

3D Printed Surgical Models Market Size, Trends, Analysis, and Outlook By Specialty (Cardiac Surgery/Interventional Cardiology, Gastroenterology Endoscopy of Esophageal, Orthopedic Surgery, Surgical oncology, Transplant Surgery), By Technology (Stereolithography (SLA), ColorJet Printing (CJP), MultiJet/PolyJet Printing, Fused Deposition Modeling (FDM), Others), By Material (Metal, Polymer, Plastic, Others), by Region, Country, Segment, and Companies, 2024-2030

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Abstracts

The global 3D Printed Surgical Models market size is poised to register 12.19% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global 3D Printed Surgical Models market across By Specialty (Cardiac Surgery/Interventional Cardiology, Gastroenterology Endoscopy of Esophageal, Orthopedic Surgery, Surgical oncology, Transplant Surgery), By Technology (Stereolithography (SLA), ColorJet Printing (CJP), MultiJet/PolyJet Printing, Fused Deposition Modeling (FDM), Others), By Material (Metal, Polymer, Plastic, Others).

The 3D printed surgical models market is witnessing substantial growth driven by the increasing adoption of patient-specific anatomical models for surgical planning and training, rising demand for procedural simulation and rehearsal, and advancements in imaging and printing technologies. In 2024 and beyond, factors such as the growing application of 3D printed models in complex surgeries and minimally invasive

procedures, expansion of virtual surgical planning services, and rising emphasis on preoperative precision drive market expansion. Additionally, the development of bioresorbable and sterilizable printing materials, integration of haptic feedback for realistic simulation, and collaborations between printing companies and surgical teams contribute to market growth.

3D Printed Surgical Models Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The 3D Printed Surgical Models market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of 3D Printed Surgical Models survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the 3D Printed Surgical Models industry.

Key market trends defining the global 3D Printed Surgical Models demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

3D Printed Surgical Models Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The 3D Printed Surgical Models industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support 3D Printed Surgical Models companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the 3D Printed Surgical Models industry

Leading 3D Printed Surgical Models companies are boosting investments to capitalize

on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 3D Printed Surgical Models companies.

3D Printed Surgical Models Market Study- Strategic Analysis Review

The 3D Printed Surgical Models market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

3D Printed Surgical Models Market Size Outlook- Historic and Forecast Revenue in Three Cases

The 3D Printed Surgical Models industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

3D Printed Surgical Models Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

North America 3D Printed Surgical Models Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various 3D Printed Surgical Models market segments. Similarly, Strong end-user demand is encouraging Canadian 3D Printed Surgical Models companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico 3D Printed Surgical Models market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe 3D Printed Surgical Models Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European 3D Printed Surgical Models industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European 3D Printed Surgical Models market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific 3D Printed Surgical Models Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for 3D Printed Surgical Models in Asia Pacific. In particular, China, India, and South East Asian 3D Printed Surgical Models markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our

report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America 3D Printed Surgical Models Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa 3D Printed Surgical Models Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East 3D Printed Surgical Models market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for 3D Printed Surgical Models.

3D Printed Surgical Models Market Company Profiles

The global 3D Printed Surgical Models market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Stratasys Ltd, 3D Systems Inc, Lazarus 3D LLC, Osteo3D, Axial3D, Onkos Surgical, Formlabs, Materialise NV, 3D LifePrints U.K. Ltd, WhiteClouds Inc

Recent 3D Printed Surgical Models Market Developments

The global 3D Printed Surgical Models market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

3D Printed Surgical Models Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Specialty

Cardiac Surgery/Interventional Cardiology

-Annuloplasty (mitral valve repair)

-Repair Coronary Aneurysm

-Replacement of Aortic Valve

-Stent Insertion

-Repair Congenital Heart Defects

Gastroenterology Endoscopy of Esophageal

- Endoscopy of Esophageal lesion

- Splenectomy

Neurosurgery

- Repair Aneurysm

- Transsphenoidal Excision of Pituitary Gland

- Remove Brain Tumor

Orthopedic Surgery

- Repair Scoliosis

- Repair Clavicle Fracture

- Hip Repair

- Repair Intervertebral Disc

- Hip Replacement Revision

- Repair Leg Fracture

- Osteotomy

Reconstructive Surgery

- Facial Reconstruction

- Hand Reconstruction

- Breast Reconstruction

- Mastoidectomy

-Cleft Palate Correction

Surgical oncology

-Removal of Adrenal Tumor

-Removal of Liver Tumor

-Endoscopic Removal of Cardiac Lesion

-Thoracic Removal of Lung Tumor

-Removal of Renal Tumor

Transplant Surgery

-Cardiac Surgery/ Interventional Cardiology

-Heart Transplant

-Liver Transplant

-Lung Transplant

-Kidney Transplant

By Technology

Stereolithography (SLA)

ColorJet Printing (CJP)

MultiJet/PolyJet Printing

Fused Deposition Modeling (FDM)

Others

By Material

Metal

Polymer

Plastic

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Stratasys Ltd

3D Systems Inc

Lazarus 3D LLC

Osteo3D

Axial3D

Onkos Surgical

Formlabs

Materialise NV

3D LifePrints U.K. Ltd

WhiteClouds Inc

Formats Available: Excel, PDF, and PPT

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- Stent Insertion
- Repair Congenital Heart Defects
- Gastroenterology Endoscopy of Esophageal
- Endoscopy of Esophageal lesion
- Splenectomy
- Neurosurgery
- Repair Aneurysm
- Transsphenoidal Excision of Pituitary Gland
- Remove Brain Tumor
- Orthopedic Surgery
- Repair Scoliosis
- Repair Clavicle Fracture
- Hip Repair
- Repair Intervertebral Disc
- Hip Replacement Revision
- Repair Leg Fracture
- Osteotomy
- Reconstructive Surgery
- Facial Reconstruction
- Hand Reconstruction
- Breast Reconstruction
- Mastoidectomy
- Cleft Palate Correction
- Surgical oncology
- Removal of Adrenal Tumor
- Removal of Liver Tumor
- Endoscopic Removal of Cardiac Lesion
- Thoracic Removal of Lung Tumor
- Removal of Renal Tumor
- Transplant Surgery
- Cardiac Surgery/ Interventional Cardiology
- Heart Transplant
- Liver Transplant
- Lung Transplant
- Kidney Transplant
- By Technology
- Stereolithography (SLA)

ColorJet Printing (CJP)

MultiJet/PolyJet Printing

Fused Deposition Modeling (FDM)

Others

By Material

Metal

Polymer

Plastic

Others

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Stratasys Ltd

3D SYSTEMS INC

Lazarus 3D LLC

Osteo3D

Axial3D

Onkos Surgical

Formlabs

Materialise NV

3D LIFEPRINTS U.K. LTD

WhiteClouds Inc

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