

Metal Materials for 3D Printing Market By form type (powder and filament); By metal type (titanium, aluminum, nickel, stainless steel and others); By end user (medical, automotive, aerospace and defense and others); and Region –Analysis of Market Size, Share and Trends for 2014 – 2019 and Forecasts to 2030

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Abstracts

Product Overview

3D Metal printing is also known as metal additive production. This is a fabrication technique used to manufacture complex structures and smaller designs. The invention of 3D printing metal has helped manufacturers ease the design and construction of complex structures that would not have been possible without the use of traditional production techniques. 3D printing metal is a manufacturing technique in which processing is carried out layer by layer and, thus; output precision is often improved to a higher degree. Most generally, this technique needs only metal powder that can be used to manufacture different parts and components according to the producers' requirements. Special machines exist that are capable of generating such complex structures. They have to work under human control though.

Market Highlights

The Metal Materials for 3D Printing Market size was registered at USD XX billion in 2019 and is estimated to reach USD XX billion by 2030, registering a CAGR of XX% from 2020 to 2030. The growth of the global demand for 3D printing metals is mainly due to their rising use in the aerospace and automotive industries. 3D printing in aircraft manufacturing enables the manufacture of highly complex, lightweight structures. In the automotive industry, it helps design automotive components with complex geometries,

which is difficult using conventional methods. Furthermore, the growing use of 3D printing metals in the healthcare industry in the manufacture of medical implants is also expected to fuel global market growth over the forecast period. It also helps design implants that suit the patient's anatomy perfectly; it is quicker and more affordable than conventional approaches.

Source: Fatpos Global

Metal Materials for 3D Printing Market: Segments

Metal Materials for 3D Printing Market is segmented based on the form type, metal type, end-user, and region.

By form type (in %), Metal Materials for 3D Printing Market, 2019

The powder type segment is anticipated to register XX% of the market share during the forecasted period.

By form type, the market can be segmented into powder and filament.

Owing to substantial technological advancement in the field of metal printers, the powder segment is expected to rise significantly.

By metal type (in %), Metal Materials for 3D Printing Market, 2019

The titanium segment accounted for XX% of the nation's volume in 2019

The metal type segment can be classified into titanium, aluminum, nickel, stainless steel, and others. Titanium is expected to be experiencing rapid growth due to superior mechanical properties, production precision, and early product acceptance in the aerospace and defense, and medical industries.

By end-user (in %), Metal Materials for 3D Printing Market, 2019

The aerospace and defense segment is anticipated to register XX% of the market share during the forecasted period.

By end-user, the market can be segmented into medical, automotive, aerospace and defense, and others.

In the forecast period, the aerospace and defense sector will dominate the industry. Because of the wider variety of use in military aircraft, aircraft engines, commercial aircraft, complex weapon systems, weapons of high volume, and components of munitions. Due to the growing use of the technology in medical implants, medical instruments, and surgical equipment like crowns & bridges, model castings, and abutments, the medical sector also accounted for more than one-third of the 3D metal print industry.

The region segment can be further divided into five major types including North America, Latin America, Europe, APAC, and MENA.

Metal Materials for 3D Printing Market Dynamics:

High demand for applications and environmental concerns to increase the market growth. The growth of the global demand for 3D printing metals is mainly due to their rising use in the aerospace and automotive industries. 3D printing in aircraft manufacturing enables the manufacture of highly complex, lightweight structures. In the automotive industry, it helps design automotive components with complex geometries, which is difficult using conventional methods. Furthermore, the growing use of 3D printing metals in the healthcare industry in the manufacture of medical implants is also expected to fuel global market growth over the forecast period. It also helps design implants that suit the patient's anatomy perfectly; it is quicker and more affordable than conventional approaches.

Limited applications and availability of substitutes to hinder the market growth

The high cost of the materials is expected to be the main factor that hampers global development. During the process, a large amount of energy is needed, and labor-intensive. Also, the extraction process is complicated and requires high energy consumption, leading to an increase in titanium prices. The titanium also has a high melting point, the temperature needed for this process is extremely high, and the conversion of the metal to ingots accounts for around 30 percent of the entire process's cost which hinders the market growth.

Metal Materials for 3D Printing Market: Regions

In terms of value and volume, APAC accounted for XX% of total market volume share in 2019

With a large share, the Asia-Pacific market dominated the global demand for 3D printing metals and is projected to be the fastest-growing market during the forecast era.

Growing investment in the region's building and development, healthcare, and consumer electronics industries is expected to propel regional demand growth over the forecast period. China is the world's leading producer and consumer of 3D printing metals. In Asia-Pacific, the market for 3D printing metals is relatively strong compared with other regions. Market growth for Asia-Pacific is also due to the emergence of developing countries like India and China. The main reason behind the growth of the market for 3D printing metals is that these countries are rising at a rapid pace in terms of population and economy, resulting in per capita consumption growth in the end.

The region segment can be further divided into five major types including North America, Latin America, Europe, APAC, and MENA.

Source: Fatpos Global

The Metal Materials for 3D Printing Market is further segmented by region into:
North America Market Size, Share, Trends, Opportunities-o-Y Growth, CAGR – the United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

APAC Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC

MENA Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

Metal Materials for 3D Printing Market: Competitive landscape

As more companies gain market access, the global market is experiencing greater competition. The advanced manufacturing supply chain is currently characterized by a large number of suppliers of 3D printers, while the availability of raw materials, such as powders, is lacking. The main strategy embraced by industry players is new product production through significant R&D investments.

Metal Materials for 3D Printing Market: Key players

3D Systems Corporation

Business Strategy

Key Product Offerings

Financial Performance

Key Performance Indicators

Risk Analysis

Recent Development

Regional Presence

SWOT Analysis

Renishaw PLC

Arcam AB

Hoganas AB

Voxeljet AG

Carpenter Technology Corporation

GKN PLC

Sankdvik AB

Eos Gmbh Elctro Optical Systems

Other prominent players

Metal Materials for 3D Printing Market report also contains analysis on:

Metal Materials for 3D Printing Market segments:-

By form type:

Powder

Filament

By metal type:

Titanium

Aluminum

Nickel

Stainless Steel

Others

By end-user:

Medical

Automotive

Aerospace and Defense

Others

Metal Materials for 3D Printing Market dynamics

Metal Materials for 3D Printing Market size

Supply & Demand

Current Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

Contents

1. EXECUTIVE SUMMARY

2. METAL MATERIALS FOR 3D PRINTING MARKET

- 2.1. Product Overview
- 2.2. Market Definition
- 2.3. Segmentation
- 2.4. Assumptions and Acronyms

3. RESEARCH METHODOLOGY

- 3.1. Research Objectives
- 3.2. Primary Research
- 3.3. Secondary Research
- 3.4. Forecast Model
- 3.5. Market Size Estimation

4. AVERAGE PRICING ANALYSIS

5. MARKET DYNAMICS

- 5.1. Growth Drivers
- 5.2. Restraints
- 5.3. Opportunity
- 5.4. Trends

6. CORRELATION & REGRESSION ANALYSIS

- 6.1. Correlation Matrix
- 6.2. Regression Matrix

7. RECENT DEVELOPMENT, POLICIES & REGULATORY LANDSCAPE

8. RISK ANALYSIS

- 8.1. Demand Risk Analysis
- 8.2. Supply Risk Analysis

9. METAL MATERIALS FOR 3D PRINTING MARKET ANALYSIS

9.1. Porters Five Forces

- 9.1.1. Threat of New Entrants
- 9.1.2. Bargaining Power of Suppliers
- 9.1.3. Threat of Substitutes
- 9.1.4. Rivalry

9.2. PEST Analysis

- 9.2.1. Political
- 9.2.2. Economic
- 9.2.3. Social
- 9.2.4. Technological

10. METAL MATERIALS FOR 3D PRINTING MARKET

10.1. Market Size & forecast, 2019A-2030F

- 10.1.1. By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F
- 10.1.2. By Volume (Million Units) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

11. METAL MATERIALS FOR 3D PRINTING MARKET: MARKET SEGMENTATION

11.1. By Regions

11.1.1.

11.1.1.1. North America:(U.S. and Canada) By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

11.1.1.2. Latin America: (Brazil, Mexico, Argentina, Rest of Latin America) By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

11.1.1.3. Europe: (Germany, UK, France, Italy, Spain, BENELUX, NORDIC, Hungary, Poland, Turkey, Russia, Rest of Europe) By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

11.1.1.4. Asia-Pacific: (China, India, Japan, South Korea, Indonesia, Malaysia, Australia, New Zealand, Rest of Asia Pacific) By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

11.1.1.5. Middle East and Africa: (Israel, GCC, North Africa, South Africa, Rest of Middle East and Africa) By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

12. METAL MATERIALS FOR 3D PRINTING MARKET: MARKET SEGMENTATION

Metal Materials for 3D Printing Market By form type (powder and filament); By metal type (titanium, aluminum,...

12.1. By form type: Market Share (2020-2030F)

12.1.1. Powder, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

12.1.2. Filament, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

12.2. By application : Market Share (2020-2030F)

12.2.1. titanium, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

12.2.2. aluminum, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

12.2.3. nickel, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

12.2.4. stainless steel, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%)

2020-2030F

12.2.5. Others, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

12.3. By Technology: Market Share (20q0-2030F)

12.3.1. medical, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

12.3.2. automotive, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%)

2020-2030F

12.3.3. aerospace and defense, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

12.3.4. Others, By Value (USD Million) 2019-2030F; Y-o-Y Growth (%) 2020-2030F

13. COMPANY PROFILE

13.1. 3D Systems Corporation

13.1.1. Company Overview

13.1.2. Company Total Revenue (Financials)

13.1.3. Market Potential

13.1.4. Global Presence

13.1.5. Key Performance Indicators

13.1.6. SWOT Analysis

13.1.7. Product Launch

13.2. Renishaw PLC

13.3. Arcam AB

13.4. Hognas AB

13.5. Voxeljet AG

13.6. Carpenter Technology Corporation

13.7. GKN PLC

13.8. Sankd vik AB

13.9. Eos Gmbh Elctro Optical Systems

13.10. Other prominent players

Consultant Recommendation

**The above-given segmentation and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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