

Global 3D Concrete Printing Market Research and Forecast 2018-2023

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Abstracts

3D concrete printing is referred to the construction process in which the structures are formed layer-by-layer from high-performance concrete and additives. The concrete is emitted from the nozzle of the 3D printer which creates the desired structure based on the design made on the designing software. Automated and semi-automated machines are being integrated into the production line of the structure, in order to implement more effective 3D concrete structures. The market is mainly driven by the need for novel, sustainable, environmentally-friendly, and smart housing solutions. Companies are investing in the research and development of more enhanced 3D concrete printing machines that can fabricate large concrete structures such as lintels, walls, and roofs. The emergence of the novel technology in the construction industry will provide cuttingedge 3D printing technology to various sectors, in order to achieve faster, safer, and greener construction.

The capability of 3D concrete printing system in the implementation of more sophisticated designs and Increasing construction activities in the emerging economies, especially in China are some of the factors propelling the growth of the global 3D concrete printing market. The efficient use of raw materials with minimal labor requirement contributes in the increasing demand for 3D concrete printing technology in the construction industry. Moreover, the construction process becomes faster with the 3D concrete printing technology, and hence it reduces the overall cost of the construction project, which in turn, increases the demand for 3D concrete printing technology in emerging economies. The high cost of 3D concrete printers and less availability of skilled labor are some of the factors hampering the growth of the global 3D concrete printing market. However, the rapid urbanization and industrialization with impending applications of 3D concrete printing technology in other sectors such as defense is expected to fuel the market growth in the near future.



The 3D concrete printing market can be segmented on the basis of offering, technology, concrete type, product type, and end users. Based on offering, the market is bifurcated into printing services, software, and materials. Software segment can further be segmented into design software, inspection software, and printing software. Based on technology, the market can be bifurcated into extrusion-based technology and powder-based technology. Moreover, the 3D concrete printing market can be segmented on the basis of concrete type into ready-mix concrete, precast concrete, shotcrete, high-density concrete, and others (light-weight concrete and limecrete). Based on product type, the market can be segmented into walls, roofs & floors, staircases, panels & lintels, and others (paving slabs). Based on end users, the market can be segmented into architecture, industrial, agriculture, domestic, and others (defense). Domestic segment can be further segmented into residential and non-residential. Among technology, the extrusion-based segment holds the largest market share in the 3D concrete printing market. This can be attributed to its capability of producing complex geometrical structures used in large-scale building components.

The global 3D concrete printing market is further analyzed on the basis of the geographical regions that are contributing significantly in the growth of the market. North America holds a dominant position in the global 3D concrete printing market, followed by Asia Pacific and Europe. This is mainly owing to the rapid industrialization in the construction industry in the region. The U.S. and Canada are the leading countries that are primarily involved in the development of innovative manufacturing goods across the globe. Asia Pacific is projected to exhibit the fastest growth in the global 3D concrete printing market over the forecast period. The increasing interest of government and regulatory bodies towards green construction activities in the emerging economies such as India and China and rapid industrialization and urbanization are some of the major factors contributing in the growth of the 3D concrete printing market in Asia Pacific.

Some of the key players operating in the global 3D concrete printing market are Apis Cor, Betabram, Contour Crafting Corporation, CSP S.R.L., CyBe Construction, Dus Architects, Foster + Partners, Rohaco, Sika AG, Skanska, and xTreeE among others. In order to sustain in the competitive market, these players adopt various strategies such as acquisitions, mergers, expansions, joint ventures and product development and so on. For instance, in March 2017, Winsun announced the lease of around hundred 3D concrete printers and its relative technical support Al Mobty Contracting Co., a Saudi Arabia-based constructing company. This is expected to build over 1.5 million homes in Saudi Arabia.



RESEARCH METHODOLOGY

The market study of 3D concrete printing market is incorporated by extensive primary and secondary research conducted by research team at OMR. Secondary research has been conducted to refine the available data to breakdown the market in various segments, derive total market size, market forecast and growth rate. Different approaches have been worked on to derive the market value and market growth rate. Our team collects facts and data related to the market from different geography to provide a better regional outlook. In the report country level analysis is provided by analyzing various regional players, regional tax laws and policies, consumer behavior and macro-economic factors. Numbers extracted from Secondary research have been authenticated by conducting proper primary research. It includes tracking down key people from the industry and interviewing them to validate the data. This enables our analyst to derive the closest possible figures without any major deviations in the actual number. Our analysts try to contact as many executives, managers, key opinion leaders and industry experts. Primary research brings the authenticity in our reports.

Secondary sources include:

Financial reports of companies involved in the market
Authentic Public Databases such as The Institution of Structural Engineers, The
Institution of Engineering and Technology (THEIET), and www.3Ders.org, among others
Whitepapers, research-papers, and news blogs
Company websites and their product catalogue
Supplier Websites such as Alibaba, amazon for pricing analysis

The report is intended for 3D concrete printer manufacturers, raw material suppliers, government & regulatory bodies, and end-use industries for overall market analysis and competitive analysis. The report provides in-depth analysis on pricing, market size, intended quality of the product preferred by consumers, initial norms and vehicle segment. The report will serve as a source for 360-degree analysis of the market thoroughly integrating different models such as PEST analysis, Porter five analysis delivering insights into the market for better business decisions.

MARKET SEGMENTATION:

Global 3D concrete printing market is segmented on the basis of regional outlook and following segments:

Global 3D Concrete Printing Market Research and Analysis, By Offering



Global 3D Concrete Printing Market Research and Analysis, By Technology Global 3D Concrete Printing Market Research and Analysis, By Concrete Type Global 3D Concrete Printing Market Research and Analysis, By Product Type Global 3D Concrete Printing Market Research and Analysis, By End Users Global 3D Concrete Printing Market Research and Analysis, By Region

THE REPORT COVERS:

Comprehensive research methodology of global 3D concrete printing market

This report also includes detailed and extensive market overview with key analyst insights

Exhaustive analysis of macro and micro factors influencing the market guided by key recommendations

Analysis of regional regulations and other government policies impacting the global 3D concrete printing market

Insights about market determinants which are stimulating the global 3D concrete printing market

Detailed and extensive market segments with regional distribution of forecasted revenues

Extensive profiles and recent developments of market players



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COMPANIES MENTIONED

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- 2. ACCIONA, S.A.



- 3. APIS COR
- 4. BALFOUR BEATTY
- 5. BAM CONSTRUCT UK
- 6. BATIPRINT 3D
- 7. BEIJING HUASHANG LUHAI TECHNOLOGY CO., LTD.
- 8. BETABRAM
- 9. CONSTRUCTIONS-3D
- 10. CONTOUR CRAFTING CORPORATION
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- **17. ICON**
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- 20. LAFARGEHOLCIM
- 21. MACHINES-3D
- 22. MERLO CONSTRUCTION
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