3D Printed Medical Devices Market: Global Industry Analysis & Opportunity Assessment, 2016-2026

Description: 3D printed medical devices are state-of-the-art medical devices that involve a process of developing three dimensional solid objects from a digital model. Patient specific treatment is the main advantage of 3D printing technology in the healthcare industry. In the domain of healthcare, 3D printing technology is used to develop medical devices such as dental implants, orthopaedic implants, prosthetics, and hearing aids. Furthermore, hospitals and academic institutes use 3D printing technology to develop various models for training purposes. 3D printed medical devices considered in the report typically use technologies such as stereolithography (SLA), selective layer sintering (SLS), digital light processing (DLP), fused deposition modelling (FDM), polyjet / inkjet 3D printing, and electronic beam melting (EBM).

In terms of revenue, the global 3D printed medical devices market is anticipated to grow at a CAGR of 17.7% during the forecast period and is projected to be valued at US$ 1469.4 million by the end of 2026.

Increasing geriatric population and a rise in the number of accidents is fuelling the global market for 3D printed medical devices.

Growth of the global 3D printed medical devices market is principally driven by increasing geriatric population across the globe, thus increasing the risk of diabetes-related gangrene cases, peripheral vascular disease, and osteoarthritis among elderly individuals. Additionally, increasing incidence of accidents due to rapid modernisation, use of fast moving machinery, and increasing prevalence of chronic diseases is expected to fuel market growth over the forecast period. However, relatively low adoption of 3D printing technology and regulatory considerations may hinder the growth of the 3D printed medical devices market over the forecast period.

Market Segmentation

By Material
- Plastics
- Thermoplastics
- Photopolymers
- Biomaterial Inks
- Polymers
- Ceramics
- Hydrogels
- Metals and Alloys

By Application
- Orthopaedic Implants
- Dental Implants
- Cranio-maxillofacial Implants
- Internal and External Prostheses
- Stereolithography (SLA) - Liquid

By Technology
- Based 3D Printing
- Selective Laser Sintering (SLS) - Powder Based 3D Printing
- Digital Light Processing (DLP)
- Fused Deposition Modeling (FDM): Plastic Filament Extrusion Based Technology
- Electronic Beam Melting (EBM)
- PolyJet/InkJet 3D Printing

By Distribution Channel
- Hospitals
- Diagnostic Centers
- Ambulatory Surgical Centres (ASCs)
By Region
North America
Latin America
Western Europe
Eastern Europe
APEJ
Japan
Middle East and Africa (MEA)

The plastics segment is expected to remain dominant throughout the forecast period

In terms of revenue share, the plastics material segment dominated the global 3D printed medical devices market in 2015 and is expected to dominate throughout the forecast period. The plastics segment is expected to account for 72.0% market share of the global 3D printed medical devices market in 2016. In terms of value, the biomaterial Inks segment is expected to register the highest CAGR of 20.1 % during the forecast period.

Orthopaedic segment is the largest segment by application

In terms of revenue share, the orthopaedic implants application segment dominated the global 3D printed medical devices market in 2015 and is expected to dominate throughout the forecast period, registering a higher CAGR as compared to other application type segments. The orthopaedic segment is expected to account for 19.9% market share of the global 3D printed medical devices market in 2016.

Polyjet/Inkjet 3D printing to be the dominant segment by technology type

In terms of revenue share, the SLS technology segment dominated the global 3D printed medical devices market in 2015 whereas the polyJet / inkJet 3D printing segment is expected to dominate throughout the forecast period, registering a steady CAGR.

Hospital segment is the largest segment as per the distribution channel segment

In 2016, the hospital segment is estimated to account for the highest market share, expected to reach a value of US$ 862.1 Mn by 2026, and is anticipated to remain the dominant segment during the forecast period.

North America to be the largest market for 3D printed medical devices

In terms of value, North America is expected to be the dominant regional market by 2016 end, and is expected to register a CAGR of 19.2% over the forecast period. Western Europe is expected to be the second fastest growing market registering a CAGR of 18.5% over the forecast period followed by Eastern Europe, APEJ, and Japan.

Global 3D printed medical devices market

Key players are focussing on introducing innovative marketing strategies to increase their market share

Some key players in the global 3D printed medical devices market are 3D Systems, Inc., Arcam AB, Stratasys Ltd., FabRx Ltd., EOS GmbH Electro Optical Systems, EnvisionTEC, Cyfuse Biomedical K.K., and Bio3D Technologies. Increasing mergers and acquisitions and introducing innovative marketing strategies are some of the important steps taken by key market players to increase their consumer base.

Contents:

1. Executive Summary
2. Research Methodology
3. Assumptions and Acronyms Used
4. 3D Printed Medical Devices Market Overview
   4.1. Introduction
4.1.1. 3D Printed Medical Devices Market Taxonomy
4.1.2. 3D Printed Medical Devices Market Definition

5. Parent Market Scenario, Value Chain, Regulations
5.1. Parent Market Overview
5.1.1. Global 3D Printing Industry Value Chain
5.1.2. List of 3-D Printing Devices Cleared by U.S. FDA in 2014-15
5.1.3. Regulations - North America
5.1.4. Regulations - Europe

6. 3D Printed Medical Devices Market Dynamics
6.1. Macroeconomic Indicators
6.1.1. Drivers
6.1.1.1. Supply Side
6.1.1.2. Demand Side
6.1.2. Restraints
6.1.3. Opportunity
6.1.4. Trends

7. 3D Printed Medical Devices Market Analysis & Forecast By Material, 2016-2026
7.1. Market Value Forecast
7.1.1. Market Share Analysis
7.1.2. Y-o-Y Growth Projection
7.1.3. Market Value Analysis
7.1.3.1. Plastics
7.1.3.1.1. Thermoplastics
7.1.3.1.2. Photopolymers
7.1.3.2. Biomaterial Inks
7.1.3.2.1. Polymers
7.1.3.2.2. Ceramics
7.1.3.2.3. Hydrogel
7.1.3.3. Metals and Alloys
7.1.4. Absolute $ Opportunity
7.1.4.1. Plastics
7.1.4.2. Biomaterial Inks
7.1.4.3. Metals and Alloys
7.2. Market Attractiveness Analysis By Material, 2016-2026

8. Global 3D Printed Medical Devices Market Analysis, By Application Type
8.1. Market Value Forecast
8.1.1. Market Share Analysis
8.1.2. Y-o-Y Growth Projection
8.1.3. Market Value Analysis
8.1.3.1. Orthopedic Implants
8.1.3.2. Dental Implants
8.1.3.3. Cranio-maxillofacial Implants
8.1.3.4. Internal and External Prosthesis
8.1.4. Absolute $ Opportunity
8.1.4.1. Orthopedic Implants
8.1.4.2. Dental Implants
8.1.4.3. Cranio-maxillofacial Implants
8.1.4.4. Internal and External Prosthesis
8.2. Market Attractiveness Analysis By Application, 2016-2026

9. Global 3D Printed Medical Devices Market Analysis, By Technology
9.1. Market Value Forecast
9.1.1. Market Share Analysis
9.1.2. Y-o-Y Growth Projection
9.1.3. Market Value Analysis
9.1.3.1. SLA - Liquid Based 3D Printing
9.1.3.2. SLS - Powder Based 3D Printing
9.1.3.3. DLP
9.1.3.4. FDM-Plastic Filament Extrusion Based
9.1.3.5. PolyJet / InkJet 3D Printing
9.1.3.6. EBM
9.1.4. Absolute $ Opportunity
9.1.4.1. SLA - Liquid Based 3D Printing
9.1.4.2. SLS - Powder Based 3D Printing
9.1.4.3. DLP
9.1.4.4. FDM-Plastic Filament Extrusion Based
9.1.4.5. PolyJet / InkJet 3D Printing
9.1.4.6. EBM
9.2. Market Attractiveness Analysis By Technology, 2016-2026

10. Global 3D Printed Medical Devices Market Analysis, By Distribution Channel
10.1. Market Value Forecast
10.1.1. Market Share Analysis
10.1.2. Y-o-Y Growth Projection
10.1.3. Market Value Analysis
10.1.3.1. Hospitals
10.1.3.2. Diagnostic Centers
10.1.3.3. Ambulatory Surgical Centers
10.1.4. Absolute $ Opportunity
10.1.4.1. Hospitals
10.1.4.2. Diagnostic Centers
10.1.4.3. Ambulatory Surgical Centers
10.2. Market Attractiveness Analysis By Distribution Channel, 2016-2026

11. Global 3D Printed Medical Devices Market Analysis, By Region
11.1. Market Value Forecast
11.1.1. Market Share Analysis
11.1.2. Y-o-Y Growth Projection
11.1.3. Market Value Analysis
11.1.3.1. North America
11.1.3.2. Latin America
11.1.3.3. Western Europe
11.1.3.4. Eastern Europe
11.1.3.5. APEJ
11.1.3.6. Japan
11.1.3.7. MEA
11.1.4. Absolute $ Opportunity
11.1.4.1. North America
11.1.4.2. Latin America
11.1.4.3. Western Europe
11.1.4.4. Eastern Europe
11.1.4.5. APEJ
11.1.4.6. Japan
11.1.4.7. MEA
11.2. Market Attractiveness Analysis By Region, 2016-2026

12. North America 3D Printed Medical Devices Market Analysis
12.1. Market Value Forecast
12.1.1. Market Share Analysis
12.1.2. Y-o-Y Growth Projection
12.1.3. Market Value Analysis, By Country
12.1.3.1. U.S.
12.1.3.2. Canada
12.1.4. Absolute $ Opportunity
12.1.4.1. U.S.
12.1.4.2. Canada
12.1.5. Market Value Analysis, By Material
12.1.5.1. Plastics
12.1.5.1.1. Thermoplastics
12.1.5.1.2. Photopolymers
12.1.5.2. Biomaterial Inks
12.1.5.2.1. Polymers
12.1.5.2.2. Ceramics
12.1.5.2.3. Hydrogel
12.1.5.3. Metals and Alloys
12.1.6. Absolute $ Opportunity
12.1.6.1. Plastics
12.1.6.1.1. Thermoplastics
12.1.6.1.2. Photopolymers
12.1.6.2. Biomaterial Inks
12.1.6.2.1. Polymers
12.1.6.2.2. Ceramics
12.1.6.2.3. Hydrogel
12.1.6.3. Metals and Alloys
12.1.7. Market Value Analysis, By Application
12.1.7.1. Orthopedic Implants
12.1.7.2. Dental Implants
12.1.7.3. Cranio-maxillofacial Implants
12.1.7.4. Internal and External Prosthesis
12.1.8. Absolute $ Opportunity
12.1.8.1. Orthopedic Implants
12.1.8.2. Dental Implants
12.1.8.3. Cranio-maxillofacial Implants
12.1.8.4. Internal and External Prosthesis
12.1.9. Market Value Analysis, By Technology
12.1.9.1. SLA - Liquid Based 3D Printing
12.1.9.2. SLS - Powder Based 3D Printing
12.1.9.3. DLP
12.1.9.4. FDM-Plastic Filament Extrusion Based
12.1.9.5. Polyjet / Inkjet 3D Printing
12.1.9.6. EBM
12.1.10. Absolute $ Opportunity
12.1.10.1. SLA - Liquid Based 3D Printing
12.1.10.2. SLS - Powder Based 3D Printing
12.1.10.3. DLP
12.1.10.4. FDM-Plastic Filament Extrusion Based
12.1.10.5. Polyjet / Inkjet 3D Printing
12.1.10.6. EBM
12.1.11. Market Value Analysis, By Distribution Channel
12.1.11.1. Hospitals
12.1.11.2. Diagnostic Centers
12.1.11.3. Ambulatory Surgical Centers
12.1.12. Absolute $ Opportunity
12.1.12.1. Hospitals
12.1.12.2. Diagnostic Centers
12.1.12.3. Ambulatory Surgical Centers
12.2. Market Attractiveness Analysis, 2016-2026
12.2.1. By Material
12.2.2. By Application
12.2.3. By Technology
12.2.4. By Distribution Channel
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: 3D Printed Medical Devices Market: Global Industry Analysis & Opportunity Assessment, 2016-2026
Web Address: http://www.researchandmarkets.com/reports/3978252/
Office Code: SC2G5C1S

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>USD 5000</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License:</td>
<td>USD 7500</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>USD 10000</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr [ ]</th>
<th>Mrs [ ]</th>
<th>Dr [ ]</th>
<th>Miss [ ]</th>
<th>Ms [ ]</th>
<th>Prof [ ]</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td>Last Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: 

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World