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Dental 3D Printing Devices Market By Equipment (3D Scanner, Printer) , By Technology (Stereolithography, LCD, FDM, SLS) By Material (Plastics, Metals) By Application (Prosthodontics, Orthodontics, Implantology) By End User (Dental Labs, Hospitals, Clinics) : Global Opportunity Analysis and Industry Forecast, 2024-2033

https://marketpublishers.com/r/D32A39E2F6CBEN.html
Date: July 2024
Pages: 280
Price: US$ 2,655.00 (Single User License)
ID: D32A39E2F6CBEN

Abstracts

Dental 3D Printing Devices Market

The dental 3D printing devices market was valued at $8.9 billion in 2023 and is projected t%li%reach $52.2 billion by 2033, growing at a CAGR of 19.4% from 2024 t%li%2033.

Dental 3D printing is a revolution in dentistry as it allows for efficient, precise, and customizable solutions for several dental procedures. The technique uses advanced additive manufacturing technologies in dental 3D printers t%li%create precise dental models, crowns, dentures, bridges, surgical guides, and clear aligners. The process of 3D printing involves digital scanning of a patient's mouth t%li%design the model using specialized software. Biocompatible materials such as resin or ceramics are used t%li%print models, ensuring safety and durability. Dental 3D printing is known for its cost-effectiveness as the material waste generated is minimal and labor costs are significantly lower in comparison t%li%traditional manufacturing methods.

Increase in the incidence of dental problems such as tooth decay, dental injuries, and periodontal diseases is one of the key drivers of the dental 3D printing market. Moreover, individuals have become highly aware regarding their oral health over the

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years, hence leading t%li%surge in demand for dental services, including dental 3D printing. Currently, the usage of dual nozzle printing technology is gaining prominence as it supports dual-color 3D prosthetics which imitate the shades of teeth and gums.

However, the cost of procuring a 3D printer is a significant expense which deters several small-scale dental practitioners from investing. In addition, the conventional dental manufacturing procedures, including milling and casting, have a widespread adoption which poses a significant challenge for the dental 3D printing technique t%li%extend its influence. On the contrary, there are several lucrative opportunities in the market indicating its promising future ahead. For instance, the assimilation of 3D printing with digital scanning techniques is helping t%li%streamline the workflow in dental practices and laboratories. According t%li%an article by Dentsply Sirona, a global dental equipment manufacturer, adoption of digital workflows in dentistry is making practices highly efficient and is improving patient treatment outcomes.

Segment Review

The dental 3D printing devices market is segmented int%li%equipment, technology, material, application, end user, and region. By equipment, the market is bifurcated int%li%3D scanner and printer. As per technology, it is classified int%li%stereolithography, LCD, FDM, and SLS. On the basis of material, it is divided int%li%plastics and metals. Depending on application, it is categorized int%li%prosthodontics, orthodontics, and implantology. According t%li%end user, it is segmented int%li%dental labs, hospitals, and clinics. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By equipment, the 3D scanner segment dominated the market in 2023.

As per technology, the stereolithography segment accounted for the highest market share in 2023.

On the basis of material, the plastics segment acquired a large market share in 2023.

Depending on application, the prosthodontics segment was the highest shareholder in 2023.

According t%li%end user, the dental laboratories segment garnered a high market share in 2023.

Region wise, North America was the largest revenue generator in 2023.

Competition Analysis

The major players operating in the global dental 3D printing devices market include 3D Systems, Inc., Formlabs, Nexa3D, Zortrax, Quoris3D, Dentsply Sirona, NextDent B.V., Renishaw Plc., Desktop Metal, Inc, and Institut Straumann AG. These players have adopted various key developmental strategies such as business expansion, new product launches, and partnerships t%li%strengthen their foothold in the market.

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Regulatory Guidelines

Additional company profiles with specific t%li%client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Key Market Segments

By Equipment

3D Scanner

Printer

By Technology

Stereolithography

LCD

FDM

SLS

By Material

Plastics

Metals

By Application

Prosthodontics

Orthodontics

Implantology

By End User

Dental Labs

Hospitals

Clinics

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

Australia

India

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

3D Systems, Inc.

Formlabs

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Nexa3D

Zortrax

Quoris3D

Dentsply Sirona

NextDent B.V.

Renishaw plc.

Desktop Metal, Inc

Institut Straumann AG

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CHAPTER 9: COMPANY PROFILES

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