

Market Evolution: Recent Developments in the Orthopedic 3D Printing Devices Market | With a revenue CAGR of 11.2% - 2032

Orthopedic 3D printing devices market generated \$2 bn in 2022, and is anticipated to generate \$5.3 bn by 2032, witnessing a CAGR of 11.2% from 2023 to 2032

PORTLAND, OREGON, UNITED STATES, September 21, 2023 /

EINPresswire.com/ -- According to the report, the global [orthopedic 3D printing devices market](#) generated \$2 billion in 2022, and is anticipated to generate \$5.3 billion by 2032,

witnessing a CAGR of 11.2% from 2023 to 2032. The study analyzes the important strategies, drivers, competition, market dynamics, size, and important investment regions.

Key Takeaways:

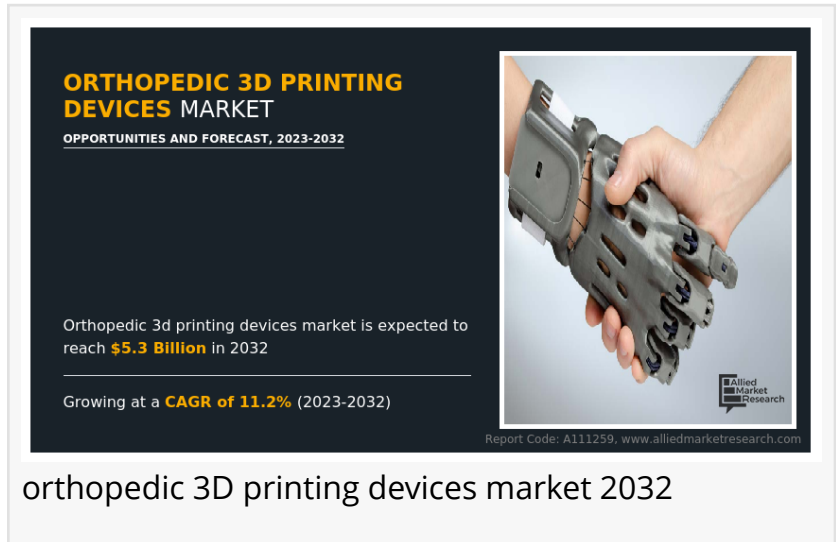
Plastics Sub-segment Projected to Gather a Huge Revenue During the Forecast Period.

Orthopedic Implants Sub-segment Projected to be One of the Most Profitable by 2032.

North America Market to be one of the Fastest Growing by 2032.

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Rising demand for orthopedic 3D printing allows for the production of patient-specific implants, prosthetics, and surgical instruments. The ability to customize and personalize these devices according to individual patient requirements is a major driver for the market growth. This technology enables orthopedic surgeons to create implants that perfectly match a patient's anatomy, resulting in better outcomes and improved patient satisfaction, contributing to the orthopedic 3D printing devices market growth in the upcoming years.



Orthopedic 3D Printing Devices Market Drivers:

Increasing pace of development of global healthcare infrastructure

Increasing investments in the research and development of orthopedic 3D printing devices

Orthopedic 3D Printing Devices Market Opportunities:

Rising demand for personalized and customized solutions tailored to suit individual patients

Increasing tendency to introduce innovation and advancement in the medical sector

Orthopedic 3D Printing Devices Market Restraints:

High initial cost of orthopedic 3D printing devices.

Market Segmentation:

Product Type:

Orthopedic Implants: This includes 3D-printed implants such as hip, knee, shoulder, and spinal implants.

Orthopedic Instruments: Instruments used in orthopedic surgeries, including customized surgical guides, cutting guides, and templates.

Prosthetics: Customized 3D-printed prosthetic limbs and orthotic devices.

Tissue Engineering Products: 3D-printed scaffolds and structures for tissue regeneration and repair.

Material Type:

Metallic Materials: Implants and instruments made from materials like titanium, cobalt-chromium alloys, and stainless steel.

Polymer Materials: Implants, prosthetics, and surgical guides made from biocompatible polymers like PLA and PEEK.

Ceramic Materials: Use of ceramics like zirconia for certain orthopedic applications.

Biological Materials: 3D printing with biological materials such as living cells and tissue constructs for regenerative medicine.

Technology Type:

Stereolithography (SLA): A 3D printing technique that uses a laser to cure liquid resin layer by layer.

Selective Laser Sintering (SLS): A powder-based 3D printing technology using a laser to fuse powdered material.

Fused Deposition Modeling (FDM): A method that deposits thermoplastic material layer by layer.

Powder Bed Fusion (PBF): A group of technologies like selective laser melting (SLM) and electron beam melting (EBM) that use a powder bed to create metal parts.

Bioprinting: Specialized 3D printing techniques for creating biological tissues and organs.

Application:

Joint Reconstruction: Implants for hip, knee, shoulder, and other joint replacements.

Spinal Surgery: Customized spinal implants, cages, and surgical guides.

Dental and Craniofacial: 3D-printed dental implants, bridges, and craniofacial implants.

Orthopedic Trauma: Implants and instruments for trauma cases and fracture fixation.

Prosthetics and Orthotics: Customized prosthetic limbs and orthotic devices.

Tissue Engineering: Scaffold and tissue constructs for regenerative medicine.

End-User:

Hospitals and Clinics: Healthcare institutions where orthopedic surgeries are performed.

Orthopedic Centers: Specialized centers focused on orthopedic care and surgery.

Ambulatory Surgical Centers (ASCs): Outpatient facilities for surgeries.

Research and Academic Institutions: Universities and research centers conducting orthopedic research and development.

Region:

North America (U.S., Canada, Mexico)

Europe (Germany, UK, France, Spain, Italy, Rest of Europe)

Asia-Pacific (China, Japan, India, South Korea, Australia, Rest of Asia-Pacific)

LAMEA (Brazil, Saudi Arabia, United Arab Emirates, South Africa, Rest of LAMEA)

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Regional Growth Dynamics:

The North America region accounted for the highest share in the global orthopedic 3D printing devices market in 2022 and is expected to continue on this growth trajectory during the forecast period. The increasing prevalence of orthopedic diseases such as osteoporosis and other bone related diseases and the increasing risk of fractures due to an aging population are expected to be the main growth drivers of the market in North America region by 2032.

Competitive Landscape:

Stryker
General Electric
Abbott
3D Systems Corp.
Smith & Nephew
Zimmer Biomet Holding Inc.
ENVISIONTEC US LLC
Johnson & Johnson
Aspect Biosystems Ltd.
EOS GmbH Electro Optical Systems

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Key Questions Answered in the Intelligent Study

What is the market size and growth rate of the global and regional market by various segments?

What is the market size and growth rate of the market for selective countries?

Which region or sub-segment is expected to drive the market in the forecast period?

What Factors are estimated to drive and restrain the market growth?

What are the key technological and market trends shaping the market?

What are the key opportunities in the market?

What are the key companies operating in the market?

Which company accounted for the highest market share?

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David Correa

Allied Analytics LLP

+1 800-792-5285

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