

3D Printing Market by Offering (Printers, Materials, Software, Services), Technology [Fused Deposition Modeling (FDM), Stereolithography (SLA), Selective Laser Sintering (SLS)], Process, Application, Vertical - Global Forecast to 2030

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Report description:

The 3D printing market is expected to be worth USD 16.16 billion in 2025 and is estimated to reach USD 35.79 billion by 2030, growing at a CAGR of 17.2%. The growth of the 3D printing market is driven by its ability to produce complex, customized parts with high precision and efficiency, which is particularly beneficial in industries like aerospace and healthcare. Advancements in 3D printing materials have further enhanced their applications, enabling lightweight and structurally optimized components. Additionally, the technology's emergence in new verticals such as automotive, printed electronics, jewelry, and education is expanding its market reach and accelerating adoption across diverse sectors.

"Fused deposition modeling (FDM) technology is projected to lead the 3D printing market."

Fused deposition modeling (FDM) holds a significant market share in the 3D printing sector due to its versatility, cost-effectiveness, and ease of use. It is widely adopted across industries for prototyping, functional parts, and low-volume manufacturing. FDM technology constructs parts layer-by-layer using thermoplastic filaments, offering reliable output, material strength, and compatibility with various engineering-grade materials. For instance, Airbus, Boeing, and the US Department of Defense use FDM for lightweight parts in aerospace applications, where precision and performance are critical. In November 2023, Stratasys showcased its latest FDM 3D printer at the Formnext conference in Frankfurt, Germany, highlighting its faster print speeds, better uptime, and reduced costs. FDM's accessibility also contributes to its popularity in education and small businesses. The technology supports rapid iteration, making it ideal for product design, customized tools, and functional prototyping. Additionally, FDM supports materials with specialized properties like toughness, UV resistance, biocompatibility, and electrostatic dissipation, enabling use in sectors like automotive, electronics, and healthcare. Its ability to reduce product cycle time and accelerate innovation is crucial. For example, automotive companies use FDM for jigs, fixtures, and under-the-hood components,

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saving time and cost compared to traditional tooling. These instances demonstrate how FDM meets performance, affordability, and application demands, ensuring its continued market leadership.

"Asia Pacific is estimated to witness the highest CAGR during the forecast period."

The 3D printing market in Asia Pacific is projected to grow at the highest CAGR during the forecast period, with Japan and China being the major contributors. The market in India is expected to grow at the highest CAGR as it has huge potential in 3D printing applications. The establishment of the centers for 3D printing research, training, and education, and the efforts by leading players, such as Stratasys (US), 3D Systems (US), EOS GmbH (Germany), ExOne (US), Desktop Metal (US), to expand their distribution networks to the emerging markets in the Asian countries, are expected to drive the market in Asia Pacific. Government support for 3D printing technology and the demand for 3D-printed products and printers for rapid prototyping are a few other driving factors of the 3D printing market in this region. XYZprinting (Taiwan), Beijing Tiertime Technology (China), and Shenzhen Hueway Technology (China), among others, are several leading 3D printing companies operating in Asia Pacific. As technology advances and competition increases, the cost of 3D printing will decrease, further boosting market growth. The region's proactive policies and investments in research and development attract renowned companies to establish their operations, particularly in countries like China, South Korea, and Japan, highlighting the immense potential of the Asia Pacific 3D printing market in the foreseeable future.

Extensive primary interviews were conducted with key industry experts in the 3D printing market space to determine and verify the market size for various segments and subsegments gathered through secondary research. The breakdown of primary participants for the report is shown below:

The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

-□By Company Type: Tier 1 - 35%, Tier 2 - 40%, and Tier 3 - 25%

-□By Designation: Managers - 30%, Directors - 40%, and Others - 30%

-□By Region: North America - 40%, Europe - 25%, Asia Pacific - 30%, and RoW - 5%

The report profiles key players in the 3D printing market with their respective market ranking analysis. Prominent players profiled in this report are Stratasys (US), EOS GmbH (Germany), HP Development Company, L.P. (US), 3D Systems, Inc. (US), General Electric Company (US), Materialise (Belgium), Nano Dimension (US), voxeljet AG (Germany), SLM Solutions (Germany), Renishaw plc. (UK), among others.

Apart from this, Proto Labs, Inc. (US), Optomec, Inc. (US), Prodways Group (France), UltiMaker (Netherlands), Beijing Tiertime Technology (China), XYZprinting (Taiwan), Hogan AB (Sweden), UnionTech (China), Nexa3D (US), TRUMPF (Germany), Formlabs (US), Shapeways (US), Carbon, Inc. (US), NanoVoxel (North Carolina), Rapid Shape GmbH (Germany) are among a few emerging companies in the 3D printing market.

Research Coverage:

This research report categorizes the 3D printing market based on offering, technology, process, application, vertical, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the 3D printing market and forecasts the same till 2030. Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the 3D printing ecosystem.

Key Benefits of Buying the Report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall 3D printing market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

-□Analysis of key drivers (Ease in manufacturing of customized products, Reduction in manufacturing costs and process downtime,

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and Increasing government-led investments in 3D printing projects) influencing the growth of the 3D printing market

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the 3D printing market

-□Market Development: Comprehensive information about lucrative markets-the report analyzes the 3D printing market across varied regions

-□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the 3D printing market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading Stratasys (US), EOS GmbH (Germany), HP Development Company, L.P. (US), 3D Systems, Inc. (US), General Electric Company (US), among others in the 3D printing market

Table of Contents:

1	INTRODUCTION	28
1.1	STUDY OBJECTIVES	28
1.2	MARKET DEFINITION	28
1.3	STUDY SCOPE	29
1.3.1	MARKETS COVERED	29
1.3.2	INCLUSIONS AND EXCLUSIONS	30
1.3.3	YEARS CONSIDERED	31
1.4	CURRENCY CONSIDERED	31
1.5	LIMITATIONS	32
1.6	STAKEHOLDERS	32
1.7	SUMMARY OF CHANGES	33
2	RESEARCH METHODOLOGY	34
2.1	RESEARCH DATA	34
2.1.1	SECONDARY AND PRIMARY RESEARCH	36
2.1.2	SECONDARY DATA	36
2.1.2.1	Key secondary sources	37
2.1.2.2	Key data from secondary sources	38
2.1.3	PRIMARY DATA	38
2.1.3.1	Primary interviews with experts	38
2.1.3.2	Breakdown of primaries	39
2.1.3.3	Key data from primary sources	39
2.1.3.4	Key industry insights	41
2.2	MARKET SIZE ESTIMATION	41
2.2.1	TOP-DOWN APPROACH	42
2.2.1.1	Approach to derive market size using top-down analysis (supply side)	42
2.2.2	BOTTOM-UP APPROACH	44
2.2.2.1	Approach to derive market size using bottom-up analysis (demand side)	44
2.3	DATA TRIANGULATION	46
2.4	RESEARCH ASSUMPTIONS	47
2.5	RISK ASSESSMENT	47
2.6	RESEARCH LIMITATIONS	48
3	EXECUTIVE SUMMARY	49
?		

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4	PREMIUM INSIGHTS	55
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN 3D PRINTING MARKET	55
4.2	3D PRINTING MARKET, BY OFFERING	55
4.3	3D PRINTING MARKET, BY TECHNOLOGY	56
4.4	3D PRINTING MARKET, BY PROCESS	56
4.5	3D PRINTING MARKET, BY APPLICATION	57
4.6	3D PRINTING MARKET, BY VERTICAL	57
4.7	3D PRINTING MARKET, BY COUNTRY	58
5	MARKET OVERVIEW	59
5.1	INTRODUCTION	59
5.2	EVOLUTION OF 3D PRINTING	59
5.2.1	IMPACT OF 3D PRINTING, BY VERTICAL	60
5.3	MARKET DYNAMICS	62
5.3.1	DRIVERS	62
5.3.1.1	Ease in manufacturing of customized products	62
5.3.1.2	Reduction in manufacturing costs and process downtime	63
5.3.1.3	Increasing government-led investments in 3D printing projects	64
5.3.1.4	Availability of various industrial-grade 3D printing materials	66
5.3.1.5	High demand for lightweight yet durable parts in aerospace & defense vertical	67
5.3.2	RESTRAINTS	68
5.3.2.1	Lack of standardized testing methods to verify mechanical properties of 3D printing materials and high raw material costs	68
5.3.2.2	Inadequate design and process control data due to lack of printing material specifications	69
5.3.3	OPPORTUNITIES	70
5.3.3.1	Increasing demand for medical products and supplies in post-pandemic scenario	70
5.3.3.2	Rapid advancements in printing technologies and materials and development of knowledge and skill progression frameworks	71
5.3.3.3	Emerging applications of 3D printing technology in automotive, printed electronics, jewelry, and education verticals	72
5.3.3.4	Advancements in 3D printing materials	74
5.3.4	CHALLENGES	75
5.3.4.1	Ensuring consistent quality of final 3D-printed products with repeatable and stable production processes	75
5.3.4.2	Threat of copyright infringement	76
5.3.4.3	Decline in sales of 3D printing devices attributed to recession	76
5.4	TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	77
5.5	PRICING ANALYSIS	78
5.5.1	AVERAGE SELLING PRICE (ASP) OF 3D PRINTERS OFFERED BY KEY PLAYERS, BY TYPE	79
5.5.2	AVERAGE SELLING PRICE (ASP) TREND OF 3D PRINTERS, BY REGION	80
5.6	VALUE CHAIN ANALYSIS	82
5.6.1	RESEARCH AND DEVELOPMENT ENGINEERS	82
5.6.2	MATERIAL AND SOFTWARE PROVIDERS	82
5.6.3	MANUFACTURERS	83
5.6.4	SERVICE PROVIDERS	83
5.6.5	END-USER INDUSTRIES	83
5.6.6	AFTER-SALES SERVICE PROVIDERS	83
5.7	ECOSYSTEM ANALYSIS	84
5.7.1	MATERIAL SUPPLIERS	84
5.7.1.1	Polymer providers	84

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5.7.1.2	Metal providers	84
5.7.2	SOFTWARE PROVIDERS	84
5.7.3	PRINTER PROVIDERS	85
5.7.3.1	Industrial 3D printer providers	85
5.7.3.2	Desktop 3D printer providers	85
5.7.4	SERVICE PROVIDERS	85
5.8	INVESTMENT AND FUNDING SCENARIO	86
5.9	TECHNOLOGY ANALYSIS	87
5.9.1	KEY TECHNOLOGY	88
5.9.1.1	Hybrid manufacturing	88
5.9.1.2	MELD process	88
5.9.2	COMPLEMENTARY TECHNOLOGY	89
5.9.2.1	3D bioprinting and tissue engineering	89
5.9.2.2	IoT integration and connectivity	89
5.9.3	ADJACENT TECHNOLOGY	90
5.9.3.1	Computer numerical control (CNC) machining	90
5.9.3.2	Injection molding	91
5.10	PATENT ANALYSIS	92
5.10.1	LIST OF PATENTS	92
5.11	TRADE ANALYSIS	97
5.11.1	IMPORT SCENARIO	98
5.11.2	EXPORT SCENARIO	99
5.12	KEY CONFERENCES AND EVENTS	100
5.13	CASE STUDY ANALYSIS	101
5.13.1	SWINBURNE UNIVERSITY COLLABORATED WITH RENISHAW TO ENHANCE ELECTRIC CARS' PERFORMANCE IN COMPETITION AGAINST PETROL-POWERED VEHICLES	101
5.13.2	LINEX CORPORATION ENHANCED INSPECTION PRECISION USING RENISHAW'S CUSTOM ADDITIVE MANUFACTURED STYLUS	102
5.13.3	PROTOLABS' DMLS SERVICE HELPED ALEX DEGNESS ADDRESS TWO-STROKE ENGINE SPEED RECORD CHALLENGE	102
5.13.4	PEPSICO ACHIEVED RAPID TOOLING DEVELOPMENT, DURABILITY, AND COST REDUCTION USING NXE 400 3D PRINTER	103
5.13.5	LALALAND PRODUCTION AND DESIGN REVOLUTIONIZED FOOTWEAR MANUFACTURING USING NEXA3D'S SLS PRINTER	103
5.14	REGULATORY LANDSCAPE AND STANDARDS	104
5.14.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	104
5.14.2	STANDARDS RELATED TO 3D PRINTING	107
5.15	PORTER'S FIVE FORCES ANALYSIS	109
5.15.1	THREAT OF NEW ENTRANTS	110
5.15.2	THREAT OF SUBSTITUTES	110
5.15.3	BARGAINING POWER OF SUPPLIERS	111
5.15.4	BARGAINING POWER OF BUYERS	111
5.15.5	INTENSITY OF COMPETITIVE RIVALRY	111
5.16	KEY STAKEHOLDERS AND BUYING CRITERIA	111
5.16.1	KEY STAKEHOLDERS IN BUYING PROCESS	111
5.16.2	BUYING CRITERIA	112
5.17	2025 TARIFF IMPACT ANALYSIS	113
5.18	KEY TARIFF RATES	113
5.19	KEY IMPACTS ON VARIOUS REGIONS	114
5.19.1	US	114

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5.19.2	EUROPE	115
5.19.3	ASIA PACIFIC	115
5.20	IMPACT ON VERTICAL	116
5.20.1	AUTOMOTIVE	116
5.20.2	AEROSPACE & DEFENSE	116
5.20.3	HEALTHCARE	116
5.20.4	ARCHITECTURE & CONSTRUCTION	117
5.20.5	CONSUMER GOODS	117
5.20.6	EDUCATION	117
5.20.7	INDUSTRIAL	117
5.20.8	ENERGY	117
5.20.9	PRINTED ELECTRONICS	117
5.20.10	JEWELRY	117
5.20.11	FOOD & CULINARY	117
5.20.12	OTHER VERTICALS:	118
5.21	IMPACT OF AI ON 3D PRINTING MARKET	118
5.22	CASE STUDY: AI-DRIVEN DEFECT DETECTION IN 3D PRINTING	118
5.23	APPLICATIONS: PROTOTYPING, TOOLING, AND FUNCTIONAL PART MANUFACTURING	118
5.24	END-USER INDUSTRIES: AUTOMOTIVE, AEROSPACE & DEFENSE, CONSTRUCTION, AND CULINARY	119
6	3D PRINTING MARKET, BY OFFERING	120
6.1	INTRODUCTION	121
6.2	PRINTERS	122
6.2.1	DESKTOP PRINTERS	126
6.2.1.1	Growth in use of desktop printers in schools and universities to drive market	126
6.2.2	INDUSTRIAL PRINTERS	127
6.2.2.1	Demand for generating concept models, precision and functional prototypes, and mastering patterns and molds to drive market	127
6.3	MATERIALS	129
6.3.1	PLASTICS	133
6.3.1.1	Rise in use to create functional prototypes and end-use parts in various verticals to drive demand	133
6.3.1.2	Thermoplastics	134
6.3.1.2.1	Versatility of thermoplastics in 3D printing to fuel demand	134
6.3.1.2.2	Acrylonitrile butadiene styrene (ABS)	135
6.3.1.2.3	Polylactic acid (PLA)	135
6.3.1.2.4	Nylon	136
6.3.1.2.5	Other thermoplastics	137
6.3.1.2.5.1	Polypropylene	137
6.3.1.2.5.2	Polycarbonate	138
6.3.1.2.5.3	Polyvinyl alcohol (PVA)	139
6.3.1.3	Photopolymers	139
6.3.1.3.1	Rise in use of photopolymers in electronics, healthcare, packaging, sports and leisure, automotive, military, and consumer goods verticals to fuel market	139
6.3.2	METALS	140
6.3.2.1	Steel	141
6.3.2.1.1	Capability of stainless steel to strengthen 3D-printed models to drive demand	141
6.3.2.2	Aluminum	142

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- 6.3.2.2.1 Rise in adoption of alumide to build complex models, small series of models, and functional models to propel market 142
- 6.3.2.3 Titanium 142
- 6.3.2.3.1 Growing use of titanium powder to make models strong and precise to foster market growth 142
- 6.3.2.4 Nickel 143
- 6.3.2.4.1 Increase in demand for metal alloys in aerospace & defense to manufacture rocket parts, gas turbine blades, filtration and separation units, and heat exchangers to drive market 143
- 6.3.2.5 Other metals 143
- 6.3.3 CERAMICS 144
- 6.3.3.1 Growth in adoption of ceramics in printing home decor and tableware products to drive demand 144
- 6.3.4 OTHER MATERIALS 145
- 6.3.4.1 Wax 146
- 6.3.4.2 Laywood 146
- 6.3.4.3 Paper 146
- 6.3.4.4 Biocompatible materials 147
- 6.3.5 3D PRINTING MARKET FOR MATERIALS, BY FORM 147
- 6.3.5.1 Filament 147
- 6.3.5.1.1 Availability of general plastics in filament form for 3D printing applications to drive demand 147
- 6.3.5.2 Powder 148
- 6.3.5.2.1 Use of metal powders in aerospace & defense and jewelry and fashion design verticals to propel market 148
- 6.3.5.3 Liquid 148
- 6.3.5.3.1 Diversity of liquid materials in 3D printing technology used in various verticals to drive market 148
- 6.4 SOFTWARE 149
- 6.4.1 ABILITY TO MANIPULATE 3D MODELS ACCORDING TO REAL-WORLD ENVIRONMENTS BEFORE PRINTING TO DRIVE DEMAND 149
- 6.4.2 DESIGN 152
- 6.4.2.1 Increase in installation of design software to create drawings of parts and assemblies to fuel market 152
- 6.4.3 INSPECTION 152
- 6.4.3.1 Development of inspection software to ensure compliance of prototypes with required specifications to fuel market growth 152
- 6.4.4 PRINTING 153
- 6.4.4.1 Use of printing software to analyze precision in printer functioning to drive market 153
- 6.4.5 SCANNING 153
- 6.4.5.1 Implementation of scanning software to create digital models and improve designs of physical objects to fuel market growth 153
- 6.5 SERVICES 154
- 6.5.1 CUSTOMIZATION AND ON-DEMAND MANUFACTURING IN 3D PRINTING TO DRIVE DEMAND 154
- 7 3D PRINTING MARKET, BY TECHNOLOGY 158
- 7.1 INTRODUCTION 159
- 7.2 FUSED DEPOSITION MODELING (FDM) 161
- 7.2.1 HIGH USE IN AEROSPACE & DEFENSE VERTICAL TO DRIVE MARKET 161
- 7.3 STEREO LITHOGRAPHY (SLA) 162
- 7.3.1 ABILITY TO DIRECTLY PRINT SOFT ANATOMICAL, CONCEPT, AND ARCHITECTURAL MODELS TO DRIVE DEMAND 162
- 7.4 SELECTIVE LASER SINTERING (SLS) 163
- 7.4.1 RISE IN ADOPTION TO DEVELOP PARTS WITH JOINTS, SNAP FITS, AND LIVING HINGES TO FUEL MARKET 163
- ?
- 7.5 POLYJET PRINTING/MULTIJET PRINTING (MJP) 164
- 7.5.1 INCREASED ADOPTION TO DEVELOP HIGHLY ACCURATE MODELS WITH INTRICATE DETAILS AND COMPLEX GEOMETRIES TO

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- FUEL MARKET GROWTH 164
- 7.6 ELECTRON BEAM MELTING (EBM) 164
 - 7.6.1 HIGH DEMAND IN AEROSPACE & DEFENSE AND AUTOMOTIVE VERTICALS FOR PRODUCING HIGH-DENSITY PARTS TO DRIVE MARKET 164
- 7.7 DIGITAL LIGHT PROCESSING (DLP) 165
 - 7.7.1 POTENTIAL TO DEVELOP PRECISE PARTS WITH SMOOTH SURFACE FINISHING TO DRIVE DEMAND 165
- 7.8 DIRECT METAL LASER SINTERING (DMLS) 166
 - 7.8.1 INCREASING USE TO DEVELOP DURABLE AND HEAT-RESISTANT COMPONENTS TO DRIVE MARKET 166
- 7.9 OTHER TECHNOLOGIES 166
- 8 3D PRINTING MARKET, BY PROCESS 169
 - 8.1 INTRODUCTION 170
 - 8.2 POWDER BED FUSION (PBF) 173
 - 8.2.1 INCREASING APPLICATIONS ACROSS VARIOUS VERTICALS TO DRIVE MARKET 173
 - 8.3 VAT PHOTOPOLYMERIZATION 173
 - 8.3.1 ADVANCEMENTS IN VAT PHOTOPOLYMERIZATION PROCESS FOR HIGH-PERFORMANCE 3D PRINTING APPLICATIONS TO DRIVE DEMAND 173
 - 8.4 BINDER JETTING 174
 - 8.4.1 COMPATIBILITY WITH VARIOUS MATERIALS, HIGH PRODUCTION SPEED, AND ABILITY TO PRODUCE PARTS WITH COMPLEX INTERNAL GEOMETRIES WITHOUT SUPPORT STRUCTURES TO DRIVE DEMAND 174
 - 8.5 MATERIAL EXTRUSION 174
 - 8.5.1 SIMPLE PRINTING TECHNIQUE TO FUEL DEMAND 174
 - 8.6 MATERIAL JETTING 175
 - 8.6.1 RISING ADOPTION TO REDUCE MATERIAL WASTAGE TO DRIVE MARKET 175
 - 8.7 OTHER PROCESSES 175
- 9 3D PRINTING MARKET, BY APPLICATION 177
 - 9.1 INTRODUCTION 178
 - 9.2 PROTOTYPING 179
 - 9.2.1 REDUCTION IN MATERIAL WASTAGE AND OPERATIONAL COSTS USING 3D PRINTING IN MANUFACTURING PROTOTYPE MODELS TO DRIVE DEMAND 179
 - 9.3 TOOLING 181
 - 9.3.1 GROWING USE OF 3D PRINTING IN MANUFACTURING COMPLEX COMPONENTS AND TOOLS ON LARGE SCALE TO DRIVE MARKET 181
 - 9.4 FUNCTIONAL PART MANUFACTURING 183
 - 9.4.1 ADVANCEMENTS IN PRINTING TECHNOLOGY FOR HIGH-VOLUME PRODUCTION OF MECHANICALLY FUNCTIONAL PARTS TO DRIVE MARKET 183
- ?
- 10 3D PRINTING MARKET, BY VERTICAL 186
 - 10.1 INTRODUCTION 187
 - 10.2 AUTOMOTIVE 190
 - 10.2.1 ADOPTION OF ADDITIVE MANUFACTURING FOR PROTOTYPING PROJECTS TO FUEL MARKET GROWTH 190
 - 10.3 AEROSPACE & DEFENSE 193
 - 10.3.1 INCREASED INVESTMENTS BY ESTABLISHED PLAYERS IN DEVELOPMENT OF 3D-PRINTED MODELS FOR NEW APPLICATIONS 193
 - 10.4 HEALTHCARE 196
 - 10.4.1 RAPID ADVANCEMENTS IN 3D PRINTING TECHNOLOGY FOR MEDICAL DEVICES, DENTISTRY, AND PROSTHETICS APPLICATIONS TO DRIVE MARKET 196
 - 10.5 ARCHITECTURE & CONSTRUCTION 199

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- 10.5.1 RISE IN USE TO UNDERSTAND ABSTRACT CONCEPTS TO FUEL MARKET GROWTH 199
- 10.6 CONSUMER GOODS 202
- 10.6.1 GROWTH IN USE OF DESKTOP OR PERSONAL PRINTERS BY HOBBYISTS, ENTREPRENEURS, AND SMALL BUSINESSES TO FUEL MARKET GROWTH 202
- 10.7 EDUCATION 205
- 10.7.1 ENHANCEMENT OF LEARNING AND ENGAGEMENT ACROSS VARIOUS SUBJECTS USING 3D PRINTING TO DRIVE DEMAND 205
- 10.8 INDUSTRIAL 208
- 10.8.1 INCREASING APPLICATIONS OF ADDITIVE MANUFACTURING IN TOOLING, SPECIAL MACHINERY MANUFACTURING, AND ROBOTICS TO DRIVE MARKET 208
- 10.9 ENERGY 211
- 10.9.1 RISING USE OF 3D PRINTING TECHNOLOGY IN SMALL-SCALE MANUFACTURING AND REPAIR ACTIVITIES TO FUEL MARKET GROWTH 211
- 10.10 PRINTED ELECTRONICS 214
- 10.10.1 RISING ADOPTION OF 3D PRINTING TECHNOLOGY TO PRINT ELECTRONIC DEVICES TO DRIVE MARKET 214
- 10.11 JEWELRY 217
- 10.11.1 RISE IN ADOPTION OF 3D PRINTING TECHNOLOGY TO DESIGN CUSTOMIZED JEWELRY WITH PRECISION AND SPEED TO FUEL MARKET GROWTH 217
- 10.12 FOOD & CULINARY 220
- 10.12.1 EMERGING TREND OF 3D FOOD PRINTING TO DRIVE MARKET 220
- 10.13 OTHER VERTICALS 222
- 11 3D PRINTING MARKET, BY REGION 225
- 11.1 INTRODUCTION 226
- 11.2 NORTH AMERICA 228
- 11.2.1 MACROECONOMIC OUTLOOK FOR NORTH AMERICA 228
- 11.2.2 US 232
- 11.2.2.1 Government-led initiatives to foster innovation and boost adoption of 3D printing technology to accelerate market growth 232
- 11.2.3 CANADA 233
- 11.2.3.1 Expanding automotive and healthcare verticals to fuel market growth 233
- 11.2.4 MEXICO 234
- 11.2.4.1 Focus of companies and universities to increase awareness about benefits of 3D printing technology to drive market 234
- 11.3 EUROPE 235
- 11.3.1 MACROECONOMIC OUTLOOK FOR EUROPE 235
- 11.3.2 UK 240
- 11.3.2.1 Government-led funding for research initiatives aimed at improving efficiency, reliability, and scalability of 3D printing processes to drive market 240
- 11.3.3 GERMANY 241
- 11.3.3.1 Increase in demand for 3D printing technology from automobile companies to propel market 241
- 11.3.4 FRANCE 242
- 11.3.4.1 Growing use of 3D printing technology in implant and prosthetic manufacturing to drive market 242
- 11.3.5 ITALY 242
- 11.3.5.1 Continuous product launches by leading 3D printer manufacturing companies to drive market 242
- 11.3.6 SPAIN 243
- 11.3.6.1 Focus of private companies on investing in 3D printing-related innovations to expedite market growth 243
- 11.3.7 REST OF EUROPE 244
- 11.4 ASIA PACIFIC 246
- 11.4.1 MACROECONOMIC OUTLOOK FOR ASIA PACIFIC 246

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- 11.4.2 JAPAN 251
 - 11.4.2.1 Increasing construction activities to accelerate demand 251
 - 11.4.3 CHINA 252
 - 11.4.3.1 Focus of global market players on strengthening footprints in China to drive market 252
 - 11.4.4 INDIA 253
 - 11.4.4.1 Large presence of 3D printing companies to boost market growth 253
 - 11.4.5 SOUTH KOREA 254
 - 11.4.5.1 Increasing applications of 3D printing in construction vertical to drive market 254
 - 11.4.6 REST OF ASIA PACIFIC 255
 - 11.5 REST OF THE WORLD (ROW) 256
 - 11.5.1 MACROECONOMIC OUTLOOK IN ROW 256
 - 11.5.2 SOUTH AMERICA 260
 - 11.5.2.1 Growing adoption of 3D printing technology in construction activities and spare part manufacturing to drive market 260
 - 11.5.3 AFRICA 261
 - 11.5.3.1 Increasing innovations in construction and education verticals using 3D printing technology to fuel demand 261
 - ?
 - 11.5.4 MIDDLE EAST 262
 - 11.5.4.1 Rising advancements and investments in 3D printing technology to fuel market growth 262
 - 11.5.4.2 GCC 263
 - 11.5.4.2.1 UAE and Saudi Arabia to be important markets in GCC 263
 - 11.5.4.3 Rest of Middle East 264
 - 12 COMPETITIVE LANDSCAPE 265
 - 12.1 OVERVIEW 265
 - 12.2 STRATEGIES ADOPTED BY KEY PLAYERS 265
 - 12.3 REVENUE ANALYSIS, 2022-2024 267
 - 12.4 MARKET SHARE ANALYSIS, 2024 267
 - 12.5 VALUATION AND FINANCIAL METRICS, 2024 270
 - 12.6 BRAND/PRODUCT COMPARISON 271
 - 12.7 COMPANY EVALUATION MATRIX FOR 3D PRINTERS: KEY PLAYERS, 2024 272
 - 12.7.1 STARS 272
 - 12.7.2 EMERGING LEADERS 272
 - 12.7.3 PERVASIVE PLAYERS 272
 - 12.7.4 PARTICIPANTS 272
 - 12.7.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024 274
 - 12.7.5.1 Overall footprint 274
 - 12.7.5.2 Offering footprint 275
 - 12.7.5.3 Application footprint 275
 - 12.7.5.4 Vertical footprint 276
 - 12.7.5.5 Regional footprint 276
 - 12.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024 277
 - 12.8.1 PROGRESSIVE COMPANIES 277
 - 12.8.2 RESPONSIVE COMPANIES 277
 - 12.8.3 DYNAMIC COMPANIES 277
 - 12.8.4 STARTING BLOCKS 277
 - 12.8.5 COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES, 2024 279
 - 12.8.5.1 Detailed list of key startups/SMEs 279
 - 12.8.5.2 Competitive benchmarking of key startups/SMEs 280

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12.9	COMPETITIVE SCENARIOS AND TRENDS	282
12.9.1	PRODUCT LAUNCHES	282
12.9.2	DEALS	283
	?	
13	COMPANY PROFILES	285
13.1	KEY PLAYERS	285
13.1.1	STRATASYS	285
13.1.1.1	Business overview	285
13.1.1.2	Products/Solutions/Services offered	286
13.1.1.3	Recent developments	289
13.1.1.3.1	Product launches/developments	289
13.1.1.3.2	Deals	291
13.1.1.3.3	Other developments	295
13.1.1.4	MnM view	295
13.1.1.4.1	Key strengths/Right to win	295
13.1.1.4.2	Strategic choices	295
13.1.1.4.3	Weaknesses/Competitive threats	296
13.1.2	EOS GMBH	297
13.1.2.1	Business overview	297
13.1.2.2	Products/Solutions/Services offered	298
13.1.2.3	Recent developments	299
13.1.2.3.1	Product launches/developments	299
13.1.2.3.2	Deals	300
13.1.2.3.3	Expansions	302
13.1.2.4	MnM view	303
13.1.2.4.1	Key strengths/Right to win	303
13.1.2.4.2	Strategic choices	303
13.1.2.4.3	Weaknesses/Competitive threats	303
13.1.3	HP DEVELOPMENT COMPANY, L.P.	304
13.1.3.1	Business overview	304
13.1.3.2	Products/Solutions/Services offered	305
13.1.3.3	Recent developments	309
13.1.3.3.1	Product launches	309
13.1.3.3.2	Deals	310
13.1.3.3.3	Other developments	312
13.1.3.4	MnM view	312
13.1.3.4.1	Key strengths/Right to win	312
13.1.3.4.2	Strategic choices	313
13.1.3.4.3	Weaknesses/Competitive threats	313
13.1.4	3D SYSTEMS, INC.	314
13.1.4.1	Business overview	314
13.1.4.2	Products/Solutions/Services offered	315
13.1.4.3	Recent developments	318
13.1.4.3.1	Product launches	318
13.1.4.3.2	Deals	319
13.1.4.3.3	Other developments	323
13.1.4.4	MnM view	324

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13.1.4.4.1	Key strengths/Right to win	324
13.1.4.4.2	Strategic choices	324
13.1.4.4.3	Weaknesses/Competitive threats	324
13.1.5	GENERAL ELECTRIC COMPANY	325
13.1.5.1	Business overview	325
13.1.5.2	Products/Solutions/Services offered	326
13.1.5.3	Recent developments	328
13.1.5.3.1	Product launches	328
13.1.5.3.2	Deals	329
13.1.5.3.3	Other developments	330
13.1.5.4	MnM view	330
13.1.5.4.1	Key strengths/Right to win	330
13.1.5.4.2	Strategic choices	330
13.1.5.4.3	Weaknesses/Competitive threats	331
13.1.6	MATERIALISE	332
13.1.6.1	Business overview	332
13.1.6.2	Products/Solutions/Services offered	333
13.1.6.3	Recent developments	335
13.1.6.3.1	Product launches	335
13.1.6.3.2	Deals	336
13.1.6.3.3	Expansions	339
13.1.7	NANO DIMENSION	340
13.1.7.1	Business overview	340
13.1.7.2	Products/Solutions/Services offered	340
13.1.7.3	Recent developments	341
13.1.7.3.1	Product launches	341
13.1.7.3.2	Deals	341
13.1.8	VOXELJET AG	342
13.1.8.1	Business overview	342
13.1.8.2	Products/Solutions/Services offered	344
13.1.8.3	Recent developments	345
13.1.8.3.1	Product launches	345
13.1.8.3.2	Deals	346
13.1.8.3.3	Other developments	347
13.1.9	SLM SOLUTIONS (ACQUIRED BY NIKON INDIA PVT LTD)	348
13.1.9.1	Business overview	348
13.1.9.2	Products/Solutions/Services offered	348
13.1.9.3	Recent developments	350
13.1.9.3.1	Product launches	350
13.1.9.3.2	Deals	350
?		
13.1.10	RENISHAW PLC.	352
13.1.10.1	Business overview	352
13.1.10.2	Products/Solutions/Services offered	354
13.1.10.3	Recent developments	355
13.1.10.3.1	Deals	355
13.2	OTHER PLAYERS	356

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13.2.1	PROTO LABS, INC.	356
13.2.2	OPTOMECH, INC.	357
13.2.3	PRODWAYS GROUP	358
13.2.4	ULTIMAKER	359
13.2.5	TIERTIME	360
13.2.6	XYZPRINTING	361
13.2.7	HOGANAS AB	362
13.2.8	UNIONTECH	363
13.2.9	NEXA3D	364
13.2.10	TRUMPF	365
13.2.11	FORMLABS	366
13.2.12	SHAPEWAYS	367
13.2.13	CARBON, INC.	368
13.2.14	NANOVOXEL	369
13.2.15	RAPID SHAPE GMBH	370
14	APPENDIX	371
14.1	DISCUSSION GUIDE	371
14.2	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	376
14.3	CUSTOMIZATION OPTIONS	378
14.4	RELATED REPORTS	378
14.5	AUTHOR DETAILS	379

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