

# 3D Concrete Printing Market by Printing Type (Gantry system and Robotic arm), Technique (Extrusion-based and Powder-based), and End-use Sector (Residential, Commercial, and Infrastructure): Global Opportunity Analysis and Industry Forecast, 2020–2027

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## Abstracts

The global 3D concrete printing market was valued at \$310.9 million in 2019, and is expected to reach \$40,652.4 million by 2027, registering a CAGR of 106.5% from 2020 to 2027. 3D concrete printing process involves construction of building structures and other infrastructures using concrete and atomized machines. Walls, roofs, and pillars can be printed using 3D printers. Furthermore, pre-programmed software drives the robot or a 3D printer. The path of its movement is programmed in software such as AutoCAD and SolidWorks. It subsequently decides and drives the printer to print the desired object. This technology has less error compared to traditional manual methods. In addition, using this technology, complex designs can be easily produced and at faster rate.

The growth of the global 3D concrete printing market is majorly driven by cost saving on skilled labor. The skilled labor charges huge amount for customized and complex construction. The amount spent on wages of these skilled labors can be saved by using 3D concrete printers. In addition, reduction in waste generation and cost feasibility for mass production are other factors augmenting the growth of the market. However, high investment cost and limitation of printing size are major disadvantages of 3D printing technology. On the contrary, rapid urbanization is anticipated to fuel the growth of the market during the forecast period. Moreover, challenges faced by 3D technology are material development, its strength & durability, poor surface finish, and technical expertise to operate and maintain the software and hardware for this service. However, research & development is carried by the companies that deal in 3D concrete printing

service to overcome these challenges. Strategies such as business expansion, product launch, and partnerships are being adopted by major players in the market to boost market growth. For instance, in January 2019, Cobod set up a 3D Printhuset to operate the sales of its new printer, BOD2 in UAE market.

The global 3D concrete printing market is segmented into printing type, technique, end-use sector, and region. On the basis of material type, the market is divided into gantry system and robotic arm. Depending on technique, it is classified into extrusion-based and powder-based. By end-use sector, it is segregated into residential, commercial and infrastructure. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Region wise, the 3D concrete printing market analysis is conducted across North America (the U.S., Canada, and Mexico), Europe (Germany, France, the UK, Italy, and rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa). In 2019, North America was the highest contributor to the 3D concrete printing market share, and is anticipated to secure a leading position during the forecast period, owing to rise in 3D printing projects and environmental awareness.

### Competition analysis

The major players profiled in the 3D concrete printing market include Apis Cor, Cobod International A/S, CyBe Construction, D-shape, Heidelbergcement AG (Italcementi SpA), LafargeHolcim, Sika AG, Skanska, Yingchuang Building Technique (Shanghai) Co., Ltd. (Winsun), and XtreeE.

### KEY BENEFITS FOR STAKEHOLDERS

The report provides an extensive analysis of the current and emerging 3D concrete printing market trends and dynamics.

In-depth 3D concrete printing market analysis is conducted by estimations for the key segments between 2020 and 2027.

Extensive analysis of the market is conducted by following key product positioning and monitoring of top competitors within the market framework.

A comprehensive analysis of four major regions is provided to determine the

prevailing opportunities.

The market forecast analysis from 2020 to 2027 is included in the report.

The key market players operating in the market are profiled in this report and their strategies are analyzed thoroughly, which help to understand the competitive outlook of the industry.

## KEY MARKET SEGMENTS

### By Printing Type

- Gantry system

- Robotic arm

### By Technique

- Extrusion-based

- Powder-based

### By End-use Sector

- Residential

- Commercial

- Infrastructure

### By Region

- North America

- U.S.

Canada

Mexico

Europe

Germany

France

UK

Denmark

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

## Key Players

Apis Cor

Cobod International A/S

CyBe Construction

D-shape

Heidelbergcement AG (Italcementi SpA)

LafargeHolcim

Sika AG

Skanska

Yingchuang Building Technique (Shanghai) Co., Ltd. (Winsun)

XtreeE

## Contents

### CHAPTER 1:INTRODUCTION

- 1.1.Report description
- 1.2.Research methodology
  - 1.2.1.Primary research
  - 1.2.2.Secondary research
  - 1.2.3.Analyst tools and models

### CHAPTER 2:EXECUTIVE SUMMARY

- 2.1.CXO perspective

### CHAPTER 3:MARKET OVERVIEW

- 3.1.Market definition and scope
- 3.2.Key findings
  - 3.2.1.Top investment pockets
- 3.3.Porter's five forces analysis
- 3.4.Market dynamics
  - 3.4.1.Drivers
    - 3.4.1.1.High cost for skilled labor in developed nations
    - 3.4.1.2.Growing focus on minimizing waste generation
    - 3.4.1.3.Mass customization in enhanced architecture
  - 3.4.2.Restraints
    - 3.4.2.1.High capital cost
    - 3.4.2.2.Limited size of the printer
  - 3.4.3.Opportunities
    - 3.4.3.1.Rapid urbanization
  - 3.4.4.Challenges
    - 3.4.4.1.Proper material development
    - 3.4.4.2.Poor surface finish
    - 3.4.4.3.Technical expertise
- 3.5.COVID-19 Impact Analysis

### CHAPTER 4:3D CONCRETE PRINTING MARKET, BY PRINTING TYPE

- 4.1.Market overview

- 4.1.1. Market size and forecast, by printer type
- 4.2. Gantry system
  - 4.2.1. Key market trends, growth factors, and opportunities
  - 4.2.2. Market size and forecast, by region
  - 4.2.3. Market size and forecast, by country
- 4.3. Robotic arm
  - 4.3.1. Key market trends, growth factors, and opportunities
  - 4.3.2. Market size and forecast, by region
  - 4.3.3. Market size and forecast, by country

## **CHAPTER 5: 3D CONCRETE PRINTING MARKET, BY TECHNIQUE**

- 5.1. Market overview
  - 5.1.1. Market size and forecast, by technique
- 5.2. Extrusion-based
  - 5.2.1. Key market trends, growth factors, and opportunities
  - 5.2.2. Market size and forecast, by region
  - 5.2.3. Market size and forecast, by country
- 5.3. Powder-based
  - 5.3.1. Key market trends, growth factors, and opportunities
  - 5.3.2. Market size and forecast, by region
  - 5.3.3. Market size and forecast, by country

## **CHAPTER 6: 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR**

- 6.1. Market overview
  - 6.1.1. Market size and forecast, by end-use sector
- 6.2. Residential
  - 6.2.1. Key market trends, growth factors, and opportunities
  - 6.2.2. Market size and forecast, by region
  - 6.2.3. Market size and forecast, by country
- 6.3. Commercial
  - 6.3.1. Key market trends, growth factors, and opportunities
  - 6.3.2. Market size and forecast, by region
  - 6.3.3. Market size and forecast, by country
- 6.4. Infrastructure
  - 6.4.1. Key market trends, growth factors, and opportunities
  - 6.4.2. Market size and forecast, by region
  - 6.4.3. Market size and forecast, by country

## **CHAPTER 7:3D CONCRETE PRINTING MARKET, BY REGION**

### 7.1. Market overview

#### 7.1.1. Market size and forecast

### 7.2. North America

#### 7.2.1. Key market trends, growth factors, and opportunities

#### 7.2.2. North America market size and forecast, by printing type

#### 7.2.3. North America market size and forecast, by technique

#### 7.2.4. North America market and forecast, by end-use sector

#### 7.2.5. North America market and forecast, by country

##### 7.2.5.1. U.S.

###### 7.2.5.1.1. U.S., market size and forecast, by printing type

###### 7.2.5.1.2. Market size and forecast, by technique

###### 7.2.5.1.3. Market size and forecast, by end-use sector

##### 7.2.5.2. Canada

###### 7.2.5.2.1. Canada market size and forecast, by printing type

###### 7.2.5.2.2. Canada market size and forecast, by technique

###### 7.2.5.2.3. Market size and forecast, by end-use sector

##### 7.2.5.3. Mexico

###### 7.2.5.3.1. Mexico market size and forecast, by printing type

###### 7.2.5.3.2. Mexico market size and forecast, by technique

###### 7.2.5.3.3. Market size and forecast, by end-use sector

### 7.3. Europe

#### 7.3.1. Key market trends, growth factors, and opportunities

#### 7.3.2. Europe market size and forecast, by printing type

#### 7.3.3. Europe market size and forecast, by technique

#### 7.3.4. Europe market size and forecast, by end-use sector

#### 7.3.5. Europe market size and forecast, by country

##### 7.3.5.1. Germany

###### 7.3.5.1.1. Germany market size and forecast, by printing type

###### 7.3.5.1.2. Germany market size and forecast, by technique

###### 7.3.5.1.3. Market size and forecast, by end-use sector

##### 7.3.5.2. France

###### 7.3.5.2.1. France market size and forecast, by printing type

###### 7.3.5.2.2. France market size and forecast, by technique

###### 7.3.5.2.3. Market size and forecast, by end-use sector

##### 7.3.5.3. UK

###### 7.3.5.3.1. UK market size and forecast, by printing type



- 7.3.5.3.2.UK market size and forecast, by technique
- 7.3.5.3.3.Market size and forecast, by end-use sector
- 7.3.5.4.Denmark
  - 7.3.5.4.1.Denmark market size and forecast, by printing type
  - 7.3.5.4.2.Denmark market size and forecast, by technique
  - 7.3.5.4.3.Market size and forecast, by end-use sector
- 7.3.5.5.Rest of Europe
  - 7.3.5.5.1.Rest of Europe market size and forecast, by printing type
  - 7.3.5.5.2.Rest of Europe market size and forecast, by technique
  - 7.3.5.5.3.Market size and forecast, by end-use sector
- 7.4.Asia-Pacific
  - 7.4.1.Key market trends, growth factors, and opportunities
  - 7.4.2.Asia-Pacific market size and forecast, by printing type
  - 7.4.3.Asia-Pacific market size and forecast, by technique
  - 7.4.4.Asia-Pacific market size and forecast, by end-use sector
  - 7.4.5.Asia-Pacific market size and forecast, by country
  - 7.4.6.Asia-Pacific market size and forecast, by volume, by country
    - 7.4.6.1.China
      - 7.4.6.1.1.China market size and forecast, by printing type
      - 7.4.6.1.2.China market size and forecast, by technique
      - 7.4.6.1.3.Market size and forecast, by end-use sector
    - 7.4.6.2.Japan
      - 7.4.6.2.1.Japan market size and forecast, by printing type
      - 7.4.6.2.2.Japan market size and forecast, by technique
      - 7.4.6.2.3.Market size and forecast, by end-use sector
    - 7.4.6.3.India
      - 7.4.6.3.1.India market size and forecast, by printing type
      - 7.4.6.3.2.India market size and forecast, by technique
      - 7.4.6.3.3.Market size and forecast, by end-use sector
    - 7.4.6.4.South Korea
      - 7.4.6.4.1.South Korea market size and forecast, by printing type
      - 7.4.6.4.2.South Korea market size and forecast, by technique
      - 7.4.6.4.3.Market size and forecast, by end-use sector
    - 7.4.6.5.Rest of Asia-Pacific
      - 7.4.6.5.1.Market size and forecast, by printing type
      - 7.4.6.5.2.Rest of Asia-Pacific market size and forecast, by technique
      - 7.4.6.5.3.Market size and forecast, by end-use sector
  - 7.5.LAMEA
    - 7.5.1.Key market trends, growth factors, and opportunities

- 7.5.2.LAMEA market size and forecast, by printing type
- 7.5.3.LAMEA market size and forecast, by technique
- 7.5.4.LAMEA market size and forecast, by end-use sector
- 7.5.5.LAMEA market size and forecast, by country
  - 7.5.5.1.Latin America
    - 7.5.5.1.1.Latin America market size and forecast, by printing type
    - 7.5.5.1.2.Latin America market size and forecast, by technique
    - 7.5.5.1.3.Market size and forecast, by end-use sector
  - 7.5.5.2.Middle East
    - 7.5.5.2.1.Middle East market size and forecast, by printing type
    - 7.5.5.2.2.Middle East market size and forecast, by technique
    - 7.5.5.2.3.Market size and forecast, by end-use sector
  - 7.5.5.3.Africa
    - 7.5.5.3.1.Africa market size and forecast, by printing type
    - 7.5.5.3.2.Africa market size and forecast, by technique
    - 7.5.5.3.3.Market size and forecast, by end-use sector

## **CHAPTER 8:COMPETITIVE LANDSCAPE**

- 8.1.Introduction
  - 8.1.1.Market player positioning, 2019
- 8.2.Top winning strategies
  - 8.2.1.Top winning strategies, by year
  - 8.2.2.Top winning strategies, by development
  - 8.2.3.Top winning strategies, by company
- 8.3.Key developments
  - 8.3.1.Business expansion
  - 8.3.2.Product launch
  - 8.3.3.Partnership

## **CHAPTER 9:COMPANY PROFILE**

- 9.1.Apis Cor
  - 9.1.1.Company overview
  - 9.1.2.Key Executive
  - 9.1.3.Company snapshot
  - 9.1.4.Product portfolio
  - 9.1.5.Key strategic moves and developments
- 9.2.COBOD International A/S (PERI)

- 9.2.1. Company overview
- 9.2.2. Key Executive
- 9.2.3. Company snapshot
- 9.2.4. Product portfolio
- 9.2.5. Key strategic moves and developments
- 9.3. CyBe Construction
  - 9.3.1. Company overview
  - 9.3.2. Key Executives
  - 9.3.3. Company snapshot
  - 9.3.4. Operating business categories
  - 9.3.5. Product portfolio
- 9.4. Heidelbergcement AG (Italcementi SpA)
  - 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. R&D Expenditure
  - 9.4.7. Business performance
- 9.5. LafargeHolcim
  - 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. R&D Expenditure
  - 9.5.7. Business performance
  - 9.5.8. Key strategic moves and developments
- 9.6. D-Shape
  - 9.6.1. Company overview
  - 9.6.2. Key Executive
  - 9.6.3. Company snapshot
  - 9.6.4. Product portfolio
- 9.7. Sika AG
  - 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.R&D Expenditure
- 9.7.7.Business performance
- 9.7.8.Key strategic moves and developments
- 9.8.Skanska
  - 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
- 9.9.Yingchuang Building Technique (Shanghai) Co.,Ltd. (Winsun)
  - 9.9.1.Company overview
  - 9.9.2.Key Executive
  - 9.9.3.Company snapshot
  - 9.9.4.Key strategic moves and developments
- 9.10.XtreeE
  - 9.10.1.Company overview
  - 9.10.2.Key Executives
  - 9.10.3.Company snapshot
  - 9.10.4.Product portfolio
  - 9.10.5.Key strategic moves and developments

## List Of Tables

### LIST OF TABLES

TABLE 01.GLOBAL 3D CONCRETE PRINTING MARKET REVENUE, BY PRINTER TYPE, 2019–2027 (\$BILLION)

TABLE 02.3D CONCRETE PRINTING MARKET REVENUE, FOR GANTRY SYSTEM, BY REGION, 2019–2027 (\$BILLION)

TABLE 03.3D CONCRETE PRINTING MARKET REVENUE, FOR ROBOTIC ARM, BY REGION, 2019–2027 (\$BILLION)

TABLE 04.GLOBAL 3D CONCRETE PRINTING MARKET REVENUE, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 05.3D CONCRETE PRINTING MARKET REVENUE FOR EXTRUSION-BASED, BY REGION, 2019–2027 (\$BILLION)

TABLE 06.3D CONCRETE PRINTING MARKET REVENUE FOR POWDER-BASED, BY REGION, 2019–2027 (\$BILLION)

TABLE 07.GLOBAL 3D CONCRETE PRINTING MARKET REVENUE, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 08.3D CONCRETE PRINTING MARKET REVENUE, FOR RESIDENTIAL, BY REGION, 2019–2027 (\$BILLION)

TABLE 09.3D CONCRETE PRINTING MARKET REVENUE, FOR COMMERCIAL, BY REGION, 2019–2027 (\$BILLION)

TABLE 10.3D CONCRETE PRINTING MARKET REVENUE, FOR INFRASTRUCTURE, BY REGION, 2019–2027 (\$BILLION)

TABLE 11.3D CONCRETE PRINTING MARKET, BY REGION, 2019–2027 (\$BILLION)

TABLE 12.NORTH AMERICA 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 13.NORTH AMERICA 3D CONCRETE PRINTING MARKET REVENUE, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 14.NORTH AMERICA 3D CONCRETE PRINTING MARKET REVENUE, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 15.NORTH AMERICA 3D CONCRETE PRINTING MARKET, BY COUNTRY, 2019–2027 (\$BILLION)

TABLE 16.U.S. 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 17.U.S. 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 18.U.S. 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 19.CANADA 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 20.CANADA 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 21.CANADA 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 22.MEXICO 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 23.MEXICO 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 24.MEXICO 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 25.EUROPE 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 26.EUROPE 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 27.EUROPE 3D CONCRETE PRINTING MARKET REVENUE, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 28.EUROPE 3D CONCRETE PRINTING MARKET, BY COUNTRY, 2019–2027 (\$BILLION)

TABLE 29.GERMANY 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 30.GERMANY 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 31.GERMANY 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 32.FRANCE 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 33.FRANCE 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 34.FRANCE 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 35.UK 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 36.UK 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 37.UK 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 38.DENMARK 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE,

2019–2027 (\$BILLION)

TABLE 39.DENMARK 3D CONCRETE PRINTING MARKET, BY TECHNIQUE,  
2019–2027 (\$BILLION)

TABLE 40.DENMARK 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR,  
2019–2027 (\$BILLION)

TABLE 41.REST OF EUROPE 3D CONCRETE PRINTING MARKET, BY PRINTING  
TYPE, 2019–2027 (\$BILLION)

TABLE 42.REST OF EUROPE 3D CONCRETE PRINTING MARKET, BY TECHNIQUE,  
2019–2027 (\$BILLION)

TABLE 43.REST OF EUROPE 3D CONCRETE PRINTING MARKET, BY END-USE  
SECTOR, 2019–2027 (\$BILLION)

TABLE 44.ASIA-PACIFIC 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE,  
2019–2027 (\$BILLION)

TABLE 45.ASIA-PACIFIC 3D CONCRETE PRINTING MARKET, BY TECHNIQUE,  
2019–2027 (\$BILLION)

TABLE 46.ASIA-PACIFIC 3D CONCRETE PRINTING MARKET REVENUE, BY END-  
USE SECTOR, 2019–2027 (\$BILLION)

TABLE 47.ASIA-PACIFIC 3D CONCRETE PRINTING MARKET, BY COUNTRY,  
2019–2027 (\$BILLION)

TABLE 48.ASIA-PACIFIC 3D CONCRETE PRINTING MARKET, BY VOLUME, BY  
COUNTRY, 2019–2027 (MILLION TONS)

TABLE 49.CHINA 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE,  
2019–2027 (\$BILLION)

TABLE 50.CHINA 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027  
(\$BILLION)

TABLE 51.CHINA 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR,  
2019–2027 (\$BILLION)

TABLE 52.JAPAN 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE,  
2019–2027 (\$BILLION)

TABLE 53.JAPAN 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027  
(\$BILLION)

TABLE 54.JAPAN 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR,  
2019–2027 (\$BILLION)

TABLE 55.INDIA 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE,  
2019–2027 (\$BILLION)

TABLE 56.INDIA 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027  
(\$BILLION)

TABLE 57.INDIA 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR,  
2019–2027 (\$BILLION)

TABLE 58.SOUTH KOREA 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 59.SOUTH KOREA 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 60.SOUTH KOREA 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 61.REST OF ASIA-PACIFIC 3D CONCRETE PRINTING MARKET REVENUE, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 62.REST OF ASIA-PACIFIC 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 63.REST OF ASIA-PACIFIC 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 64.LAMEA 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 65.LAMEA 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 66.LAMEA 3D CONCRETE PRINTING MARKET REVENUE, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 67.LAMEA 3D CONCRETE PRINTING MARKET, BY COUNTRY, 2019–2027 (\$BILLION)

TABLE 68.LATIN AMERICA 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 69.LATIN AMERICA 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 70.LATIN AMERICA 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 71.MIDDLE EAST 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 72.MIDDLE EAST 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 73.MIDDLE EAST 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 74.AFRICA 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027 (\$BILLION)

TABLE 75.AFRICA 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027 (\$BILLION)

TABLE 76.AFRICA 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027 (\$BILLION)

TABLE 77.KEY BUSINESS EXPANSION, (2017–2020)



TABLE 78.KEY ACQUISITION, (2017–2020)  
TABLE 79.KEY PARTNERSHIP, (2017–2020)  
TABLE 80.APIS COR: KEY EXECUTIVE  
TABLE 81.APIS COR: COMPANY SNAPSHOT  
TABLE 82.APIS COR: PRODUCT PORTFOLIO  
TABLE 83.COBOD INTERNATIONAL A/S: KEY EXECUTIVE  
TABLE 84.COBOD INTERNATIONAL A/S: COMPANY SNAPSHOT  
TABLE 85.COBOD INTERNATIONAL A/S: PRODUCT PORTFOLIO  
TABLE 86.CYBE CONSTRUCTION: KEY EXECUTIVES  
TABLE 87.CYBE CONSTRUCTION: COMPANY SNAPSHOT  
TABLE 88.CYBE CONSTRUCTION: OPERATING CATEGORIES  
TABLE 89.CYBE CONSTRUCTION: PRODUCT PORTFOLIO  
TABLE 90.HEIDELBERGCEMENT AG: KEY EXECUTIVES  
TABLE 91.HEIDELBERGCEMENT AG: COMPANY SNAPSHOT  
TABLE 92.HEIDELBERGCEMENT AG: OPERATING SEGMENTS  
TABLE 93.HEIDELBERGCEMENT AG: PRODUCT PORTFOLIO  
TABLE 94.LAFARGEHOLCIM: KEY EXECUTIVES  
TABLE 95.LAFARGEHOLCIM: COMPANY SNAPSHOT  
TABLE 96.LAFARGEHOLCIM: OPERATING SEGMENTS  
TABLE 97.: PRODUCT PORTFOLIO  
TABLE 98.D-SHAPE: KEY EXECUTIVE  
TABLE 99.D-SHAPE: COMPANY SNAPSHOT  
TABLE 100.D-SHAPE: PRODUCT PORTFOLIO  
TABLE 101.SIKA AG: KEY EXECUTIVES  
TABLE 102.SIKA AG: COMPANY SNAPSHOT  
TABLE 103.SIKA AG: OPERATING SEGMENTS  
TABLE 104.SIKA AG: PRODUCT PORTFOLIO  
TABLE 105.SKANSKA: KEY EXECUTIVES  
TABLE 106.SKANSKA: COMPANY SNAPSHOT  
TABLE 107.SKANSKA: OPERATING SEGMENTS  
TABLE 108.SKANSKA: PRODUCT PORTFOLIO  
TABLE 109.WINSUN: KEY EXECUTIVE  
TABLE 110.WINSUN: COMPANY SNAPSHOT  
TABLE 111.WINSUN: PRODUCT PORTFOLIO  
TABLE 112.XTREEE: KEY EXECUTIVES  
TABLE 113.XTREEE: COMPANY SNAPSHOT  
TABLE 114.XTREEE: PRODUCT PORTFOLIO

## List Of Figures

### LIST OF FIGURES

FIGURE 01.KEY MARKET SEGMENTS

FIGURE 02.GLOBAL CONSTRUCTION & DEMOLITION WASTE RECYCLING MARKET, 2020–2027

FIGURE 03.GLOBAL CONSTRUCTION & DEMOLITION WASTE RECYCLING MARKET, BY COUNTRY, 2020–2027

FIGURE 04.GLOBAL CONSTRUCTION & DEMOLITION WASTE RECYCLING MARKET: KEY PLAYERS

FIGURE 05.TOP INVESTMENT POCKETS

FIGURE 06.MODERATE BARGAINING POWER OF SUPPLIERS

FIGURE 07.LOW TO MODERATE BARGAINING POWER OF BUYERS

FIGURE 08.MODERATE TO HIGH THREAT OF SUBSTITUTES

FIGURE 09.LOW TO MODERATE THREAT OF NEW ENTRANTS

FIGURE 10.MODERATE INTENSITY OF RIVALRY

FIGURE 11.GLOBAL 3D CONCRETE PRINTING MARKET, BY PRINTING TYPE, 2019–2027

FIGURE 12.3D CONCRETE PRINTING MARKET REVENUE, FOR GANTRY SYSTEM, BY COUNTRY, 2019–2027 (%)

FIGURE 13.3D CONCRETE PRINTING MARKET REVENUE, FOR ROBOTIC ARM, BY COUNTRY, 2019–2027 (%)

FIGURE 14.GLOBAL 3D CONCRETE PRINTING MARKET, BY TECHNIQUE, 2019–2027

FIGURE 15.COLLECTION 3D CONCRETE PRINTING MARKET REVENUE FOR EXTRUSION-BASED, BY COUNTRY, 2019–2027 (%)

FIGURE 16.3D CONCRETE PRINTING MARKET REVENUE FOR POWDER-BASED, BY COUNTRY, 2019–2027 (%)

FIGURE 17.GLOBAL 3D CONCRETE PRINTING MARKET, BY END-USE SECTOR, 2019–2027

FIGURE 18.COLLECTION 3D CONCRETE PRINTING MARKET REVENUE, FOR RESIDENTIAL, BY COUNTRY, 2019–2027 (%)

FIGURE 19.COLLECTION 3D CONCRETE PRINTING MARKET REVENUE, FOR COMMERCIAL, BY COUNTRY, 2019–2027 (%)

FIGURE 20.COLLECTION 3D CONCRETE PRINTING MARKET REVENUE, FOR INFRASTRUCTURE, BY COUNTRY, 2019–2027 (%)

FIGURE 21.GLOBAL 3D CONCRETE PRINTING MARKET, BY REGION, 2019–2027

FIGURE 22.U.S. 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027

(\$BILLION)

FIGURE 23.CANADA 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027

(\$BILLION)

FIGURE 24.MEXICO 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027

(\$BILLION)

FIGURE 25.GERMANY 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027

(\$BILLION)

FIGURE 26.FRANCE 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027

(\$BILLION)

FIGURE 27.UK 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027

(\$BILLION)

FIGURE 28.DENMARK 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027

(\$BILLION)

FIGURE 29.REST OF EUROPE 3D CONCRETE PRINTING MARKET REVENUE,  
2019–2027 (\$BILLION)

FIGURE 30.CHINA 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027  
(\$BILLION)

FIGURE 31.JAPAN 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027  
(\$BILLION)

FIGURE 32.INDIA 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027  
(\$BILLION)

FIGURE 33.SOUTH KOREA 3D CONCRETE PRINTING MARKET REVENUE,  
2019–2027 (\$BILLION)

FIGURE 34.REST OF ASIA-PACIFIC 3D CONCRETE PRINTING MARKET REVENUE,  
2019–2027 (\$BILLION)

FIGURE 35.LATIN AMERICA 3D CONCRETE PRINTING MARKET REVENUE,  
2019–2027 (\$BILLION)

FIGURE 36.MIDDLE EAST 3D CONCRETE PRINTING MARKET REVENUE,  
2019–2027 (\$BILLION)

FIGURE 37.AFRICA 3D CONCRETE PRINTING MARKET REVENUE, 2019–2027  
(\$BILLION)

FIGURE 38.MARKET PLAYER POSITIONING, 2019

FIGURE 39.TOP WINNING STRATEGIES, BY YEAR, 2017–2020

FIGURE 40.TOP WINNING STRATEGIES, BY DEVELOPMENT, 2017–2020 (%)

FIGURE 41.TOP WINNING STRATEGIES, BY COMPANY, 2017–2020

FIGURE 42.COMPANY SNAPSHOT

FIGURE 43.COMPANY SNAPSHOT

FIGURE 44.HEIDELBERGCEMENT AG: R&D EXPENDITURE, 2017–2019  
(\$MILLIONS)

FIGURE 45.HEIDELBERGCEMENT AG: NET SALES, 2017–2019 (\$MILLION)

FIGURE 46.HEIDELBERGCEMENT AG: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 47.HEIDELBERGCEMENT AG: REVENUE SHARE BY REGION, 2019 (%)

FIGURE 48.LAFARGEHOLCIM: R&D EXPENDITURE, 2017–2019 (\$MILLIONS)

FIGURE 49.LAFARGEHOLCIM: NET SALES, 2017–2019 (\$MILLION)

FIGURE 50.LAFARGEHOLCIM: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 51.LAFARGEHOLCIM: REVENUE SHARE BY REGION, 2019 (%)

FIGURE 52.SIKA AG: R&D EXPENDITURE, 2017–2019 (\$MILLIONS)

FIGURE 53.SIKA AG: NET SALES, 2017–2019 (\$MILLION)

FIGURE 54.SIKA AG: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 55.SIKA AG: REVENUE SHARE BY REGION, 2019 (%)

FIGURE 56.SKANSKA: NET SALES, 2017–2019 (\$MILLION)

FIGURE 57.SKANSKA: REVENUE SHARE BY SEGMENT, 2019 (%)

FIGURE 58.SKANSKA: REVENUE SHARE BY REGION, 2019 (%)

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