

Report Information

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3D Concrete Printing Market Research Report - Global Forecast to 2030

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Description:

3D Concrete Printing Market Overview

The 3D concrete printing market size is likely to expand during the ongoing forecast period to reach a market sum of USD 978.5 Million by 2030, while growing at a global CAGR of 55.60%.

Urbanization in both the developed and developing countries is a top-notch factor giving rise to residential construction. There is a bloom in the day-by-day demand for construction activities and further, the global expansion being led in the developing regions is fostering the market to record excellent growth during the forecast period ending in 2028.

L&T, which is one of the major players of the market is in talks with builders to popularise 3D concrete printing technology, to explore the scope of 3D concrete printing, which is a robotic printing technology for building construction that eliminates the need for formwork by printing or depositing concrete in successive layers in accordance with a 3D model.

COVID 19 Analysis

The pandemic has emerged as a game-changer for and made the 3D concrete printing market trend. Global trends show that people are preferring to stay more at their places and further, they are altering their life decisions followed by their life conduct, directly impacting marketing choices of businesses. It has been a tough time for people across the world and that is pushing them to have a basic understanding of the contingencies that lay ahead of them. During the forecast period, trends show that medical professionals may remain on their toes and thus, help in bringing down the positivity rate of the infection. The market has hit a low, resulting in losses and the inability of the market players to meet the needs of people. Making judicious use of the raw material and resources that are available to the producers and manufacturers in the market is a common challenge.

Hence, the 3D concrete printing market players are laying their focus on the increase in funds and investments that help these companies to enhance their product portfolio for betterment of the audience's needs and requirements. Post-pandemic, the industry is recovering substantially well, and companies across the globe, have started receiving funding for projects. For instance, Hyperion Robotics is a Finnish tech business that has secured USD 2.9 million in seed funding to develop cutting-edge automation and environmentally friendly technologies for the concrete and construction industries. Thanks to this funding, Hyperion Robotics will be able to expand its research and development efforts, improve its software and materials technology, and send out its first Micro-factories to major construction sites throughout the world. This funding will allow the business to launch a worldwide network of mobile micro-factories for 3D concrete printing.

Competitive Landscape

Global 3D concrete printing market report helps in understanding the factors and market scenario that is likely to be seen across the world in next few years. The 3D concrete printing industry value is expected to rise during the ongoing forecast period to 2028 and major companies actively working towards achieving this growth include:

- Winsun (China)
- Sika (Switzerland)
- XtreeE (France)
- CSP s.r.l. (Italy)
- CyBe Construction (Netherlands)
- Monolite UK (UK)
- Apis Cor (Russia)

Market Dynamics

Drivers

One of the major growth drivers for global 3D concrete printing market is an increased degree of demand for both customized and money-efficient constructions. This, in turn, motivates companies to carry out larger and elaborated functions to meet the diversification and rising needs. Also, the industry is witnessing an increase in the funds and

investment for development of strong infrastructure that will benefit the worldwide market to grow and cover the losses of the pandemic period.

3D concrete printing has introduced new opportunities and scope to utilise the technology in creative ways. There were considerable cuts to carbon, expenses, and labor thanks to the use of 3D concrete printing in the development and installation of a wastewater chamber for a project in the United Kingdom's water business. ChangeMaker3D's "printinfrastructure" revolutionary technology helped cut down on fossil fuel use, expenses, and human labor. Companies in the water industry that are on the cutting edge of innovation, like United Utilities, have a bright future. They are working under strict timelines to complete a massive capital program. Efficient building can be driven by digital technology like 3D construction printing, which can also assist consumers in reaching their net-zero carbon goals.

Restraints

Globally, the 3D concrete printing market is witnessing a prominent need for skilled labor and constant capital investment. The timely unavailability of both combined with issues like the pandemic are creating a halt and further, may hamper the market growth during the forecast period ending in 2028.

Technology Analysis

The rising degree of investment to use the best technological angle and degree is helping the degree of rapid urbanization and industrialization which is well completing the need of residential construction. This has an excellent role to play for the 3D concrete printing market growth in the period that will be ending in 2028. Luyten 3D, an Australian building and construction firm, released what it claims to be the world's largest AI-powered mobile concrete 3D printer. Numerous construction companies all around the world have placed orders for the Platypus X12 printer. This new innovation is expected to boost the scope of technological advancements in the 3D concrete printing market.

Study Objectives

- The 3D concrete printing market report has been prepared to study the prospects that are rising globally to cater to the rising needs of the target audience post the pandemic. The market report helps to understand the basis of the market functioning and the basis on which industry experts have laid down the growth figures and the attainable CAGR growth during the forecast period of 2021-2028.
- The report helps in having an idea about the basis of the global market segments. The segments, their functions, and the revenue recorded by them during the forecast period are imperative to meet the rising needs of the target audience in various forms and across global locations.
- The market report insists on studying the rising degree of competition in the global industry owing to the efforts that have been pooled by active players that are a part of various companies across the world during the forecast period that will be ending in 2030.

Market Segmentation



Segment Overview

The 3D concrete printing market growth can be attributed to the fulfilling production conducted by the market segments followed by their rising ability to meet the varied needs of the target audience. The global market has been

segmented based on the following segment heads:

By Concrete Type

- Ready Mix Concrete
- Precast Concrete
- Shotcrete
- High Density Concrete

By Application

- Residential
- Industrial
- Agricultural
- others

By End-Use

- Walls
- Roofs
- Floor
- Staircase
- Others

By Region:

Major geographical regions like the Americas, Europe, Asia Pacific, the Middle East, and Africa are covered in this report.

Regional Analysis

The North American region accounted for the largest market share of 35.63% during the historic period in 2018. In this period, the region gained popularity with a market value of USD 10.0 million and it is projected to grow at a CAGR of 14.20% during the forecast period ending in 2028. There has been a growing consumer preference for green buildings and sustained investments in commercial real estate that are emerging as the major factors driving growth of the North American 3D concrete printing market.

The Asian-Pacific region is expected to emerge as the fastest-growing region for the 3D concrete printing market during the forecast period that will be ending in 2028. There has been a substantial increase in industrialization, rising urbanized population, and noticeable growth in spending capacity, which are the major factors driving growth of the Asia-Pacific 3D concrete printing market. It had accounted for a market value of USD 6.0 million in 2016 and is projected to grow at a CAGR of 14.51% in the coming years. Europe: For the first time in Scotland, 3D concrete printed (3DCP) infrastructure has been installed thanks to BAM's efforts on behalf of the Glasgow City Council. Two 3D concrete printed staircases were built as part of the new M8 Footbridge we delivered, making this the largest application of 3D concrete printing (3DCP) in the UK to date. This innovative construction technology is not a passing fad; it will play an integral role in building in the years to come.

Recent Developments

- CyBe Construction is one of the most prominent Dutch companies. It is reported to have finished the 3D printing in the "R&Drone Laboratory". This is understood to be a drone research laboratory based in Dubai. The building is known as the first laboratory in the world to be 3D printed on-site in the global premises. The laboratory will conduct test researches on drones and 3D printing technologies, and will further, be based at the Solar Park as a part of its Research and Development (R&D) Centre.
- There is a shift in the population in the urbanized areas. This is more prominent in nations. This transition pushes for increasing demand for homes and residential complexes. The segment is expected to gain a global CAGR of 15.35%.
- There has been a gradual shift in the population belonging to the urbanized areas, especially in the developing nations. This transition has led to the increasing demand for homes and residential complexes at various places. This induces the global market for 3D concrete printing in the upcoming time. The market segments are expected to grow at 15.35% CAGR during the current forecast period. Industrial was the second-largest market to be valued in 2016, attaining a global sum of USD 8.7 million. It is expected to attain a global CAGR of 55.60%.

Intended Audience

- Raw material dealers and suppliers
- 3D concrete printer wholesalers and manufacturers
- 3D concrete printing service dealers and providers
- End-users of concrete printing substances
- Market Associations
- Industry groups and bodies
- Government, public sector, and regulatory bodies

Report Overview

The 3D concrete printing market report has been prepared to help the market investors have a fair understanding of industry trends that will influence their decisions during the forecast period ending in 2028. The report helps in understanding the steps that have been taken to minimize the effect of the pandemic on the market operations followed by the substantial growth predicted for the market in the global premises.

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