

3D CAD Software Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global 3D CAD software market reached a value of US\$ 10.25 Billion in 2021. Looking forward, IMARC Group expects the market to reach a value of US\$ 15.42 Billion by 2027, exhibiting a CAGR of 6.70% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Three-dimensional (3D) computer-aided design (CAD) software is replacing manual drafting for designing and technical documentation. It is widely utilized by designers, architects, engineers, and other professionals as it precisely represents and visualizes objects using a collection of points in 3D on a device. It also aids in improving accuracy for drawing precise dimensions and providing access to libraries of routinely used items, such as doors, windows, and manufacturing parts. Nowadays, market players are offering a broad portfolio of 3D CAD software programs to help users explore and share ideas, visualize concepts, and simulate designs before they are made.

3D CAD Software Market Trends:

The rising complexity of architectural structures, along with increasing investments in infrastructure, represents one of the key factors encouraging the adoption of 3D CAD software across the globe for creating functional, virtual prototypes and modifying minute details of a product, part, or assembly. It also facilitates and automates other aspects of product engineering, such as simulation testing, drawing and drafting, manufacturing, data management, and computer-generated animation. Apart from this, as 3D models can be rendered to create photo-realistic images for use in sales and marketing materials, the demand for 3D CAD software is escalating in enterprises

around the world. Moreover, with the proliferation of home manufacturing technology like 3D printers and open-source projects, there is a rise in the need for accessible and free CAD software. Besides this, recent advances in 3D CAD software, including generative design, additive manufacturing, and enhanced reverse engineering capabilities, and the launch of cloud-based variants with remote features are anticipated to provide numerous growth opportunities to industry investors in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global 3D CAD software market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on deployment and application.

Breakup by Deployment:

- Cloud-based
- On-premises

Breakup by Application:

- Architecture, Engineering and Construction (AEC)
- Manufacturing
- Automotive
- Healthcare
- Media and Entertainment
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia
- Indonesia

Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Autodesk Inc., AVEVA Group plc, Bentley Systems Incorporated, Dassault Systemes SE, Hexagon AB, IronCAD LLC, PTC Inc., SCHOTT SYSTEME GmbH, Siemens AG, Trimble Inc. and ZWCAD Software Co. Ltd.

Key Questions Answered in This Report:

How has the global 3D CAD software market performed so far and how will it perform in the coming years?
What has been the impact of COVID-19 on the global 3D CAD software market?
What are the key regional markets?
What is the breakup of the market based on the deployment?
What is the breakup of the market based on the application?
What are the various stages in the value chain of the industry?
What are the key driving factors and challenges in the industry?
What is the structure of the global 3D CAD software market and who are the key players?
What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL 3D CAD SOFTWARE MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY DEPLOYMENT

- 6.1 Cloud-based
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 On-premises
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 Architecture, Engineering, and Construction (AEC)

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Manufacturing

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Automotive

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Healthcare

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Media and Entertainment

7.5.1 Market Trends

7.5.2 Market Forecast

7.6 Others

7.6.1 Market Trends

7.6.2 Market Forecast

8 MARKET BREAKUP BY REGION

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

- 8.2.3.2 Market Forecast
- 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
- 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast

8.4.2 Mexico

8.4.2.1 Market Trends

8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

9 SWOT ANALYSIS

9.1 Overview

9.2 Strengths

9.3 Weaknesses

9.4 Opportunities

9.5 Threats

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 Autodesk Inc.

13.3.1.1 Company Overview

- 13.3.1.2 Product Portfolio
- 13.3.1.3 Financials
- 13.3.1.4 SWOT Analysis
- 13.3.2 AVEVA Group plc
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.2.3 Financials
- 13.3.3 Bentley Systems Incorporated
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
 - 13.3.3.3 Financials
- 13.3.4 Dassault Systemes SE
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
 - 13.3.4.3 Financials
 - 13.3.4.4 SWOT Analysis
- 13.3.5 Hexagon AB
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
 - 13.3.5.4 SWOT Analysis
- 13.3.6 IronCAD LLC
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
- 13.3.7 PTC Inc.
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.7.3 Financials
 - 13.3.7.4 SWOT Analysis
- 13.3.8 SCHOTT SYSTEME GmbH
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
- 13.3.9 Siemens AG
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio
 - 13.3.9.3 Financials
 - 13.3.9.4 SWOT Analysis
- 13.3.10 Trimble Inc.
 - 13.3.10.1 Company Overview

13.3.10.2 Product Portfolio

13.3.10.3 Financials

13.3.11 ZWCAD Software Co. Ltd.

13.3.11.1 Company Overview

13.3.11.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: 3D CAD Software Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: 3D CAD Software Market Forecast: Breakup by Deployment (in Million US\$), 2022-2027

Table 3: Global: 3D CAD Software Market Forecast: Breakup by Application (in Million US\$), 2022-2027

Table 4: Global: 3D CAD Software Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 5: Global: 3D CAD Software Market: Competitive Structure

Table 6: Global: 3D CAD Software Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: 3D CAD Software Market: Major Drivers and Challenges

Figure 2: Global: 3D CAD Software Market: Sales Value (in Billion US\$), 2016-2021

Figure 3: Global: 3D CAD Software Market Forecast: Sales Value (in Billion US\$), 2022-2027

Figure 4: Global: 3D CAD Software Market: Breakup by Deployment (in %), 2021

Figure 5: Global: 3D CAD Software Market: Breakup by Application (in %), 2021

Figure 6: Global: 3D CAD Software Market: Breakup by Region (in %), 2021

Figure 7: Global: 3D CAD Software (Cloud-based) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 8: Global: 3D CAD Software (Cloud-based) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 9: Global: 3D CAD Software (On-premises) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 10: Global: 3D CAD Software (On-premises) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 11: Global: 3D CAD Software (Architecture, Engineering, and Construction (AEC)) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 12: Global: 3D CAD Software (Architecture, Engineering, and Construction (AEC)) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 13: Global: 3D CAD Software (Manufacturing) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 14: Global: 3D CAD Software (Manufacturing) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 15: Global: 3D CAD Software (Automotive) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 16: Global: 3D CAD Software (Automotive) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 17: Global: 3D CAD Software (Healthcare) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 18: Global: 3D CAD Software (Healthcare) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 19: Global: 3D CAD Software (Media and Entertainment) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 20: Global: 3D CAD Software (Media and Entertainment) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: 3D CAD Software (Other Applications) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 22: Global: 3D CAD Software (Other Applications) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 23: North America: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: North America: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: United States: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: United States: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Canada: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Canada: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Asia-Pacific: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Asia-Pacific: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: China: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: China: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Japan: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Japan: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: India: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: India: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: South Korea: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: South Korea: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: Australia: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: Australia: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 41: Indonesia: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 42: Indonesia: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 43: Others: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: Others: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: Europe: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: Europe: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: Germany: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: Germany: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: France: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: France: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: United Kingdom: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: United Kingdom: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: Italy: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: Italy: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: Spain: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: Spain: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: Russia: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: Russia: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: Others: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: Others: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 61: Latin America: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Latin America: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: Brazil: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: Brazil: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: Mexico: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: Mexico: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 67: Others: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 68: Others: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 69: Middle East and Africa: 3D CAD Software Market: Sales Value (in Million US\$), 2016 & 2021

Figure 70: Middle East and Africa: 3D CAD Software Market: Breakup by Country (in %), 2021

Figure 71: Middle East and Africa: 3D CAD Software Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 72: Global: 3D CAD Software Industry: SWOT Analysis

Figure 73: Global: 3D CAD Software Industry: Value Chain Analysis

Figure 74: Global: 3D CAD Software Industry: Porter's Five Forces Analysis

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