

Dental 3D Printing Market by Equipment (3D Scanner, Printer), Technology (VAT Photopolymerization, LCD, FDM, SLS), Material (Resins, Metal, Ceramics, Photopolymer), Application (Crown & Bridge, Dental Models, Aligner), End User - Global Forecast to 2030

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Report description:

The global dental 3D printing market is projected to reach USD 10.06 billion by 2030 from USD 3.96 billion in 2025, at a CAGR of 20.5% during the forecast period."

Increased awareness of oral health and a growing global population are expected to drive market growth. The market is anticipated to expand due to continuous advancements in 3D printing technology-improvements in hardware, software, and materials are enhancing accuracy, speed, and affordability, making this technology more accessible and appealing for dental applications. Additionally, aging populations that require more dental restorations are contributing to market growth.

However, the high costs associated with dental 3D printers and the strict regulatory processes for approving 3D printing equipment may limit market expansion to some extent.

Based on technology, the VAT photopolymerization segment is expected to account for the largest share of the dental 3D printing market.

The dental 3D printing market is divided into several technology segments: VAT photopolymerization (VPP), fused deposition modeling, selective laser sintering, polyjet printing, and other technologies. VAT photopolymerization (VPP) holds the largest market share in dental 3D printing due to its high accuracy, compatibility with a wide range of resins, and extensive clinical applications. Technologies such as SLA (Stereolithography) and DLP (Digital Light Processing) offer high-resolution, precise

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printing for various restorations, including crowns, bridges, aligners, surgical guides, and splints.

Dental laboratories prefer VPP systems because they can mass-produce individualized components cost-effectively, often creating several restorations in a single print cycle. The high print speeds and minimal post-processing requirements reduce turnaround times and enhance productivity. Additionally, smaller clinics and dental service organizations are increasingly choosing these compact and affordable systems for in-house production. Ongoing advancements in materials and integration with digital workflows further reinforce VAT photopolymerization's leading position in modern dental practices.

The resins segment is expected to grow at the highest CAGR of the dental 3D printing materials market during the forecast period.

The resins segment currently leads the dental 3D printing materials market and is expected to grow at the fastest rate between 2025 and 2030. This growth is driven by the increasing demand for reliable and versatile products used for a variety of applications, including dental models, crowns, bridges, surgical guides, and aligners. Resins are particularly compatible with popular 3D printing technologies such as SLA (Stereolithography) and DLP (Digital Light Processing), which are valued for their accuracy and speed.

The growth of the resins market is primarily fueled by advancements in resin technology. Recent formulations offer improved strength, enhanced biocompatibility, faster curing times, and color matching that seamlessly blends with patients' teeth. These innovations significantly enhance the quality of treatment and patient satisfaction. Additionally, resins are more cost-effective than alternative materials such as metals or ceramics. As 3D printing technology becomes more affordable and widely adopted, even small clinics and dental laboratories are beginning to embrace resin-based workflows. Their convenience and versatility make resins the preferred choice as the dental industry shifts toward digital, in-office care.

Based on applications, the models for clear aligners segment is expected to grow at the highest CAGR during the forecast period. The dental 3D printing market is segmented by application into several categories: temporary crowns & bridges, final crowns & bridges, dental models, surgical guides, removable partial frameworks, models for clear aligners, partial dentures, complete dentures, and other applications.

Among these, the models for clear aligners segment is expected to experience the highest CAGR between 2025 and 2030. This growth is driven by the increasing demand for clear aligner therapy and the essential role that 3D-printed dental models play in the production process. Most aligner systems utilize precise 3D-printed models for thermoforming aligners rather than directly 3D printing the aligners themselves, which still faces material limitations.

These models must be highly accurate, reproducible, and produced in large quantities-often requiring dozens of models per patient due to the sequential nature of aligner treatments. 3D printing has greatly enhanced clinical outcomes and workflow efficiency, allowing for improved treatment planning and patient-specific modifications. As companies adopt internal digital workflows to cut costs and reduce turnaround times, and as consumers increasingly prefer discreet, at-home orthodontic care, the demand for high-quality printed models continues to rise. Due to its scalability, compatibility with VAT photopolymerization, and vital role in the aligner manufacturing process, this segment of dental 3D printing is one of the industry's most dynamic and rapidly growing areas.

Asia Pacific is expected to grow at the highest CAGR in the dental 3D printing market during the forecast period.

The rapid population growth, growing awareness of oral health, and a flourishing middle class are driving a strong demand for dental services in the Asia Pacific region. Additionally, global leaders in dental 3D printing are expanding their presence in APAC by introducing advanced printers, innovative software, and a variety of biocompatible materials.

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A breakdown of the primary participants (supply side) for the dental 3D printing market referred to in this report is provided below:

- By Company Type: Tier 1 (30%), Tier 2 (35%), and Tier 3 (35%)
- By Designation: C-level Executives (27%), Directors (38%), and Others (35%)
- By Region: North America (30%), Europe (25%), Asia Pacific (20%), Latin America (20%), Middle East & Africa (2%), GCC Countries (3%)

Prominent players in the dental 3D printing market include Stratasys (US and Israel), 3D Systems, Inc. (US), Desktop Metal, Inc. (US), DWS S.r.l. (Italy), Align Technology, Inc. (US), Formlabs (US), Prodways Group (France), Nikon SLM Solutions AG (Germany), Carbon, Inc. (US), Colibrium Additive - a GE Aerospace company (US), EOS GmbH (Germany), Asiga (Australia), Rapid Shape GmbH (Germany), Roland DGA Corporation (Japan), Dentsply Sirona (US), SprintRay Inc. (US), ZORTRAX (Poland), DETAX Ettlingen (Germany), DMG America (US), 3DRESYNS (Spain), Micron Dental (US), ACKURETTA (Taiwan), Carima Co., Ltd. (South Korea), Planmeca OY (Finland), SHINING 3D (China).

Research Coverage

The report provides an analysis of the dental 3D printing market, focusing on estimating the market size and potential for future growth across various segments, including end users, regions, applications, technologies, and products & services. Additionally, the report features a competitive analysis of the key players in the market, detailing their company profiles, product & service offerings, recent developments, and key market strategies.

Reasons to Buy the Report

The report provides valuable insights for both market leaders and new entrants in the dental 3D printing industry, offering approximate revenue figures for the overall market and its subsegments. It assists stakeholders in understanding the competitive landscape, enabling them to better position their businesses and develop effective go-to-market strategies. Additionally, the report highlights key market drivers, restraints, challenges, and opportunities, helping stakeholders gauge the current state of the market.

This report provides insights into the following pointers:

- Analysis of key drivers (rapidity, accuracy, and less labor-intensive process; high cases of dental infections and diseases; rising demand in the field of cosmetic dentistry; increasing cases of tooth loss among geriatric population), restraints (high cost of dental 3D printers and lack of skilled workforce due to limited specialized training in additive manufacturing), opportunities (potential for growth in emerging countries and consolidation of dental practices and rising DSO activity), and challenges (stringent regulatory requirements for dental 3D printing equipment and materials).
- Market Penetration: It provides detailed information on the product portfolios offered by major players in the global dental 3D printing market. The report covers various segments, including products & services, technologies, applications, end users, and regions.
- Product Enhancement/Innovation: Comprehensive details about new product launches and anticipated trends in the global dental 3D printing market.
- Market Development: Thorough knowledge and analysis of the profitable rising markets by product & service, technology, application, end user, and region.
- Market Diversification: Comprehensive information about newly launched products and services, expanding markets, current advancements, and investments in the global dental 3D printing market.
- Competitive Assessment: Thorough evaluation of the market shares, growth plans, offerings of products and services, and capacities of the major competitors in the global dental 3D printing market.

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