3D Printing Medical Devices: Global Markets

Market Research Report | 2024-07-19 | 122 pages | BCC Research

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Report description:

Description

Report Scope:

This report provides an overview of the global 3D printing medical devices market and analyzes market trends. It features an updated review of the 3D printing medical devices market, including a breakdown of the market by product segments, technology, sales channel and application. Using 2023 as the base year, the report provides estimated market data for the forecast period 2024 through 2029. Geographical segments include North America (i.e., U.S., Canada, Mexico), Europe (i.e., U.K., Germany, France, Rest of Europe), Asia-Pacific (i.e., Mainland China, Japan, Australia, South Korea, Rest of Asia-Pacific) and the Rest of the World (i.e., South America, Middle East, Africa). The report also focuses on emerging technologies and the vendor landscape. It concludes with profiles of the major players in the market. Please note that within the implants and prosthetics application segment, dental implants are not included, as they are categorized under the dental application segment.

Report Includes:

- 38 data tables and 53 additional tables
- An analysis of the global market for 3D printing (aka additive manufacturing) medical devices
- Analyses of global market trends, with market revenue data from 2023, estimates for 2024, forecasts for 2025 and 2026, projected CAGRs through 2029
- Estimates of the current market size and revenue prospects, along with a market share analysis based on product segment, technology, application, sales channel, and region
- Facts and figures pertaining to the market dynamics, current and emerging technologies, regulatory scenarios, and the expected impact of macroeconomic factors
- Analysis of the global market through the Porter's Five Forces model and a value chain analysis

- Review of key patents and new developments in 3D printing medical devices
- Overview of sustainability trends and ESG developments in the industry, with a focus on consumer attitudes, companies' ESG score rankings and their ESG practices
- An analysis of the industry structure, including companies' market shares, merger and acquisition activity and venture funding
- Profiles of the leading companies, including 3D Systems Inc., HP Development Co. L.P., EOS GmbH, Stratasys Ltd., and Materialise

Executive Summary

Summary:

3D printing has significantly influenced the development of customized medical devices. As the accessibility of 3D printers increases and investments in both machines and materials grow, more companies are leveraging this technology to disrupt the healthcare industry. Bringing 3D printing in□house allows medical device developers and manufacturers to reduce costs and time to market. The technology enables more agile product development, facilitates the creation of personalized medical devices and enables the production of novel final-use parts. The 3D printing medical devices market is experiencing significant growth driven by advancements in technology, increasing demand for personalized medical solutions and the rising adoption of innovative manufacturing methods in the healthcare sector.

Technological Advancements and Applications

With the convergence of artificial intelligence (AI) and machine learning (ML) with point-of-care (POC), 3D printing in medical device manufacturing has been a transformative event in healthcare technology. By harnessing AI and ML algorithms, healthcare providers can analyze patient data with accuracy and speed, enabling personalized treatment plans and precise diagnostics. The evolution of bioprinting technology further enhances this capability by enabling the fabrication of complex biological structures, such as tissues and organs, with more precision. Together, these advancements not only revolutionize medical device manufacturing but also pave the way for innovative therapies and treatments that are customized to individual patient needs.

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