

Bionic Smart Knee Market By Material (Titanium, Graphite) , By End User (Hospitals, Orthopedic Clinics, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

<https://marketpublishers.com/r/B0FF5A2C24CBEN.html>

Date: July 2024

Pages: 260

Price: US\$ 2,655.00 (Single User License)

ID: B0FF5A2C24CBEN

Abstracts

Bionic Smart Knee Market

The bionic smart knee market was valued at \$1.3 billion in 2023 and is projected to reach \$2.8 billion by 2033, growing at a CAGR of 7.8% from 2024 to 2033.

A bionic smart knee is a unique prosthetic device utilized for knee replacement. The device is equipped with sensors, microprocessors, and Bluetooth technology, which facilitate the replacement procedure. This smart knee imitates the natural functions of a human knee, along with enhancing comfort and mobility. The primary features of bionic smart knee include its dynamic adjustment capabilities and remarkable gait analysis. Moreover, the device's connectivity features enable its integration with external devices or mobile apps, allowing users to monitor their performance and customize the settings or performance.

Advancements in technology and material sciences are driving the growth of the bionic smart knee market as these upgraded devices offer refined functionality and experience to the users. In addition, rise in the prevalence of mobility issues and knee injuries, along with surge in awareness regarding the availability of advanced therapeutics is boosting the adoption of bionic smart knee. An emerging trend in the bionic smart knee market is the neuroprosthetic regulation of the device. Control of the smart knee through neural abilities is anticipated to amplify the imitation of natural human gait by the device. To facilitate neural control, the agonist and antagonist muscle pairs critical for knee movement need to be surgically connected to mimic the natural

dynamics.

However, the availability of prosthetic devices and the facility to undergo a successful replacement are majorly restricted to developed regions, which hampers the market growth. In addition, the high cost of smart knee administration, maintenance, and insurance coverage prevents budget-sensitive patients from undergoing replacement, which limits the widespread expansion of the market. According to an article by the U.S. News & World Report—an American news magazine—on an average, robotic smart knee replacements cost around \$2,400 higher than the conventional replacement surgeries. On the contrary, the market is poised for lucrative opportunities due to the advent of remote health. Bionic smart knee enables remote checkups and post-operative monitoring, eliminating the hassle of multiple hospital visits after surgery.

Segment Review

The bionic smart knee market is segmented into material, end user, and region. On the basis of material, the market is bifurcated into titanium and graphite. As per end user, it is divided into hospitals, orthopedic clinics, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of material, the titanium segment dominates the bionic smart knee market.

As per end user, hospitals are the leading segment in the market.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The key players operating in the global bionic smart knee market include Stryker Corporation., Zimmer Biomet Holdings, Inc., Smith & Nephew plc, Johnson & Johnson, B. Braun Melsungen AG, Medtronic, Ossur, Wright Medical Group N.V., Exactech, Inc., and ConforMIS, Inc. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, to strengthen their foothold in the competitive market.

Additional benefits you will get with this purchase are:

Quarterly Update and* (only available with a corporate license, on listed price)

5 additional Company Profile of client Choice pre- or Post-purchase, as a free update.

Free Upcoming Version on the Purchase of Five and Enterprise User License.

16 analyst hours of support* (post-purchase, if you find additional data requirements upon review of the report, you may receive support amounting to 16 analyst hours to solve questions, and post-sale queries)

15% Free Customization* (in case the scope or segment of the report does not match your requirements, 15% is equivalent to 3 working days of free work, applicable once)

Free data Pack on the Five and Enterprise User License. (Excel version of the report)

Free Updated report if the report is 6-12 months old or older.

24-hour priority response*

Free Industry updates and white papers.

Possible Customization with this report (with additional cost and timeline, please talk to the sales executive to know more)

Additional company profiles with specific client's interest

Expanded list for Company Profiles

Key Market Segments

By Material

Titanium

Graphite

By End User

Hospitals

Orthopedic Clinics

Others

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

Stryker Corporation.

Zimmer Biomet Holdings, Inc.

Smith & Nephew plc

Johnson & Johnson

B. Braun Melsungen AG

Medtronic

Wright Medical Group N.V.

Exactech, Inc.

ConforMIS, Inc.

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
 - 3.3.1. Bargaining Power of Suppliers
 - 3.3.2. Threat of New Entrants
 - 3.3.3. Threat of Substitutes
 - 3.3.4. Competitive Rivalry
 - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: BONE CEMENT FOR SPINE MARKET, BY TYPE

- 4.1. Market Overview
 - 4.1.1 Market Size and Forecast, By Type
- 4.2. Low Viscosity
 - 4.2.1. Key Market Trends, Growth Factors and Opportunities

- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Medium Viscosity
 - 4.3.1. Key Market Trends, Growth Factors and Opportunities
 - 4.3.2. Market Size and Forecast, By Region
 - 4.3.3. Market Share Analysis, By Country
- 4.4. High Viscosity
 - 4.4.1. Key Market Trends, Growth Factors and Opportunities
 - 4.4.2. Market Size and Forecast, By Region
 - 4.4.3. Market Share Analysis, By Country

CHAPTER 5: BONE CEMENT FOR SPINE MARKET, BY APPLICATION

- 5.1. Market Overview
 - 5.1.1 Market Size and Forecast, By Application
- 5.2. Vertebroplasty
 - 5.2.1. Key Market Trends, Growth Factors and Opportunities
 - 5.2.2. Market Size and Forecast, By Region
 - 5.2.3. Market Share Analysis, By Country
- 5.3. Kyphoplasty
 - 5.3.1. Key Market Trends, Growth Factors and Opportunities
 - 5.3.2. Market Size and Forecast, By Region
 - 5.3.3. Market Share Analysis, By Country

CHAPTER 6: BONE CEMENT FOR SPINE MARKET, BY END USER

- 6.1. Market Overview
 - 6.1.1 Market Size and Forecast, By End User
- 6.2. Hospitals
 - 6.2.1. Key Market Trends, Growth Factors and Opportunities
 - 6.2.2. Market Size and Forecast, By Region
 - 6.2.3. Market Share Analysis, By Country
- 6.3. Specialty Surgical Centers
 - 6.3.1. Key Market Trends, Growth Factors and Opportunities
 - 6.3.2. Market Size and Forecast, By Region
 - 6.3.3. Market Share Analysis, By Country

CHAPTER 7: BONE CEMENT FOR SPINE MARKET, BY REGION

7.1. Market Overview

7.1.1 Market Size and Forecast, By Region

7.2. North America

7.2.1. Key Market Trends and Opportunities

7.2.2. Market Size and Forecast, By Type

7.2.3. Market Size and Forecast, By Application

7.2.4. Market Size and Forecast, By End User

7.2.5. Market Size and Forecast, By Country

7.2.6. U.S. Bone Cement for Spine Market

7.2.6.1. Market Size and Forecast, By Type

7.2.6.2. Market Size and Forecast, By Application

7.2.6.3. Market Size and Forecast, By End User

7.2.7. Canada Bone Cement for Spine Market

7.2.7.1. Market Size and Forecast, By Type

7.2.7.2. Market Size and Forecast, By Application

7.2.7.3. Market Size and Forecast, By End User

7.2.8. Mexico Bone Cement for Spine Market

7.2.8.1. Market Size and Forecast, By Type

7.2.8.2. Market Size and Forecast, By Application

7.2.8.3. Market Size and Forecast, By End User

7.3. Europe

7.3.1. Key Market Trends and Opportunities

7.3.2. Market Size and Forecast, By Type

7.3.3. Market Size and Forecast, By Application

7.3.4. Market Size and Forecast, By End User

7.3.5. Market Size and Forecast, By Country

7.3.6. Germany Bone Cement for Spine Market

7.3.6.1. Market Size and Forecast, By Type

7.3.6.2. Market Size and Forecast, By Application

7.3.6.3. Market Size and Forecast, By End User

7.3.7. France Bone Cement for Spine Market

7.3.7.1. Market Size and Forecast, By Type

7.3.7.2. Market Size and Forecast, By Application

7.3.7.3. Market Size and Forecast, By End User

7.3.8. UK Bone Cement for Spine Market

7.3.8.1. Market Size and Forecast, By Type

7.3.8.2. Market Size and Forecast, By Application

7.3.8.3. Market Size and Forecast, By End User

7.3.9. Italy Bone Cement for Spine Market

- 7.3.9.1. Market Size and Forecast, By Type
- 7.3.9.2. Market Size and Forecast, By Application
- 7.3.9.3. Market Size and Forecast, By End User
- 7.3.10. Spain Bone Cement for Spine Market
 - 7.3.10.1. Market Size and Forecast, By Type
 - 7.3.10.2. Market Size and Forecast, By Application
 - 7.3.10.3. Market Size and Forecast, By End User
- 7.3.11. Rest of Europe Bone Cement for Spine Market
 - 7.3.11.1. Market Size and Forecast, By Type
 - 7.3.11.2. Market Size and Forecast, By Application
 - 7.3.11.3. Market Size and Forecast, By End User
- 7.4. Asia-Pacific
 - 7.4.1. Key Market Trends and Opportunities
 - 7.4.2. Market Size and Forecast, By Type
 - 7.4.3. Market Size and Forecast, By Application
 - 7.4.4. Market Size and Forecast, By End User
 - 7.4.5. Market Size and Forecast, By Country
 - 7.4.6. Japan Bone Cement for Spine Market
 - 7.4.6.1. Market Size and Forecast, By Type
 - 7.4.6.2. Market Size and Forecast, By Application
 - 7.4.6.3. Market Size and Forecast, By End User
 - 7.4.7. China Bone Cement for Spine Market
 - 7.4.7.1. Market Size and Forecast, By Type
 - 7.4.7.2. Market Size and Forecast, By Application
 - 7.4.7.3. Market Size and Forecast, By End User
 - 7.4.8. Australia Bone Cement for Spine Market
 - 7.4.8.1. Market Size and Forecast, By Type
 - 7.4.8.2. Market Size and Forecast, By Application
 - 7.4.8.3. Market Size and Forecast, By End User
 - 7.4.9. India Bone Cement for Spine Market
 - 7.4.9.1. Market Size and Forecast, By Type
 - 7.4.9.2. Market Size and Forecast, By Application
 - 7.4.9.3. Market Size and Forecast, By End User
 - 7.4.10. South Korea Bone Cement for Spine Market
 - 7.4.10.1. Market Size and Forecast, By Type
 - 7.4.10.2. Market Size and Forecast, By Application
 - 7.4.10.3. Market Size and Forecast, By End User
 - 7.4.11. Rest of Asia-Pacific Bone Cement for Spine Market
 - 7.4.11.1. Market Size and Forecast, By Type

7.4.11.2. Market Size and Forecast, By Application

7.4.11.3. Market Size and Forecast, By End User

7.5. LAMEA

7.5.1. Key Market Trends and Opportunities

7.5.2. Market Size and Forecast, By Type

7.5.3. Market Size and Forecast, By Application

7.5.4. Market Size and Forecast, By End User

7.5.5. Market Size and Forecast, By Country

7.5.6. Brazil Bone Cement for Spine Market

7.5.6.1. Market Size and Forecast, By Type

7.5.6.2. Market Size and Forecast, By Application

7.5.6.3. Market Size and Forecast, By End User

7.5.7. Saudi Arabia Bone Cement for Spine Market

7.5.7.1. Market Size and Forecast, By Type

7.5.7.2. Market Size and Forecast, By Application

7.5.7.3. Market Size and Forecast, By End User

7.5.8. South Africa Bone Cement for Spine Market

7.5.8.1. Market Size and Forecast, By Type

7.5.8.2. Market Size and Forecast, By Application

7.5.8.3. Market Size and Forecast, By End User

7.5.9. Rest of LAMEA Bone Cement for Spine Market

7.5.9.1. Market Size and Forecast, By Type

7.5.9.2. Market Size and Forecast, By Application

7.5.9.3. Market Size and Forecast, By End User

CHAPTER 8: COMPETITIVE LANDSCAPE

8.1. Introduction

8.2. Top Winning Strategies

8.3. Product Mapping of Top 10 Player

8.4. Competitive Dashboard

8.5. Competitive Heatmap

8.6. Top Player Positioning, 2023

CHAPTER 9: COMPANY PROFILES

9.1. Cardinal Health

9.1.1. Company Overview

9.1.2. Key Executives

- 9.1.3. Company Snapshot
- 9.1.4. Operating Business Segments
- 9.1.5. Product Portfolio
- 9.1.6. Business Performance
- 9.1.7. Key Strategic Moves and Developments
- 9.2. Meta Biomed Co., Ltd
 - 9.2.1. Company Overview
 - 9.2.2. Key Executives
 - 9.2.3. Company Snapshot
 - 9.2.4. Operating Business Segments
 - 9.2.5. Product Portfolio
 - 9.2.6. Business Performance
 - 9.2.7. Key Strategic Moves and Developments
- 9.3. Heraeus Medical GmbH
 - 9.3.1. Company Overview
 - 9.3.2. Key Executives
 - 9.3.3. Company Snapshot
 - 9.3.4. Operating Business Segments
 - 9.3.5. Product Portfolio
 - 9.3.6. Business Performance
 - 9.3.7. Key Strategic Moves and Developments
- 9.4. Shanghai Rebone, Tecres S.P.A
 - 9.4.1. Company Overview
 - 9.4.2. Key Executives
 - 9.4.3. Company Snapshot
 - 9.4.4. Operating Business Segments
 - 9.4.5. Product Portfolio
 - 9.4.6. Business Performance
 - 9.4.7. Key Strategic Moves and Developments
- 9.5. OSARTIS GmbH
 - 9.5.1. Company Overview
 - 9.5.2. Key Executives
 - 9.5.3. Company Snapshot
 - 9.5.4. Operating Business Segments
 - 9.5.5. Product Portfolio
 - 9.5.6. Business Performance
 - 9.5.7. Key Strategic Moves and Developments
- 9.6. Stryker Corporation
 - 9.6.1. Company Overview

- 9.6.2. Key Executives
- 9.6.3. Company Snapshot
- 9.6.4. Operating Business Segments
- 9.6.5. Product Portfolio
- 9.6.6. Business Performance
- 9.6.7. Key Strategic Moves and Developments
- 9.7. Johnson And Johnson
 - 9.7.1. Company Overview
 - 9.7.2. Key Executives
 - 9.7.3. Company Snapshot
 - 9.7.4. Operating Business Segments
 - 9.7.5. Product Portfolio
 - 9.7.6. Business Performance
 - 9.7.7. Key Strategic Moves and Developments
- 9.8. Heraeus Medical
 - 9.8.1. Company Overview
 - 9.8.2. Key Executives
 - 9.8.3. Company Snapshot
 - 9.8.4. Operating Business Segments
 - 9.8.5. Product Portfolio
 - 9.8.6. Business Performance
 - 9.8.7. Key Strategic Moves and Developments
- 9.9. Smith And Nephew Plc
 - 9.9.1. Company Overview
 - 9.9.2. Key Executives
 - 9.9.3. Company Snapshot
 - 9.9.4. Operating Business Segments
 - 9.9.5. Product Portfolio
 - 9.9.6. Business Performance
 - 9.9.7. Key Strategic Moves and Developments
- 9.10. Medtronic
 - 9.10.1. Company Overview
 - 9.10.2. Key Executives
 - 9.10.3. Company Snapshot
 - 9.10.4. Operating Business Segments
 - 9.10.5. Product Portfolio
 - 9.10.6. Business Performance
 - 9.10.7. Key Strategic Moves and Developments

I would like to order

Product name: Bionic Smart Knee Market By Material (Titanium, Graphite) , By End User (Hospitals, Orthopedic Clinics, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

Product link: <https://marketpublishers.com/r/B0FF5A2C24CBEN.html>

Price: US\$ 2,655.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/B0FF5A2C24CBEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970