

# **Aerospace 3D Printing Market by Offerings(Printers, Materials, Services, Software), Technology, Platform(Aircraft, UAVs, Spacecraft), Application(Prototyping, Tooling, Functional Parts), End Product, End User(OEM, MRO), & Region - Global Forecast to 2026**

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## **Abstracts**

The global market for aerospace 3D printing is estimated to be USD 1.9 billion in 2021 and is projected to reach USD 4.7 billion by 2026, at a CAGR of 19.4% during the forecast period. The demand for aerospace 3D printing is projected to be driven by the low volume production of aircraft components in the aerospace industry, rising demand for lightweight components, the need to reduce the production time of components, and the requirement for cost-efficient and sustainable products. The requirement for rapid prototyping is expected to fuel the growth of the aerospace 3D printing market during the forecast period.

COVID-19 has affected almost every industry, especially aerospace. The immediate drop in the demand to manufacture aircraft and disruptions in raw materials have adversely affected the industry. Limitations in cross-border movements, disruptions in manufacturing and transportation, constrained supply chains triggering supply delays, and massive slowdowns in production over the first quarter of 2020 have also affected the industry.

In commercial aviation, companies are experiencing disruptions in production and a slump in demand due to the lack of laborers, less travel by passengers, and customers postponing the delivery of new aircraft. Demand for spare parts is also down as less maintenance is required. According to the Boeing 2019 Q2 report, the revenues for the

first half (H1) 2019 vs. H1 2018 were down 19% and commercial aircraft deliveries for the same time were down 37%.

The printer segment is expected to dominate the segment in the initial years of the forecasted period. The service segment is expected to lead the market by 2026 over the printer segment. The need for cost-efficient custom printing and manufacturing would be one of the factors leading to the growth of the segment. Most companies would outsource additively manufactured parts to 3D printing companies and need extensive after-sales service once the demand for 3D printed parts increases. These factors would lead to the growth of the service segment in the market.

“The Material Extrusion or Fusion Deposition Modeling (FDM) segment is projected to witness the highest CAGR during the forecast period.”

Based on technology, the Material Extrusion or Fusion Deposition Modeling (FDM) segment is expected to dominate the aerospace 3D printing market. The extrusion process is fast and efficient at producing large volumes of continuous shapes in varying lengths with minimum wastage. The ability to manufacture complex shapes with varying thickness, textures, and colors is a major advantage of this process.

“The Aircraft Segment is projected to witness the highest CAGR during the forecast period.”

Based on platform, The aircraft segment is projected to dominate the aerospace 3D printing market, by platform, during the forecast period. The maximum number of developments would occur on an aircraft. The need for lightweight, cost-efficient aircraft and the need for fast manufacturing of complex parts would drive the adoption of 3D printers in aircraft manufacturing.

“The engine component segment is projected to witness the highest market share during the forecast period”

Based on the end products, the engine components segment is witnessing the highest market share for the aerospace 3D printing market during the forecast period. Ease of designing, improved strength, lightweight, and durability of the components manufactured, as well as their cost-effectiveness, contribute to the growth of end products

“The functional parts is projected to witness the highest CAGR during the forecast

period”

Based on application, The prototyping segment is projected to lead the aerospace 3D printing market from 2021 to 2026. However, the functional parts segment is expected to grow at the largest CAGR during the forecast period. The growth of the functional parts segment can be attributed to the advancements in 3D printing technology and the increasing adoption of 3D printers into manufacturing processes across industries.

“The North American market is projected to contribute the largest share from 2021 to 2026”

The North American region is estimated to account for the largest share of 47.7% of the global aerospace 3D printing market in 2021. It is projected to record a CAGR of 18.6% during the forecast period, driven by the increasing adoption of 3D printing technology for manufacturing complex 3D components that are light in weight. Moreover, manufacturers of aircraft components and aircraft are switching to 3D printing technology to produce low-volume parts, thus fueling the growth of the aerospace 3D printing market.

**Breakdown of primaries** The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1–49%; Tier 2–37%; and Tier 3–14%

By Designation: C Level–55%; Directors–27%; and Others–18%

By Region: North America–55%; Europe–27%; Asia Pacific–9%; and Rest of the World–9%

The aerospace 3D printing market is dominated by a few globally established players such as Stratasys Ltd. (U.S.), 3D Systems Corporation (U.S.), EOS GmbH (Germany), Norsk Titanium AS (Norway), Ultimaker B.V. (Netherlands), and EnvisionTec GmbH (Germany),

## Research Coverage

The study covers the aerospace 3D printing market across various segments and

subsegments. It aims at estimating the size and growth potential of this market across different segments based on offerings, technology, platform, end user, end product, application, and region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

### Reasons to Buy this Report

This report is expected to help market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall Aerospace 3D Printing Market and its segments. This study is also expected to provide region wise information about the end use, and wherein Aerospace 3D printers are used. This report aims at helping the stakeholders understand the competitive landscape of the market, gain insights to improve the position of their businesses and plan suitable go-to-market strategies. This report is also expected to help them understand the pulse of the market and provide them with information on key drivers, restraints, challenges, and opportunities influencing the growth of the market.

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