

Global 3D Printing Medical Devices Market Size study, by Product (3D Printers, 3D Bio-printers, Material, Software & Services) by Technology (Laser Beam Melting, Photo Polymerization, Three-dimensional Printing, Electron Beam Melting, Droplet Deposition) by Application (Surgical Guides, Surgical Instruments, Standard Prosthetics & Implants, Tissue-engineered Products, Hearing Aids, External Wearable Devices) and Regional Forecasts 2022-2032

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Abstracts

The global 3D printing medical devices market was valued at approximately USD 3.76 billion in 2023 and is projected to grow at a robust CAGR of 13.9% over the forecast period 2024-2032. This market encompasses the production of medical tools and implants using additive manufacturing techniques, enabling the creation of patient-specific devices, including prosthetics, implants, and surgical instruments. The versatility of 3D printing technology extends to the production of biocompatible implants for orthopedics and dental applications, as well as the creation of anatomical models for surgical planning and education. Moreover, the technology facilitates rapid prototyping, accelerating innovation and development in the medical field, enhancing precision, reducing costs, and improving patient outcomes.

The rising prevalence of surgical procedures globally is a significant driver for market growth. Increased incidents of road accidents, kidney stones, and other health issues necessitate surgical interventions, thereby driving demand for 3D printed medical devices. Additionally, growing investments in research and development, particularly in developed and developing economies, are fostering market expansion. Public-private partnerships for healthcare infrastructure development, especially in emerging

economies, are further bolstering market growth. The introduction of novel technologies for stem cell preservation and storage, driven by collaborative efforts from public and private entities, also supports market advancement.

The market is poised to benefit from numerous opportunities, including increased public-private funding for target research activities, heightened awareness of 3D printing benefits, and a rise in orthopedic and dental disease prevalence. Advanced 3D printing materials for medical applications, an expanding geriatric population, and continuous product innovations driven by technological advancements are expected to create lucrative opportunities. Additionally, the rise of direct digital manufacturing and increasing healthcare applications of 3D printing, coupled with growing per capita healthcare expenditure, are anticipated to further fuel market growth. However, several challenges may impede market growth. High costs associated with research and development, limited infrastructural facilities, and uneven distribution of medical services in underdeveloped economies are significant barriers. Moreover, unfavorable reimbursement scenarios, high capital investments, stringent regulatory frameworks, limited insurance coverage, and inadequate infrastructure in low- and middle-income countries pose further challenges.

North America dominated the market in 2023, accounting for 53% of the global revenue, driven by favourable government recommendations, substantial R&D investments, and a well-developed healthcare infrastructure. Increased awareness campaigns in the region also contribute to market growth. The Asia Pacific region is expected to experience significant growth during the forecast period, driven by a rising paediatric population, government initiatives to combat disease prevalence, and efforts from non-profit organizations to raise awareness and promote vaccination adoption.

Major market players included in this report are:

Stratasys Ltd. (Israel)
EnvisionTEC (US)
3D Systems, Inc. (US)
EOS (US)
Renishaw plc (UK)
GE Additive (US)
Desktop Metal, Inc. (US)
CELLINK (Sweden)
Formlabs (US)
Materialise (Belgium)
3T Additive Manufacturing Ltd. (US)
GENERAL ELECTRIC COMPANY (US)
Carbon, Inc. (US)
Prodways Group (France)

SLM Solutions (Germany)

The detailed segments and sub-segment of the market are explained below:

By Product:

- 3D Printers
- 3D Bio-printers
- Material
- Software & Services

By Technology:

- Laser Beam Melting
- Photo Polymerization
- Three-dimensional Printing
- Electron Beam Melting
- Droplet Deposition

By Application:

- Surgical Guides
- Surgical Instruments
- Standard Prosthetics & Implants
- Tissue-engineered Products
- Hearing Aids
- External Wearable Devices

By End User:

- Hospitals
- Academic Institutes
- Contract Research Organizations
- Pharma & Biotech Companies

By Region:

- North America
- U.S.
- Canada
- Europe
- UK
- Germany
- France
- Spain
- Italy
- ROE
- Asia Pacific
- China

- India
- Japan
- Australia
- South Korea
- RoAPAC
- Latin America
- Brazil
- Mexico
- RoLA
- Middle East & Africa
- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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