

# 3D Titanium Technology Market Size Worth USD 4.57 Billion by 2027 – Reports and Data

*Increasing demand for Electronic Beam Transfer technology in 3D titanium printing, coupled with high investments in R&D of market, are fueling market growth*

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The Global [3D Titanium Technology Market](#) is forecast to reach USD 4.57

Billion by 2027, according to a new

report by Reports and Data. Titanium is a transition metal with a unique shiny silver color and high strength to density. The metal is exceptionally resistant to corrosion caused by aqua regia, seawater, and chlorine. The optimum metallurgical properties of this metal makes it an ideal metal for various industrial applications. Now, 3D printing has been a widely used additive manufacturing process of various metals. 3D titanium technology is being highly preferred in multiple end-use verticals due to the similar strength like steel with lesser density in titanium, and technological advancements in 3D printing technology. The continuous expansion of the 3D printed titanium aircraft & marine apparatus, consumer products, artificial medical & dental implants is expected to drive the demand throughout the forecast period.

North America due to its highest implementation of titanium 3D printing technology in healthcare and aerospace industries, is dominating the market. Asia Pacific region is forecasted to grow the fastest in the period 2019 – 2027, owing to high market penetration for the 3D titanium technology, especially in regions like China and India.

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Key participants include 3D Systems, Carpenter Technology Corporation, Voxeljet AG, EOS GmbH Electro Optical Systems, Materialise NV, The ExOne Company, Renishaw PLC, General Electric, Stratasys, Ltd., and SI-BONE, among others.

Further key findings from the report suggest

- In aerospace industries, 3D titanium technology is incorporated to manufacture airframe &



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wing structures, smaller apparatus like compressor blades, turbine engine components, and rotors, to name a few owing to the chemical properties such as corrosion resistance, high strength to weight ratio and high-temperature resistance of titanium. The high-performance aircrafts made using 3D titanium technology are utilized in the defense operation in different countries. The aerospace & defense sub-segment is growing at a CAGR of 32.1% during the forecast period.

- Titanium has been used in the medical industries for decades and recent technological advancements with 3D titanium technology have made possible a wide range of special implants in procedures due to its flexibility in design. Dental implants, limbs, hips, and bones are some of the common use of this technology in healthcare industries. This sub-segment is expected to get a CAGR of 32.8% throughout the forecast period.

- Europe would reach a market share of 24.5% by 2027 and would grow at a CAGR of 30.5% in the forecast period. Germany has some of the valuable players in this region.

- North America is forecasted to retain its dominance in the overall market, with 35.7% of market possession by 2027 and CAGR of 31.7% during the forecast period. The US possesses the highest market share in this region and some of the vital players in the market.

- In June 2017, SI-BONE, a medical device company based in California, United States, announced its FDA clearance of 3D printed titanium implant named iFuse-3D Implant and made available for its commercial usage in the United States. iFuse-3D Implant was the first-ever invented 3D titanium implant for the sacroiliac joint.

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For the purpose of this report, Reports and Data have segmented the global 3D titanium technology market on the basis of the form, printing technology, applications, and region:

Form Outlook (Revenue: USD Million; Volume: Kilo Tons; 2016-2027)

- Powder
- Liquid
- Filament

Printing Technology Outlook (Revenue: USD Million; Volume: Kilo Tons; 2016-2027)

- Direct Metal Laser Sintering (DMLS)
- Electronic Beam Transfer (EBM)

Applications Outlook (Revenue: USD Million; Volume: Kilo Tons; 2016-2027)

- Aerospace & Defense
- Automotive & Marine
- Healthcare Industries

- Consumer Products
- Others

The research study includes an in-depth analysis of the market using advanced research methodologies such as SWOT analysis and Porter's Five Forces analysis. The report further explores the key business players along with their in-depth profiling, product portfolio, and strategic business decisions. The report has been formulated through extensive primary and secondary research and further validated by analysts, industry experts, and market professionals. The report also sheds light on the recent mergers and acquisitions, joint ventures, collaborations, partnerships, and product launches, among others.

Regional analysis covers assessment of import/export, production and consumption ratio, supply and demand, cost, price, estimated revenue and gross margins, and presence of key players in the region. The report also offers insights about revenue growth, market size, market share, technological advancements, and presence of key players in each region.

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Regional Bifurcation of the 3D Titanium Technology Market Includes:

- North America (U.S., Canada, Mexico)
- Europe (U.K., Italy, Germany, France, Rest of Europe)
- Asia Pacific (India, Japan, China, South Korea, Australia, Rest of APAC)
- Latin America (Chile, Brazil, Argentina, Rest of Latin America)
- Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

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