

Healthcare 3D Printing Market: Segmented by Product (Syringe based, Magnetic Levitation, Laser Based, Inkjet Based), By Technology (Fused Deposition Modelling (FDM), Selective Laser Sintering (SLS), Stereolithography), By Application (Biosensors, Medical (Pharmaceuticals, Prosthetics and Implants, Tissue and Organ Generation), Dental) and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

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Abstracts

178+ Pages Research Report Healthcare 3D Printing market to surpass USD 13336.5 million by 2030 from USD 1755.5 million in 2020 at a CAGR of 22.48% in the coming years, i.e., 2021-30.

Product Overview

Healthcare 3D printing, also known as bioprinting, was formerly thought to be a distant dream. Nonetheless, advances in technology and long-term investments have made it a reality. Currently, 3D printers are assisting pharmaceutical companies in developing more precise drugs, enabling the rapid creation of medical implants, and altering the way surgeons and doctors plan surgical procedures. Organ replacement for human patients is one of the most obvious uses of healthcare 3D printing, but it is far from the only one. Additive manufacturing is another application of 3D printing in healthcare that is gaining traction.

Market Highlights

Healthcare 3D Printing market is expected to project a notable CAGR of 22.48% in



2030

Healthcare 3D printing refers to a wide range of 3D printing items and services used in the healthcare industry. While 3D printing has grown in popularity in the manufacturing industry, it has also seen widespread adoption in the healthcare industry, with new applications emerging. The growing need for patient-specific implants in orthopedic, dentistry and other types of procedures is one of the major reasons contributing to this. Furthermore, higher productivity and manufacturing accuracy are two additional reasons driving market expansion.

Recent highlights in the Healthcare 3D Printing Market

In January 2021, Proxera, a dental additive manufacturing expert, has been purchased by ZARE, an Italian 3D printing service bureau. The deal was made to help ZARE enter into the sector. While ZARE is closely associated with Sandvik, a worldwide engineering business headquartered in Sweden, the acquisition was also intended to capitalize on Proxera's technologies on a global scale.

In August 2020, Varian Medical Technologies, Inc. was bought by Siemens Healthineers for nearly US\$ 16.4 million. The purchase was made with the goal of merging the 3D printing assets of several firms while also bolstering the company's overall market presence.

Healthcare 3D Printing Market: Segments

Syringe based segment to grow with the highest CAGR during 2020-30 Healthcare 3D Printing market is segmented by Product into Syringe based, Magnetic levitation, Laser-based and Inkjet based. Among these the Syringe-based segment dominated the market in 2020, accounting for the bulk of market share. The widespread usage of 3D printers in the fields of bioprinting, food printing, and embedded printing is one of the major drivers affecting market demand. Because the technology is still in its early stages of adoption, demand is expected to rise in the future years as a wider audience in the healthcare industry embraces 3D printing.

Medical segment to grow with the highest CAGR during 2020-30 Healthcare 3D Printing market is segmented by Application into Biosensors, Medical, and Dental. Among these, the medical category will witness the highest revenue share during the forecast. Surgical implants, tissue scaffold printing, and cell printing are all examples of medical applications. These are some of the most important technological benefits of healthcare 3D printing, which will help the sector grow.

Market Dynamics



Drivers

Increasing adoption of 3D technologies

The healthcare 3D printing industry will experience exponential development as 3D printing technologies become more widely adopted. The need for 3D technologies among fracture patients, cancer patients, and skull-based tumors will propel the healthcare 3D printing industry to grow.

Increasing R&D activities

The expansion of the healthcare 3D printing industry is mostly due to research and development efforts. The companies in the healthcare 3D printing market put a lot of money into these efforts in order to create new technologies and formulas and boost their revenues. All of these factors eventually contribute to the healthcare 3D printing market's increased growth rate.

Restraint

Strict Regulation

The use of healthcare 3D printing represents a major shift in design and manufacturing technology. To extend the use of such technologies, well-trained engineers and technicians are required. Many new technologies have surpassed the capacity of the larger manufacturing workforce to adapt, and some companies have begun to struggle to find qualified workers. The influence on innovation, growth, output, and quality is substantial. The growing need for skilled labor, on the other hand, is not being fulfilled. As a result, the industry's skill shortage is well-known.

Healthcare 3D Printing Market: Key Players

Renishaw Plc

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Bio-Rad Laboratories

3D Systems Inc.

Simbionix

RegenHU Ltd.

Metamason

Stratasys Ltd.

Nano3D Biosciences Inc.

Healthcare 3D Printing Market: Regions



Healthcare 3D Printing market is segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, Asia Pacific and the Middle East, and Africa. Healthcare 3D Printing market in North America held the largest market share in the year 2020. In the forecast period, the Healthcare 3D Printing market is expected to be dominated by North America. The industrial demand is primarily driven by increased regulatory support for improving quality control methods and simplifying the integration of 3D printing and traditional technologies. Additionally, institutions and manufacturers in North America have observed a higher intensity of research and development activities.

Healthcare 3D Printing Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – 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, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – China, Japan, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth,

CAGR - North Africa, Israel, GCC, South Africa, and Rest of MENA

Healthcare 3D Printing Market report also contains analysis on:

Healthcare 3D Printing Market Segments:

By Product

Syringe based

Magnetic levitation

Laser-based

Inkjet based

By Technology

Fused deposition modeling (FDM)

Selective laser sintering (SLS)

Stereolithography

Others

By Application

Biosensors

Medical

Pharmaceuticals

Prosthetics and implants

Tissue and organ generation



Dental

Healthcare 3D Printing Market Dynamics
Healthcare 3D Printing Market Size
Supply & Demand
Current Market Trends/Issues/Challenges
Competition & Companies Involved in the Market
Value Chain of the Market

Market Drivers and Restraints

Healthcare 3D Printing Market Report Scope and Segmentation

Report Attribute Details

Market size value in 2021 USD 2147.9 million

Revenue forecast in 2030 USD 13336.5 million

Growth Rate CAGR of 22.48% from 2021 to 2030

Base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2021 to 2030

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Product, Technology, Application and Region

Regional scope North America; Europe; Asia Pacific; Latin America; Middle East & Africa (MEA)

Key companies profiled Renishaw Plc, Bio-Rad Laboratories, 3D Systems Inc., Simbionix, RegenHU Ltd., Metamason, Stratasys Ltd., Nano3D Biosciences Inc. and Other Prominent Players.

Frequently Asked Questions

How big is the Healthcare 3D Printing market?

What is the Healthcare 3D Printing market growth?

Which segment accounted for the largest Healthcare 3D Printing market share?

Who are the key players in the Healthcare 3D Printing market?

What are the factors driving the Healthcare 3D Printing market?



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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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