

Global Aircraft and Aerospace Aluminum Casting Components Market Research Report 2026(Status and Outlook)

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Abstracts

Aluminum alloy is favored by all fields because of its natural density advantage. In the aviation field, the application of aluminum alloy can significantly reduce the weight of aircraft fuselage, thus can significantly reduce the operation cost. Aviation aluminum alloy refers to the aluminum alloy mainly used in the aviation field, the current aluminum alloy series in the aviation field is mainly 2XXX series and 7XXX series. Global key players of aircraft and aerospace aluminum casting components include PCC, Howmet Aerospace, Consolidated Precision Products (CPP), etc. The top three players hold a share about 75%. Americas is the largest market, has a share about 39%, followed by Europe and Asia-Pacific, with share 32% and 25%, separately. The driving factors of the aerospace aluminum casting market mainly include the following points: The development needs of the aerospace industry: Military demand: With the acceleration of national defense modernization and the deepening of military technology revolution, the aerospace industry has an increasing demand for advanced military aircraft, rockets and their engines and other equipment. These equipment often require the use of high-performance aluminum castings to meet their requirements such as lightweight, high strength and corrosion resistance. Civilian demand: With the development of the economy and society and the improvement of people's living standards, the demand for equipment such as civil aircraft, general aircraft, and drones is also expanding. These civil aviation products also require high-quality aluminum castings to support their performance improvement and cost reduction. Technological progress and innovation: Research and development and application of aluminum alloy materials: With the continuous research and development and improvement of aluminum alloy materials, their performance has been significantly improved, such as strength, toughness, corrosion resistance and other aspects. This makes the application range of aluminum alloy castings in the aerospace field more extensive. Innovation in casting

technology: Advanced casting technologies, such as precision casting, low-pressure casting, differential pressure casting, etc., have further improved the precision and performance of aluminum castings. The application of these technologies has also promoted the development of the aerospace aluminum casting market.

Policy support and promotion: Government policy: In order to promote the development of the aerospace industry, governments of various countries have introduced a series of support policies. These policies include providing R&D funding support, tax incentives, market access and other conveniences, providing a good policy environment for the development of the aerospace aluminum casting market.

International cooperation and exchanges: With the deepening development of globalization, international cooperation and exchanges are becoming more and more frequent. International cooperation in the aerospace field not only promotes the sharing and progress of technology, but also provides a broader space for the expansion of the aerospace aluminum casting market.

Market demand and trends: Demand for green aviation technology: Under the guidance of the "dual carbon" goal, the aerospace industry has an increasing demand for green aviation technologies such as new energy aircraft and low-carbon flight. This makes the application of aluminum castings in the aerospace field more important, because aluminum alloy materials have lower density and higher strength, which helps to reduce aircraft weight, reduce energy consumption and emissions.

Demand for the renewal of aerospace equipment: With the renewal of aerospace equipment, the demand for aluminum castings is also increasing. The new generation of aerospace equipment often adopts more advanced technologies and materials, which puts higher requirements on the performance and precision of aluminum castings.

In summary, the driving factors of the aerospace aluminum casting market mainly include the development needs of the aerospace industry, technological progress and innovation, policy support and promotion, and market demand and trends. These factors work together to promote the continuous development of the aerospace aluminum casting market.

The global Aircraft and Aerospace Aluminum Casting Components market size was estimated at USD 1189.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Aircraft and Aerospace Aluminum Casting Components market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Aircraft and Aerospace Aluminum Casting Components market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Aircraft and Aerospace Aluminum Casting Components market.

Global Aircraft and Aerospace Aluminum Casting Components Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

PCC

Howmet Aerospace

Consolidated Precision Products (CPP)

Gaona

Zollern

Impro Precision Industries

China Academy of Machinery Science and Technology (CAM)
Denison Industries

Market Segmentation (by Type)

Sand Casting
Investment Casting
Die Casting

Market Segmentation (by Application)

Aircraft Engine Components
Airframe Components
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Aircraft and Aerospace Aluminum Casting Components Market
Overview of the regional outlook of the Aircraft and Aerospace Aluminum Casting Components Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Aircraft and Aerospace Aluminum Casting Components Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Aircraft and Aerospace Aluminum Casting Components, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to

come
6-month post-sales analyst support

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