

Global 3D-Printed Orthopedic Implants Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

3D printing, also known as additive manufacturing, is different from the subtractive processing technology. It is based on the patient's X-ray computed tomography or magnetic resonance imaging to establish a CAD model (Computer aided design, CAD). It needs modern technologies such as electron beam technology and material science, and starts from the CAD model of the part, and realize the construction of three-dimensional complex entities by positioning the stacked materials layer by layer. Approximately 13% of all 3D printing revenues come from the medical industry. Orthopedic implants are the first medical application field where 3D printing technology is industrialized.

Because the 3D orthopedic implant printing technology can customize the shape of the implant according to the needs of the patient, and can precisely control the complex microstructure of the implant, it can realize the dual adaptation of the shape and mechanical properties of the implant to the human bone. Therefore, it is favored in the field of orthopedic implants and developed rapidly. At present, the research on the metal raw materials of 3D printing orthopedic implants mainly focuses on titanium and titanium alloys. Hot metal materials that have emerged in recent years, such as tantalum, magnesium, zinc, etc., are still in the research stage due to their imperfect material properties and have not yet been clinically applied.

According to our (Global Info Research) latest study, the global 3D-Printed Orthopedic Implants market size was valued at USD 1759.9 million in 2022 and is forecast to a readjusted size of USD 4826.8 million by 2029 with a CAGR of 15.5% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

According to regions, North America dominated the entire market of the 3D printed orthopedic implants with about 78% of the global market share in 2019, much more than other regions.

Among the different types of 3D printed orthopedic implants, the metal type held the maximum market share with about 72% in 2019.

This report is a detailed and comprehensive analysis for global 3D-Printed Orthopedic Implants market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global 3D-Printed Orthopedic Implants market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global 3D-Printed Orthopedic Implants market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global 3D-Printed Orthopedic Implants market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global 3D-Printed Orthopedic Implants market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 3D-Printed Orthopedic Implants

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 3D-Printed Orthopedic Implants market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Stratasys, 3D Systems Corporation, Renishaw, EOS GmbH Electro Optical Systems and EnvisionTEC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

3D-Printed Orthopedic Implants market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Cranial/Facial Implant

Spinal Implant

Hip Implants

Knee Implants

Extremities Implants

Market segment by Application

Orthopedic Clinics

Hospitals

Orthopedic Ambulatory Surgery Centers

Others

Major players covered

Stratasys

3D Systems Corporation

Renishaw

EOS GmbH Electro Optical Systems

EnvisionTEC

Materialize

Arcam AB

3D Printing Media Network

Prodways

Concept Laser GmbH

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of

Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 3D-Printed Orthopedic Implants product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D-Printed Orthopedic Implants, with price, sales, revenue and global market share of 3D-Printed Orthopedic Implants from 2018 to 2023.

Chapter 3, the 3D-Printed Orthopedic Implants competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D-Printed Orthopedic Implants breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022. and 3D-Printed Orthopedic Implants market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of 3D-Printed Orthopedic Implants.

Chapter 14 and 15, to describe 3D-Printed Orthopedic Implants sales channel, distributors, customers, research findings and conclusion.

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