

Global Additive Manufacturing & Material Market Size Study & Forecast, by Technology, by Material (Plastics, Metals, and Ceramics), by Application, and Regional Forecasts 2025–2035

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Abstracts

The Global Additive Manufacturing & Material Market is valued approximately at USD 20.75 billion in 2024 and is anticipated to grow with a striking CAGR of 20.80% over the forecast period 2025–2035. Additive manufacturing, often referred to as 3D printing, has rapidly transformed from a prototyping tool into a full-scale production technology reshaping the global manufacturing landscape. The market's rise is underpinned by advancements in material science, the growing adoption of digital manufacturing, and the accelerating demand for customized and lightweight products across industries. Additive manufacturing enables the creation of complex geometries with minimal waste, offering manufacturers flexibility, efficiency, and sustainability. The rising adoption of smart factories and Industry 4.0 practices has amplified the demand for additive materials such as high-performance plastics, metals, and ceramics, each optimized for precision engineering and end-use functionality.

The surge in industrial adoption is also driven by the need for supply chain resilience and on-demand production capabilities. Industries are shifting toward additive manufacturing to reduce inventory costs, streamline production cycles, and enhance product innovation. According to industry estimates, aerospace, automotive, healthcare, and electronics sectors are leading this digital transformation, leveraging additive manufacturing for both prototyping and large-scale production. In parallel, the development of advanced materials—ranging from biocompatible polymers for medical implants to high-strength alloys for aerospace components—has unlocked new horizons for 3D printing applications. However, high equipment costs, material standardization issues, and limited production speed remain constraints, albeit ones expected to

diminish with ongoing technological advancements and government-backed innovation initiatives.

The detailed segments and sub-segments included in the report are:

By Technology:

Stereolithography (SLA)

Fused Deposition Modeling (FDM)

Selective Laser Sintering (SLS)

Direct Metal Laser Sintering (DMLS)

Electron Beam Melting (EBM)

Others

By Material:

Plastics

Metals

Ceramics

By Application:

Aerospace & Defense

Automotive

Healthcare

Consumer Goods

Industrial Manufacturing

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Metal-Based Materials are Expected to Dominate the Market

Metal-based additive manufacturing materials are anticipated to command the largest share of the global market during the forecast period. These materials are instrumental in producing components with superior strength-to-weight ratios and intricate geometries, particularly within aerospace, automotive, and industrial sectors. The demand for titanium, stainless steel, and aluminum alloys has surged due to their ability to withstand extreme operational conditions and deliver enhanced performance. Furthermore, the integration of metal additive manufacturing into critical production lines has revolutionized maintenance, repair, and overhaul (MRO) operations, enabling companies to manufacture parts on-demand and minimize downtime. Continuous R&D investments in metal powder production and sintering techniques are further consolidating the dominance of this segment.

Plastics Lead in Revenue Contribution

In contrast, plastics continue to lead the additive manufacturing material market in terms of overall revenue. Their widespread availability, versatility, and cost-effectiveness make them ideal for prototyping, tooling, and low-volume production. Thermoplastics like ABS, PLA, and nylon, along with engineering-grade composites, are extensively used in automotive and consumer goods manufacturing. The growing popularity of bio-based and recyclable polymers aligns with global sustainability trends, propelling demand for eco-friendly materials. As companies increasingly adopt polymer-based 3D printing for rapid design iterations and mass customization, plastics are expected to maintain their strong foothold, even as metal applications expand into high-performance domains.

The key regions considered for the Global Additive Manufacturing & Material Market include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America currently dominates the global market, driven by strong adoption across aerospace, defense, and healthcare sectors, as well as robust R&D infrastructure and early technological uptake. Europe closely follows, bolstered by government initiatives encouraging advanced manufacturing and sustainable innovation. Meanwhile, Asia Pacific is projected to witness the fastest growth during 2025–2035, supported by expanding industrial bases in China, Japan, and India, where investments in digital manufacturing and localized production are reshaping traditional manufacturing paradigms. Emerging economies in this region are also fostering strategic collaborations between public and private entities to accelerate 3D printing adoption across automotive and consumer electronics sectors.

Major market players included in this report are:

3D Systems Corporation

Stratasys Ltd.

EOS GmbH

General Electric Company (GE Additive)

HP Inc.

Desktop Metal, Inc.

Materialise NV

Markforged Holding Corporation

Renishaw plc

ExOne Company

Proto Labs, Inc.

SLM Solutions Group AG

Voxeljet AG

Carbon, Inc.

Arkema S.A.

Global Additive Manufacturing & Material Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to

incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained above.

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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