

3D Printing Market by Printer Type, Material Type (Metals, Plastics, Ceramics & Others), Material Form (Powder, Liquid, Filament), Process, Technology, Software, Service, Application, Vertical and Geography - Global Forecast to 2022

<https://marketpublishers.com/r/3912D3FADBCEN.html>

Date: April 2016

Pages: 306

Price: US\$ 7,150.00 (Single User License)

ID: 3912D3FADBCEN

Abstracts

3D PRINTING MARKET TO GROW AT A CAGR OF 28.5% BETWEEN 2016 AND 2022

The 3D printing market is expected to reach USD 30.19 billion by 2022, at a CAGR of 28.5% between 2016 and 2022. 3D printing is used to develop prototypes and end products in industries such as of automotive, medical, aerospace, defense, dental, bio-medical, jewelry, art, architecture, fashion design, and interior design among others. Along with these, the electronics, robotics, space crafts, construction, organ transplantations, food, and other industries have also started adopting the 3D printing technology. The 3D printing market is growing rapidly, and it is now focusing on the production of end parts with the development of the technologies and metal powdered materials. The market has been experiencing advancements in printers and printing technologies, improvements in materials used, and developments in skilled workforce.

3D PRINTING MARKET FOR THE EDUCATION SECTOR TO WITNESS A HIGH GROWTH RATE DURING THE FORECAST PERIOD

3D printing holds great potential in academics as it can engage a diverse population, including students, educators, and researchers, from various fields such as science, technology, engineering, and mathematics through limitless creativity in both, formal and informal processes. In addition, 3D printers are now adopted to develop 3D models in fields such as mathematics, geography, biology, history, arts, and tools.

APAC 3D PRINTING MARKET EXPECTED TO WITNESS THE FASTEST GROWTH DURING THE FORECAST PERIOD

Factors such as extensive industrial base and supportive government policies are driving the growth of the 3D printing market in APAC. APAC is the largest and fastest-growing market for industrial manufacturing, automotive, and consumer electronics, which provides new market opportunities for metal 3D printers. Prototyping is one the major applications which is expected to drive the market for 3D printing in APAC. Japan and China are the major contributors to this market.

The break-up of profile of primary participants is given below:

By Company Type: Tier 1 – 20%, Tier 2 – 55% and Tier 3 – 25%

By Designation: C-Level – 30%, Director Level – 55%, Others – 15%

By Region: North America – 40%, Europe – 35%, APAC – 15%, RoW – 10%

The major players in the 3D printing market include 3D Systems Corporation (U.S.), Stratasys Ltd. (U.S. & Israel), the ExOne Company(U.S.), Voxeljet AG (Germany), Arcam Group (Sweden), SLM Solutions Group AG (Germany), EOS GmbH (Germany), EnvisionTEC GmbH (Germany), Materialise NV (Belgium), Sciaky Inc. (U.S.), Concept Laser GmbH (Germany), Autodesk, Inc. (U.S.), Hoganas AB (Sweden), Renishaw PLC. (U.K.).

The report will help the market leaders/new entrants in this market in the following ways:

1. This report segments the 3D printing market comprehensively and provides the closest approximations of the overall market size and that of the subsegments across different verticals and regions.
2. The report would help stakeholders to understand the pulse of the market and provides them information on the key market drivers, restraints, challenges, and opportunities.
3. This report would help stakeholders to better understand their competitors and gain more insights to enhance their position in the business. The competitive landscape section includes competitor ecosystem, new product developments, partnerships, and mergers & acquisitions.

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About

After arriving at the overall 3D printing market size from the market size estimation process explained above, the global market is categorized into several segments and sub-segments, by various types of classifications such as technology, materials, application and geography. In order to finish with the overall market engineering process and reach the exact statistics for all the market segments & sub-segments, the data triangulation and market crackdown procedures explained below are implemented wherever applicable.

The following figure shows the market crackdown structure and the data triangulation procedure implemented in the 3D printing market engineering process while making this report.

The figure above shows the core data triangulation procedure used in this report for every market, sub-market, and sub- segment. The percentage splits of various major market segments were used to arrive at the market size of the overall 3D printing market. The estimated percentage shares of the sub- segments, listed in the geography market segmentation in this report, are used to calculate the market sizes of the respective individual sub-segment markets. Similar procedure was used for market classifications by technology, application, and 3D printing materials.

The exact reverse of the above procedure was also done to validate all the market sizes, that is, the "Bottom-Up" approach, from sub-segments such as "technology types", "application", " materials" and "geography" segments, was used to arrive at the overall 3D printing market; while the "Top-Down" approach was used to reach at the individual market segments from the overall market. . Thus, data was triangulated among the three major categories: market size by technology types, market size by application, and market size by geography.

The interconnection among the values deduced from technology types, application, materials, and geography segments is illustrated through the arrows in the figure above. Data was also triangulated among the revenue and calculated ASPs. Thus, validation of data was done by deriving data through several aspects of/from the respective market segments.

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