Aerospace Additive Manufacturing Market by Platform (Aircraft, Unmanned Aerial Vehicle, Spacecraft), Material Type (Metal Alloy, Plastic, Rubber, and Others), Technology (3D Printing, Laser Sintering, Stereolithography, Fused Deposition Modelling, Electron Beam Melting), Application (Engine, Structural, and Others), and Region 2025-2033

Market Report | 2025-01-10 | 133 pages | IMARC Group

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Report description:

The global aerospace additive manufacturing market size reached USD 5.4 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 19.6 Billion by 2033, exhibiting a growth rate (CAGR) of 15.55% during 2025-2033. Flourishing research and development (R&D) activities and the rising need for lowering carbon footprint through aircraft weight reduction are acting as major factors driving the market towards growth..

Additive manufacturing (AM) refers to the process utilized to manufacture prototypes with 3D computer-aided design (CAD). AM in the aerospace industry is used to manufacture aircraft parts, more efficient engines and 3D-printed turbines. It involves the process of creating an object by building it one layer at a time in precise geometric shapes. Aerospace AM uses various materials for manufacturing parts and components, such as metal alloys, ceramics, plastic, and rubber. It offers improved part performance, reduces weight, cost, and time, and helps to remove design and production constraints. As compared to traditional manufacturing methods, aerospace AM is a commercially viable alternative that facilitates complex geometries and mass customization of parts and reduces raw material wastage.

Aerospace Additive Manufacturing Market Trends:
The increasing demand for manufacturing customized, high-quality parts and components are one of the key factors driving the market growth. Aerospace AM is widely used to produce grips, jigs, and fixtures at low costs. In line with this, the widespread

adoption of AM helps to fabricate parts with premium materials with small production runs and short turnaround times, which is favoring the market growth. Moreover, the rising demand for customized and complex design components is acting as another growth-inducing factor. Aerospace AM helps to achieve complex and customized parts, such as engines, brackets, ducting, and seat belt buckles. Apart from this, the integration of artificial intelligence (AI) with aerospace AM to detect manufacturing errors in real-time, monitor and adjust the 3D printing process and quickly detect geometrical distortions, is providing an impetus to the market growth. Additionally, the increasing utilization of AM in the aerospace industry as it offers a level of precision and helps to attain more intricate designs, which, in turn, is positively influencing the market growth. Furthermore, the escalating demand for AM to reduce the weight of compressor vanes, diffusers, acoustic attenuation devices, and heat exchangers, and deliver complexity and performance targets is facilitating the market growth. The market is also driven by the increasing demand for 3D printed parts or prototype parts from the aerospace industry and extensive research and development (R&D) activities. Other factors, such as rising concerns for reducing carbon footprint through aircraft weight reduction, thus consequently diminishing the fuel requirement, and the rising demand for green manufacturing solutions, are supporting the market growth.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the global aerospace additive manufacturing market, along with forecasts at the global, regional, and country level from 2025-2033. Our report has categorized the market based on platform, material type, technology, and application.

Platform Insights:

Aircraft
Unmanned Aerial Vehicle
Spacecraft

The report has provided a detailed breakup and analysis of the aerospace additive manufacturing market based on the platform. This includes aircraft, unmanned aerial vehicle, and spacecraft. According to the report, aircraft represented the largest segment.

Material Type Insights:

Metal Alloy
Plastic
Rubber
Others

The report has provided a detailed breakup and analysis of the aerospace additive manufacturing market based on the material type. This includes metal alloy, plastic, rubber, and others. According to the report, metal alloy represented the largest segment.

Technology Insights:

3D Printing
Laser Sintering
Stereolithography
Fused Deposition Modelling
Electron Beam Melting

The report has provided a detailed breakup and analysis of the aerospace additive manufacturing market based on the technology. This includes 3D printing, laser sintering, stereolithography, fused deposition modelling, and electron beam melting.

According to the report, 3D printing represented the largest segment.

Application Insights:

Engine
Structural
Others

The report has provided a detailed breakup and analysis of the aerospace additive manufacturing market based on the application. This includes engine, structural, and others. According to the report, engine represented the largest segment.

Regional Insights:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for aerospace additive manufacturing. Some of the factors driving the North America aerospace additive manufacturing market included significant technological advancements, well-established aerospace industry, and the increasing demand for customized and complex design components.

Competitive Landscape:
The report has also provided a comprehensive analysis of the competitive landscape in the global aerospace additive

manufacturing market. Detailed profiles of all major companies have also been provided. Some of the companies covered include 3D Systems Inc., CRP Technology S.r.l., EOS GmbH, General Electric Company, Optomec Inc., SLM Solutions Group AG, Stratasys Ltd., The ExOne Company (Desktop Metal Inc.), etc.

Key Questions Answered in This Report

1. What was the size of the global aerospace additive manufacturing market in 2024?
2. What is the expected growth rate of the global aerospace additive manufacturing market during 2025-2033?
3. What are the key factors driving the global aerospace additive manufacturing market?
4. What has been the impact of COVID-19 on the global aerospace additive manufacturing market?
5. What is the breakup of the global aerospace additive manufacturing market based on the platform?
6. What is the breakup of the global aerospace additive manufacturing market based on the material type?
7. What is the breakup of the global aerospace additive manufacturing market based on the technology?
8. What is the breakup of the global aerospace additive manufacturing market based on the application?
9. What are the key regions in the global aerospace additive manufacturing market?
10. Who are the key players/companies in the global aerospace additive manufacturing market?

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