3D Printing Metals Market by Metal Type (Titanium, Aluminum, Steel, Nickel & Cobalt, Other Metal Types), Form (Filaments, Powder), Technology (Powder Bed Fusion, Directed Energy Deposition, Binder Jetting, Metal Extrusion, Other Technologies), End-use Industry (Aerospace & Defense, Automotive, Medical & Dental, Other End-Use Industries), and Region - Global Forecast to 2030

Market Report | 2025-05-29 | 332 pages | MarketsandMarkets

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Report description:

The 3D printing metals market is estimated at USD 1.19 billion in 2025 and is projected to reach USD 3.62 billion by 2030, at a CAGR of 25.0% from 2025 to 2030. The filament segment held the second-largest market share as it is cost-effective, easy to use, and compatible with most commonly found fused deposition modeling (FDM) printers. Metal filaments, like BASF's Ultrafuse 316L, consist of metal powders mixed with a polymer binder, wherein users can create metal parts on standard desktop 3D printers and then debind and sinter them. This type is particularly favored among small to medium-sized manufacturers, educational institutes, and prototyping centers where the low-cost production of metal parts and easy access are important. Increasing interest in distributed manufacturing and material innovation is also driving filament adoption.

"The directed energy deposition segment is projected to be the second-fastest-growing technology during the forecast period." Directed energy deposition (DED) is the second-fastest-growing technology in the 3D printing metals industry because of its unparalleled capabilities to make and fix big, intricate metal parts with high material efficiency. DED is different from other additive processes as it has the ability to utilize both wire feedstock and metal powder and is well-suited for aerospace, defense, and energy applications where part refurbishment and customization are essential. Its capacity to assemble parts directly into existing frameworks, in addition to integration with hybrid CNC systems for precise production, makes it more desirable.

Increasing use of low-cost maintenance, quick prototyping, and metal frameworks at large scales is propelling its faster deployment.

"Automotive is projected to be the second-fastest-growing end-use industry during the forecast period."
The automotive segment is the second fastest-growing market for 3D printing metals due to the increasing demand for high-performance, lightweight components that improve vehicle efficiency and fuel performance. Metal additive manufacturing allows complex shapes and tailored parts that are impossible or challenging to produce using conventional technologies. Automakers apply 3D printing for quick prototyping, tooling, and even production parts in electric cars and high-performance vehicles. Because the automotive industry is moving toward more eco-friendly and adaptable manufacturing processes, 3D printing presents lower material waste, lead time reduction, and increased design freedom, fueling its swift uptake in automotive manufacturing.

"Europe is projected to register the second-highest growth rate in the 3D printing metals market during the forecast period."
Europe will register the second-highest growth in the 3D printing metals industry owing to its strong industrial foundation, high government backing, and high uptake across major industries like aerospace, automotive, and healthcare. Countries such as Germany, the UK, and France are at the forefront of innovation, with high spending on research and development, as well as a commitment to sustainable production practices. The efforts of the European Union in the form of funding initiatives and policies supporting Industry 4.0 have further increased the uptake of metal additive manufacturing technologies. Furthermore, Europe's focus on carbon emissions reduction and building supply chain resilience has encouraged industries to use 3D printing to manufacture lightweight, complex parts locally and cut down on dependence on conventional manufacturing. These factors collectively provide Europe with a strong position and anticipated growth in the global 3D printing metals industry.
This study has been validated through primary interviews with industry experts globally. The primary sources have been divided into the following three categories:
-□By Company Type: Tier 1 - 40%, Tier 2 - 33%, and Tier 3 - 27%
-□By Designation: C-level - 50%, Director-level - 30%, and Managers - 20%
-□By Region: North America - 15%, Europe - 50%, Asia Pacific - 20%, the Middle East & Africa - 10%, and South America - 5%
The report provides a comprehensive analysis of the following companies:
Prominent companies in this market include 3D Systems, Inc. (US), Renishaw plc (UK), Stratasys Ltd. (US), General Electric Company (US), Carpenter Technology Corporation (US), Materialise (Belgium), Sandvik AB (Sweden), EOS GmbH (Germany), Nano Dimension (US), Nikon SLM Solutions AG (Germany), Proto Labs (US), Titomic (Australia), Hoganas AB (Sweden), Forward AM Technologies GmbH (Germany), and Pollen AM Inc. (France).
Research coverage

This research report categorizes the 3D printing metals market by metal type (titanium, aluminum, stainless steel, nickel & cobalt, and other metal types), form (filament and powder), technology (powder bed fusion, directed energy deposition, binder jetting, metal extrusion, and other technologies), end-use industry (aerospace & defense, automotive, medical & dental, and other end-use industries), and region (North America, Europe, Asia Pacific, the Middle East & Africa, and South America). The scope of the report includes detailed information about the major factors influencing the growth of the 3D printing metals market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted in order to provide insights into their business overview, solutions and services, key strategies, and recent developments in the 3D printing metals market. This report includes a competitive analysis of upcoming startups in the 3D printing metals market ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall 3D printing metals market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The

report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.
The report provides insights into the following pointers:

-□Analysis of key drivers (increasing demand from the aerospace & defense industry and mass customization of products with complex design and structures), restraints (limitation on printer size and high metal cost), opportunities (potential to enhance manufacturing and supply chain management and penetration of 3D printing in emerging countries), and challenges (specific material requirement and longer built time) influencing the growth of the 3D printing metals market.

-□Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities, and product launches in the 3D printing metals market.

-□Market Development: Comprehensive information about lucrative markets - the report analyses the 3D printing metals market across varied regions.

-□Market Diversification: Exhaustive information about products, untapped geographies, recent developments, and investments in the 3D printing metals market.

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like 3D Systems, Inc. (US), Renishaw plc (UK), Stratasys Ltd. (US), General Electric Company (US), Carpenter Technology Corporation (US), Materialise (Belgium), Sandvik AB (Sweden), EOS GmbH (Germany), Nano Dimension (US), Nikon SLM Solutions AG (Germany), Proto Labs (US), Titomic (Australia), Hoganas AB (Sweden), Forward AM Technologies GmbH (Germany), and Pollen AM Inc. (France) in the 3D printing metals market.

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