

# **Global 3D Printing Metals Market Size study, by Form (Powder, Filament), Technology (PBF, DED, Binder Jetting, Metal Extrusion), Metal Type (Titanium, Nickel, Stainless Steel, Aluminum), End-Use Industry (A&D, Automotive, Medical & Dental) and Regional Forecasts 2020-2027**

<https://marketpublishers.com/r/GD5C52833C3CEN.html>

Date: October 2020

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GD5C52833C3CEN

## **Abstracts**

Global 3D Printing Metals Market is valued approximately USD 0.77 billion in 2019 and is anticipated to grow with a healthy growth rate of more than 32.5 % over the forecast period 2020-2027. 3D metal printing is also known as the processing of metal additives. This is a manufacturing technology which is used to manufacture complex structures and smaller designs. The introduction of 3D metal printing has helped manufacturers to easily design and develop complex structures that would not have been possible without conventional production techniques being used such as covering the conducting lead grid with a paste formed from a mixture of powdered lead and lead oxide, additives and sufficient quantities of acid and water to achieve the necessary density, followed by a reduction of the sulfated mixture to the porous mass of the lead. 3D metal printing is a manufacturing technique in which manufacturing is carried out layer by layer and, thus, production precision is often improved to a higher degree. Most generally, this method needs only metal powder that can be used as per the manufacturers' specifications to produce different parts and components. Special machines that are capable of creating such complex structures are available. They must, however, be run under human supervision. The use of powder metals to make goods has made it possible for manufacturers to use many kinds of metals and their alloys. The permutation and combination of many metals has thus made it possible for factories to manufacture goods that are more durable, economical and suitable for different industrial and commercial applications. The market is driven by mass customization of products with

complex design and structure, low manufacturing costs, reduction in lead times, reduction in waste generation during production, growing demand from the aerospace & defense and automotive industries. The key players of global 3D Printing metals market have adopted various strategies to gain competitive advantage including product launch, mergers and acquisition, partnerships and agreements, investment, funding and others. For instance, In November 2019, Renishaw plc partnered with Sandvik Additive Manufacturing to qualify for production applications with new additive manufacturing (AM) products. These products include a variety of metal powders and new compositions of alloys that can be tailored for the process and superior material properties of the laser powder bed fusion (LPBF) process. Renishaw plc has been creating new metal products for 3D printing with this partnership. Also, In February 2019, Booster, Orbex, and ArianeGroup announced their success in the development of AM process rocket engines. Relativity Space has signed an agreement with NASA in another contract to start a robotic factory using additive manufacturing. However, printer size restriction and high cost of metal could restrain the market growth.

The regional analysis of global 3D Printing Metals Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. North America is the leading/significant region across the world in terms growing demand from the aerospace & defense and automotive industries. Whereas, Asia-Pacific is also anticipated to exhibit highest growth rate / CAGR over the forecast period 2020-2027. Factors such Mass customization of products with complex design and structure, low manufacturing costs, reduction in lead times, reduction in waste generation during production would create lucrative growth prospects for the 3D Printing Metals Market across Asia-Pacific region.

Major market player included in this report are:

3D Systems Corporation

Renishaw PLC

Stratasys LTD.

General Electric Company

Carpenter Technology Corporation

Materialise NV

Voxeljet AG

Sandvik AB

EOS GmbH Electro Optical Systems

The ExOne Company

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

designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Powder Bed Fusion

Directed Energy Deposition

Binder Jetting

Metal Extrusion

Others (Digital Light Projector, Multi-jet Fusion, and Material Jetting)

By Form:

Powder

Filament

By Metal Type:

Titanium

Nickel

Stainless Steel

Aluminum

Others (Cobalt-chrome, Copper, Silver, Gold, and Bronze)

By End user:

Aerospace & Defense

Automotive

Medical & Dental

Others (Marine, Art & Sculpture, Jewelry, and Architecture)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific  
China  
India  
Japan  
Australia  
South Korea  
RoAPAC  
Latin America  
Brazil  
Mexico  
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2017, 2018  
Base year – 2019  
Forecast period – 2020 to 2027

Target Audience of the Global 3D Printing Metals Market in Market Study:

Key Consulting Companies & Advisors  
Large, medium-sized, and small enterprises  
Venture capitalists  
Value-Added Resellers (VARs)  
Third-party knowledge providers  
Investment bankers  
Investors

## Contents

### **CHAPTER 1. EXECUTIVE SUMMARY**

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2018-2027 (USD Billion)
  - 1.2.1. 3D Printing Metals Market, by Region, 2018-2027 (USD Billion)
  - 1.2.2. 3D Printing Metals Market, by Technology, 2018-2027 (USD Billion)
  - 1.2.3. 3D Printing Metals Market, by Form, 2018-2027 (USD Billion)
  - 1.2.4. 3D Printing Metals Market, by Metal Type, 2018-2027 (USD Billion)
  - 1.2.5. 3D Printing Metals Market, by End user, 2018-2027 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### **CHAPTER 2. GLOBAL 3D PRINTING METALS MARKET DEFINITION AND SCOPE**

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Scope of the Study
  - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### **CHAPTER 3. GLOBAL 3D PRINTING METALS MARKET DYNAMICS**

- 3.1. 3D Printing Metals Market Impact Analysis (2018-2027)
  - 3.1.1. Market Drivers
  - 3.1.2. Market Challenges
  - 3.1.3. Market Opportunities

### **CHAPTER 4. GLOBAL 3D PRINTING METALS MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry

- 4.1.6. Futuristic Approach to Porter's 5 Force Model (2017-2027)
- 4.2. PEST Analysis
  - 4.2.1. Political
  - 4.2.2. Economical
  - 4.2.3. Social
  - 4.2.4. Technological
- 4.3. Investment Adoption Model
- 4.4. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL 3D PRINTING METALS MARKET, BY TECHNOLOGY**

- 5.1. Market Snapshot
- 5.2. Global 3D Printing Metals Market by Technology, Performance - Potential Analysis
- 5.3. Global 3D Printing Metals Market Estimates & Forecasts by Technology 2017-2027 (USD Billion)
- 5.4. 3D Printing Metals Market, Sub Segment Analysis
  - 5.4.1. Powder Bed Fusion
  - 5.4.2. Directed Energy Deposition
  - 5.4.3. Binder Jetting
  - 5.4.4. Metal Extrusion
  - 5.4.5. Others (Digital Light Projector, Multi-jet Fusion, and Material Jetting)

## **CHAPTER 6. GLOBAL 3D PRINTING METALS MARKET, BY FORM**

- 6.1. Market Snapshot
- 6.2. Global 3D Printing Metals Market by Form, Performance - Potential Analysis
- 6.3. Global 3D Printing Metals Market Estimates & Forecasts by Form 2017-2027 (USD Billion)
- 6.4. 3D Printing Metals Market, Sub Segment Analysis
  - 6.4.1. Powder
  - 6.4.2. Filament

## **CHAPTER 7. GLOBAL 3D PRINTING METALS MARKET, BY METAL TYPE**

- 7.1. Market Snapshot
- 7.2. Global 3D Printing Metals Market by Metal Type, Performance - Potential Analysis
- 7.3. Global 3D Printing Metals Market Estimates & Forecasts by Metal Type 2017-2027 (USD Billion)
- 7.4. 3D Printing Metals Market, Sub Segment Analysis

- 7.4.1. Titanium
- 7.4.2. Nickel
- 7.4.3. Stainless Steel
- 7.4.4. Aluminum
- 7.4.5. Others (Cobalt-chrome, Copper, Silver, Gold, and Bronze)

## **CHAPTER 8. GLOBAL 3D PRINTING METALS MARKET, END USER**

- 8.1. Market Snapshot
- 8.2. Global 3D Printing Metals Market by End user, Performance - Potential Analysis
- 8.3. Global 3D Printing Metals Market Estimates & Forecasts by End user 2017-2027 (USD Billion)
- 8.4. 3D Printing Metals Market, Sub Segment Analysis
  - 8.4.1. Aerospace & Defense
  - 8.4.2. Automotive
  - 8.4.3. Medical & Dental
  - 8.4.4. Others (Marine, Art & Sculpture, Jewelry, and Architecture)

## **CHAPTER 9. GLOBAL 3D PRINTING METALS MARKET, REGIONAL ANALYSIS**

- 9.1. 3D Printing Metals Market, Regional Market Snapshot
- 9.2. North America 3D Printing Metals Market
  - 9.2.1. U.S. 3D Printing Metals Market
    - 9.2.1.1. Technology breakdown estimates & forecasts, 2017-2027
    - 9.2.1.2. Form breakdown estimates & forecasts, 2017-2027
    - 9.2.1.3. Metal Type breakdown estimates & forecasts, 2017-2027
    - 9.2.1.4. End user breakdown estimates & forecasts, 2017-2027
  - 9.2.2. Canada 3D Printing Metals Market
- 9.3. Europe 3D Printing Metals Market Snapshot
  - 9.3.1. U.K. 3D Printing Metals Market
  - 9.3.2. Germany 3D Printing Metals Market
  - 9.3.3. France 3D Printing Metals Market
  - 9.3.4. Spain 3D Printing Metals Market
  - 9.3.5. Italy 3D Printing Metals Market
  - 9.3.6. Rest of Europe 3D Printing Metals Market
- 9.4. Asia-Pacific 3D Printing Metals Market Snapshot
  - 9.4.1. China 3D Printing Metals Market
  - 9.4.2. India 3D Printing Metals Market
  - 9.4.3. Japan 3D Printing Metals Market

- 9.4.4. Australia 3D Printing Metals Market
- 9.4.5. South Korea 3D Printing Metals Market
- 9.4.6. Rest of Asia Pacific 3D Printing Metals Market
- 9.5. Latin America 3D Printing Metals Market Snapshot
  - 9.5.1. Brazil 3D Printing Metals Market
  - 9.5.2. Mexico 3D Printing Metals Market
- 9.6. Rest of The World 3D Printing Metals Market

## **CHAPTER 10. COMPETITIVE INTELLIGENCE**

- 10.1. Top Market Strategies
- 10.2. Company Profiles
  - 10.2.1. Renishaw PLC
    - 10.2.1.1. Key Information
    - 10.2.1.2. Overview
    - 10.2.1.3. Financial (Subject to Data Availability)
    - 10.2.1.4. Product Summary
    - 10.2.1.5. Recent Developments
  - 10.2.2. 3D Systems Corporation
  - 10.2.3. Stratasys LTD.
  - 10.2.4. General Electric Company
  - 10.2.5. Carpenter Technology Corporation
  - 10.2.6. Materialise NV
  - 10.2.7. Voxeljet AG
  - 10.2.8. Sandvik AB
  - 10.2.9. EOS GmbH Electro Optical Systems
  - 10.2.10. The ExOne Company

## **CHAPTER 11. RESEARCH PROCESS**

- 11.1. Research Process
  - 11.1.1. Data Mining
  - 11.1.2. Analysis
  - 11.1.3. Market Estimation
  - 11.1.4. Validation
  - 11.1.5. Publishing
- 11.2. Research Attributes
- 11.3. Research Assumption





## List Of Tables

### LIST OF TABLES

TABLE 1. GLOBAL 3D PRINTING METALS MARKET, REPORT SCOPE

TABLE 2. GLOBAL 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY REGION 2017-2027 (USD BILLION)

TABLE 3. GLOBAL 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY TECHNOLOGY 2017-2027 (USD BILLION)

TABLE 4. GLOBAL 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY METAL TYPE 2017-2027 (USD BILLION)

TABLE 5. GLOBAL 3D PRINTING METALS MARKET BY SEGMENT, ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 6. GLOBAL 3D PRINTING METALS MARKET BY REGION, ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 7. GLOBAL 3D PRINTING METALS MARKET BY SEGMENT, ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 8. GLOBAL 3D PRINTING METALS MARKET BY REGION, ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 9. GLOBAL 3D PRINTING METALS MARKET BY SEGMENT, ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 10. GLOBAL 3D PRINTING METALS MARKET BY REGION, ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 11. GLOBAL 3D PRINTING METALS MARKET BY SEGMENT, ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 12. GLOBAL 3D PRINTING METALS MARKET BY REGION, ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 13. GLOBAL 3D PRINTING METALS MARKET BY SEGMENT, ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 14. GLOBAL 3D PRINTING METALS MARKET BY REGION, ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 15. U.S. 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 16. U.S. 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 17. U.S. 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 18. CANADA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 19. CANADA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 20. CANADA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 21. UK 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 22. UK 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 23. UK 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 24. GERMANY 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 25. GERMANY 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 26. GERMANY 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 27. ROE 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 28. ROE 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 29. ROE 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 30. CHINA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 31. CHINA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 32. CHINA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 33. INDIA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 34. INDIA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 35. INDIA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 36. JAPAN 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 37. JAPAN 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 38. JAPAN 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY

SEGMENT 2017-2027 (USD BILLION)

TABLE 39. ROAPAC 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 40. ROAPAC 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 41. ROAPAC 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 42. BRAZIL 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 43. BRAZIL 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 44. BRAZIL 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 45. MEXICO 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 46. MEXICO 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 47. MEXICO 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 48. ROLA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 49. ROLA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 50. ROLA 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 51. ROW 3D PRINTING METALS MARKET ESTIMATES & FORECASTS, 2017-2027 (USD BILLION)

TABLE 52. ROW 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 53. ROW 3D PRINTING METALS MARKET ESTIMATES & FORECASTS BY SEGMENT 2017-2027 (USD BILLION)

TABLE 54. LIST OF SECONDARY SOURCES, USED IN THE STUDY OF GLOBAL 3D PRINTING METALS MARKET

TABLE 55. LIST OF PRIMARY SOURCES, USED IN THE STUDY OF GLOBAL 3D PRINTING METALS MARKET

TABLE 56. YEARS CONSIDERED FOR THE STUDY

TABLE 57. EXCHANGE RATES CONSIDERED

## List Of Figures

### LIST OF FIGURES

FIG 1. GLOBAL 3D PRINTING METALS MARKET, RESEARCH METHODOLOGY

FIG 2. GLOBAL 3D PRINTING METALS MARKET, MARKET ESTIMATION  
TECHNIQUES

FIG 3. GLOBAL MARKET SIZE ESTIMATES & FORECAST METHODS

FIG 4. GLOBAL 3D PRINTING METALS MARKET, KEY TRENDS 2019

FIG 5. GLOBAL 3D PRINTING METALS MARKET, GROWTH PROSPECTS  
2020-2027

FIG 6. GLOBAL 3D PRINTING METALS MARKET, PORTERS 5 FORCE MODEL

FIG 7. GLOBAL 3D PRINTING METALS MARKET, PEST ANALYSIS

FIG 8. GLOBAL 3D PRINTING METALS MARKET, VALUE CHAIN ANALYSIS

FIG 9. GLOBAL 3D PRINTING METALS MARKET BY SEGMENT, 2017 & 2027 (USD  
BILLION)

FIG 10. GLOBAL 3D PRINTING METALS MARKET BY SEGMENT, 2017 & 2027 (USD  
BILLION)

FIG 11. GLOBAL 3D PRINTING METALS MARKET BY SEGMENT, 2017 & 2027 (USD  
BILLION)

FIG 12. GLOBAL 3D PRINTING METALS MARKET BY SEGMENT, 2017 & 2027 (USD  
BILLION)

FIG 13. GLOBAL 3D PRINTING METALS MARKET BY SEGMENT, 2017 & 2027 (USD  
BILLION)

FIG 14. GLOBAL 3D PRINTING METALS MARKET, REGIONAL SNAPSHOT 2017 &  
2027

FIG 15. NORTH AMERICA 3D PRINTING METALS MARKET 2017 & 2027 (USD  
BILLION)

FIG 16. EUROPE 3D PRINTING METALS MARKET 2017 & 2027 (USD BILLION)

FIG 17. ASIA PACIFIC 3D PRINTING METALS MARKET 2017 & 2027 (USD BILLION)

FIG 18. LATIN AMERICA 3D PRINTING METALS MARKET 2017 & 2027 (USD  
BILLION)

FIG 19. GLOBAL 3D PRINTING METALS MARKET, COMPANY MARKET SHARE  
ANALYSIS (2019)



## I would like to order

Product name: Global 3D Printing Metals Market Size study, by Form (Powder, Filament), Technology (PBF, DED, Binder Jetting, Metal Extrusion), Metal Type (Titanium, Nickel, Stainless Steel, Aluminum), End-Use Industry (A&D, Automotive, Medical & Dental) and Regional Forecasts 2020-2027

Product link: <https://marketpublishers.com/r/GD5C52833C3CEN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GD5C52833C3CEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970