

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

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Abstracts

Dental 3D Printing Devices Market

The dental 3D printing devices market was valued at \$8.9 billion in 2023 and is projected to reach \$52.2 billion by 2033, growing at a CAGR of 19.4% from 2024 to 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 to 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 to design the model using specialized software. Biocompatible materials such as resin or ceramics are used to 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 to 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

years, hence leading to a 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 to 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 to streamline the workflow in dental practices and laboratories. According to 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 into equipment, technology, material, application, end user, and region. By equipment, the market is bifurcated into 3D scanner and printer. As per technology, it is classified into stereolithography, LCD, FDM, and SLS. On the basis of material, it is divided into plastics and metals. Depending on application, it is categorized into prosthodontics, orthodontics, and implantology. According to end user, it is segmented into 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 to the 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 to strengthen their foothold in the market.

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Regulatory Guidelines

Additional company profiles with specific 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

Nexa3D

Zortrax

Quoris3D

Dentsply Sirona

NextDent B.V.

Renishaw plc.

Desktop Metal, Inc

Institut Straumann AG

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
 - 3.3.1. Bargaining Power of Suppliers
 - 3.3.2. Threat of New Entrants
 - 3.3.3. Threat of Substitutes
 - 3.3.4. Competitive Rivalry
 - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: HEALTH INSURANCE EXCHANGE MARKET, BY TYPE OF INSURANCE

- 4.1. Market Overview
 - 4.1.1 Market Size and Forecast, By Type of Insurance
- 4.2. Individual Health Insurance

- 4.2.1. Key Market Trends, Growth Factors and Opportunities
- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Family Health Insurance
 - 4.3.1. Key Market Trends, Growth Factors and Opportunities
 - 4.3.2. Market Size and Forecast, By Region
 - 4.3.3. Market Share Analysis, By Country
- 4.4. Group Health Insurance
 - 4.4.1. Key Market Trends, Growth Factors and Opportunities
 - 4.4.2. Market Size and Forecast, By Region
 - 4.4.3. Market Share Analysis, By Country

CHAPTER 5: HEALTH INSURANCE EXCHANGE MARKET, BY DISTRIBUTION CHANNEL

- 5.1. Market Overview
 - 5.1.1 Market Size and Forecast, By Distribution Channel
- 5.2. Online
 - 5.2.1. Key Market Trends, Growth Factors and Opportunities
 - 5.2.2. Market Size and Forecast, By Region
 - 5.2.3. Market Share Analysis, By Country
- 5.3. offline
 - 5.3.1. Key Market Trends, Growth Factors and Opportunities
 - 5.3.2. Market Size and Forecast, By Region
 - 5.3.3. Market Share Analysis, By Country

CHAPTER 6: HEALTH INSURANCE EXCHANGE MARKET, BY END USER

- 6.1. Market Overview
 - 6.1.1 Market Size and Forecast, By End User
- 6.2. Children
 - 6.2.1. Key Market Trends, Growth Factors and Opportunities
 - 6.2.2. Market Size and Forecast, By Region
 - 6.2.3. Market Share Analysis, By Country
- 6.3. Adults
 - 6.3.1. Key Market Trends, Growth Factors and Opportunities
 - 6.3.2. Market Size and Forecast, By Region
 - 6.3.3. Market Share Analysis, By Country
- 6.4. Senior Citizens

- 6.4.1. Key Market Trends, Growth Factors and Opportunities
- 6.4.2. Market Size and Forecast, By Region
- 6.4.3. Market Share Analysis, By Country

CHAPTER 7: HEALTH INSURANCE EXCHANGE MARKET, BY REGION

7.1. Market Overview

- 7.1.1 Market Size and Forecast, By Region

7.2. North America

- 7.2.1. Key Market Trends and Opportunities
- 7.2.2. Market Size and Forecast, By Type of Insurance
- 7.2.3. Market Size and Forecast, By Distribution Channel
- 7.2.4. Market Size and Forecast, By End User
- 7.2.5. Market Size and Forecast, By Country
- 7.2.6. U.S. Health Insurance Exchange Market
 - 7.2.6.1. Market Size and Forecast, By Type of Insurance
 - 7.2.6.2. Market Size and Forecast, By Distribution Channel
 - 7.2.6.3. Market Size and Forecast, By End User
- 7.2.7. Canada Health Insurance Exchange Market
 - 7.2.7.1. Market Size and Forecast, By Type of Insurance
 - 7.2.7.2. Market Size and Forecast, By Distribution Channel
 - 7.2.7.3. Market Size and Forecast, By End User
- 7.2.8. Mexico Health Insurance Exchange Market
 - 7.2.8.1. Market Size and Forecast, By Type of Insurance
 - 7.2.8.2. Market Size and Forecast, By Distribution Channel
 - 7.2.8.3. Market Size and Forecast, By End User

7.3. Europe

- 7.3.1. Key Market Trends and Opportunities
- 7.3.2. Market Size and Forecast, By Type of Insurance
- 7.3.3. Market Size and Forecast, By Distribution Channel
- 7.3.4. Market Size and Forecast, By End User
- 7.3.5. Market Size and Forecast, By Country
- 7.3.6. Germany Health Insurance Exchange Market
 - 7.3.6.1. Market Size and Forecast, By Type of Insurance
 - 7.3.6.2. Market Size and Forecast, By Distribution Channel
 - 7.3.6.3. Market Size and Forecast, By End User
- 7.3.7. Italy Health Insurance Exchange Market
 - 7.3.7.1. Market Size and Forecast, By Type of Insurance
 - 7.3.7.2. Market Size and Forecast, By Distribution Channel

- 7.3.7.3. Market Size and Forecast, By End User
- 7.3.8. Spain Health Insurance Exchange Market
 - 7.3.8.1. Market Size and Forecast, By Type of Insurance
 - 7.3.8.2. Market Size and Forecast, By Distribution Channel
 - 7.3.8.3. Market Size and Forecast, By End User
- 7.3.9. UK Health Insurance Exchange Market
 - 7.3.9.1. Market Size and Forecast, By Type of Insurance
 - 7.3.9.2. Market Size and Forecast, By Distribution Channel
 - 7.3.9.3. Market Size and Forecast, By End User
- 7.3.10. France Health Insurance Exchange Market
 - 7.3.10.1. Market Size and Forecast, By Type of Insurance
 - 7.3.10.2. Market Size and Forecast, By Distribution Channel
 - 7.3.10.3. Market Size and Forecast, By End User
- 7.3.11. Rest of Europe Health Insurance Exchange Market
 - 7.3.11.1. Market Size and Forecast, By Type of Insurance
 - 7.3.11.2. Market Size and Forecast, By Distribution Channel
 - 7.3.11.3. Market Size and Forecast, By End User
- 7.4. Asia-Pacific
 - 7.4.1. Key Market Trends and Opportunities
 - 7.4.2. Market Size and Forecast, By Type of Insurance
 - 7.4.3. Market Size and Forecast, By Distribution Channel
 - 7.4.4. Market Size and Forecast, By End User
 - 7.4.5. Market Size and Forecast, By Country
 - 7.4.6. China Health Insurance Exchange Market
 - 7.4.6.1. Market Size and Forecast, By Type of Insurance
 - 7.4.6.2. Market Size and Forecast, By Distribution Channel
 - 7.4.6.3. Market Size and Forecast, By End User
 - 7.4.7. Japan Health Insurance Exchange Market
 - 7.4.7.1. Market Size and Forecast, By Type of Insurance
 - 7.4.7.2. Market Size and Forecast, By Distribution Channel
 - 7.4.7.3. Market Size and Forecast, By End User
 - 7.4.8. India Health Insurance Exchange Market
 - 7.4.8.1. Market Size and Forecast, By Type of Insurance
 - 7.4.8.2. Market Size and Forecast, By Distribution Channel
 - 7.4.8.3. Market Size and Forecast, By End User
 - 7.4.9. South Korea Health Insurance Exchange Market
 - 7.4.9.1. Market Size and Forecast, By Type of Insurance
 - 7.4.9.2. Market Size and Forecast, By Distribution Channel
 - 7.4.9.3. Market Size and Forecast, By End User

- 7.4.10. Australia Health Insurance Exchange Market
 - 7.4.10.1. Market Size and Forecast, By Type of Insurance
 - 7.4.10.2. Market Size and Forecast, By Distribution Channel
 - 7.4.10.3. Market Size and Forecast, By End User
- 7.4.11. Rest of Asia-Pacific Health Insurance Exchange Market
 - 7.4.11.1. Market Size and Forecast, By Type of Insurance
 - 7.4.11.2. Market Size and Forecast, By Distribution Channel
 - 7.4.11.3. Market Size and Forecast, By End User
- 7.5. LAMEA
 - 7.5.1. Key Market Trends and Opportunities
 - 7.5.2. Market Size and Forecast, By Type of Insurance
 - 7.5.3. Market Size and Forecast, By Distribution Channel
 - 7.5.4. Market Size and Forecast, By End User
 - 7.5.5. Market Size and Forecast, By Country
 - 7.5.6. Brazil Health Insurance Exchange Market
 - 7.5.6.1. Market Size and Forecast, By Type of Insurance
 - 7.5.6.2. Market Size and Forecast, By Distribution Channel
 - 7.5.6.3. Market Size and Forecast, By End User
 - 7.5.7. Saudi Arabia Health Insurance Exchange Market
 - 7.5.7.1. Market Size and Forecast, By Type of Insurance
 - 7.5.7.2. Market Size and Forecast, By Distribution Channel
 - 7.5.7.3. Market Size and Forecast, By End User
 - 7.5.8. UAE Health Insurance Exchange Market
 - 7.5.8.1. Market Size and Forecast, By Type of Insurance
 - 7.5.8.2. Market Size and Forecast, By Distribution Channel
 - 7.5.8.3. Market Size and Forecast, By End User
 - 7.5.9. South Africa Health Insurance Exchange Market
 - 7.5.9.1. Market Size and Forecast, By Type of Insurance
 - 7.5.9.2. Market Size and Forecast, By Distribution Channel
 - 7.5.9.3. Market Size and Forecast, By End User
 - 7.5.10. Rest of LAMEA Health Insurance Exchange Market
 - 7.5.10.1. Market Size and Forecast, By Type of Insurance
 - 7.5.10.2. Market Size and Forecast, By Distribution Channel
 - 7.5.10.3. Market Size and Forecast, By End User

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Top Winning Strategies

- 8.3. Product Mapping of Top 10 Player
- 8.4. Competitive Dashboard
- 8.5. Competitive Heatmap
- 8.6. Top Player Positioning, 2023

CHAPTER 9: COMPANY PROFILES

- 9.1. Allianz
 - 9.1.1. Company Overview
 - 9.1.2. Key Executives
 - 9.1.3. Company Snapshot
 - 9.1.4. Operating Business Segments
 - 9.1.5. Product Portfolio
 - 9.1.6. Business Performance
 - 9.1.7. Key Strategic Moves and Developments
- 9.2. Ping An Insurance
 - 9.2.1. Company Overview
 - 9.2.2. Key Executives
 - 9.2.3. Company Snapshot
 - 9.2.4. Operating Business Segments
 - 9.2.5. Product Portfolio
 - 9.2.6. Business Performance
 - 9.2.7. Key Strategic Moves and Developments
- 9.3. China Life Insurance Company
 - 9.3.1. Company Overview
 - 9.3.2. Key Executives
 - 9.3.3. Company Snapshot
 - 9.3.4. Operating Business Segments
 - 9.3.5. Product Portfolio
 - 9.3.6. Business Performance
 - 9.3.7. Key Strategic Moves and Developments
- 9.4. AIA Group
 - 9.4.1. Company Overview
 - 9.4.2. Key Executives
 - 9.4.3. Company Snapshot
 - 9.4.4. Operating Business Segments
 - 9.4.5. Product Portfolio
 - 9.4.6. Business Performance
 - 9.4.7. Key Strategic Moves and Developments

9.5. Aviva

- 9.5.1. Company Overview
- 9.5.2. Key Executives
- 9.5.3. Company Snapshot
- 9.5.4. Operating Business Segments
- 9.5.5. Product Portfolio
- 9.5.6. Business Performance
- 9.5.7. Key Strategic Moves and Developments

9.6. Prudential Financial

- 9.6.1. Company Overview
- 9.6.2. Key Executives
- 9.6.3. Company Snapshot
- 9.6.4. Operating Business Segments
- 9.6.5. Product Portfolio
- 9.6.6. Business Performance
- 9.6.7. Key Strategic Moves and Developments

9.7. Zurich Insurance Group

- 9.7.1. Company Overview
- 9.7.2. Key Executives
- 9.7.3. Company Snapshot
- 9.7.4. Operating Business Segments
- 9.7.5. Product Portfolio
- 9.7.6. Business Performance
- 9.7.7. Key Strategic Moves and Developments

9.8. Metlife

- 9.8.1. Company Overview
- 9.8.2. Key Executives
- 9.8.3. Company Snapshot
- 9.8.4. Operating Business Segments
- 9.8.5. Product Portfolio
- 9.8.6. Business Performance
- 9.8.7. Key Strategic Moves and Developments

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