

3D Printing Construction Market: Segmented By Type (Building, Infrastructure and Others), By Construction (Extrusion, Powder Bonding), And Region – Global Analysis Of Market Size, Share & Trends For 2019–2020 And Forecasts To 2031

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Abstracts

[177 + Pages Research Report] Global 3D Printing Construction Market to surpass USD 0.78 billion by 2031 from USD 0.20 billion in 2021 at a CAGR of 14.36% in the coming years, i.e., 2021-31.

Product Overview

3D printing (sometimes referred to as Additive Manufacturing (AM)) is the computer-controlled sequential layering of materials to make three-dimensional shapes. It is mainly useful for prototyping and for the production of geometrically complex components.

Market Highlights

Global 3D Printing Construction market is expected to project a notable CAGR of 14.36% in 2031.

The increasing application of 3D printing in the construction industry is fueling the market growth. 3D printing is being extensively used for constructing complex building structures using modeling software plans. The adoption of 3D printing technology provides high accuracy, enhanced efficiency, reduced labor cost, and greater speed of construction. The rising implementation of 3D printers for prototyping and designing in the construction sector, along with accuracy achieved in the end product and reduced manufacturing expenditure, is boosting the market growth.

Global 3D Printing Construction: Segments

Building segment to grow with the highest CAGR during 2021-31

Global 3D Printing Construction market is classified on the basis of Type into Building, Infrastructure, and Others. Building segment dominates the market share globally. The building segment includes commercial, residential, and industrial construction. Several construction companies are entering into partnerships with 3D printer suppliers for constructing homes using 3D printing technology.

Extrusion segment to grow with the highest CAGR during 2021-31

Based on Construction methods, global 3D Printing Construction Market fragmented into Extrusion, Powder Bonding. Extrusion segment dominates the market share globally. The key reason behind the adoption of the method is the large demand for concrete in the extrusion 3D printing method in building and infrastructure segment.

Market Dynamics

Drivers

Rising adoption of green construction projects

The rise in the implementation of green construction projects is one of the major factors driving the market growth. Building construction businesses are extensively adopting 3D printing and green construction methods to decrease construction costs and build energy-efficient buildings. Green construction can be defined as the practice of using sustainable construction processes and building materials to make buildings posing a negligible environmental impact.

Solution for solving the housing crisis

The 3D printing construction technology are observed as a solution for solving the housing crisis across several parts of the world. The printing machines that apply conventional energy sources such as wind or solar have been developed to support the implementation of technology even in those areas which are underprivileged of electricity. The constructions are environmentally friendly. These techniques are favored to be used for the construction of structures on extraterrestrial surfaces such as Lunar, Mars, or other planets where environmental situations are difficult to be worked by to human labor.

Restraint

High capital investment

The high capital investment is included in 3D printing construction is anticipated to hamper the market growth. The materials used in commercial and industrial 3D printers are expensive compared to those applied in traditional construction processes.

Global 3D Printing Construction: Key Players

Yingchuang Building Technique (China)

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

XtreeE (France)

Apis Cor (Russia)

Monolite UK (UK)

CSP s.r.l. (Italy)

CyBe Construction (Netherlands)

Sika (Switzerland)

MX3D (Netherlands)

Contour Crafting (California)

ICON (Texas)

Other Prominent Players

Global 3D Printing Construction: Regions

Global 3D Printing Construction market is segmented based on regional analysis into five major regions: North America, Latin America, Europe, Asia Pacific, and the Middle East and Africa. Asia Pacific dominates the 3D Printing Construction market. The growth is attributed to the high demand for 3D printing construction in the building, and infrastructure end-use segments. China and Thailand have been considered as a chief part of the APAC 3D printing construction market.

Global 3D Printing Construction is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United

Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA

Global 3D Printing Construction report also contains analysis on:

3D Printing Construction Segments:

By Type

Building

Infrastructure

Others

By Construction

Extrusion

Powder Bonding

3D Printing Construction Dynamics

3D Printing Construction Size

Supply & Demand

Current Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

3D Printing Construction Market Report Scope and Segmentation

Report Attribute Details

Market size value in 2021 USD 0.20 billion

Revenue forecast in 2031 USD 0.78 billion

Growth Rate CAGR of 14.36% from 2021 to 2031

Base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2021 to 2030

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Type, Application, and Region

Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)

Key companies profiled Yingchuang Building Technique (China), XtreeE (France), Apis Cor (Russia), Monolite UK (UK), CSP s.r.l. (Italy), CyBe Construction (Netherlands), Sika (Switzerland), MX3D (Netherlands), Contour Crafting (California), and ICON

(Texas) and Other Prominent Players

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3. MARKET POTENTIAL

4. GLOBAL PRESENCE

5. KEY PERFORMANCE INDICATORS

6. SWOT ANALYSIS

7. PRODUCT LAUNCH

2. XTREEE (FRANCE)

3. APIS COR (RUSSIA)

4. MONOLITE UK (UK)

5. CSP S.R.L. (ITALY)

6. CYBE CONSTRUCTION (NETHERLANDS)

7. SIKA (SWITZERLAND)

8. MX3D (NETHERLANDS)

9. CONTOUR CRAFTING (CALIFORNIA)

10. ICON (TEXAS)

11. OTHER PROMINENT PLAYERS

Consultant Recommendation

****The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.**

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