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3D Food Printing Market by Offering, Printing Method (Layer-by-layer, Mold-based), Printing Technology (Extrusion, Powder Binding Deposition), Ingredient Form (Pastes and Purees, Powdered Ingredients), End User, and Geography—Global Forecast to 2030

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Abstracts

3D Food Printing Market by Offering, Printing Method (Layer-by-layer, Mold-based), Printing Technology (Extrusion, Powder Binding Deposition), Ingredient Form (Pastes and Purees, Powdered Ingredients), End User, and Geography—Global Forecast to 2030

The research report titled ‘3D Food Printing Market by Offering, Printing Method (Layer-by-layer, Mold-based), Printing Technology (Extrusion, Powder Binding Deposition), Ingredient Form (Pastes and Purees, Powdered Ingredients), End User, and Geography—Global Forecast to 2030’ provides an in-depth analysis of 3D food printing market across five major geographies and emphasizes on the current market trends, market sizes, market shares, recent developments, and forecasts till 2030.

The 3D food printing market is projected to reach $11.3 billion by 2030, at a CAGR of 50.2% from 2023 to 2030.

The growth of the 3D food printing market is driven by the rising demand for gourmet food and the increasing use of 3D printing technology to produce plant-based meat alternatives and reduce food wastage.

However, the long processing times required to 3D print food products and the lack of flavor and texture compared to traditionally manufactured food products restrain the growth of this market. The growing demand for 3D food printing technology in the food

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& hospitality industries and increasing research initiatives to develop innovative 3D food printing models are expected to create market growth opportunities. However, limitations in ingredient processing and consumers' higher preference for traditionally manufactured food products are major challenges for the players operating in the 3D food printing market.

Based on offering, the 3D food printing market is segmented into machines & accessories, software, and services. In 2023, the machines & accessories segment is expected to account for the largest share of the 3D food printing market. The large market share of this segment is attributed to the wider usage of 3D printing technology in food industries for personalized nutrition, automated cooking, and reduction in food wastage, among other applications. Additionally, this segment is slated to register the highest CAGR during the forecast period.

Based on printing method, the 3D food printing market is segmented into layer-by-layer and mold-based. In 2023, the layer-by-layer segment is expected to account for the larger share of the 3D food printing market. The large market share of this segment is attributed to the method's wide usage in different applications, its ability to design complex-shaped products, and easily add specific ingredients selected as per customer preferences. Additionally, this segment is slated to register the higher CAGR during the forecast period.

Based on printing technology, the 3D food printing market is segmented into extrusion, powder binding deposition, inkjet printing, and bio-printing. The extrusion segment is further sub-segmented into soft-materials extrusion, melting extrusion, and hydrogel-forming extrusion. The powder binding deposition segment is further sub-segmented into selective laser sintering, liquid binding, and selective hot air sintering and melting. In 2023, the extrusion segment is expected to account for the largest share of the 3D food printing market. The large market share of this segment is attributed due to the technology's ability to achieve the output of conventional food extrusion processing physically with digitalized designs and personalized nutrition control. Also, extrusion is a digitally controlled, robotic construction process that can produce complex-shaped 3D food products. However, the powder binding deposition segment is projected to register the highest CAGR during the forecast period.

Based on ingredient form, the 3D food printing market is segmented into pastes and purees, powdered ingredients, and cells. The pastes and purees segment is further sub-segmented into dough, puree, jelly & frosting, mashed fruits & vegetables, cheese, and other pastes and purees. The powdered ingredients segment is further sub-segmented

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into sugar, chocolate powder, protein powder, flour, and other powdered ingredients. In 2023, the pastes and purees segment is expected to account for the largest share of the 3D food printing market. The large market share of this segment is attributed to the ingredients' structural properties and easy usage with 3D food printing technologies. Also, the increasing demand for customized paste and puree-based products supports the segment's large market share. However, the powdered ingredients segment is projected to register the highest CAGR during the forecast period.

Based on end user, the 3D food printing market is segmented into restaurants, big-scale catering, bakeries & confectionaries, and other end users. The restaurants segment is further sub-segmented into QSR/fast food restaurants, casual dining restaurants, cafes, and fine dining/gourmet restaurants. In 2023, the bakeries & confectionaries segment is expected to account for the largest share of the 3D food printing market. The large market share of this segment is attributed to the increasing demand for personalized meals and luxury dining and the rising consumption of plant-based meat products across the globe. However, the restaurants segment is projected to register the highest CAGR during the forecast period.

Based on geography, the 3D food printing market is segmented into North America, Europe, Latin America, and the Middle East & Africa. In 2023, North America is expected to account for the largest share of the 3D food printing market, followed by Europe, Asia-Pacific, Latin America, and the Middle East & Africa. The major factor driving the market's growth in North America is the increasing technological progress in all aspects of food technology, rapidly rising awareness regarding 3D-printed and plant-based meat products, and the increasing demand for vegan alternatives to meat products.

The key players operating in the 3D food printing market include 3D Systems Corporation (U.S.), TNO (Netherlands), Natural Machines (Spain), Wiiboox (China), byFlow B.V. (Netherlands), Dovetailed (U.K.), PancakeBot (U.S.), BeeHex, LLC (U.S.), Print4Taste GmbH (Germany), and Changxing Shiyin Technology Co., Ltd. (China).

Key questions answered in the report:

- Which are the high growth market segments in terms of offering, printing method, printing technology, ingredient form, end user, and country?

- What is the historical market for 3D food printing across the globe?

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What are the market forecasts and estimates from 2023–2030?

What are the major drivers, restraints, and opportunities in the 3D food printing market?

Who are the major players in the 3D food printing market, and what are their market shares?

Who are the major players in various countries, and what are their market shares?

How is the competitive landscape?

What are the recent developments in the 3D food printing market?

What are the different growth strategies adopted by major players operating in the 3D food printing market?

What are the geographical trends and high growth countries?

Who are the local emerging players in the 3D food printing market and how do they compete with the other players?

Scope of the report:

3D Food Printing Market Assessment, by Offering

Machines & Accessories

Software

Services

3D Food Printing Market Assessment, by Printing Method

Layer-by-layer

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- Mold-based

3D Food Printing Market Assessment, by Printing Technology

- Extrusion
  - Soft-materials Extrusion
  - Melting Extrusion
  - Hydrogel-forming Extrusion
- Powder Binding Deposition
  - Selective Laser Sintering
  - Liquid Binding
  - Selective Hot Air Sintering and Melting
- Inkjet Printing
- Bio-printing

3D Food Printing Market Assessment, by Ingredient Form

- Pastes and Purees
  - Dough
  - Puree
  - Jelly & Frosting
  - Mashed Fruits & Vegetables
  - Cheese

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