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3D Printing Construction Market By Construction method (Extrusion, Power bonding) , By Material type (Concrete, Metal, Composite) By End-user (Buildings, Infrastructure) : Global Opportunity Analysis and Industry Forecast, 2024-2032

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Abstracts

The 3D printing construction market size was valued at $1,420.7 million in 2021, and is projected to reach $750,752.4 million by 2031, registering a CAGR of 87.3% from 2022 to 2031.

3D printing construction is a process for printing polymer, concrete, and metals layer by layer using a 3D printer to create construction components or whole buildings. The most frequent type of printer is one that uses a robotic arm to extrude concrete back and forth. Additive welding and power binding are two more 3D printing techniques. Power binding uses 3D printing within a basin of powder, hardening powder layer-by-layer to construct the desired structure.

It is easier to create new designs with complex surfaces with the help of 3D printing construction. Moreover, less materials are used and it also lowers the labor costs. 3D printing construction offers faster construction. All such factors drive the expansion of the global market. Moreover, rise in building and infrastructure investments across the world has created significant growth opportunities for 3D printing construction market that is expected to drive the market forward during the forecast period.

Various market players have implemented strategic moves such as agreement, business expansion and collaboration to boost the 3D printing construction market. For instance, in May 2020, a construction engineering company Skanska collaborated with Lough Borough University, UK to accelerate the use of 3D printing technology. As a

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result, such strategic moves are anticipated to provide lucrative growth opportunities in the 3D printing construction market growth during the forecast period.

The market is segmented on the basis of construction method, material type, end user, and region. On the basis of construction method, the market is divided into extrusion and power bonding. On the basis of material type, the market is divided into concrete, metal, and composite. On the basis of end user, the market is divided into buildings and infrastructure. By region, the market analysis is conducted across North America (the U.S., Canada, and Mexico), Europe (Germany, France, 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).

Competition Analysis

The key players that operate in the 3D printing construction market are Aectual, Aeditive, Apis Cor, Branch Technology, COBOD International A/S, Constructions -3D, Contour Crafting Corporation, CyBe Construction, ICON Technology, Inc, Mighty Buildings, MX3D, Peri Group, Sika AG, Skanska AB, WASP S.r.I, XtreeE and Yingchuang Building Technique (Shanghai) Co. Ltd. (Winsun)

Key Benefits for Stakeholders

The report provides an extensive analysis of the current and emerging market trends and dynamics.

In-depth market analysis is conducted by constructing market estimations for key market segments between 2022 and 2031.

Extensive analysis of the 3D printing construction market is conducted by following key product positioning and monitoring of top competitors within the market framework.

A comprehensive analysis of all the regions is provided to determine the prevailing opportunities.

The 3D printing construction market forecast analysis from 2022 to 2031 is included in the report.

The key players with in 3D printing construction market are profiled in this report

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and their strategies are analyzed thoroughly, which help understand the competitive outlook of the 3D printing construction industry.

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Key Market Segments

By Construction Method

Extrusion

Power bonding

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By Material Type

- Concrete
- Metal
- Composite

By End-user

- Buildings
- Infrastructure

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- France
- Germany
- Italy
- UK
- Rest of Europe
- Asia-Pacific

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China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Aectual

CyBe Construction

ICON Technology Inc

Skanska AB

Peri group

Contour Crafting

Apis Cor

MX3D

XtreeE

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Branch technology

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