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THE WORLDWIDE 3D PRINTING MARKET FOR ORTHOPEDICS

2021-2026

& TOP 80 PLAYER PROFILES

JANUARY 2023

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For contract manufacturers:

- Is 3D printing the right option for the implant Contract Manufacturing business?
- Identify orthopedic company clients and their New Product Introduction

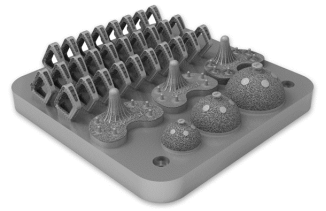
For orthopedic companies:

- Seize the dynamics of 3D printing
- Find the best performing contract manufacturers

For all:

- Which technology/equipment supplier will be dominant?
- Find the dynamic companies to invest in

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The Worldwide 3D printing market for orthopedics 2021-2026 & TOP 80 player profiles

130+ pages – 250+ exhibits

January 2023

I- The Worldwide 3D printing market for orthopedics 2021-2026

- 🔗 Important notice
- 🔗 Aim of the Survey
- 🔗 Table of contents
- 🔗 Summary: 3D printing for orthopedics
- 🔗 Methodology

II- History of 3D printing for orthopedics

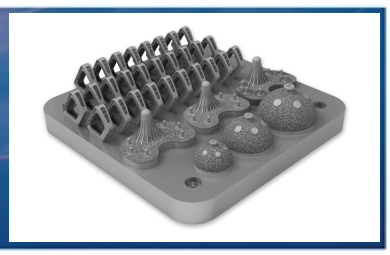
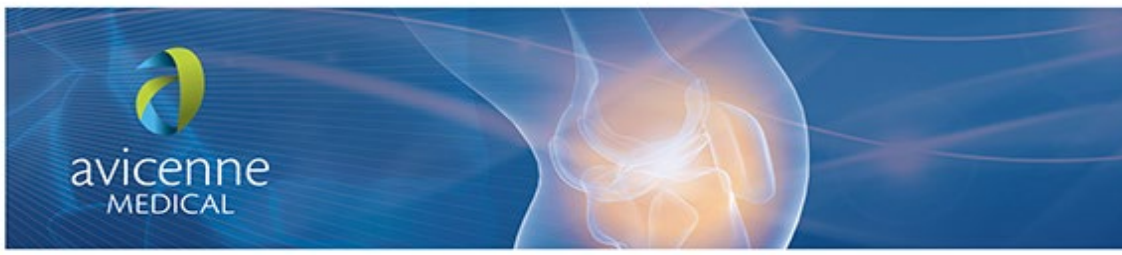
- 🔗 History of Orthopedic 3D Printing
- 🔗 Story of Zimmer and Trabecular Tantalum
- 🔗 3D Printing is attractive for reconstructive implants to accelerate and improve osteo-integration. Zimmer has used Trabecular Tantalum clinically since 1997.
- 🔗 Zimmer, Trabecular Metal related implants
- 🔗 Zimmer Biomet uses both Trabecular Metal and 3D printing technologies
- 🔗 FDA clearance for medical devices using 3D Printing in USA
- 🔗 Metal 3D Printing: technologies and major players, EOS, Arcam, SLM Solutions, Concept Laser, Other
- 🔗 Illustrative build-up speed and resolution of selected Metal 3D Printing systems: EBM Vs Selective Laser Melting (SLM)
- 🔗 Addressable market should increase with lower 3D Printing cost
- 🔗 Metal Binder Jetting has its own strengths, but mechanical properties, dimensional accuracy and tolerances must be improved

III- The Worldwide 3D printing market for orthopedics 2021-2026

- 🔗 Arcam EBM installed base for orthopedic industry: Lima EBM Installed base
- 🔗 Beijing AK MEDICAL EBM machines Installed base
- 🔗 Smith & Nephew uses 3D Printing: EOS M290 for metal and also for plastic to produce hip cup & customized cutting blocks in 2021
- 🔗 Stryker has announced massive investments in 3D Printing
- 🔗 Stryker built a 3D printing manufacturing facility in Cork, Ireland was released
- 🔗 Current Stryker products made by 3D printing: Knee, cages, other



- 🔗 Lincotek 3D Printing activity details
- 🔗 Depuy Spine uses 3D Printing for prototyping complex surgical tools
- 🔗 Depuy announced investments in 3D printing in January 2019 & launched knee 3D printing in March 2022
- 🔗 DePuy Synthes has acquired 3D printing technology from Tissue Regeneration Systems Inc.
- 🔗 DePuy Synthes Launched 3D Printed Titanium Facial Reconstruction Implants in U.S.
- 🔗 XILLOC invested in four EOS machines for Cranio-Maxillofacial applications
- 🔗 Is 3D Printing the right option for the Contract Manufacturing business? Analysis of one of the most advanced Contract Manufacturers in 3D printing
- 🔗 Most major Contract Manufacturers are investing in 3D Printing on a small scale both to cater to a niche market and to acquire experience. The strategic question for CMO: Will 3D Printing technology be kept in-house by OEMs?
- 🔗 Equipment suppliers for Orthopedics, Installed base per customer and per supplier: EOS, ARCAM, CONCEPT LASER, SLM Solutions, 3D Systems and their customers
- 🔗 Trend of the installed bases of the main machine suppliers: The number of 3D printing machines used in orthopedics has grown incredibly since 2015.
- 🔗 The products mainly concerned by 3D printing
- 🔗 Is 3D printing the right option for the implant Contract Manufacturing business? Analysis of different products & players for reconstructive implants, standard cages, special cages and customized implants
- 🔗 Is 3D printing the right option for the instruments Contract Manufacturing business? Analysis of different products & players for customized cutting guides and complex instruments
- 🔗 In 2022, 3D printing reaches the mass market for a few key products
- 🔗 Number of implants produced using 3D printing : Stryker, Lima, Zimmer Biomet, Adler Ortho
- 🔗 3D printing today has a slight impact on the forging, casting & machining of implants. In 2021, estimation in Europe, for hips, knees, shoulder, and trauma are made by 3D printing .
- 🔗 Cages for spine surgeries in the five main European countries: as Peek and Titanium lose market share, 3D printing of cages will highly increase
- 🔗 Standard manufacturing process Vs 3D printing process: cost comparison
- 🔗 3D printing in-house & contract manufactured market in MUS\$
- 🔗 Executive Summary: 3D printing for orthopedics



IV- TOP 80 3D printing for orthopedics player profiles

- Orthopedic companies in 3D printing profiles
 - a. 27 player profiles
- CMO leaders in 3D printing profiles
 - b. 15 player profiles
- CMOs operating in 3D printing profiles
 - c. 16 player profiles
- 3D printing machine supplier profiles
 - d. 22 player profiles

Orthopedic companies operating in 3D, CMO leaders in 3D printing, CMOs operating in 3D printing and 3D printing machine suppliers

STRYKER

avicenne MEDICAL

Player profiles

CONTACTS & MANAGEMENT

PRODUCTION FACILITIES

3D PRINTING REVENUE (USD MILLION)

Year	Revenue
2017	100
2018	150
2019	200
2020	250
2021	300

Lincotek Medical

Formerly Eurocoating & CoorsTek Medical

avicenne MEDICAL

Player profiles

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3D Systems

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Player profiles

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