking more fuel-efficient aircraft, thus driving the demand for advanced engine casting. Secondly, the growth of low-cost airlines, especially in emerging economies, has resulted in increased aircraft orders.

However, the market also faces certain challenges. The high cost associated with the casting process and the need for high precision and quality control can act as potential growth limiters. Additionally, the recent COVID-19 pandemic has significantly impacted the market, with air travel severely restricted worldwide, leading to reduced demand for new aircraft.

Looking forward, the global aircraft engine casting market is expected to maintain steady growth. This growth will be driven by the increasing demand for new aircraft in response to growing global air traffic, the rise of low-cost airlines, and the need for fuel-efficient engines. The technological advancements in the casting process, such as the adoption of 3D printing, are also expected to further drive market growth.

In conclusion, while the global aircraft engine casting market faces challenges, the potential for growth is significant. As the aviation industry recovers from the impacts of the COVID-19 pandemic, market players who can adapt to the changing trends and invest in technological advancements will reap substantial rewards

Market Drivers

Increasing Demand for Fuel-Efficient Engines

One of the primary drivers propelling the Global Aircraft Engine Casting Market is the escalating demand for fuel-efficient engines. With a growing focus on environmental

sustainability and fuel cost reduction, aircraft manufacturers are under pressure to design and produce engines that optimize fuel consumption. Engine casting, a critical aspect of the manufacturing process, influences the overall efficiency and performance of the aircraft powerplant.

Aircraft engine casting technologies play a pivotal role in creating components with complex geometries, allowing for aerodynamic designs that enhance fuel efficiency. The demand for lightweight and durable materials, achieved through advanced casting techniques, contributes to the development of more fuel-efficient engines. As the aviation industry prioritizes eco-friendly practices and compliance with stringent emission standards, the quest for improved fuel efficiency becomes a key driver shaping the Aircraft Engine Casting Market.

Growth in the Aviation Industry and Increased Aircraft Production

The sustained growth of the aviation industry and the subsequent increase in aircraft production serve as significant drivers for the Aircraft Engine Casting Market. As global air travel continues to rise, driven by factors such as increasing disposable income, urbanization, and a growing middle class in emerging economies, aircraft manufacturers experience heightened demand for new aircraft.

This surge in demand for commercial and military aircraft directly translates to an increased need for aircraft engines. Engine casting is a fundamental process in the manufacturing of propulsion systems, and its demand is closely linked to aircraft production rates. Both established and emerging aviation markets contribute to this growth, with airlines and defense forces seeking modern and efficient aircraft to meet passenger demand and address evolving security concerns.

Advances in Casting Technologies and Materials

Technological advancements in casting processes and materials represent a crucial driver influencing the Aircraft Engine Casting Market. Continuous innovation in casting technologies allows manufacturers to produce engine components with enhanced precision, structural integrity, and performance. Investment in research and development leads to the discovery and implementation of novel materials and techniques, contributing to the evolution of engine casting.

Advanced casting methods, such as investment casting and 3D printing (additive manufacturing), enable the production of intricate and lightweight components that meet

the stringent requirements of modern aircraft engines. These innovations not only improve the overall efficiency and durability of engines but also provide opportunities for design optimization. The use of high-performance alloys, composites, and temperature-resistant materials in engine casting addresses the demanding operational conditions of aircraft engines, including high temperatures and stress.

Increasing Emphasis on Sustainability and Environmental Regulations

The global emphasis on sustainability and adherence to stringent environmental regulations is a significant driver shaping the Aircraft Engine Casting Market. Environmental concerns, including carbon emissions and their impact on climate change, have led the aviation industry to focus on developing more environmentally friendly aircraft and engines. As aircraft engines are major contributors to emissions, manufacturers are under pressure to enhance efficiency and reduce the environmental footprint of their products.

Engine casting plays a crucial role in achieving these goals by enabling the creation of components that contribute to overall engine efficiency and emission reduction. Lightweight materials, improved aerodynamics, and advanced cooling technologies, facilitated by innovative casting methods, are essential in creating engines with lower fuel consumption and reduced emissions. The market responds to this driver by investing in research and development to align engine casting processes with sustainability objectives and regulatory requirements.

Rising Demand for Military Aircraft and Aerospace Defense Systems

The increasing demand for military aircraft and aerospace defense systems acts as a notable driver for the Aircraft Engine Casting Market. Military aircraft require robust and high-performance engines designed to meet specific operational requirements. Engine casting, as a critical aspect of manufacturing these engines, becomes integral to ensuring the reliability and durability of military propulsion systems.

As geopolitical tensions persist and defense budgets increase in various regions, there is a growing need for advanced military aircraft and aerospace defense systems. Engine casting technologies play a vital role in developing components that withstand the demanding conditions of military operations, including high-speed maneuvers, extreme altitudes, and diverse climates. The market responds to this driver by catering to the specific requirements of military aircraft, fostering innovation in casting processes and materials to enhance the performance and longevity of engines used in defense

applications.

Key Market Challenges

Complex Design Requirements and Materials

The Global Aircraft Engine Casting Market encounters significant challenges related to the complex design requirements and materials needed for modern aircraft engines. As aircraft manufacturers strive to enhance engine efficiency and performance, the design of engine components becomes increasingly intricate. This complexity arises from the need for advanced aerodynamics, heat management, and weight reduction.

Engine components often have intricate geometries and must withstand extreme temperatures and pressures during operation. Meeting these stringent design requirements necessitates advanced casting techniques capable of producing components with high precision and structural integrity. Additionally, the demand for lightweight materials, such as high-performance alloys and composites, adds complexity to the casting process.

The challenge lies in developing casting technologies that can effectively handle the intricate designs and diverse materials required for modern aircraft engines. Manufacturers in the Aircraft Engine Casting Market must invest in research and development to stay at the forefront of casting innovations, ensuring their processes can accommodate the evolving design and material specifications of next-generation aircraft engines.

Stringent Quality and Certification Standards

The Aircraft Engine Casting Market faces the challenge of meeting stringent quality and certification standards imposed by regulatory authorities, including the Federal Aviation Administration (FAA) and the European Union Aviation Safety Agency (EASA). Engine components must undergo rigorous testing and certification processes to ensure they meet safety, reliability, and performance standards before being integrated into aircraft.

Compliance with these standards involves comprehensive testing, validation, and documentation throughout the manufacturing process. The challenge is heightened by the dynamic nature of aviation regulations, which continually evolve to address emerging technologies and safety considerations. Manufacturers in the Aircraft Engine Casting Market must navigate a complex landscape of certification requirements, often

requiring substantial investments in testing facilities, quality control measures, and compliance management.

The time and resources required for certification can pose challenges, impacting the speed at which new casting technologies or materials can be brought to market. Balancing the need for innovation with the imperative of meeting certification standards is a continuous challenge for industry participants.

Cost Pressures and Market Competitiveness

Cost pressures and market competitiveness pose significant challenges to the Aircraft Engine Casting Market. The aviation industry is highly competitive, and aircraft manufacturers, both commercial and military, are under constant pressure to optimize costs while delivering high-quality products. This cost-conscious environment directly affects suppliers and casting manufacturers contributing to the aircraft engine ecosystem.

Developing and implementing advanced casting technologies and using high-performance materials can involve substantial research and development expenses. The challenge is to strike a balance between innovation and cost-effectiveness. Additionally, the market's competitiveness may lead to price pressures, making it challenging for companies to maintain healthy profit margins.

Market participants must navigate these cost pressures by adopting efficient manufacturing processes, optimizing supply chains, and exploring economies of scale. Strategic partnerships and collaborations may also be essential for pooling resources and expertise to address cost challenges collectively.

Environmental Concerns and Sustainable Practices

The Aircraft Engine Casting Market is confronted with increasing environmental concerns and the need to adopt sustainable practices. As the aviation industry faces scrutiny for its carbon footprint, there is a growing emphasis on developing eco-friendly aircraft and engines. Engine casting, as a fundamental aspect of manufacturing, plays a role in addressing these environmental challenges.

The use of certain casting materials, such as certain alloys and composites, may raise environmental concerns during production and disposal. The challenge is to adopt casting processes and materials that align with sustainability goals, including

recyclability, reduced emissions, and environmentally friendly manufacturing practices.

Meeting sustainability requirements often involves investing in research and development to explore alternative materials and casting methods. This transition to more sustainable practices may pose initial challenges, such as higher development costs and potential resistance to change. However, in the long term, it is crucial for the Aircraft Engine Casting Market to align with global efforts to reduce the environmental impact of aviation.

Technological Evolution and Industry Adaptation

The rapid evolution of casting technologies and the aviation industry's need to adapt to new advancements present a challenge for the Aircraft Engine Casting Market. Technological innovations in casting methods, such as additive manufacturing (3D printing), and the introduction of new materials continuously reshape the landscape of engine component manufacturing.

The challenge lies in staying abreast of these technological changes and adapting production processes accordingly. While advancements offer opportunities for improved efficiency and performance, the adoption of new technologies may require significant investments in equipment, training, and process optimization. Industry players need to navigate this technological evolution strategically to remain competitive and deliver cutting-edge solutions.

Furthermore, the industry's ability to absorb and integrate these technological advancements may vary, leading to potential disparities in the adoption of innovative casting methods across different market segments. Overcoming the challenge of technological evolution requires a proactive approach, fostering collaboration between manufacturers, suppliers, and research institutions to ensure a smooth transition to new casting technologies while maintaining the reliability and safety standards essential for aviation.

Key Market Trends

Adoption of Additive Manufacturing (3D Printing)

An increasingly prominent trend in the Global Aircraft Engine Casting Market is the adoption of additive manufacturing, commonly known as 3D printing. This revolutionary technology has gained traction in the aerospace industry, including the production of

aircraft engine components. Unlike traditional casting methods, 3D printing allows for the layer-by-layer construction of intricate geometries, enabling the creation of complex and lightweight structures that were previously challenging or impossible to achieve.

In the context of aircraft engine casting, 3D printing offers several advantages. It allows for the production of components with optimized internal structures, reducing overall weight without compromising strength. This trend aligns with the aviation industry's constant pursuit of fuel efficiency and operational performance. Additionally, additive manufacturing facilitates rapid prototyping, enabling manufacturers to iterate and test designs more efficiently.

As the technology matures and becomes more cost-effective, the adoption of 3D printing in the Aircraft Engine Casting Market is expected to grow. Industry participants are exploring new alloys and materials suitable for 3D printing, further expanding the possibilities for lightweight and high-performance engine components.

Focus on Sustainable Materials and Processes

A significant trend shaping the Aircraft Engine Casting Market is the industry's increasing focus on sustainable materials and manufacturing processes. Environmental sustainability has become a crucial consideration in aviation, driven by regulatory requirements and the broader global push for eco-friendly practices.

In response to this trend, manufacturers are exploring and adopting sustainable casting materials that align with environmental goals. This includes the use of recycled alloys, eco-friendly foundry practices, and the development of components with a reduced environmental impact throughout their lifecycle. Sustainable casting processes aim to minimize energy consumption, emissions, and waste, contributing to a more environmentally responsible aviation sector.

The demand for sustainable practices extends beyond materials to encompass the entire production chain. Companies in the Aircraft Engine Casting Market are investing in research and development to identify and implement greener alternatives without compromising the performance and durability of engine components. This trend reflects a broader industry commitment to balancing technological advancements with environmental responsibility.

Growing Emphasis on Design Optimization

A notable trend in the Aircraft Engine Casting Market is the growing emphasis on design optimization. As aircraft engines become more sophisticated and efficient, manufacturers are prioritizing the development of components with optimized shapes, structures, and functionalities. Design optimization plays a crucial role in enhancing engine performance, fuel efficiency, and overall reliability.

Advanced casting technologies enable the creation of components with intricate designs that were previously challenging to produce. This includes aerodynamically optimized turbine blades, combustion chambers, and other critical engine parts. The trend towards design optimization is driven by the continuous quest for higher efficiency and reduced emissions in response to environmental concerns and regulatory standards.

Computer-aided design (CAD) tools and simulations contribute to the trend, allowing manufacturers to model and test various design iterations virtually before physically producing components. The integration of artificial intelligence (AI) and machine learning further enhances the design optimization process by analyzing vast datasets to identify patterns and improvements. As the Aircraft Engine Casting Market embraces these technologies, design optimization is expected to remain a key trend influencing the development of next-generation aircraft engines.

Increased Collaboration and Partnerships

Collaboration and partnerships among key players in the Aircraft Engine Casting Market have emerged as a notable trend. The complexity of modern aircraft engines, coupled with the need for continuous innovation, has prompted industry participants to forge strategic alliances and collaborations to pool resources, expertise, and capabilities.

These collaborations extend across the entire value chain, involving casting manufacturers, aircraft engine OEMs (Original Equipment Manufacturers), research institutions, and technology providers. Joint ventures and partnerships enable stakeholders to leverage complementary strengths, accelerate research and development efforts, and share the risks associated with innovation.

One example is the collaboration between casting manufacturers and materials suppliers to explore novel alloys and composites suitable for engine components. Additionally, partnerships between OEMs and casting experts facilitate the integration of cutting-edge casting technologies into the design and production of new aircraft engines. This collaborative trend ensures that industry players stay at the forefront of technological advancements while fostering a more integrated and interconnected

ecosystem within the Aircraft Engine Casting Market.

Integration of Smart Manufacturing Technologies

The integration of smart manufacturing technologies is a significant trend shaping the Aircraft Engine Casting Market. Industry 4.0 principles, including the Internet of Things (IoT), data analytics, and automation, are being applied to enhance efficiency, quality control, and overall production processes in the casting of aircraft engine components.

Smart manufacturing technologies enable real-time monitoring of casting processes, providing valuable data on parameters such as temperature, pressure, and material properties. This data-driven approach allows for more precise control and optimization of casting conditions, reducing the likelihood of defects and improving the consistency of component quality.

Automation, including robotic systems and advanced machinery, plays a crucial role in smart manufacturing. Automated casting processes enhance efficiency, reduce production times, and minimize human error. Additionally, the integration of digital twins – virtual replicas of physical casting processes – facilitates simulations and predictive maintenance, contributing to a more streamlined and proactive approach to manufacturing.

This trend aligns with the broader industry's move toward digitalization and connectivity. As smart manufacturing technologies continue to evolve, the Aircraft Engine Casting Market is expected to witness increased efficiency, reduced costs, and improved overall competitiveness.

Segmental Insights

Material Type Analysis

In analyzing the Aircraft Engine Casting Market, the material types used have significant effects on performance and cost-efficiency. Nickel alloys are prized for their high-performance at extreme temperatures, making them ideal for critical engine components. Titanium, while lighter than nickel, provides exceptional strength-to-weight ratios favorable for aircraft design optimization. Stainless Steel is often utilized for its corrosion resistance and durability, albeit with a heavier weight penalty. Others may include advanced composites and ceramics that offer unique properties like reduced weight and enhanced thermal resistance, though their use reflects a balance between

innovation and proven reliability. Each material brings distinct advantages to the table, influencing the choice based on the specific application within the engine..

Regional Insights

Regionally, the global Aircraft Engine Casting Market demonstrates significant variations. North America, with its robust aviation industry and high demand for commercial and military aircraft, holds a substantial share. Europe follows closely, driven by its strong aircraft manufacturing sector. Asia-Pacific is projected to show rapid growth in the coming years, fueled by increasing air traffic and the rising importance of efficient aviation infrastructure. Despite the current challenges posed by the global pandemic, the market is expected to rebound, driven by advancements in technology and increasing demand in emerging markets.

Key Market Players

Howmet Aerospace

Precision Castparts Corp.

Consolidated Precision Products

Doncasters Group

Chromalloy Gas Turbine LLC

Report Scope:

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

Aircraft Engine Casting Market, By Aircraft Type:

Commercial Aircraft

Regional Aircraft

Helicopter

Military Aircraft

General Aviation

Aircraft Engine Casting Market, By Engine Type:

Turbofan

Turboprop

Turbojet

Turboshaft

Aircraft Engine Casting Market, By Material Type:

Nickel

Titanium

Stainless Steel

Others

Aircraft Engine Casting Market, By Region:

Asia-Pacific

China

India

Japan

Indonesia

Thailand

South Korea

Australia

Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

North America

United States

Canada

Mexico

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Turkey

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Aircraft Engine Casting Market.

Available Customizations:

Global Aircraft Engine Casting Market report with the given market data, Tech Sci 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. Methodology Landscape
- 2.2. Objective of the Study
- 2.3. Baseline Methodology
- 2.4. Formulation of the Scope
- 2.5. Assumptions and Limitations
- 2.6. Sources of Research
- 2.7. Approach for the Market Study
- 2.8. Methodology Followed for Calculation of Market Size & Market Shares
- 2.9. Forecasting Methodology

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 CASTING MARKET

5. GLOBAL AIRCRAFT ENGINE CASTING MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Aircraft Type Market Share Analysis (Commercial Aircraft, Regional Aircraft, Helicopter, Military Aircraft, and General Aviation)

- 5.2.2. By Engine Type Market Share Analysis (Turbofan, Turboprop, Turbojet, and Turboshaft)
- 5.2.3. By Material Type Market Share Analysis (Nickel, Titanium, Stainless Steel, and Others)
- 5.2.4. By Regional Market Share Analysis
 - 5.2.4.1. Asia-Pacific Market Share Analysis
 - 5.2.4.2. Europe & CIS Market Share Analysis
 - 5.2.4.3. North America Market Share Analysis
 - 5.2.4.4. South America Market Share Analysis
 - 5.2.4.5. Middle East & Africa Market Share Analysis
- 5.2.5. By Company Market Share Analysis (Top 5 Companies, Others - By Value, 2023)
- 5.3. Global Aircraft Engine Casting Market Mapping & Opportunity Assessment
 - 5.3.1. By Aircraft Type Market Mapping & Opportunity Assessment
 - 5.3.2. By Engine Type Market Mapping & Opportunity Assessment
 - 5.3.3. By Material Type Market Mapping & Opportunity Assessment
 - 5.3.4. By Regional Market Mapping & Opportunity Assessment

6. ASIA-PACIFIC AIRCRAFT ENGINE CASTING MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Aircraft Type Market Share Analysis
 - 6.2.2. By Engine Type Market Share Analysis
 - 6.2.3. By Material Type Market Share Analysis
 - 6.2.4. By Country Market Share Analysis
 - 6.2.4.1. China Market Share Analysis
 - 6.2.4.2. India Market Share Analysis
 - 6.2.4.3. Japan Market Share Analysis
 - 6.2.4.4. Indonesia Market Share Analysis
 - 6.2.4.5. Thailand Market Share Analysis
 - 6.2.4.6. South Korea Market Share Analysis
 - 6.2.4.7. Australia Market Share Analysis
 - 6.2.4.8. Rest of Asia-Pacific Market Share Analysis
- 6.3. Asia-Pacific: Country Analysis
 - 6.3.1. China Aircraft Engine Casting Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value

- 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Aircraft Type Market Share Analysis
 - 6.3.1.2.2. By Engine Type Market Share Analysis
 - 6.3.1.2.3. By Material Type Market Share Analysis
- 6.3.2. India Aircraft Engine Casting Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Aircraft Type Market Share Analysis
 - 6.3.2.2.2. By Engine Type Market Share Analysis
 - 6.3.2.2.3. By Material Type Market Share Analysis
- 6.3.3. Japan Aircraft Engine Casting Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Aircraft Type Market Share Analysis
 - 6.3.3.2.2. By Engine Type Market Share Analysis
 - 6.3.3.2.3. By Material Type Market Share Analysis
- 6.3.4. Indonesia Aircraft Engine Casting Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Aircraft Type Market Share Analysis
 - 6.3.4.2.2. By Engine Type Market Share Analysis
 - 6.3.4.2.3. By Material Type Market Share Analysis
- 6.3.5. Thailand Aircraft Engine Casting Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Aircraft Type Market Share Analysis
 - 6.3.5.2.2. By Engine Type Market Share Analysis
 - 6.3.5.2.3. By Material Type Market Share Analysis
- 6.3.6. South Korea Aircraft Engine Casting Market Outlook
 - 6.3.6.1. Market Size & Forecast
 - 6.3.6.1.1. By Value
 - 6.3.6.2. Market Share & Forecast
 - 6.3.6.2.1. By Aircraft Type Market Share Analysis
 - 6.3.6.2.2. By Engine Type Market Share Analysis
 - 6.3.6.2.3. By Material Type Market Share Analysis

6.3.7. Australia Aircraft Engine Casting Market Outlook

6.3.7.1. Market Size & Forecast

6.3.7.1.1. By Value

6.3.7.2. Market Share & Forecast

6.3.7.2.1. By Aircraft Type Market Share Analysis

6.3.7.2.2. By Engine Type Market Share Analysis

6.3.7.2.3. By Material Type Market Share Analysis

7. EUROPE & CIS AIRCRAFT ENGINE CASTING MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Aircraft Type Market Share Analysis

7.2.2. By Engine Type Market Share Analysis

7.2.3. By Material Type Market Share Analysis

7.2.4. By Country Market Share Analysis

7.2.4.1. Germany Market Share Analysis

7.2.4.2. Spain Market Share Analysis

7.2.4.3. France Market Share Analysis

7.2.4.4. Russia Market Share Analysis

7.2.4.5. Italy Market Share Analysis

7.2.4.6. United Kingdom Market Share Analysis

7.2.4.7. Belgium Market Share Analysis

7.2.4.8. Rest of Europe & CIS Market Share Analysis

7.3. Europe & CIS: Country Analysis

7.3.1. Germany Aircraft Engine Casting Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By 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 Engine Type Market Share Analysis

7.3.1.2.3. By Material Type Market Share Analysis

7.3.2. Spain Aircraft Engine Casting Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By 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 Engine Type Market Share Analysis

- 7.3.2.2.3. By Material Type Market Share Analysis
- 7.3.3. France Aircraft Engine Casting Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By 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 Engine Type Market Share Analysis
 - 7.3.3.2.3. By Material Type Market Share Analysis
- 7.3.4. Russia Aircraft Engine Casting Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By 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 Engine Type Market Share Analysis
 - 7.3.4.2.3. By Material Type Market Share Analysis
- 7.3.5. Italy Aircraft Engine Casting Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By 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 Engine Type Market Share Analysis
 - 7.3.5.2.3. By Material Type Market Share Analysis
- 7.3.6. United Kingdom Aircraft Engine Casting Market Outlook
 - 7.3.6.1. Market Size & Forecast
 - 7.3.6.1.1. By 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 Engine Type Market Share Analysis
 - 7.3.6.2.3. By Material Type Market Share Analysis
- 7.3.7. Belgium Aircraft Engine Casting Market Outlook
 - 7.3.7.1. Market Size & Forecast
 - 7.3.7.1.1. By 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 Engine Type Market Share Analysis
 - 7.3.7.2.3. By Material Type Market Share Analysis

8. NORTH AMERICA AIRCRAFT ENGINE CASTING MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Aircraft Type Market Share Analysis

8.2.2. By Engine Type Market Share Analysis

8.2.3. By Material Type Market Share Analysis

8.2.4. By Country Market Share Analysis

8.2.4.1. United States Market Share Analysis

8.2.4.2. Mexico Market Share Analysis

8.2.4.3. Canada Market Share Analysis

8.3. North America: Country Analysis

8.3.1. United States Aircraft Engine Casting Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By 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 Engine Type Market Share Analysis

8.3.1.2.3. By Material Type Market Share Analysis

8.3.2. Mexico Aircraft Engine Casting Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By 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 Engine Type Market Share Analysis

8.3.2.2.3. By Material Type Market Share Analysis

8.3.3. Canada Aircraft Engine Casting Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By 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 Engine Type Market Share Analysis

8.3.3.2.3. By Material Type Market Share Analysis

9. SOUTH AMERICA AIRCRAFT ENGINE CASTING MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Aircraft Type Market Share Analysis

- 9.2.2. By Engine Type Market Share Analysis
- 9.2.3. By Material Type Market Share Analysis
- 9.2.4. By Country Market Share Analysis
 - 9.2.4.1. Brazil Market Share Analysis
 - 9.2.4.2. Argentina Market Share Analysis
 - 9.2.4.3. Colombia Market Share Analysis
 - 9.2.4.4. Rest of South America Market Share Analysis
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Aircraft Engine Casting Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By 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 Engine Type Market Share Analysis
 - 9.3.1.2.3. By Material Type Market Share Analysis
 - 9.3.2. Colombia Aircraft Engine Casting Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By 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 Engine Type Market Share Analysis
 - 9.3.2.2.3. By Material Type Market Share Analysis
 - 9.3.3. Argentina Aircraft Engine Casting Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By 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 Engine Type Market Share Analysis
 - 9.3.3.2.3. By Material Type Market Share Analysis

10. MIDDLE EAST & AFRICA AIRCRAFT ENGINE CASTING MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Aircraft Type Market Share Analysis
 - 10.2.2. By Engine Type Market Share Analysis
 - 10.2.3. By Material Type Market Share Analysis
 - 10.2.4. By Country Market Share Analysis

- 10.2.4.1. South Africa Market Share Analysis
- 10.2.4.2. Turkey Market Share Analysis
- 10.2.4.3. Saudi Arabia Market Share Analysis
- 10.2.4.4. UAE Market Share Analysis
- 10.2.4.5. Rest of Middle East & Africa Market Share Analysis
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. South Africa Aircraft Engine Casting Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By 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 Engine Type Market Share Analysis
 - 10.3.1.2.3. By Material Type Market Share Analysis
 - 10.3.2. Turkey Aircraft Engine Casting Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By 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 Engine Type Market Share Analysis
 - 10.3.2.2.3. By Material Type Market Share Analysis
 - 10.3.3. Saudi Arabia Aircraft Engine Casting Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By 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 Engine Type Market Share Analysis
 - 10.3.3.2.3. By Material Type Market Share Analysis
 - 10.3.4. UAE Aircraft Engine Casting Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Aircraft Type Market Share Analysis
 - 10.3.4.2.2. By Engine Type Market Share Analysis
 - 10.3.4.2.3. By Material Type Market Share Analysis

11. SWOT ANALYSIS

- 11.1. Strength
- 11.2. Weakness

11.3. Opportunities

11.4. Threats

12. MARKET DYNAMICS

12.1. Market Drivers

12.2. Market Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. COMPETITIVE LANDSCAPE

14.1. Company Profiles (Up to 10 Major Companies)

14.1.1. Chromalloy Gas Turbine LLC

14.1.1.1. Company Details

14.1.1.2. Key Product Offered

14.1.1.3. Financials (As Per Availability)

14.1.1.4. Recent Developments

14.1.1.5. Key Management Personnel

14.1.2. Howmet Aerospace

14.1.2.1. Company Details

14.1.2.2. Key Product Offered

14.1.2.3. Financials (As Per Availability)

14.1.2.4. Recent Developments

14.1.2.5. Key Management Personnel

14.1.3. Precision Castparts Corp.

14.1.3.1. Company Details

14.1.3.2. Key Product Offered

14.1.3.3. Financials (As Per Availability)

14.1.3.4. Recent Developments

14.1.3.5. Key Management Personnel

14.1.4. Consolidated Precision Products

14.1.4.1. Company Details

14.1.4.2. Key Product Offered

14.1.4.3. Financials (As Per Availability)

14.1.4.4. Recent Developments

14.1.4.5. Key Management Personnel

14.1.5. Doncasters Group

- 14.1.5.1. Company Details
- 14.1.5.2. Key Product Offered
- 14.1.5.3. Financials (As Per Availability)
- 14.1.5.4. Recent Developments
- 14.1.5.5. Key Management Personnel

15. STRATEGIC RECOMMENDATIONS

- 15.1. Key Focus Areas
 - 15.1.1. Target Regions
 - 15.1.2. Target Aircraft Type
 - 15.1.3. Target Engine Type

16. ABOUT US & DISCLAIMER

I would like to order

Product name: Aircraft Engine Casting Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Aircraft Type (Commercial Aircraft, Regional Aircraft, Helicopter, Military Aircraft, and General Aviation), By Engine Type (Turbofan, Turboprop, Turbojet, and Turboshift), By Material Type (Nickel, Titanium, Stainless Steel, and Others), By Region, Competition 2019-2029

Product link: <https://marketpublishers.com/r/AA254826E3A8EN.html>

Price: US\$ 4,900.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AA254826E3A8EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970