

# 3D Printing Building Construction Market to Exceed US \$13.81 Bn by 2029, with 93.2 CAGR: The Business Research Company

*The Business Research Company's 3D Printing Building Construction Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034*

LONDON, GREATER LONDON, UNITED KINGDOM, September 17, 2025  
/EINPresswire.com/ -- What Is The Forecast For The 3D Printing Building Construction Market From 2024 To 2029?

The market size of [3D printing in building construction](#) has experienced significant growth in the last few years. The market is projected to expand from \$0.33 billion in 2024 to \$0.99 billion in 2025, indicating a compound annual growth rate (CAGR) of 200.9%. This surge during the historic period is a result of technological advancements, increased investment in renewable energy infrastructure, superiority over traditional construction methods, decreased production costs, evolution of 3D printing technology, and a dramatic increase in urbanization.

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The market size for 3D printing in building construction is predicted to experience dramatic expansion in the coming years, reaching a value of \$13.81 billion in 2029 with a compound annual growth rate (CAGR) of 93.2%. This surge during the forecast period can be linked to an upsurge in new global construction projects, the implementation of

eco-friendly construction methodologies, and an increased availability of disposable income. Notable trends for the forecast period encompass the utilization of robotic arm extruders to boost productivity, investments in 3D prefabrication buildings and modularization tactics to optimize construction efficiencies, and the enactment of eco-friendly construction strategies for the creation of sustainable structures, all facilitated through strategic partnerships and collaborations to consolidate market position.

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### What Are The Core Growth Drivers Shaping The Future Of The 3D Printing Building Construction Market?

The ability to construct intricate structures within an agreed timeframe and at reasonable costs is a significant component driving demand for 3D printing within the building construction market. It promises cost-effectiveness, safety, efficiency, minimizes labor costs, and supports ecological practices while effortlessly aiding in the formation of elaborate building designs. Against conventional manufacturing techniques, the employment of 3D printing in construction proves to be more cost-efficient concerning material utilization. On top of that, it is capable of slashing labor expenses by 50%–80%, reducing production duration by 50%–75% and diminishing construction waste by 30%–60%. Consequently, the economic advantages that 3D printing construction provides can significantly contribute to the robust growth of the market.

### Which Companies Are Currently Leading In The 3D Printing Building Construction Market?

Major players in the 3D Printing Building Construction include:

- ICON Technology, Inc.
- Mighty Buildings, Inc.
- Branch Technology
- Contour Crafting Corporation
- Apis Cor
- PERI Group
- XtreeE
- Mx3D
- CyBe Construction B.V.
- Sanska Group

### What Are The Main Trends, Positively Impacting The Growth Of 3D Printing Building Construction Market?

The surge in flexibility of 3D printing operations due to artificial intelligence (AI) is a significant trend that is playing a substantial role in the growth of the 3D printing building construction market. In October 2022, Luyten 3D, a construction and building company based in Australia that provides 3D printing, launched an AI-empowered mobile concrete 3D printer called the Platypus X12 concrete printer for use in the building and construction industry. This printer, one of the largest globally, can adjust its size to that of a 12 x 6 mobile crane in just 20 minutes, thus enhancing its ability to print large-scale structures. The Platypus X12 features artificial intelligence based on acoustic and optical data for concrete printing. Additionally, the printer includes a patented anti-clogging head.

### Comparative Analysis Of Leading 3D Printing Building Construction Market Segments

The 3D printing building construction market covered in this report is segmented –

- 1) By Construction Type: Modular, Full Building
- 2) By Process: Extrusion, Powder Bonding, Other Processes
- 3) By Material Type: Hybrid, Plastic, Metal, Other Material
- 4) By End-User: Residential Buildings, Institutional Buildings And Commercial Buildings

Subsegments:

- 1) By Modular: Prefabricated Panels, Structural Components, Walls And Floors, Other Modular Elements
- 2) By Full Building: Residential Buildings, Commercial Buildings, Industrial Buildings, Public Infrastructure

View the full 3d printing building construction market report:

<https://www.thebusinessresearchcompany.com/report/3d-printing-building-construction-global-market-report>

Which Regions Are Dominating The 3D Printing Building Construction Market Landscape?

In 2024, the Asia-Pacific region led the global market in 3D printing building construction and is predicted to be the region with the most rapid growth in the forecasted timeframe. The report on the 3D printing building construction market includes data on the following regions: Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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