Food 3D Printing Market to Garner $15.1 Billion, Globally, By 2031 At 52.8% CAGR

Rise in demand for gourmet food, increase in the use of 3D printers in plant-based meat alternatives, surge in need for fresh & handcrafted food to drive growth

Food 3D Printing Market

WILMINGTON, DE, UNITED STATES, October 7, 2025 /EINPresswire.com/ -- The global food 3D printing market size generated $226.2 million in 2021, and is projected to reach $15.1 billion by 2031, growing at a CAGR of 52.8% from 2022 to 2031.

The report offers a detailed analysis of the top winning strategies, evolving market trends, market size and estimations, value chain, key investment pockets, drivers & opportunities, competitive landscape and regional landscape. The report is a useful source of information for new entrants, shareholders, frontrunners and shareholders in introducing necessary strategies for the future and taking essential steps to significantly strengthen and heighten their position in the market.

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Owing to higher focus on the development of nutritionally customized foods for enhanced health benefits, the 3D food printing industry is anticipated to experience significant expansion. In addition, the rise in the use of 3D printers in plant-based meat alternatives drives the 3D food printing market growth. The market for 3D food printing has expanded as a result of the bourgeoning demand for gourmet food. The expansion of the 3D food printing market is greatly influenced by an increase in research initiatives for the development of newer innovative 3D food printing models.

The Food 3D Printing Market is mostly driven by increase in the adoption of 3D food printing to reduce food wastage. According to Food 3D Printing Market Analysis, potato skins with a finer

texture print more easily than those with a coarser texture. With whole grain flour and potato skin powder as the material feed, the industries set the extrusion printing conditions of the in-house built CARK printer to a printing speed of 600 mm/min and an extrusion motor speed of 600 rpm. And a 1.28 mm diameter nozzle at 6 bar of pressure. Instant noodles that were 3D printed and then processed were adopted by consumers just like other items. Blended noodles are suitable for breakfast as they have an energy content of 414.39 kcal/100 g.

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Owing to broad awareness and implementation of 3D printing technology in food products, Europe is anticipated to hold the largest Food 3D Printing Market Share during the forecast period. The presence of major market players in the European region, together with an increase in innovation by European players, is anticipated to support the expansion of the European Food 3D Printing Market Forecast period. The market in North America and the Asia-Pacific is expected to expand significantly in the upcoming years as a result of rise in demand for commoditized food items that are both highly customizable and reasonably priced in these two regions. Growth in partnerships between food producers and food technology firms across North America is anticipated to support the region's 3D food printing market expansion.

However, the slow processing time acts as a restraint in the 3D food printing market. One of the main obstacles to the 3D food printing sector is time. 3D food printing requires a lot more time than conventional cooking does. The printer must maintain a high level of accuracy when printing food, which is the primary cause of this lengthy printing process. It is a key factor limiting the Food 3D Printing Market Growth.

The 3d food printing market is segmented into technology, ingredient, end user, and region. On the basis of technology, the 3D food printing market is segmented into extrusion-based printing, binder jetting, selective laser sintering, and inkjet printing. The extrusion-based printing segment accounted for a major share in the 3D food printing market in 2021 and is expected to grow at a significant CAGR during the forecast period.

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Based on region, the market across Europe held the largest market share in 2021, holding more than one-third of the global market, and is expected to maintain its leadership status during the forecast period. In addition, the same segment is expected to cite the fastest CAGR of 55.2% during the forecast period. The report also analyses other regions of the market such as North America, Asia-Pacific, and North America.

The key players analysed in the global food 3D printing market report include Natural Machines, Systems and Materials Research Corporation, byFlow B.V., Print4taste GmbH, Barilla G. e R.

Fratelli S.p.A, BeeHex, Modern Meadow, Dovetailed, 3Desserts Graphiques, 3D Systems, Inc., Redefine Meat Ltd., NOVAMEAT, Aniwaa Pte. Ltd, TNO, Shiyin Technology Co., Ltd.

The report analyzes these key players in the global food 3D printing industry. These market players have made effective use of strategies such as joint ventures, collaborations, expansion, new product launches, partnerships, and others to maximize their foothold and prowess in the industry. The report is helpful in analyzing recent developments, product portfolio, business performance and operating segments by prominent players in the market.

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