3D Printing for Construction: Global Markets

Market Research Report | 2025-09-01 | 144 pages | BCC Research

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Report description:

Description

Report Scope
The report offers a comprehensive qualitative and quantitative assessment of the global 3D printing for the construction market. It provides global revenue ($ million) using 2024 as the base year and projected data from 2025 through 2030. The report provides a thorough analysis of the market based on product, construction form, process, end user and region. Each region is further divided into countries.
The report segments the market in the following manner:
- By Product
- Software and services
- Hardware
- Materials
- Concrete and mortar
- Polymers and composites
- Others
- By Construction Form
- On-site
- Off-site
- By Process
- Extrusion
- Powder bonding
- By End User
- Residential
- Commercial

- Others
- By Region
- North America: U.S., Canada, Mexico
- Europe: Germany, Netherlands, Rest of Europe
- Asia-Pacific: China, Japan, Rest of APAC
- South America
- Middle East and Africa: GCC and others

Report Includes

- 74 data tables and 47 additional tables
- An up-to-date overview and analysis of the global market for 3D printing for the construction sector
- In-depth analysis of global market trends, featuring historical revenue data for 2024, estimated figures for 2025, as well as forecasts for 2029, including projections of CAGRs through 2030
- Highlights of the current and upcoming potential for 3D printing in the construction industry, factors driving growth and areas of focus to forecast this market into various segments and sub-segments
- Estimation of the actual market size and revenue forecast for the global 3D printing for construction market, and corresponding market share analysis based on product, process, construction form, end user, and region
- Information on key market drivers and opportunities, industry shifts and regulations, and other demographic factors that will influence market demand in the coming years
- Analysis of market opportunities with a holistic review of Porter's Five Forces model and industry supply chain analysis, considering both micro- and macro-environmental factors prevailing in the market
- Review of emerging technologies in the 3D printing for construction market and analysis of patents granted related to the global market
- Coverage of evolving technologies, the current and future market potential, R&D activities, growth strategies, regulatory framework and reimbursement scenarios, and ESG trends of the market
- Identification of companies best positioned to meet this demand due to their proprietary technologies, mergers and acquisitions, joint ventures and other strategic alliances
- Descriptive company profiles of the leading global players, including PERI SE, CyBe Construction, COBOD INTERNATIONAL A/S, XtreeE, and Sika AG

Executive Summary

Summary:

The global market for 3D printing for construction is expected to grow from $228.6 million in 2025 and is projected to reach $6.5 billion by the end of 2030, at a compound annual growth rate (CAGR) of 95.5% during the forecast period of 2025 to 2030.

The global market for 3D printing for construction is likely to be driven by increasing shortage of affordable housing and skilled labor, the rising role of automation in construction and growing popularity of sustainable construction practices. The lack of affordable housing is gradually becoming a global crisis. Moreover, the construction industry is still struggling with a lack of skilled construction workers to meet the growing demand. The utilization of 3D printing technology is vital in catering to these challenges associated with housing and skilled labor.

As the technological landscape advances, automation is becoming a vital element of the global construction sector, from planning and designing to execution and maintenance. This has increased demand for robotics, 3D printing, advanced software and artificial intelligence (AI).

Trends and Future Developments

Popular emerging trends in the global 3D printing for construction market include increased research activities focusing on expanding the range of materials, development of advanced sustainable low-carbon 3D printable concrete, and experimentation on geopolymers and other bio-based materials. Extensive research and technological advances in 3D printing are conducted to augment construction activities, cut costs and expand the utilization of decarbonized materials.

There are huge future growth prospects using 3D printing within large-scale construction, including infrastructure, industrial buildings and specialized industrial structures. In addition, the incorporation of innovative and environment-friendly materials will make the entire 3D printing process more versatile and sustainable. Advances in 3D printing could enable construction of habitats on Mars and the Moon in the coming years.

Table of Contents:

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COBOD INTERNATIONAL A/S
CYBE CONSTRUCTION
HEIDELBERG MATERIALS AG
HOLCIM
ICON TECHNOLOGY INC.
LATICRETE INTERNATIONAL INC.
MATERIALISE
MX3D
PERI SE
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