3D Printing Market Report by Technology (Stereolithography, Fused Deposition Modeling, Selective Laser Sintering, Electron Beam Melting, Digital Light Processing, and Others), Process (Binder Jetting, Directed Energy Deposition, Material Extrusion, Material Jetting, Powder Bed Fusion, Sheet Lamination, Vat Photopolymerization), Material (Photopolymers, Plastics, Metals and Ceramics, and Others), Offering (Printer, Material, Software, Service), Application (Prototyping, Tooling, Functional Part Manufacturing), End-User (Consumer Products, Machinery, Healthcare, Aerospace, Automobile, and Others), and Region 2025-2033

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Report description:

The global 3D printing market size reached USD 28.5 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 125.9 Billion by 2033, exhibiting a growth rate (CAGR) of 17.9% during 2025-2033. The growing use of 3D printing solutions in the education industry, favorable government initiatives, and technological advancements are driving the market growth. At present, North America holds the largest market share, owing to a surge in demand from the manufacturing industry.

Rising Demand in Education Industry Augmenting Market Growth

The rising 3D printing market demand in the education industry currently represents one of the primary drivers contributing to the

growth of the market. It offers enhanced quality of subjective illustrations and simplification of complicated concepts through interactive visualizations for easy learning among students. Additionally, various educational tools are designed through 3D technology, providing an improved understanding of subjects that requires more practical and experimental knowledge as compared to theoretical examples.

Competitive 3D printing market analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. The market structure is concentrated with few global players accounting for the majority of the market share in the industry. The volume of new entrants is moderate in the 3D printing industry due to the high entry and exit barriers. Additionally, product differentiation in the 3D printing market is high, as large international vendors differentiate their products in terms of designing, technological advancements, and better post-sales services.

What is 3D Printing?

Three-dimensional (3D) printing refers to a technology that comprises layer-by-layer addition of materials to build patterns, physical objects, and tooling components using a 3D digital model. It involves various technologies, such as fused deposition modeling (FDM), stereolithography (SLA), digital light processing (DLP), selective laser sintering (SLS), selective laser melting (SLM), laminated object manufacturing (LOM), and digital beam melting (EBM). It is flexible, cost-efficient, and time-saving while creating high-end 3D objects of any shape and size without the use of molds or machines. As a result, 3D printing is widely employed in the education, electronics, healthcare, automotive, and aerospace industries across the globe.

COVID-19 Impact:

The COVID-19 pandemic outbreak caused a severe problem for the 3D printing industry and imposed unprecedented challenges on numerous countries. It forced various manufacturers to temporarily shut down or close their production capacities due to the lockdown and stringent curfew norms. The social distancing rules and regulations severely hampered the 3D printing market, and manufacturers faced huge financial losses. Governing agencies of various countries imposed stringent rules on-road movement, which impacted the supply chain in the short term. In line with this, the COVID-19 pandemic affected imports and exports of goods and services due to cross-border restrictions. Thus, the 3D printing market witnessed a sharp decline on account of the reduced raw materials, labor shortage, and supply and demand chain disruptions. However, post-pandemic, the reopening of manufacturing units was observed, which is expected to boost the demand for the 3D printing market in the coming years.

3D Printing Market Trends:
Presently, the increasing utilization of 3D printing in the automotive industry to manufacture prototypes and various functional parts represents one of the major factors influencing the market positively. Besides this, the growing adoption of 3D printing in the healthcare industry to produce customized hearing aid shells, braces, and tooth implants is offering a favorable market outlook. In addition, the rising adoption of 3D printing in the education sector, as it assists in enhancing the quality of subjective illustrations and simplifies complicated concepts, is propelling the growth of the market. Apart from this, several benefits offered by 3D printing, such as flexibility, eco-friendliness, and rapid prototyping, are contributing to the growth of the market. Additionally, governing agencies of various countries are encouraging the adoption of 3D printing technology in numerous industries by offering various initiatives, which is strengthening the growth of the market. Furthermore, technological advancements in 3D printing to increase efficiency, reduce costs, and eliminate errors, are supporting the growth of the market.

3D Printing Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global 3D printing market report, along with forecasts at the global and regional level from 2025-2033. Our report has categorized the market based on technology, process, material, offering, application and end-user.

Technology Insights:

Stereolithography
Fused Deposition Modeling
Selective Laser Sintering
Electron Beam Melting
Digital Light Processing
Others

The report has provided a detailed breakup and analysis of the 3D printing market based on the technology. This includes stereolithography, fused deposition modeling, selective laser sintering, electron beam melting, digital light processing, and others.

Process Insights:

Binder Jetting
Directed Energy Deposition
Material Extrusion
Material Jetting
Powder Bed Fusion
Sheet Lamination
Vat Photopolymerization

A detailed breakup and analysis of the 3D printing market based on the process has also been provided in the report. This includes binder jetting, directed energy deposition, material extrusion, material jetting, powder bed fusion, sheet lamination, and vat photopolymerization. According to the report, binder jetting accounted for the largest market share as it does not employ heat in the manufacturing process. In addition to this, there is a rise in the demand for binder jetting in the construction and interior design industry to print large architectural objects.

Material Insights:

Photopolymers
Plastics
Metals and Ceramics
Others

A detailed breakup and analysis of the 3D printing market based on the material has also been provided in the report. This includes photopolymers, plastics, metals and ceramics, and others. According to the report, photopolymers accounted for the largest 3D printing market share on account of the increasing demand for various components of photopolymers, such as binders, monomers, and photo initiators. Moreover, the increasing utilization of liquid photopolymers in stereolithography 3D printing technology is strengthening the growth of the segment.

Offering Insights:

Printer
Material
Software

Service

A detailed breakup and analysis of the 3D printing market based on the offering has also been provided in the report. This includes printer, material, software, and service. According to the report, printers accounted for the largest market share, as they assist in enhancing overall speed and productivity.

Application Insights:

Prototyping
Tooling
Functional Part Manufacturing

A detailed breakup and analysis of the 3D printing market based on the application has also been provided in the report. This includes prototyping, tooling, and functional part manufacturing. According to the report, prototyping accounted for the largest market share on account of its rising adoption in various industries, such as automotive, aerospace, and defense. Moreover, there is an increase in the demand for prototyping, as it aids in achieving higher accuracy and develop higher end products.

End-User Insights:

Consumer Products
Machinery
Healthcare
Aerospace
Automobile
Others

A detailed breakup and analysis of the 3D printing market based on the end-user has also been provided in the report. This includes consumer products, machinery, healthcare, aerospace, automobile, and others. According to the report, consumer products accounted for the largest market share due to the increasing preferences for customized products among individuals across the globe. In addition, there is a rise in the demand for 3D printed electronic components and products, which is propelling the growth of the market.

Regional Insights:

Europe
North America
Asia Pacific
Middle East and Africa
Latin America

The report has also provided a comprehensive analysis of all the major regional markets, which include Europe, North America, Asia Pacific, the Middle East and Africa, and Latin America. According to the report, North America is the largest market for 3D printing. Some of the factors driving the North America 3D printing market include the growing adoption of 3D printing in various manufacturing process, various product launches, innovations, and developments, increasing mergers and acquisitions (M&As) among several key players, etc. In line with this, numerous technological advancements in the 3D printing industry is supporting the growth of the market in the region.

Competitive Landscape:
The report has also provided a comprehensive analysis of the competitive landscape in the global 3D printing market. Some of the companies covered in the report include:

3D Systems Inc.
Beijing Tiertime Technology Corporation Limited
EOS GmbH
The ExOne Company (Desktop Metal Inc.)
General Electric Company
Hewlett Packard Enterprise Company
Materialise NV
Optomec Inc.
Proto Labs Inc.
Renishaw Plc
SLM Solutions Group AG
Stratasys Limited
Ultimaker B.V.
Voxeljet AG
XYZprinting Inc.

Key Questions Answered in This Report

1. What was the global 3D printing market size in 2024?
2. What will be the global 3D printing market outlook during the forecast period (2025-2033)?
3. What are the global 3D printing market drivers?
4. What are the major trends in the global 3D printing market?
5. What is the impact of COVID-19 on the global 3D printing market?
6. What is the global 3D printing market breakup by technology?
7. What is the global 3D printing market breakup by process?
8. What is the global 3D printing market breakup by material?
9. What is the global 3D printing market breakup by offering?
10. What is the global 3D printing market breakup by application?
11. What is the global 3D printing market breakup by end user?
12. What are the major regions in the global 3D printing market?

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