

# 3D Food Printing Market by Ingredient (Dough, Fruits & Vegetables, Dairy Products, Carbohydrates, and Others); By Vertical (Government, Commercial and Residential); and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

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## Abstracts

### Product Overview

3D printing is a cutting-edge method of layer-by-layer structuring and development. The computer is programmed with the product design, and the software is also programmed with the same method. The raw materials are fed into the machines in small granules, which are then released by the robot arm to form the 3D shape. Food goods are produced using a similar technology. 3D printers not only assist in the creation of 3D shapes, but also produce food with an appealing appearance and, most importantly, taste. With many companies around the world trying their hand at 3D printing food, technology has brought about enormous change in the food industry. The process of 3D printing technology is known as additive manufacturing, in which 3D deposition printers slowly deposit layers of materials, one on top of the other until a product is formed. 3D printers, which use lasers, powdery materials, and nozzles to manufacture and create food, are opening new doors for the customization of food products by delivering a powerful mix of the right nutrients.

### Market Highlights

Global 3D Food Printing Market is expected to project a notable CAGR of 16.54% in 2030.

Global 3D Food Printing Market to surpass USD 1617.99 million by 2030 from USD 350.24 million in 2020 at a CAGR of 16.54% in the coming years, i.e., 2021-30. This

growth is anticipated due to increasing mergers and acquisitions across various sectors which will create a worldwide demand for 3D Food Printing Market. Increased consumer demand for mass customization, the ability of 3D printers to prepare food that is suitable and time-saving, customization of nutrients needed by distinct in their food products, gaining the benefit of substitute ingredients, and others are expected to drive the global 3D Food Printing Market. As the world becomes more self-centered, people are seeking more customization in their products, including their food. The demand for mass customization is growing, with different shapes, colors, flavors, nutrition, and textures becoming more common. Food items such as coffee, hamburgers, ice cream, cake, cookies, confectionery, and others are commonly customized.

#### Global 3D Food Printing Market: Segments

Carbohydrates segment to grow with the highest CAGR during 2020-30

Global 3D Food Printing Market is divided by ingredients into Dough, Fruits & Vegetables, Dairy Products, Carbohydrates, and Others. Over the forecast period, the carbohydrates segment is projected to expand at the fastest pace. The factors that can be attributed to the preferable use of 3D food printers for the development of personalized chocolates and other sweet food products containing carbohydrates as the main constituent, such as donuts, candies, and pancakes, are accelerating the demand for carbohydrates segment.

Commercial segment to grow with the highest CAGR during 2020-30

Global 3D Food Printing Market is segmented by vertical into Government, Commercial and Residential. The commercial segment held the largest market share in the year 2020. Since it is simple to offer training and maintenance services to consumers from the commercial vertical, the majority of key 3D food printer manufacturing companies target them as their most likely clients.

#### Market Dynamics

##### Drivers

Demand for customization and nutritious food innovation

The demand for customization is driving the global market for 3D printers, as 3D printing saves both time and effort. The nutrients themselves can be personalized, allowing consumers to benefit from food that is specifically tailored to their nutritional needs. 3D printing enables the development of easy-to-chew food with a formulation tailored to the patients' nutritional needs. This is likely to aid in the feeding of elderly patients with unique nutrient-rich foods based on their needs. In addition, nutritious food innovation has widened the sector to a global scale. The 3D food printers are used to produce yeast structures that look like crackers and contain spores and seeds that sprout over

time.

Ability to revolutionize nutrition and growing demand in the healthcare sector  
As opposed to conventional food processing systems, 3D printing has the potential to supply an ever-growing global population. 3D food printers have the ability to revolutionize nutrition by determining the exact amount of vitamins and carbohydrates needed without the need for tedious calculations. It also enables customers to print food with personalized nutritional content that is optimized using biometric and genomic data. Personalization of nutritionally based food has thus resulted in market growth, as it assists consumers in producing nutritionally based food that meets their needs. The demand has also developed as a result of applications in the healthcare industry. Patients with illnesses and allergies will benefit from 3D printers because they can use technology that purees vegetables like carrots and broccoli into nutritional, easy-to-chew soft-molds of their original form. WASP, an Italian 3D printing company, is experimenting with a printer that can create gluten-free versions of common foods.

#### Restraint

Time-consuming method and high costs associated with market

Many of the materials used in 3D printing, on the other hand, are converted to paste. There are only a few foods that can be turned into paste. 3D Food Printing Market is also a time-consuming method that necessitates several cooling cycles before the food can be eaten. The requirement for 3D Food Printing Market is that it can solve the current trend of less efficient food customization techniques while not having a high manufacturing cost.

#### Global 3D Food Printing Market: Key Players

TNO

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

3D Systems

Natural Machines

Systems and Materials Research Corporation

byFlow

Print2taste GmbH

Barilla

CandyFab

Beehex

Other Prominent Players

Global 3D Food Printing Market: Regions

Global 3D Food Printing Market is segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, Asia Pacific, and the Middle East and Africa. Global 3D Food Printing Market in Europe held the largest market share in the year 2020. Because of the rapid acceptance of the technology by customers and its incorporation into everyday food preparation procedures, Europe dominates the global 3D Food Printing Market industry. The United States is expected to grow rapidly as a result of rapid technological advancements and the introduction of advanced machines that can produce food using 3D printing technology.

Global 3D Food Printing Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – the United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA

3D Food Printing Market Segments:

By Ingredient

Dough

Fruits & Vegetables

Dairy Products

Carbohydrates

Others

By Vertical

Government

Commercial

Residential

3D Food Printing Market Dynamics

3D Food Printing Market Size

Supply & Demand

Current Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

3D Food Printing Market Report Scope and Segmentation

Frequently Asked Questions

How big is the 3D Food Printing Market?

What is the 3D Food Printing Market growth?

Which segment accounted for the largest 3D Food Printing Market share?

Who are the key players in the 3D Food Printing Market?

What are the factors driving the 3D Food Printing Market?

## Contents

### **1. EXECUTIVE SUMMARY**

### **2. GLOBAL 3D FOOD PRINTING MARKET**

- 2.1. Product Overview
- 2.2. Market Definition
- 2.3. Segmentation
- 2.4. Assumptions and Acronyms

### **3. RESEARCH METHODOLOGY**

- 3.1. Research Objectives
- 3.2. Primary Research
- 3.3. Secondary Research
- 3.4. Forecast Model
- 3.5. Market Size Estimation

### **4. AVERAGE PRICING ANALYSIS**

### **5. MACRO-ECONOMIC INDICATORS**

### **6. MARKET DYNAMICS**

- 6.1. Growth Drivers
- 6.2. Restraints
- 6.3. Opportunity
- 6.4. Trends

### **7. CORRELATION & REGRESSION ANALYSIS**

- 7.1. Correlation Matrix
- 7.2. Regression Matrix

### **8. RECENT DEVELOPMENT, POLICIES & REGULATORY LANDSCAPE**

### **9. RISK ANALYSIS**

9.1. Demand Risk Analysis

9.2. Supply Risk Analysis

## **10. GLOBAL 3D FOOD PRINTING MARKET ANALYSIS**

10.1. Porters Five Forces

10.1.1. Threat of New Entrants

10.1.2. Bargaining Power of Suppliers

10.1.3. Threat of Substitutes

10.1.4. Rivalry

10.2. PEST Analysis

10.2.1. Political

10.2.2. Economic

10.2.3. Social

10.2.4. Technological

## **11. GLOBAL 3D FOOD PRINTING MARKET**

11.1. Market Size & forecast, 2020A-2030F

11.1.1. By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

11.1.2. By Volume (Million Units) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

## **12. GLOBAL 3D FOOD PRINTING MARKET: MARKET SEGMENTATION**

12.1. By Regions

12.1.1. North America:(U.S. and Canada), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.2. Latin America: (Brazil, Mexico, Argentina, Rest of Latin America), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.3. Europe: (Germany, UK, France, Italy, Spain, BENELUX, NORDIC, Hungary, Poland, Turkey, Russia, Rest of Europe), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.4. Asia-Pacific: (China, India, Japan, South Korea, Indonesia, Malaysia, Australia, New Zealand, Rest of Asia Pacific), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.1.5. Middle East and Africa: (Israel, GCC, North Africa, South Africa, Rest of Middle East and Africa), By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

12.2. By Ingredient: Market Share (2020-2030F)

- 12.2.1. Dough, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
- 12.2.2. Fruits & Vegetables, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
- 12.2.3. Dairy Products, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
- 12.2.4. Carbohydrates, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
- 12.2.5. Others, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
- 12.3. By Vertical : Market Share (2020-2030F)
  - 12.3.1. Government By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
  - 12.3.2. Commercial, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F
  - 12.3.3. Residential, By Value (USD Million) 2020-2030F; Y-o-Y Growth (%) 2021-2030F

## **COMPANY PROFILE**

### **1. TNO**

#### **1. COMPANY OVERVIEW**

#### **2. COMPANY TOTAL REVENUE (FINANCIALS)**

#### **3. MARKET POTENTIAL**

#### **4. GLOBAL PRESENCE**

#### **5. KEY PERFORMANCE INDICATORS**

#### **6. SWOT ANALYSIS**

#### **7. PRODUCT LAUNCH**

#### **2. 3D SYSTEMS**

#### **3. NATURAL MACHINES**

#### **4. SYSTEMS AND MATERIALS RESEARCH CORPORATION**



**5. BYFLOW**

**6. PRINT2TASTE GMBH**

**7. BARILLA**

**8. CANDYFAB**

**9. BEEHEX**

**10. OTHER PROMINENT PLAYERS**

Consultant Recommendation

**\*\*The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.**

## I would like to order

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