

# **Medical Implant Market By Product (Orthopedic implants, Cardiovascular Implants, Spinal Implants, Neurostimulators, Ophthalmic Implants, Dental Implants, Facial Implants, Breast implants) , By Biomaterial Type (Metallic Biomaterials , Ceramic Biomaterials , Polymers Biomaterials , Natural Biomaterials) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

The medical implant market was valued at \$112.8 billion in 2023, and is projected to reach \$225.7 billion by 2033, growing at a CAGR of 7.2% from 2024 to 2033.

Medical implant is a medical device or tissue that is placed inside or on the surface of the body to replace or mimic the functions of biological structures in individuals whose organs are damaged, dysfunctional, or impaired. They are used to restore function and provide support in patients suffering from various medical conditions or injuries. They can be made from a variety of materials, including metals, ceramics, polymers, and biological tissues. Various types of implants include orthopedic, cardiovascular, neurological, dental, ophthalmic, cochlear, and cosmetic implants.

The growth of the global medical implant market is majorly driven by alarming increase in prevalence of chronic conditions such as cardiovascular diseases, diabetes, and neurological disorders necessitates the use of implants for treatment and management, such as pacemakers, stents, and neurostimulators. Moreover, rise in geriatric population acts as a key driving force of the global market. This is attributed to the fact that increase in elderly population leads to a higher prevalence of age-related

conditions such as osteoporosis, cardiovascular diseases, and degenerative joint diseases, boosting the demand for medical implants. Furthermore, rise in accidents, sports injuries, and trauma cases leads to higher demand for orthopedic implants to repair and support damaged bones and joints. Thus, these facts determine that orthopedic implants are considered the most common. According to an article published by Wolters Kluwer, a Dutch information services company, almost two million bone grafting procedures are performed worldwide per year. Among these, 500,000 bone grafts are performed annually in the U.S. alone. Furthermore, increase in awareness among patients and healthcare providers about the benefits of medical implants and enhanced healthcare facilities and infrastructure in developing regions increase access to advanced medical treatments, including implant surgeries, boost the market growth. Desire for improved physical appearance has significantly propelled the demand for cosmetic surgeries and procedures, such as breast implants and facial implants, further augmenting the market growth. Growing trend of medical tourism, where patients travel to other countries for affordable and high-quality implant procedures, considerably contributes toward the market growth. According to the Medical Tourism Association—a non-profit organization in Florida that focuses on raising awareness for medical travel while driving the adoption of affordable and transparent medical practices—approximately 14 million individuals travel to other countries in search of medical care annually across the world, garnering between 50 and 70 thousand million dollars. However, high cost associated with development, production, and implementation of advanced medical implants hampers the growth of the market. Moreover, lack of appropriate health facilities to meet population needs in most countries and limited access act as the key deterrent factors of the market. Furthermore, risk of immune rejection and ethical conflicts significantly restrain the market growth. On the contrary, continuous innovations in implant materials, design, and surgical techniques to improve the safety, effectiveness, and longevity of medical implants are expected to offer lucrative opportunities for the market growth during the forecast period. For instance, manufacturers are focusing on the development of implants made from biodegradable materials that gradually dissolve in the body, thus eliminating the need for surgical removal and reducing long-term complications.

The global medical implant market is segmented into product, biomaterial type, and region. On the basis of product, the market is fragmented into orthopedic implants, cardiovascular implants, spinal implants, neurostimulators, ophthalmic implants, dental implants, facial implants, and breast implants. Depending on biomaterial type, it is categorized into metallic biomaterials, ceramic biomaterials, polymers biomaterials, and natural biomaterials. Region wise, it is analyzed across North America, Europe,

Asia-Pacific, LAMEA.

## Key Findings

By product, the orthopedic implants segment dominated the market, in terms of share, in 2023.

Depending on biomaterial type, metallic biomaterials emerged as the leading segment in 2023.

Region wise, North America was the major shareholder in 2023.

## Competition Analysis

Competitive analysis and profiles of the major players in the global medical implant market include Biotronik, Boston Scientific Corporation, CONMED Corporation, Globus Medical, Inc., Institut Straumann AG, Integra LifeSciences Holdings Corporation, LivaNova PLC, Medtronic plc, NuVasive, Inc., and Johnson & Johnson. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to gain a strong foothold and sustain the intense competition.

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Average Selling Price Analysis / Price Point Analysis

Criss-cross segment analysis- market size and forecast

Historic market data

Import Export Analysis/Data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Market share analysis of players at global/region/country level

Key Market Segments

By Product

Orthopedic implants

Reconstructive Joint Replacements

? Knee Replacement Implants

? Hip Replacement Implants

? Extremities

Orthobiologics

Trauma and Craniomaxillofacial

Cardiovascular Implants

Pacing Devices

? Cardiac Resynchronization Therapy Devices (CRTs)

? Implantable Cardioverter Defibrillators (ICDs)

? Implantable Cardiac Pacemakers (ICPs)

Stents

? Coronary stents

? Peripheral stents

? Stent-related Implants

Structural Cardiac Implants

? Mechanical Heart Valves

? Implantable Ventricular-assist Devices

Spinal Implants

Spinal fusion implants

Spinal bone stimulators

Vertebral Compression Fracture (VCF) Devices

Motion Preservation Devices/Non-Fusion Devices

Neurostimulators

Deep Brain Stimulation

Sacral Nerve Stimulation

Vagus Nerve Stimulation

Spinal Cord Stimulation

Other neurostimulators

Ophthalmic Implants

Intraocular Lens

Glaucoma Implants

Dental Implants

Plate Form Dental Implants

Root Form Dental Implants

Facial Implants

Breast implants

## By Biomaterial Type

Metallic Biomaterials

Ceramic Biomaterials

Polymers Biomaterials

Natural Biomaterials

## By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Biotronik

Boston Scientific Corporation

CONMED Corporation

Globus Medical, Inc.

Institut Straumann AG

Integra LifeSciences Holdings Corporation

LivaNova PLC

Medtronic plc

NuVasive, Inc.



Johnson & Johnson

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