

3D Construction Printing Market : Global Opportunity Analysis and Industry Forecast, 2023-2032

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NEW CASTLE, DE, UNITED STATES, February 11, 2025 /EINPresswire.com/ -- 3D printing refers to the computer controlled layering of materials to create 3D shapes in the buildings. It uses automatic robotic control without any involvement of human. This digital technology is progressively being adopted in the construction industry and changing the complete process of construction. It is also known as additive manufacturing or [construction 3D printers](#). In construction, 3D printer is used to reduce the waste generated and lower the labor costs involved in construction. In construction industry, computer-aided design (CAD) has a major role in designing of the structures such as buildings and roads. CAD is now replaced with new advanced technology building information modelling (BIM) by few industries, which enhances the use of 3D construction printers.

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The global 3D printing construction market trends are:

New product launches to flourish the market

In past few years, there is a high demand for the 3D construction printers to build innovative building designs and transform the construction process with this advanced technology. In March, 2018 ICON, an startup company of Texas has launched the new Vulcan II 3D construction printer. These 3D printer has a build capacity of 8.5 ft in height and 28ft in width. This machine requires a very less human involvement for operating and can be operated through an integrated tablet based system. In terms of build materials these system is compatible with ICON's Lavacrete (material made of Portland cement).

Further, in 2018 a Denmark based firm Cobod international has launched BOD 2 3D construction printer. It is able to print buildings up-to 12 meter wide and 9 meter high.

High demand from applications

Now a days there is a high demand for the 3D constructions printers in various construction firms to lower the waste and cost involved during construction process. In construction industry, the 3D printers is used in printing the components of the residential or commercial building. It is used in building of 3D bridge and canals. For example the world first 3D printed pedestrian

bridge was built in Madrid, Spain using 3D construction printing technology. It is also used in the construction of relief shelters like an architectural firm of the U.S. built a small structure using this 3D printing technology. Moreover, it is also used in designing the metal structure in automotive industry. For example, a Dutch firm MX3D used 3D construction printing technology to design the metal structure. Thus, the 3D construction printing technology is a very cost effective and time reducing technology that is implemented by many companies.

Key benefits of the report:

This study presents the analytical depiction of the 3D printing construction Market along with the current trends and future estimations to determine the imminent investment pockets.

The report presents information related to key drivers, restraints, and opportunities along with detailed analysis of the 3D printing construction Market share.

The current market is quantitatively analyzed to highlight the 3D printing construction market growth scenario.

Porter's five forces analysis illustrates the potency of buyers & suppliers in the market.

The report provides a detailed market analysis depending on competitive intensity and how the competition will take shape in coming years.

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3D Construction Printing Market Report Highlights

Aspects Details

By Technique

Extrusion

Power bonded

By Application

Building design

Canals

Bridges

Others

By Material

Concrete

Metal

Composite

Others

By Region

North America (US, Canada, Mexico)

Europe (Germany, France, UK, Italy, Rest of Europe)

Asia Pacific (China, Japan, India, South Korea, Rest of Asia Pacific)

LAMEA (Latin America, Middle East, Africa)

Key Market Players

Yingchuang Building Technique Co. Ltd., WASP CSP S.r.l., MUDBOTS 3D CONCRETE PRINTING LLC, CyBe Construction, COBOD International A/S, Apis Cor, XtreeE, MX3D, ICON, Contour Crafting Corporation

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Contact Us:

United States

1209 Orange Street,
Corporation Trust Center,
Wilmington, New Castle,
Delaware 19801 USA.

Int'l: +1-503-894-6022

Toll Free: +1-800-792-5285

Fax: +1-800-792-5285

help@alliedmarketresearch.com

<https://medium.com/@kokate.mayuri1991>

<https://www.scoop.it/u/monika-718>

<https://bfsibloghub.blogspot.com/>

David Correa

Allied Market Research

+ + + 1 800-792-5285

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