

U.S. Dental 3D Printing Market Size, Share & Trends Analysis Report, By Application (Orthodontics, Prosthodontics), By Technology (Selective Laser Sintering), By Material (Photopolymer, Ceramic), By End-use, And Segment Forecasts, 2024 - 2030

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Abstracts

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U.S. Dental 3D Printing Market Growth & Trends

The U.S. dental 3D printing market size is anticipated to reach USD 4.96 billion by 2030, growing at a CAGR of 25.8% from 2024 to 2030, according to a new report by Grand View Research, Inc. The increasing demand for customized treatments, advancements in materials, increased cost efficiency, and time reduction are the key growth drivers for the market.

The dental prosthetics market, particularly in 3D printing, is experiencing rapid growth and is projected to expand further in developing countries. The American College of Prosthodontists reported that 15% of the edentulous population annually requires dentures. Edentulism disproportionately affects economically challenged and aging populations. In addition, according to the information updated by the American Dental Association in December 2023, around 120 million individuals in the country suffered from tooth loss, while over 36 million Americans were affected with complete edentulism. This number is expected to increase, driving the market growth.

In recent years, the industry has experienced substantial growth. Key players in this sector employ acquisition and collaborative strategies to expand their reach by leveraging their diverse product offerings. The competitive landscape is anticipated to

intensify as the market witnesses increased product innovation, enhanced research and development in materials, and a surge in mergers and acquisitions. For instance, in January 2024, Align Technology, Inc., the U.S.-based medical device company, completed the acquisition of Cubicure GmbH, which specializes in direct 3D printing solutions for polymer additive manufacturing, which is expected to help the company enhance its 3D printing portfolio in orthodontics.

U.S. Dental 3D Printing Market Report Highlights

Based on application, the orthodontics segment held the largest revenue share of 39.6% in 2023 and is expected to grow at a significant CAGR from 2024 to 2030. The growth is attributed to the rising number of cases of misalignment and gaps in the teeth.

Based on technology, the selective laser sintering segment dominated the market with the largest revenue share in 2023 and is likely to maintain its position from 2024 to 2030, due to its widespread benefits over other technologies.

Based on material, the photopolymer segment held the largest revenue share in 2023 owing to the ability to closely mimic the mechanical, optical, and thermal properties of natural teeth.

Based on end-use, the dental laboratories segment dominated the market and accounted for the largest revenue share in 2023 and is expected to grow at the fastest CAGR from 2024 to 2030.

In March 2023, 3D Systems launched significant advancements to fortify its prominent digital dentistry portfolio including the introduction of two new materials, NextDent Base and NextDent Cast, and a novel printing platform, the NextDent LCD1.

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