

# **Dental 3D Printing Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product & Services (Services, Polymers, Metals, Ceramics), By Technology (Vat Photopolymerization, Polyjet, Fused Deposition Modeling, Selective Laser Sintering, Others), By Application (Orthodontics, Prosthodontics, Implantology), By End User (Dental Clinics, Dental Laboratories, Academic And Research Institutes), By Region, and By Competition, 2019-2029F**

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## **Abstracts**

Global Dental 3D Printing Market was valued at USD 3.06 billion in 2023 and is expected to grow with impressive growth in the forecast period at a CAGR of 17.83% through 2029. Dental 3D printing, also known as additive manufacturing in dentistry, revolutionizes the fabrication of dental prosthetics, restorations, and appliances by employing 3D printing technology. It entails the layer-by-layer deposition of dental materials like polymers, ceramics, metals, or composites to create precise and customized dental products based on digital designs and patient-specific data. The process commences with the acquisition of digital data representing the patient's oral anatomy through intraoral scanners or cone-beam computed tomography (CBCT). These digital scans capture detailed impressions of the teeth, gums, and surrounding tissues, forming the foundation for designing and fabricating dental restorations and appliances.

CAD software facilitates the customization and design of dental prosthetics, crowns,

bridges, implants, and orthodontic appliances, allowing dental professionals to manipulate virtual models with precision to achieve optimal treatment outcomes. The digital designs undergo slicing using specialized software to determine printing parameters such as layer thickness, resolution, and support structures. These support structures are crucial for ensuring stability and preventing deformation during the printing process.

Continuous advancements in 3D printing technology, spanning hardware, software, and materials, drive innovation and expand the capabilities of dental 3D printing solutions. Enhanced printing speed, accuracy, resolution, and material properties enable the production of high-quality dental prosthetics and restorations. The global prevalence of dental disorders, including tooth decay, periodontal disease, and tooth loss, is rising due to factors like aging populations and poor oral hygiene. Dental 3D printing addresses this demand by providing a cost-effective and scalable solution for fabricating dental restorations, crowns, bridges, and implants. The dental industry is undergoing a digital transformation, with an increasing number of practices and laboratories adopting digital workflows incorporating 3D scanning, computer-aided design (CAD), and 3D printing technologies. This shift streamlines the entire treatment process, from diagnosis and treatment planning to fabrication and delivery of dental prosthetics, enhancing efficiency, accuracy, and patient outcomes.

## Key Market Drivers

### Technological Advancements

The advancement of 3D printing technology has brought significant improvements to the dental industry, particularly in the fabrication of dental models, crowns, bridges, and implants. High-resolution 3D printers now enable the production of these dental products with exceptional detail and precision, leading to better fit and esthetics for patients. Biocompatible materials developed specifically for dental 3D printing have expanded the range of applications and enhanced the safety and performance of 3D-printed dental products. These materials closely mimic the properties of natural teeth and tissues while ensuring patient safety and comfort.

Modern 3D scanning and imaging technologies have revolutionized the process of capturing digital impressions of patients' oral anatomy, eliminating the need for traditional messy impressions. Digital scans provide highly accurate data for designing and manufacturing custom dental prosthetics and appliances, leading to improved treatment outcomes.

Specialized Computer-Aided Design (CAD) software tailored for dental applications empowers dental professionals to design intricate dental prosthetics and restorations with precision and efficiency. These CAD software solutions offer a range of tools for virtual wax-ups, margin definition, and occlusal adjustments, streamlining the design process and ensuring optimal results. Automated nesting algorithms integrated into CAD software optimize the placement of dental prosthetics on the build platform, maximizing printer throughput and material utilization. Advanced support generation algorithms create stable support structures for overhanging features, minimizing post-processing time and material waste.

Some 3D printers now support multi-material and multi-color printing capabilities, enabling dental professionals to create complex dental prosthetics with varying material properties and esthetic effects in a single print job. This capability enhances the versatility and customization options available to dental practitioners. Compact and user-friendly 3D printers designed for chairside use have revolutionized dental practices by enabling dental professionals to fabricate dental prosthetics and appliances in-office. This eliminates the need for outsourcing to external laboratories, reducing turnaround times for patients and enhancing patient satisfaction.

Dental 3D printing technology seamlessly integrates with digital workflows, including intraoral scanning, treatment planning software, and milling systems. This integration facilitates collaboration between dental professionals and ensures the accuracy and consistency of treatment outcomes. Cloud-based software platforms provide dental professionals with remote access to digital files, allowing for efficient file management, collaboration with colleagues, and tracking of production workflows. This enhances efficiency and productivity in dental practices and laboratories. Automated post-processing solutions, such as curing chambers, polishing machines, and surface finishing systems, streamline the finalization of 3D-printed dental prosthetics. This reduces the need for manual labor and ensures consistent quality across dental products, further enhancing the overall efficiency of the dental 3D printing process.

The advancements in dental 3D printing technology have revolutionized the dental industry, offering dental professionals unprecedented levels of precision, customization, and efficiency in the fabrication of dental prosthetics and appliances. As technology continues to evolve, the global dental 3D printing market is poised for further growth and innovation, driven by the increasing demand for high-quality, patient-specific dental solutions.

## Rising Prevalence of Dental Disorders and Tooth Loss

As global populations age, the prevalence of dental disorders like periodontal disease, tooth decay, and tooth loss rises. This trend underscores the growing need for dental interventions among older adults to maintain oral function and improve quality of life. With advancements in healthcare and living standards, individuals are living longer, yet they may face age-related dental issues necessitating restorative solutions.

Dental injuries from accidents, sports-related incidents, or trauma often result in tooth loss or damage. Dental 3D printing offers tailored solutions by fabricating customized dental prosthetics, crowns, bridges, and implants to restore function and esthetics post-injury. Periodontal disease, a widespread condition globally, if untreated, can lead to tooth loss and oral health complications. Dental 3D printing enables the production of periodontal splints and surgical guides to support treatment and preserve oral health.

There's a growing demand for aesthetic dental solutions to enhance smiles and facial esthetics. Dental 3D printing facilitates the creation of natural-looking dental restorations, veneers, and aligners, meeting patients' cosmetic expectations.

Given each patient's unique dental anatomy and clinical needs, personalized dental solutions are essential. Dental 3D printing allows for the customization of prosthetics, crowns, bridges, and implants, ensuring optimal fit, comfort, and esthetics. Traditional fabrication methods often involve lengthy production times and multiple appointments. Dental 3D printing, however, offers faster turnaround times and same-day or next-day delivery of restorations, reducing patient wait times and enhancing treatment efficiency. This acceleration in dental restoration processes is expected to drive the demand for the Global Dental 3D Printing Market.

## Increasing Shift Towards Digital Dentistry

Digital dentistry involves the integration of various digital technologies, including 3D scanning, computer-aided design (CAD), computer-aided manufacturing (CAM), and 3D printing, into dental workflows. Dental 3D printing plays a crucial role in this integrated digital ecosystem by enabling the fabrication of custom dental prosthetics, restorations, and appliances directly from digital files. Digital technologies, including 3D scanning and CAD/CAM software, enable highly accurate and precise digital impressions and virtual modeling of dental anatomy. Dental 3D printing translates these digital designs into physical objects with exceptional accuracy, ensuring optimal fit, function, and esthetics of dental restorations. Digital workflows streamline the entire dental treatment process,

from diagnosis and treatment planning to fabrication and delivery of dental prosthetics. Dental 3D printing reduces production times, eliminates manual labor, and minimizes errors associated with traditional manufacturing methods, improving workflow efficiency and productivity for dental professionals.

Digital dentistry enables the creation of highly customized and patient-specific dental solutions tailored to individual clinical needs and esthetic preferences. Dental 3D printing facilitates the fabrication of patient-specific prosthetics, crowns, bridges, implants, and orthodontic appliances, ensuring optimal fit, comfort, and esthetics for each patient. Digital technologies enhance patient engagement and communication by visualizing treatment options, discussing treatment plans, and demonstrating potential outcomes in a virtual environment. Patients appreciate the convenience, transparency, and predictability of digital dentistry, leading to higher satisfaction and compliance with treatment recommendations.

While the initial investment in digital dental equipment and software may be significant, digital workflows offer long-term cost savings and sustainability benefits. Dental 3D printing reduces material waste, energy consumption, and reliance on traditional materials and processes, making it an environmentally friendly and cost-effective solution for dental practices and laboratories. The dental industry is witnessing a rapid transition towards digital solutions driven by advancements in technology, changing patient expectations, and industry standards. Dental professionals who embrace digital dentistry and adopt dental 3D printing technology gain a competitive edge in the market and position themselves as leaders in modern dental care. This factor will accelerate the demand of the Global Dental 3D Printing Market.

## Key Market Challenges

### Cost of Equipment

The upfront cost of purchasing 3D printers, scanners, and related equipment for dental 3D printing can be substantial, especially for high-quality, industrial-grade systems. Dental practices and laboratories must carefully evaluate their budgetary constraints and return on investment potential before investing in 3D printing technology. In addition to the initial investment in equipment, dental professionals must consider ongoing operating expenses such as material costs, maintenance, training, and software subscriptions. The total cost of ownership for dental 3D printing equipment and materials can add up over time, particularly for high-volume users or those requiring specialized materials. Dental 3D printing materials, including resins, polymers,

ceramics, and metals, can be expensive, especially for premium or specialized formulations. The cost of materials varies depending on factors such as material type, quality, quantity, and supplier. Dental professionals must factor material costs into their pricing strategies and treatment planning decisions to ensure profitability and sustainability.

### Material Selection and Biocompatibility

Dental prosthetics, implants, and appliances come into direct contact with oral tissues and fluids, making biocompatibility a critical consideration. Materials used in dental 3D printing must meet stringent regulatory requirements and standards to ensure they are safe and non-toxic for patients. Ensuring biocompatibility requires thorough testing and certification of materials to assess their potential risks and adverse effects on oral health. While the range of materials available for dental 3D printing has expanded in recent years, there is still a relatively limited selection compared to traditional manufacturing methods. Dental professionals may face challenges finding materials that meet their specific clinical and esthetic requirements, especially for specialized applications such as long-term implant restorations or orthodontic appliances. Dental prosthetics and appliances require materials with specific mechanical properties, durability, esthetics, and performance characteristics. Dental 3D printing materials must exhibit high strength, wear resistance, stability, and compatibility with oral conditions to ensure long-term functionality and esthetics. Finding materials that balance these properties while maintaining biocompatibility can be challenging.

### Key Market Trends

#### Customization and Personalization

Dental 3D printing technology enables dental professionals to deliver personalized treatment solutions tailored to each patient's unique clinical needs, oral anatomy, and esthetic preferences. Customized dental prosthetics, crowns, bridges, implants, and orthodontic appliances offer superior fit, comfort, and function compared to traditional, one-size-fits-all approaches. Advanced 3D scanning and imaging technologies capture detailed digital impressions of patients' teeth, gums, and oral structures with remarkable accuracy.

Dental professionals use CAD (computer-aided design) software to create virtual 3D models of dental restorations and appliances, allowing for precise customization and modification based on individual patient requirements. Dental 3D printing facilitates



comprehensive treatment planning and simulation by enabling dental professionals to visualize and evaluate different treatment options in a virtual environment. Customized treatment plans consider factors such as tooth morphology, occlusal relationships, bone density, and soft tissue contours to achieve optimal clinical outcomes and patient satisfaction.

Esthetics play a crucial role in modern dentistry, especially for restorative and cosmetic procedures. Dental 3D printing enables the fabrication of highly esthetic dental restorations, veneers, crowns, bridges, and aligners that closely match the natural appearance of teeth and gums. Customized esthetic solutions enhance smile design and facial harmony, improving patient confidence and satisfaction.

### Segmental Insights

#### Technology Insights

Based on the technology, Fused Deposition Modeling segment is projected to experience rapid growth in the Global Dental 3D Printing Market during the forecast period. FDM 3D printing technology is known for its relatively low equipment and material costs compared to other 3D printing technologies such as stereolithography (SLA) or selective laser sintering (SLS). Dental laboratories and practices can invest in FDM 3D printers at a more accessible price point, making it an attractive option for entry-level and small-scale operations.

FDM technology supports a wide range of thermoplastic materials suitable for dental applications, including biocompatible resins and high-performance polymers. These materials offer excellent mechanical properties, durability, and esthetics, making them suitable for fabricating a variety of dental prosthetics, orthodontic appliances, surgical guides, and temporary restorations. FDM 3D printers can produce dental prosthetics and appliances quickly and efficiently, thanks to their layer-by-layer deposition process. Dental professionals can benefit from reduced production times, faster turnaround times, and improved workflow efficiency compared to traditional manufacturing methods.

#### Application Insights

Based on the application, the prosthodontics segment is projected to experience rapid growth in the Global Dental 3D Printing Market during the forecast period. Prosthodontics involves the restoration and replacement of missing teeth and oral

structures. Dental 3D printing enables the fabrication of highly customized and precise dental prosthetics, including crowns, bridges, dentures, and dental implants. The ability to tailor prosthetic devices to each patient's unique anatomy and clinical needs contributes to improved fit, comfort, and esthetics. Traditional methods for fabricating dental prosthetics can be time-consuming and labor-intensive, involving multiple manual steps and laboratory procedures.

Dental 3D printing streamlines the production process by allowing dental professionals to digitally design and manufacture prosthetic devices in a fraction of the time required by conventional methods. This enables faster turnaround times and more efficient chairside delivery of prosthetic restorations. Dental patients increasingly expect personalized and convenient treatment options that minimize discomfort and inconvenience. Dental 3D printing facilitates same-day or next-day delivery of prosthetic restorations, reducing the need for multiple appointments and temporary prostheses. Patients benefit from shorter treatment times, reduced chairside discomfort, and improved treatment outcomes.

## Regional Insights

North America emerged as the dominant region in the Global Dental 3D Printing Market in 2023. North America, particularly the United States, is home to some of the world's leading dental technology companies and research institutions. The region has been at the forefront of technological innovation in digital dentistry, including the development and adoption of 3D printing technology for dental applications. North America boasts a robust healthcare infrastructure, including advanced dental practices, research facilities, and academic institutions.

The region's well-developed healthcare system provides a conducive environment for the adoption and integration of new technologies like dental 3D printing. With relatively high levels of disposable income, patients in North America often have greater access to advanced dental treatments and technologies. This creates a demand for innovative dental solutions, including 3D-printed prosthetics, crowns, bridges, and orthodontic appliances.

## Key Market Players

3D Systems Corporation

DENTSPLY SIRONA Inc.



Stratasys Ltd.

Institut Straumann AG

Shandong Huge Dental Material Corporation

Anson Supply Inc.

Nikon SLM Solutions AG

Formlabs Inc.

Desktop Metal, Inc.

#### Report Scope:

In this report, the Global Dental 3D Printing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Dental 3D Printing Market, By Product & Services:

- o Services
- o Polymers
- o Metals
- o Ceramics

#### Dental 3D Printing Market, By Technology:

- o Vat Photopolymerization
- o Polyjet

- o Fused Deposition Modeling
- o Selective Laser Sintering
- o Others

#### Dental 3D Printing Market, By Application:

- o Orthodontics
- o Prosthodontics
- o Implantology

#### Dental 3D Printing Market, By End User:

- o Dental Clinics
- o Dental Laboratories
- o Academic and Research Institutes

#### Dental 3D Printing Market, By Region:

- o North America
  - ? United States
  - ? Canada
  - ? Mexico
- o Europe
  - ? Germany

? United Kingdom

? France

? Italy

? Spain

o Asia-Pacific

? China

? Japan

? India

? Australia

? South Korea

o South America

? Brazil

? Argentina

? Colombia

o Middle East & Africa

? South Africa

? Saudi Arabia

? UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Dental 3D Printing Market.

Available Customizations:

Global Dental 3D Printing market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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