

# 3D Printing Medical Device Market: Trends, Forecast and Competitive Analysis [2024-2030]

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## Abstracts

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### 3D Printing Medical Device Market Trends and Forecast

The future of the global 3D printing medical device market looks promising with opportunities in the medical & surgical centers, pharmaceutical & biotechnology, and academic institutions. The global 3D printing medical device market is expected to reach an estimated \$4.5 billion by 2030 with a CAGR of 9.7% from 2024 to 2030. The major drivers for this market are technological advancements, rising prevalence of osteoarthritis, and increasing public-private funding for 3D printing activities.

### Emerging Trends in 3D Printing Medical Device Market

Emerging trends which have a direct impact on the dynamics of the 3D printing medical device industry include usage of human tissues in medical 3d printing and introduction of titanium in 3D printing of medical implants.

A total of 135 figures / charts and 118 tables are provided in this 271-page report to help in your business decisions. Sample figures with some insights are shown below.

### 3D Printing Medical Device Market by Segment

The study includes trends and forecast for the 3D printing medical device market by technology, component, application, end use, and region as follows:

### 3D Printing Medical Device Market by Technology [Value (\$ Million) from 2018 – 2030]:

Laser Beam Melting

Photo Polymerization

Electron Beam Melting

Droplet Deposition

Three-Dimensional Printing (3DP)

3D Printing Medical Device Market by Component [Value (\$ Million) from 2018 – 2030]:

Equipment

Materials

o Plastics

o Ceramic

o Metal

Software & Services

Others

3D Printing Medical Device Market by Application [Value (\$ Million) from 2018 – 2030]:

Surgical Guides

Surgical Instruments

Prosthetics and Implants

Tissue Engineering Products

Others

3D Printing Medical Device Market by End Use [Value (\$ Million) from 2018 - 2030]:

Surgical Centers

Pharmaceutical & Biotechnology

Academic Institutions

3D Printing Medical Device Market by Region [Value (\$ Million) from 2018 – 2030]:

North America

o United States

o Canada

o Mexico

Europe

o United Kingdom

o Germany

o France

o Spain

o Italy

Asia Pacific

o China

o Japan

o India

The Rest of the World

o Brazil

### List of 3D Printing Medical Device Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies, 3D printing medical device companies cater to increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the 3D printing medical device companies profiled in this report include-

3D Systems Corporation

Stratasys

GE Healthcare

Materialise NV

Renishaw

### 3D Printing Medical Device Market Insights

Lucintel forecasts that the photo polymerization technology based 3D printing market is expected to witness the highest growth over the forecast period due to the widespread application of this technology across the medical industry, such as manufacturing surgical guides (orthopedic and dental), prosthetics and implants, porous scaffolds, and dental restorations.

Within the 3D printing technology market, equipment, materials, and software & services are major component type. The software & services market is expected to witness the highest growth due to the advent of ongoing technological advancements in software solutions to produce high-quality 3D printed medical products.

North America is expected to remain the largest market during the forecast period mainly due to the rapid adoption of this technology, established medical infrastructure, and ongoing R&D activities. APAC is likely to witness the highest growth over the forecast period due to establishment of new 3D printing research, training, and education centers and growing efforts by leading market players for expanding their distribution networks in emerging Asian countries.

## Features of 3D Printing Medical Device Market

**Market Size Estimates:** 3D printing medical device market size estimation in terms of value (\$M).

**Trend and Forecast Analysis:** Market trends (2018 – 2023) and forecast (2024-2030) by various segments and regions.

**Segmentation Analysis:** 3D printing medical device market size by various segments, such as technology, component, application, and end use.

**Regional Analysis:** 3D printing medical device market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

**Growth Opportunities:** Analysis on growth opportunities in different technologies, components, applications, end uses, and regions for 3D printing medical device market.

**Strategic Analysis:** This includes M&A and competitive landscape for the 3D printing medical device market.

**Analysis of competitive intensity of the industry based on Porter's Five Forces model.**

## FAQ

Q1. What is the 3D printing medical device market size?

Answer: The global 3D printing medical device market is expected to reach an estimated \$4.5 billion by 2030.

Q2. What is the growth forecast for 3D printing medical device market?

Answer: The 3D printing medical device market is expected to grow at a CAGR of 9.7% from 2024 to 2030.

Q3. What are the major drivers influencing the growth of the 3D printing medical device market?

Answer: The major drivers for this market are technological advancements, rising prevalence of osteoarthritis, and increasing public-private funding for 3D printing activities.

Q4. What are the major end uses for the 3D printing medical device market?

Answer: Surgical centers, pharmaceutical & biotechnology, and academic institutions are the major end uses of 3D printing medical devices.

Q5. What are the emerging trends in the 3D printing medical device market?

Answer: Emerging trends which have a direct impact on the dynamics of the 3D printing medical device industry include the usage of human tissues in medical 3D printing and introduction of titanium in 3D printing of medical implants.

Q6. Who are the key 3D printing medical device companies?

Answer: Some of the key 3D printing medical device companies are as follows:

3D Systems Corporation

Stratasys

GE Healthcare

Materialise NV

Renishaw

Q7. Which technology segment will witness the highest growth in the 3D printing medical device market in the Forecast period?

Answer: Lucintel forecasts that the photo polymerization technology based 3D printing market is expected to witness the highest growth over the forecast period due to widespread application of this technology across the medical industry, such as manufacturing surgical guides (orthopedic and dental), prosthetics and implants, porous scaffolds, and dental restorations.

Q8. In 3D printing medical device market, which region is expected to be the largest in the next five years?

Answer: North America is expected to be the largest region over the next five years.

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% customization without any additional cost.

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high-growth opportunities for the 3D printing medical device market by technology (laser beam melting, photo polymerization, electron beam melting, droplet deposition, and three-dimensional printing (3DP)), component (equipment, materials (plastics, ceramics, and metal), software & services, and others), application (surgical guides, surgical instruments, prosthetics and implants, tissue engineering products, and others), end use (medical and surgical centers, pharmaceutical & biotechnology, and academic institutions), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the 3D printing medical device market?

Q.5 What are the business risks and threats to the 3D printing medical device market?

Q.6 What are the emerging trends in this 3D printing medical device market and the reasons behind them?

Q.7 What are some changing demands of customers in the 3D printing medical device market?

Q.8 What are the new developments in the 3D printing medical device market? Which companies are leading these developments?

Q.9 Who are the major players in the 3D printing medical device market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in the 3D printing medical device market, and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M&A activities did take place in the last five years in the 3D printing medical device market?

For any questions related to 3D printing medical device market or related to 3D printing medical device market analysis, 3D printing medical device market share, 3D printing medical device companies, top 3D printing medical device companies, 3D printing medical device manufacturers, largest 3D printing medical device companies, write Lucintel analyst at email: [helpdesk@lucintel.com](mailto:helpdesk@lucintel.com) we will be glad to get back to you soon.



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- 8.7: GE Healthcare (Concept Laser GmbH and Arcam AB)
- 8.8: 3D Systems Corporation
- 8.9: Envisiontec GmbH
- 8.10: EOS GmbH Electro Optical Systems

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