3D Printing Medical Device Market: Global Industry Analysis, Trends, Market Size, and Forecasts up to 2030

Market Report | 2023-10-11 | 255 pages | Infinium Global Research and Consulting Solutions

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Report description:

The report on the global 3D printing medical device market provides qualitative and quantitative analysis for the period from 2021-2030. The global 3D printing medical device market was valued at USD 2.49 billion in 2022 and is expected to reach USD 9.42 billion in 2030, with a CAGR of 15.82% during the forecast period 2023-2030. The study on 3D printing medical device market covers the analysis of the leading geographies such as North America, Europe, Asia Pacific, and RoW for the period of 2021-2030.

3D printing is a rapidly expanding manufacturing method with a growing range of applications in healthcare. In the medical and dental device manufacturing sectors, 3D printing plays a pivotal role due to its cost-effectiveness, efficiency, and customization capabilities. It is particularly valuable for producing dental implants, hearing aids, prostheses, and other medical devices. Additionally, 3D printing finds application in creating patient-specific organ models, which serve as invaluable tools for surgeons to practice complex procedures before performing them on patients. This approach not only expedites surgical processes but also minimizes trauma to patients during diagnosis and treatment. Furthermore, 3D printing technology is making significant strides in tissue engineering. These engineered tissues hold promise for applications in regenerative medicine, vascular and musculoskeletal biology, dermatology, ophthalmology, and even cancer research. As a result, 3D printing continues to revolutionize various facets of the medical field, offering innovative solutions that improve patient care and advance medical research.

The growth of the 3D printing medical device market is driven by various factors, including technological advancements in 3D printing and the ease of developing customized medical products through this technology. This growth is particularly evident in the production of 3D-printed prosthetics, implants, dental restorations, surgical instruments, and tissues. The FDA has approved over 20 different types of implants, ranging from cranial to hip, knee, and spinal implants, which are manufactured using various 3D printing technologies. Several factors are contributing to the expansion of the global 3D printing medical device market. Advances in 3D printing technology and improvements in healthcare infrastructure are propelling market growth. Additionally, the growing aging population is growing, and there is a strong emphasis on research and development in this sector, further accelerating market expansion. FDA guidelines streamline the approval process for 3D-printed medical devices, making it easier for manufacturers to enter the market. However, the stringent regulatory process for 3D-printed medical devices and concerns

related to copyright and patent violations may hinder market growth. On the positive side, recent advancements in 3D printing have reduced equipment costs while offering improved technology and a wider range of engineering materials. Consequently, this technology is gaining popularity in research and development departments worldwide. Furthermore, the increasing demand for organ transplants presents significant growth opportunities for key players in the global 3D printing medical device market in the years ahead. This market continues to evolve and expand, driven by innovation, regulatory support, and the growing need for personalized and patient-specific medical solutions.
In the global 3D printing medical device market, North America is expected to hold the most significant market share, and its dominance is primarily driven by technological advancements in the sector. The region's robust technological infrastructure and innovation have contributed to its leadership position. Additionally, North America benefits from research and development initiatives by the U.S. government and the presence of leading industry players, creating significant growth opportunities.
Asia-Pacific is poised to experience strong growth in the adoption of 3D medical devices. Countries like China, Japan, and India are witnessing a growing demand for 3D printing medical devices, driven by their expanding populations. Moreover, the region's research and development efforts are expected to further boost market growth. Europe, while a mature market for 3D printing medical devices, is anticipated to see rapid growth in the future. The presence of FDA-registered and ISO 13485-certified facilities in both North America and Europe ensures expertise in 3D printing, engineering, quality control, and regulatory compliance. Companies like 3D Systems have played a pivotal role in collaborating with industry leaders to develop a diverse portfolio of innovative 3D printing medical devices across various medical applications.

Report Findings
1) Drivers
- The growth of the 3D printing medical device market is driven by technological advancements in 3D printing and the ease of developing customized medical products through this technology.
- The growing aging population, and a strong emphasis on research and development in this sector, is anticipated to drive the market growth.
2) Restraints
- The stringent regulatory process for 3D-printed medical devices and concerns related to copyright and patent violations may hinder market growth.
3) Opportunities
- The increasing demand for organ transplants presents significant growth opportunities for key players in the global 3d printing medical device market.

Research Methodology
A) Primary Research
Our primary research involves extensive interviews and analysis of the opinions provided by the primary respondents. The primary research starts with identifying and approaching the primary respondents, the primary respondents are approached include
1. Key Opinion Leaders associated with Infinium Global Research
2. Internal and External subject matter experts
3. Professionals and participants from the industry
Our primary research respondents typically include
1. Executives working with leading companies in the market under review
2. Product/brand/marketing managers
3. CXO level executives
4. Regional/zonal/ country managers
5. Vice President level executives.
B) Secondary Research
Secondary research involves extensive exploring through the secondary sources of information available in both the public

domain and paid sources. At Infinium Global Research, each research study is based on over 500 hours of secondary research accompanied by primary research. The information obtained through the secondary sources is validated through the crosscheck on various data sources.

The secondary sources of the data typically include

1. Company reports and publications
2. Government/institutional publications
3. Trade and associations journals
4. Databases such as WTO, OECD, World Bank, and among others.
5. Websites and publications by research agencies

Segment Covered

The global 3D printing medical device market is segmented on the basis of technology, application, and end user.

The Global 3D Printing Medical Device Market by Technology

- Electron Beam Melting
- Selective Laser Melting
- Photopolymerization
- Direct Metal Laser Sintering
- Laminated Object Manufacturing
- Laser Beam Melting

The Global 3D Printing Medical Device Market by Application

- Surgical Guide
- Medical Implant
- Surgical Instrument
- Bioengineering

The Global 3D Printing Medical Device Market by End User

- Medical and Surgical Centers
- Pharma and Biotech Companies
- Academic Institutions

Company Profiles

The companies covered in the report include

- 3D Systems, Inc.
- ENVISIONTEC US LLC
- Arcam AB (acquired by General Electric)
- Stratasys
- CYFUSE BIOMEDICAL K.K.
- Organovo Holdings Inc.
- EOS GmbH
- FABRX LTD.
- Materialise
- Concept Laser GmbH (acquired by General Electric)

What does this Report Deliver?

1. Comprehensive analysis of the global as well as regional markets of the 3D printing medical device market.

2. Complete coverage of all the segments in the 3D printing medical device market to analyze the trends, developments in the global market and forecast of market size up to 2030.
3. Comprehensive analysis of the companies operating in the global 3D printing medical device market. The company profile includes analysis of product portfolio, revenue, SWOT analysis and latest developments of the company.
4. IGR- Growth Matrix presents an analysis of the product segments and geographies that market players should focus to invest, consolidate, expand and/or diversify.

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