Dental 3D Printing Market Research Report – Forecast to 2023

Market Scenario

The global dental 3D printing market is expected to grow significantly over the forecast period. It is estimated that the global dental 3D printing market is expected to register a CAGR ~ 24.5% during the forecast period of 2018–2023. Dental 3D printing is a form of modern dentistry and is considered to be wide-spread in the dental industry. Dental 3D printing involves creating three dimensional solid dental models such as dentures, surgical guides, dental implants, crown, and bridges.

Numerous factors are anticipated to drive the growth of this market such as high incidence of dental caries and other dental diseases, growing demand for cosmetic dentistry, increasing geriatric population, and growing adoption of dental 3D printers in dental hospitals and clinics. According to the Centers for Disease Control and Prevention, for the year 2015–2016, the prevalence of total dental caries was 45.8%, and the prevalence of untreated caries was 13.0% among group 2–19 years.

Despite the drivers, factors such as unfavorable reimbursement scenario and stringent regulatory process for the approval of 3D printing equipment may hamper the growth of the market during the assessment period.

Segmentation

The global dental 3D printing market has been segmented into product and service, technology, application, and end-user.

The market on the basis of product and service has been segmented into equipment, materials, and services. The equipment segment has been segmented into dental 3D scanners and Dental 3D printers. The materials segment has been segmented into plastic, metal, and other materials.

The market on the basis of technology has been segmented into vat Photopolymerization, fused deposition modeling, polyjet technology, selective laser sintering, and other technologies. The vat Photopolymerization has been further segmented into stereolithography and digital light processing.

The market, by application, has been segmented into prosthodontics, orthodontics, and implantology.

On the basis of end-user, the market has been segmented into dental laboratories, dental hospitals and clinics, dental academic and research institutes.

The market has been segmented, by region, into the Americas, Europe, Asia-Pacific, and the Middle East & Africa. The dental 3D printing market in the Americas has further been segmented into North America and South America, with the North American market divided into the US and Canada.

The European dental 3D printing market has been segmented into Western Europe and Eastern Europe. Western Europe has further been classified as Germany, France, the UK, Italy, Spain, and the rest of Western Europe.

The dental 3D printing market in Asia-Pacific has been segmented into Japan, China, India, South Korea, Australia, and the rest of Asia-Pacific. The dental 3D printing market in the Middle East & Africa has been segmented into the Middle East and Africa.

Key players


Regional Market Summary

Global Dental 3D Printing Market Share (%), by Region, 2017
Geographically, the Americas is anticipated to dominate the global dental 3D printing market. The market growth in this region is attributed to the increasing demand for cosmetic dentistry, growing oral care expenditure, and the rising popularity of digital dentistry. Moreover, the increasing incidence of dental caries and tooth loss associated with the aging population is expected to fuel the growth of the market in this region. According to the Health United States Report 2016, the US had spent USD 2.7 trillion on personal healthcare for an average of USD 8,468 per person in 2015.

Europe is expected to be the second largest market in the globe owing to the increasing number of dental problems, increasing government expenditure for oral care, the presence of disposable income, growing number of people visiting a dentist, and increasing demand for cosmetic dentistry. According to the data by the Public Health England, in 2014, all age National Health Service (NHS) dental treatment costs were Euro 3.4 billion.

Asia-Pacific is anticipated to be the fastest growing market owing to the growing prevalence of dental caries and dental related problems in the developing countries, increasing disposable income, and growing healthcare expenditure.

The Middle East & Africa is expected to account for the lowest market share in the global dental 3D printing market due to low development, lack of technical knowledge, and poor medical facilities in developing economies in this region.

Global Dental 3D Printing Market, by Product and Service
- Equipment
- Dental 3D Scanners
- Dental 3D Printers
- Materials
- Plastic
- Metal
- Other Materials
- Services

Global Dental 3D Printing Market, by Technology
- Vat Photopolymerization
- Stereolithography
- Digital Light Processing
- Fused Deposition Modeling
- Polyjet Technology
- Selective Laser Sintering
- Other Technologies

Global Dental 3D Printing Market, by Application
- Prosthodontics
- Orthodontics
- Implantology

Global Dental 3D Printing Market, by End-User
- Dental Laboratories
- Dental Hospitals and Clinics
- Dental Academic and Research Institutes

Global Dental 3D Printing Market, by Region

Source: Food and Drug Administration (FDA), Centers for Disease Control and Prevention (CDC), American College of Prosthodontists
Global Dental 3D Printing Market, by Key Players

- Stratasys Ltd.
- 3D Systems, Inc.
- EnvisionTEC, Inc.
- DWS Systems
- Renishaw Plc.
- Formlabs
- Prodways Group
- SLM Solutions Group
- Carbon, Inc.
- Concept Laser GmbH
- EOS GmbH Electro Optical Systems
- Rapid Shape GmbH
- Asiga
- Roland DG

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- Dental 3D printer manufacturers and suppliers
- Dental prosthetics and implant manufacturers
- Dental hospitals and clinics
- Dental laboratories and associations
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