

# 2020-2025 Global Generative Design Market Report - Production and Consumption Professional Analysis (Impact of COVID-19)

<https://marketpublishers.com/r/26F2C6EAA996EN.html>

Date: August 2021

Pages: 97

Price: US\$ 3,360.00 (Single User License)

ID: 26F2C6EAA996EN

## Abstracts

Generative design is an iterative design process that involves a program that will generate a certain number of outputs that meet certain constraints, and a designer that will fine tune the feasible region by changing minimal and maximal values of an interval in which a variable of the program meets the set of constraints, in order to reduce or augment the number of outputs to choose from. The program doesn't need to be run on a machine like a digital computer, it can be run by a human for example with pen and paper.

This report elaborates the market size, market characteristics, and market growth of the Generative Design industry, and breaks down according to the type, application, and consumption area of Generative Design. The report also conducted a PESTEL analysis of the industry to study the main influencing factors and entry barriers of the industry.

In Chapter 3.4 of the report, the impact of the COVID-19 outbreak on the industry was fully assessed. Fully risk assessment and industry recommendations were made for Generative Design in a special period. This chapter also compares the markets of Pre COVID-19 and Post COVID-19.

In addition, chapters 8-12 consider the impact of COVID-19 on the regional economy.

Key players in the global Generative Design market covered in Chapter 13:

Altair (US)

ANSYS (US)

ESI Group (France)

Paramatters (US)  
Dassault Systèmes (France)  
Autodesk (US)  
Desktop Metal (US)  
Bentley Systems (US)  
nTopology (US)  
MSC Software (US)

In Chapter 6, on the basis of types, the Generative Design market from 2015 to 2025 is primarily split into:

Product Design & Development  
Cost Optimization

In Chapter 7, on the basis of applications, the Generative Design market from 2015 to 2025 covers:

Automotive  
Aerospace & Defense  
Industrial Manufacturing  
Others

Geographically, the detailed analysis of production, trade of the following countries is covered in Chapter 4.2, 5:

United States  
Europe  
China  
Japan  
India

Geographically, the detailed analysis of consumption, revenue, market share and growth rate of the following regions are covered in Chapter 8, 9, 10, 11, 12:

North America (Covered in Chapter 8)  
United States  
Canada  
Mexico  
Europe (Covered in Chapter 9)

Germany  
UK  
France  
Italy  
Spain  
Others  
Asia-Pacific (Covered in Chapter 10)  
China  
Japan  
India  
South Korea  
Southeast Asia  
Others  
Middle East and Africa (Covered in Chapter 11)  
Saudi Arabia  
UAE  
South Africa  
Others  
South America (Covered in Chapter 12)  
Brazil  
Others

Years considered for this report:

Historical Years: 2015-2019  
Base Year: 2019  
Estimated Year: 2020  
Forecast Period: 2020-2025

## Contents

### **1 GENERATIVE DESIGN MARKET - RESEARCH SCOPE**

- 1.1 Study Goals
- 1.2 Market Definition and Scope
- 1.3 Key Market Segments
- 1.4 Study and Forecasting Years

### **2 GENERATIVE DESIGN MARKET - RESEARCH METHODOLOGY**

- 2.1 Methodology
- 2.2 Research Data Source
  - 2.2.1 Secondary Data
  - 2.2.2 Primary Data
  - 2.2.3 Market Size Estimation
  - 2.2.4 Legal Disclaimer

### **3 GENERATIVE DESIGN MARKET FORCES**

- 3.1 Global Generative Design Market Size
- 3.2 Top Impacting Factors (PESTEL Analysis)
  - 3.2.1 Political Factors
  - 3.2.2 Economic Factors
  - 3.2.3 Social Factors
  - 3.2.4 Technological Factors
  - 3.2.5 Environmental Factors
  - 3.2.6 Legal Factors
- 3.3 Industry Trend Analysis
- 3.4 Industry Trends Under COVID-19
  - 3.4.1 Risk Assessment on COVID-19
  - 3.4.2 Assessment of the Overall Impact of COVID-19 on the Industry
  - 3.4.3 Pre COVID-19 and Post COVID-19 Market Scenario
- 3.5 Industry Risk Assessment

### **4 GENERATIVE DESIGN MARKET - BY GEOGRAPHY**

- 4.1 Global Generative Design Market Value and Market Share by Regions
  - 4.1.1 Global Generative Design Value (\$) by Region (2015-2020)

- 4.1.2 Global Generative Design Value Market Share by Regions (2015-2020)
- 4.2 Global Generative Design Market Production and Market Share by Major Countries
  - 4.2.1 Global Generative Design Production by Major Countries (2015-2020)
  - 4.2.2 Global Generative Design Production Market Share by Major Countries (2015-2020)
- 4.3 Global Generative Design Market Consumption and Market Share by Regions
  - 4.3.1 Global Generative Design Consumption by Regions (2015-2020)
  - 4.3.2 Global Generative Design Consumption Market Share by Regions (2015-2020)

## **5 GENERATIVE DESIGN MARKET - BY TRADE STATISTICS**

- 5.1 Global Generative Design Export and Import
- 5.2 United States Generative Design Export and Import (2015-2020)
- 5.3 Europe Generative Design Export and Import (2015-2020)
- 5.4 China Generative Design Export and Import (2015-2020)
- 5.5 Japan Generative Design Export and Import (2015-2020)
- 5.6 India Generative Design Export and Import (2015-2020)
- 5.7 ...

## **6 GENERATIVE DESIGN MARKET - BY TYPE**

- 6.1 Global Generative Design Production and Market Share by Types (2015-2020)
  - 6.1.1 Global Generative Design Production by Types (2015-2020)
  - 6.1.2 Global Generative Design Production Market Share by Types (2015-2020)
- 6.2 Global Generative Design Value and Market Share by Types (2015-2020)
  - 6.2.1 Global Generative Design Value by Types (2015-2020)
  - 6.2.2 Global Generative Design Value Market Share by Types (2015-2020)
- 6.3 Global Generative Design Production, Price and Growth Rate of Product Design & Development (2015-2020)
- 6.4 Global Generative Design Production, Price and Growth Rate of Cost Optimization (2015-2020)

## **7 GENERATIVE DESIGN MARKET - BY APPLICATION**

- 7.1 Global Generative Design Consumption and Market Share by Applications (2015-2020)
  - 7.1.1 Global Generative Design Consumption by Applications (2015-2020)
  - 7.1.2 Global Generative Design Consumption Market Share by Applications (2015-2020)

7.2 Global Generative Design Consumption and Growth Rate of Automotive (2015-2020)

7.3 Global Generative Design Consumption and Growth Rate of Aerospace & Defense (2015-2020)

7.4 Global Generative Design Consumption and Growth Rate of Industrial Manufacturing (2015-2020)

7.5 Global Generative Design Consumption and Growth Rate of Others (2015-2020)

## **8 NORTH AMERICA GENERATIVE DESIGN MARKET**

8.1 North America Generative Design Market Size

8.2 United States Generative Design Market Size

8.3 Canada Generative Design Market Size

8.4 Mexico Generative Design Market Size

8.5 The Influence of COVID-19 on North America Market

## **9 EUROPE GENERATIVE DESIGN MARKET ANALYSIS**

9.1 Europe Generative Design Market Size

9.2 Germany Generative Design Market Size

9.3 United Kingdom Generative Design Market Size

9.4 France Generative Design Market Size

9.5 Italy Generative Design Market Size

9.6 Spain Generative Design Market Size

9.7 The Influence of COVID-19 on Europe Market

## **10 ASIA-PACIFIC GENERATIVE DESIGN MARKET ANALYSIS**

10.1 Asia-Pacific Generative Design Market Size

10.2 China Generative Design Market Size

10.3 Japan Generative Design Market Size

10.4 South Korea Generative Design Market Size

10.5 Southeast Asia Generative Design Market Size

10.6 India Generative Design Market Size

10.7 The Influence of COVID-19 on Asia Pacific Market

## **11 MIDDLE EAST AND AFRICA GENERATIVE DESIGN MARKET ANALYSIS**

11.1 Middle East and Africa Generative Design Market Size

- 11.2 Saudi Arabia Generative Design Market Size
- 11.3 UAE Generative Design Market Size
- 11.4 South Africa Generative Design Market Size
- 11.5 The Influence of COVID-19 on Middle East and Africa Market

## **12 SOUTH AMERICA GENERATIVE DESIGN MARKET ANALYSIS**

- 12.1 South America Generative Design Market Size
- 12.2 Brazil Generative Design Market Size
- 12.3 The Influence of COVID-19 on South America Market

## **13 COMPANY PROFILES**

- 13.1 Altair (US)
  - 13.1.1 Altair (US) Basic Information
  - 13.1.2 Altair (US) Product Profiles, Application and Specification
  - 13.1.3 Altair (US) Generative Design Market Performance (2015-2020)
- 13.2 ANSYS (US)
  - 13.2.1 ANSYS (US) Basic Information
  - 13.2.2 ANSYS (US) Product Profiles, Application and Specification
  - 13.2.3 ANSYS (US) Generative Design Market Performance (2015-2020)
- 13.3 ESI Group (France)
  - 13.3.1 ESI Group (France) Basic Information
  - 13.3.2 ESI Group (France) Product Profiles, Application and Specification
  - 13.3.3 ESI Group (France) Generative Design Market Performance (2015-2020)
- 13.4 Paramatters (US)
  - 13.4.1 Paramatters (US) Basic Information
  - 13.4.2 Paramatters (US) Product Profiles, Application and Specification
  - 13.4.3 Paramatters (US) Generative Design Market Performance (2015-2020)
- 13.5 Dassault Syst?mes (France)
  - 13.5.1 Dassault Syst?mes (France) Basic Information
  - 13.5.2 Dassault Syst?mes (France) Product Profiles, Application and Specification
  - 13.5.3 Dassault Syst?mes (France) Generative Design Market Performance (2015-2020)
- 13.6 Autodesk (US)
  - 13.6.1 Autodesk (US) Basic Information
  - 13.6.2 Autodesk (US) Product Profiles, Application and Specification
  - 13.6.3 Autodesk (US) Generative Design Market Performance (2015-2020)
- 13.7 Desktop Metal (US)

- 13.7.1 Desktop Metal (US) Basic Information
- 13.7.2 Desktop Metal (US) Product Profiles, Application and Specification
- 13.7.3 Desktop Metal (US) Generative Design Market Performance (2015-2020)
- 13.8 Bentley Systems (US)
  - 13.8.1 Bentley Systems (US) Basic Information
  - 13.8.2 Bentley Systems (US) Product Profiles, Application and Specification
  - 13.8.3 Bentley Systems (US) Generative Design Market Performance (2015-2020)
- 13.9 nTopology (US)
  - 13.9.1 nTopology (US) Basic Information
  - 13.9.2 nTopology (US) Product Profiles, Application and Specification
  - 13.9.3 nTopology (US) Generative Design Market Performance (2015-2020)
- 13.10 MSC Software (US)
  - 13.10.1 MSC Software (US) Basic Information
  - 13.10.2 MSC Software (US) Product Profiles, Application and Specification
  - 13.10.3 MSC Software (US) Generative Design Market Performance (2015-2020)

## **14 MARKET FORECAST - BY REGIONS**

- 14.1 North America Generative Design Market Forecast (2020-2025)
- 14.2 Europe Generative Design Market Forecast (2020-2025)
- 14.3 Asia-Pacific Generative Design Market Forecast (2020-2025)
- 14.4 Middle East and Africa Generative Design Market Forecast (2020-2025)
- 14.5 South America Generative Design Market Forecast (2020-2025)

## **15 MARKET FORECAST - BY TYPE AND APPLICATIONS**

- 15.1 Global Generative Design Market Forecast by Types (2020-2025)
  - 15.1.1 Global Generative Design Market Forecast Production and Market Share by Types (2020-2025)
  - 15.1.2 Global Generative Design Market Forecast Value and Market Share by Types (2020-2025)
- 15.2 Global Generative Design Market Forecast by Applications (2020-2025)



## List Of Tables

### LIST OF TABLES AND FIGURES

Figure Generative Design Picture

Table Generative Design Key Market Segments

Figure Study and Forecasting Years

Figure Global Generative Design Market Size and Growth Rate 2015-2025

Figure Industry PESTEL Analysis

Figure Global COVID-19 Status

Figure Market Size Forecast Comparison of Pre COVID-19 and Post COVID-19

Figure Global Generative Design Value (\$) and Growth Rate (2015-2020)

Table Global Generative Design Value (\$) by Countries (2015-2020)

Table Global Generative Design Value Market Share by Regions (2015-2020)

Figure Global Generative Design Value Market Share by Regions in 2019

Figure Global Generative Design Production and Growth Rate (2015-2020)

Table Global Generative Design Production by Major Countries (2015-2020)

Table Global Generative Design Production Market Share by Major Countries (2015-2020)

Figure Global Generative Design Production Market Share by Regions in 2019

Figure Global Generative Design Consumption and Growth Rate (2015-2020)

Table Global Generative Design Consumption by Regions (2015-2020)

Table Global Generative Design Consumption Market Share by Regions (2015-2020)

Figure Global Generative Design Consumption Market Share by Regions in 2019

Table Global Generative Design Export Top 3 Country 2019

Table Global Generative Design Import Top 3 Country 2019

Table United States Generative Design Export and Import (2015-2020)

Table Europe Generative Design Export and Import (2015-2020)

Table China Generative Design Export and Import (2015-2020)

Table Japan Generative Design Export and Import (2015-2020)

Table India Generative Design Export and Import (2015-2020)

Table Global Generative Design Production by Types (2015-2020)

Table Global Generative Design Production Market Share by Types (2015-2020)

Figure Global Generative Design Production Share by Type (2015-2020)

Table Global Generative Design Value by Types (2015-2020)

Table Global Generative Design Value Market Share by Types (2015-2020)

Figure Global Generative Design Value Share by Type (2015-2020)

Figure Global Product Design & Development Production and Growth Rate (2015-2020)

Figure Global Product Design & Development Price (2015-2020)

Figure Global Cost Optimization Production and Growth Rate (2015-2020)

Figure Global Cost Optimization Price (2015-2020)

Table Global Generative Design Consumption by Applications (2015-2020)

Table Global Generative Design Consumption Market Share by Applications (2015-2020)

Figure Global Generative Design Consumption Share by Application (2015-2020)

Figure Global Automotive Consumption and Growth Rate (2015-2020)

Figure Global Aerospace & Defense Consumption and Growth Rate (2015-2020)

Figure Global Industrial Manufacturing Consumption and Growth Rate (2015-2020)

Figure Global Others Consumption and Growth Rate (2015-2020)

Figure North America Generative Design Market Consumption and Growth Rate (2015-2020)

Table North America Generative Design Consumption by Countries (2015-2020)

Table North America Generative Design Consumption Market Share by Countries (2015-2020)

Figure North America Generative Design Consumption Market Share by Countries (2015-2020)

Figure United States Generative Design Market Consumption and Growth Rate (2015-2020)

Figure Canada Generative Design Market Consumption and Growth Rate (2015-2020)

Figure Mexico Generative Design Market Consumption and Growth Rate (2015-2020)

Figure North America COVID-19 Status

Figure Europe Generative Design Market Consumption and Growth Rate (2015-2020)

Table Europe Generative Design Consumption by Countries (2015-2020)

Table Europe Generative Design Consumption Market Share by Countries (2015-2020)

Figure Europe Generative Design Consumption Market Share by Countries (2015-2020)

Figure Germany Generative Design Market Consumption and Growth Rate (2015-2020)

Figure United Kingdom Generative Design Market Consumption and Growth Rate (2015-2020)

Figure France Generative Design Market Consumption and Growth Rate (2015-2020)

Figure Italy Generative Design Market Consumption and Growth Rate (2015-2020)

Figure Spain Generative Design Market Consumption and Growth Rate (2015-2020)

Figure Europe COVID-19 Status

Figure Asia-Pacific Generative Design Market Consumption and Growth Rate (2015-2020)

Table Asia-Pacific Generative Design Consumption by Countries (2015-2020)

Table Asia-Pacific Generative Design Consumption Market Share by Countries (2015-2020)

Figure Asia-Pacific Generative Design Consumption Market Share by Countries

(2015-2020)

Figure China Generative Design Market Consumption and Growth Rate (2015-2020)

Figure Japan Generative Design Market Consumption and Growth Rate (2015-2020)

Figure South Korea Generative Design Market Consumption and Growth Rate

(2015-2020)

Figure Southeast Asia Generative Design Market Consumption and Growth Rate

(2015-2020)

Figure India Generative Design Market Consumption and Growth Rate (2015-2020)

Figure Asia Pacific COVID-19 Status

Figure Middle East and Africa Generative Design Market Consumption and Growth Rate (2015-2020)

Table Middle East and Africa Generative Design Consumption by Countries (2015-2020)

Table Middle East and Africa Generative Design Consumption Market Share by Countries (2015-2020)

Figure Middle East and Africa Generative Design Consumption Market Share by Countries (2015-2020)

Figure Saudi Arabia Generative Design Market Consumption and Growth Rate (2015-2020)

Figure UAE Generative Design Market Consumption and Growth Rate (2015-2020)

Figure South Africa Generative Design Market Consumption and Growth Rate (2015-2020)

Figure South America Generative Design Market Consumption and Growth Rate (2015-2020)

Table South America Generative Design Consumption by Countries (2015-2020)

Table South America Generative Design Consumption Market Share by Countries (2015-2020)

Figure South America Generative Design Consumption Market Share by Countries (2015-2020)

Figure Brazil Generative Design Market Consumption and Growth Rate (2015-2020)

Table Altair (US) Company Profile

Table Altair (US) Production, Value, Price, Gross Margin 2015-2020

Figure Altair (US) Production and Growth Rate

Figure Altair (US) Value (\$) Market Share 2015-2020

Table ANSYS (US) Company Profile

Table ANSYS (US) Production, Value, Price, Gross Margin 2015-2020

Figure ANSYS (US) Production and Growth Rate

Figure ANSYS (US) Value (\$) Market Share 2015-2020

Table ESI Group (France) Company Profile

Table ESI Group (France) Production, Value, Price, Gross Margin 2015-2020  
Figure ESI Group (France) Production and Growth Rate  
Figure ESI Group (France) Value (\$) Market Share 2015-2020  
Table Paramatters (US) Company Profile  
Table Paramatters (US) Production, Value, Price, Gross Margin 2015-2020  
Figure Paramatters (US) Production and Growth Rate  
Figure Paramatters (US) Value (\$) Market Share 2015-2020  
Table Dassault Syst?mes (France) Company Profile  
Table Dassault Syst?mes (France) Production, Value, Price, Gross Margin 2015-2020  
Figure Dassault Syst?mes (France) Production and Growth Rate  
Figure Dassault Syst?mes (France) Value (\$) Market Share 2015-2020  
Table Autodesk (US) Company Profile  
Table Autodesk (US) Production, Value, Price, Gross Margin 2015-2020  
Figure Autodesk (US) Production and Growth Rate  
Figure Autodesk (US) Value (\$) Market Share 2015-2020  
Table Desktop Metal (US) Company Profile  
Table Desktop Metal (US) Production, Value, Price, Gross Margin 2015-2020  
Figure Desktop Metal (US) Production and Growth Rate  
Figure Desktop Metal (US) Value (\$) Market Share 2015-2020  
Table Bentley Systems (US) Company Profile  
Table Bentley Systems (US) Production, Value, Price, Gross Margin 2015-2020  
Figure Bentley Systems (US) Production and Growth Rate  
Figure Bentley Systems (US) Value (\$) Market Share 2015-2020  
Table nTopology (US) Company Profile  
Table nTopology (US) Production, Value, Price, Gross Margin 2015-2020  
Figure nTopology (US) Production and Growth Rate  
Figure nTopology (US) Value (\$) Market Share 2015-2020  
Table MSC Software (US) Company Profile  
Table MSC Software (US) Production, Value, Price, Gross Margin 2015-2020  
Figure MSC Software (US) Production and Growth Rate  
Figure MSC Software (US) Value (\$) Market Share 2015-2020  
Figure North America Market Consumption and Growth Rate Forecast (2020-2025)  
Figure Europe Market Consumption and Growth Rate Forecast (2020-2025)  
Figure Asia-Pacific Market Consumption and Growth Rate Forecast (2020-2025)  
Figure Middle East and Africa Market Consumption and Growth Rate Forecast (2020-2025)  
Figure South America Market Consumption and Growth Rate Forecast (2020-2025)  
Table Global Generative Design Market Forecast Production by Types (2020-2025)  
Table Global Generative Design Market Forecast Production Share by Types

(2020-2025)

Table Global Generative Design Market Forecast Value (\$) by Types (2020-2025)

Table Global Generative Design Market Forecast Value Share by Types (2020-2025)

Table Global Generative Design Market Forecast Consumption by Applications

(2020-2025)

Table Global Generative Design Market Forecast Consumption Share by Applications

(2020-2025)

## I would like to order

Product name: 2020-2025 Global Generative Design Market Report - Production and Consumption Professional Analysis (Impact of COVID-19)

Product link: <https://marketpublishers.com/r/26F2C6EAA996EN.html>

Price: US\$ 3,360.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/26F2C6EAA996EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

