

Construction 3D Printing Market – Global Industry Size, Share, Trends, Opportunity, and Forecast. 2018-2028F Segmented By Method (Extrusion, Powder Bonding, Others), By Material Type (Concrete, Metal, Composite, Others), By End User (Building, Infrastructure), By Region, Competition

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Abstracts

Global Construction 3D Printing Market is anticipated to thrive in the forecast period 2024-2028. The construction industry's growing understanding of 3D printing technologies and the huge rise in green construction projects worldwide are both factors contributing to the market expansion. The technique is being adopted in the construction sector for various reasons, such as faster building, lower costs and waste, fewer accidents on the job site, and the freedom to build complicated architectural shapes.

Additionally, 3D printing technology is cost-effective as compared to building prototype. When compared to the subtractive process, which is frequently utilized in conventional manufacturing methods, the additive process or 3D printing uses fewer materials. As a result, the process has a lower overall environmental impact because less trash is generated. A variety of growing urban areas are experiencing housing shortage throughout the world, to which 3D printing offers an ideal solution. Many companies are turning to 3D printing as a result of the market's enormous growth potential. For instance, the Italian company WASP S.r.l. has created 3D printers that can construct houses or other structures from locally sourced materials utilizing solar, wind, or hydro power. These 3D printers are a great option for areas without complete access to energy to create 3D-printed environmentally friendly structures by utilizing available materials.

The use of 3D printing technology in the construction sector can reduce the need for on-site laborer, which could ultimately alleviate the labor shortage issue, particularly in nations where the building industry is primarily dependent on migrant labor. For nations where the building industry is one of the major employers and labor is less expensive, 3D printing technology might not be advantageous. Infact, a project's overall cost may get increased as a result of necessary training needed by users of specialized 3D construction printers.

Moreover, additive manufacturing is the term most often used to describe 3D printing, which involves building up layers of material until the desired 2D shapes are produced. Although the technique has been used for a while, it has just recently become commercially viable. Over the years, significant technological improvements have made 3D printing cheaply feasible for both domestic and industrial uses. Several manufacturing sectors are adopting additive manufacturing more frequently, and the construction sector is anticipated to follow suit in the near future. As trends like concrete buildings and printing houses become more popular, this technology is anticipated to change the construction sector.

Increased Adoption of 3D Printing in the Construction Industry

Construction of intricate building structures using 3D printing and modelling software is becoming increasingly popular. The use of 3D printing technology enables increased construction speed, lower labor costs, more precision, and improved efficiency. Hence, the market is being driven by the increasing use of 3D printers for prototyping and designing in the construction industry.

Moreover, over the past few years, 3D printing and additive manufacturing technologies have advanced quickly. Additionally, 3D printing has already been widely used to develop intricate models and successfully print real-size components or items of models that are challenging to construct using conventional techniques. The use of a wide variety of materials, including concrete, plastic, and metal, which can be printed layer by layer to produce large models or even an entire structure or building on-site to reduce operational costs, is made possible by the quick, adaptable, and affordable additive manufacturing process.

Rise in Green Construction Projects

Construction companies are increasingly utilizing 3D printing and green building

techniques to cut costs and produce more energy-efficient structures. Green building is the practice of employing environmentally friendly building methods and supplies to develop structures with minimal negative effects on the environment.

Market Segmentation

The Construction 3D Printing Market is segmented into method, material type, end user. Based on method, the market is segmented into extrusion, powder bonding, and others. Based on material type, the market is divided into concrete, metal, composite, and others. Based on end user, it is categorized into building, and infrastructure.

Market Player

Major market players in the global Construction 3D Printing market are COBOD International A/S, XtreeE, Apis Cor, WASP S.r.l., CyBe construction, SikaAG, Mx3D, Contour Crafting Corporation, ICON Technology, Inc., and Constructions 3D, S.L..

Report Scope:

In this report, the Global Construction 3D Printing market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Construction 3D Printing Market, By Method

Extrusion

Powder Bondin

Others

Construction 3D Printing Market, By Material Type

Concrete

Metal

Composite

Others

Construction 3D Printing Market, By End User

Building

Infrastructure

Construction 3D Printing Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Australia

Singapore

Malaysia

Europe

Germany

United Kingdom

France

Russia

Spain

Belgium

Italy

South America

Brazil

Argentina

Colombia

Peru

Chile

Middle East & Africa

Saudi Arabia

South Africa

UAE

Israel

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global

Construction 3D Printing Market – Global Industry Size, Share, Trends, Opportunity, and Forecast. 2018-2028F S...

Construction 3D Printing market.

Available Customizations:

Global Construction 3D Printing market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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