

Global Knee Implant Market Analysis and Forecast till 2028

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Report description:

Global Knee Implant Market Analysis and Forecast 2019-2028

The global Knee Implant is expected to witness a robust strong rate of around 5.6% during the projected period. Knee implants are used to replace the weight-bearing surfaces of the knee joint in order to reduce the suffering brought on by rheumatoid arthritis or damage. Knee replacement surgeries include first-time, or primary, joint replacement procedures and revision procedures for the replacement, repair, or enhancement of an implant or component from a previous procedure. The operation is done to stop ligament tears and excruciating arthritis pain.

The market growth is attributed to the increasing adoption of minimally invasive surgeries. Minimally invasive knee replacement is performed through a shorter incision-typically 4 to 6 inches versus 8 to 10 inches for traditional knee replacement. A smaller incision allows for less tissue disturbance. In addition to a shorter incision, the technique used to open the knee is less invasive. Owing to such benefits offered, minimally invasive surgeries are increasingly being adopted across the globe and hence drive market growth.

More hospitals are adopting robotic-assisted surgeries for joint replacements. Mako Robotic Arm-Assisted Surgery System is one of the robotic surgeries adopted by hospitals that enables surgeons to deliver more predictable surgical outcomes with increased accuracy. In June 2021, Miami Orthopedics & Sports Medicine Institute became the first institution in Miami-Dade County to invest in the Mako Robotic-Arm Assisted Technology, manufactured by Stryker. Mako has helped surgeons perform partial and knee replacements more accurately.

Market Segmentation

The global knee implant market is segmented based on type, procedure type, material, end-use, and region. Based on type, the market is bifurcated into Conventional knee Implants and Smart knee implants. Among these, smart knee implants segment is projected to exhibit considerable growth rate during the forecast period. On the basis of procedure type, the market is segmented into Total knee replacement, Partial knee replacement, and Revision knee replacement. Total Knee Replacement (TKR) segment held the largest share owing to the increasing need for implants.

Based on material, the market is segmented into stainless steel, titanium alloys, polyethylene, cobalt-chromium alloys, and others including bone cement among others. On the basis of end-use, the market is divided into hospitals and ambulatory service center.

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Hospital segment is estimated to hold a prominent share in the market. Based on region, the market is divided into North America, Latin America, Western Europe, Eastern Europe, Asia Pacific, and Middle East & Africa. North America dominates the market while Asia Pacific is projected to exhibit significant growth rate during the forecast period.

Competitive Landscape

The global knee implant is fragmented in nature with various players operating in the market. Some of the prominent players that contribute significantly to the global knee implant market include Medtronic plc, Zimmer Biomet, DePuy Synthes, MicroPort Scientific Corporation, Stryker Corporation, Exatech Inc., Medacta, Aesculap Implants Systems LLC, Smith & Nephew Plc, Johnson & Johnson, and B Braun Melsungen AG, among others.

These players adopt various strategies to reinforce their market share and gain a competitive edge over other competitors in the market. Mergers and acquisitions, product launches, partnerships, and collaborations are some of the strategies followed by industry players. Some of the key developments in the global knee implant include,

- In November 2021, Stryker expanded its Mako SmartRobotics footprint to reach more veterans and military suffering from joint pain.

- In January 2021, Stryker has acquired OrthoSensor, a company focused on applying digital technologies and big data to total joint replacements.

Table of Contents:

Global Knee Implant Market Analysis and Forecast 2019-2028

Table of Contents

1. Market Introduction
 - 1.1. Scope of Study
 - 1.2. Problem Statement
 - 1.3. Market Segmentation
2. Assumptions and Acronyms
3. Executive Summary
 - 3.1. Global Market in 2022
 - 3.2. Analyst Insights & Recommendations
 - 3.3. Growth Opportunities and Key Strategies
 - 3.4. Supply-side and Demand-side Trends
4. Research Methodology
5. Analysis of COVID-19 Impact and Road Ahead
6. Market Indicators and Background
 - 6.1. Macro-Economic Factors
 - 6.2. Forecasting FactorsRobust assessment of various factors including industrial performance, industry players' expenditures, and economic conditions, among others
 - 6.3. Supply Chain & Value Chain Analysis
 - 6.4. Industry SWOT Analysis
 - 6.5. PESTLE Analysis
 - 6.6. Porter's Five Forces Analysis
7. Government Laws & Regulations
8. Global and Regional Market Dynamics
 - 8.1. Drivers
 - 8.2. Restraints
 - 8.3. Opportunities

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- 9. Global Knee Implant Market: Investment Analysis
 - 9.1. By Knee Implant Manufacturers
 - 9.2. By Region
 - 9.3. M&A Activities
- 10. Parent Market Overview
 - 10.1. Global Medical Devices Market
 - 10.2. Global Orthopedic Implant Market
- 11. Segmental Analysis
 - 11.1. Global Knee Implant Market by Type
 - 11.1.1. Segment Overview
 - 11.1.1.1. Conventional Knee Implants
 - 11.1.1.2. Smart Knee Implants
 - 11.2. Global Knee Implant Market by Procedure Type
 - 11.2.1. Segment Overview
 - 11.2.1.1. Total Knee Replacement
 - 11.2.1.2. Partial Knee Replacement
 - 11.2.1.3. Revision Knee Replacement
 - 11.3. Global Knee Implant Market by Material
 - 11.3.1. Segment Overview
 - 11.3.1.1. Stainless Steel
 - 11.3.1.2. Titanium Alloys
 - 11.3.1.3. Polyethylene
 - 11.3.1.4. Cobalt-Chromium Alloys
 - 11.3.1.5. Others (Bone cement, etc.)
 - 11.4. Global Knee Implant Market by End Use
 - 11.4.1. Segment Overview
 - 11.4.1.1. Hospitals
 - 11.4.1.2. Ambulatory Service Center
 - 11.5. Global Knee Implant Market by Region
 - 11.5.1. North America
 - 11.5.2. Latin America
 - 11.5.3. Western Europe
 - 11.5.4. Eastern Europe
 - 11.5.5. Asia Pacific
 - 11.5.6. Middle East & Africa
- 12. Regional Analysis
 - 12.1. North America Knee Implant Market Analysis and Forecast 2019-2028
 - 12.1.1. Regional Market Overview and Key Takeaways
 - 12.1.2. North America Knee Implant Market by Type
 - 12.1.3. North America Knee Implant Market by Procedure Type
 - 12.1.4. North America Knee Implant Market by Material
 - 12.1.5. North America Knee Implant Market by End Use
 - 12.1.6. North America Knee Implant Market by Country
 - 12.1.6.1. US
 - 12.1.6.2. Canada
 - 12.2. Latin America Knee Implant Market Analysis and Forecast 2019-2028
 - 12.2.1. Regional Market Overview and Key Takeaways

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- 12.2.2.□Latin America Knee Implant Market by Type
- 12.2.3.□Latin America Knee Implant Market by Procedure Type
- 12.2.4.□Latin America Knee Implant Market by Material
- 12.2.5.□Latin America Knee Implant Market by End Use
- 12.2.6.□Latin America Knee Implant Market by Country
- 12.2.6.1.□Brazil
- 12.2.6.2.□Mexico
- 12.2.6.3.□Rest of Latin America
- 12.3.□Western Europe Knee Implant Market Analysis and Forecast 2019-2028
- 12.3.1.□Regional Market Overview and Key Takeaways
- 12.3.2.□Western Europe Knee Implant Market by Type
- 12.3.3.□Western Europe Knee Implant Market by Procedure Type
- 12.3.4.□Western Europe Knee Implant Market by Material
- 12.3.5.□Western Europe Knee Implant Market by End Use
- 12.3.6.□Western Europe Knee Implant Market by Country
- 12.3.6.1.□Germany
- 12.3.6.2.□UK
- 12.3.6.3.□France
- 12.3.6.4.□Spain
- 12.3.6.5.□Italy
- 12.3.6.6.□Benelux
- 12.3.6.7.□Nordic
- 12.3.6.8.□Rest of Western Europe
- 12.4.□Eastern Europe Knee Implant Market Analysis and Forecast 2019-2028
- 12.4.1.□Regional Market Overview and Key Takeaways
- 12.4.2.□Eastern Europe Knee Implant Market by Type
- 12.4.3.□Eastern Europe Knee Implant Market by Procedure Type
- 12.4.4.□Eastern Europe Knee Implant Market by Material
- 12.4.5.□Eastern Europe Knee Implant Market by End Use
- 12.4.6.□Eastern Europe Knee Implant Market by Country
- 12.4.6.1.□Russia
- 12.4.6.2.□Poland
- 12.4.6.3.□Rest of Eastern Europe
- 12.5.□Asia Pacific Knee Implant Market Analysis and Forecast 2019-2028
- 12.5.1.□Regional Market Overview and Key Takeaways
- 12.5.2.□Asia Pacific Knee Implant Market by Type
- 12.5.3.□Asia Pacific Knee Implant Market by Procedure Type
- 12.5.4.□Asia Pacific Knee Implant Market by Material
- 12.5.5.□Asia Pacific Knee Implant Market by End Use
- 12.5.6.□Asia Pacific Knee Implant Market by Country
- 12.5.6.1.□China
- 12.5.6.2.□Japan
- 12.5.6.3.□India
- 12.5.6.4.□South Korea
- 12.5.6.5.□Australia
- 12.5.6.6.□ASEAN
- 12.5.6.7.□Rest of Asia-Pacific

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- 12.6.□Middle East & Africa Knee Implant Market Analysis and Forecast 2019-2028
 - 12.6.1.□Regional Market Overview and Key Takeaways
 - 12.6.2.□Middle East & Africa Knee Implant Market by Type
 - 12.6.3.□Middle East & Africa Knee Implant Market by Procedure Type
 - 12.6.4.□Middle East & Africa Knee Implant Market by Material
 - 12.6.5.□Middle East & Africa Knee Implant Market by End Use
 - 12.6.6.□Middle East & Africa Knee Implant Market by Country
 - 12.6.6.1.□GCC
 - 12.6.6.2.□South Africa
 - 12.6.6.3.□Turkey
 - 12.6.6.4.□Rest of the Middle East & Africa
- 13.□Competitive Landscape
 - 13.1.□Competition Dashboard
 - 13.1.1.□Global and Regional Market Share Analysis
 - 13.1.2.□Market Structure
 - 13.2.□Competitive Benchmarking
 - 13.3.□Key Strategy Analysis
 - 13.4.□Company Profiles
 - 13.4.1.□Medtronic plc
 - 13.4.1.1.□Company Overview
 - 13.4.1.2.□Product/Service Offerings
 - 13.4.1.3.□Key Financials
 - 13.4.1.4.□Recent Developments
 - 13.4.2.□Zimmer Biomet
 - 13.4.2.1.□Company Overview
 - 13.4.2.2.□Product/Service Offerings
 - 13.4.2.3.□Key Financials
 - 13.4.2.4.□Recent Developments
 - 13.4.3.□ConforMIS
 - 13.4.3.1.□Company Overview
 - 13.4.3.2.□Product/Service Offerings
 - 13.4.3.3.□Key Financials
 - 13.4.3.4.□Recent Developments
 - 13.4.4.□DePuy Synthes
 - 13.4.4.1.□Company Overview
 - 13.4.4.2.□Product/Service Offerings
 - 13.4.4.3.□Key Financials
 - 13.4.4.4.□Recent Developments
 - 13.4.5.□MicroPort Scientific Corporation
 - 13.4.5.1.□Company Overview
 - 13.4.5.2.□Product/Service Offerings
 - 13.4.5.3.□Key Financials
 - 13.4.5.4.□Recent Developments
 - 13.4.6.□Stryker Corporation
 - 13.4.6.1.□Company Overview
 - 13.4.6.2.□Product/Service Offerings
 - 13.4.6.3.□Key Financials

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- 13.4.6.4.□Recent Developments
- 13.4.7.□Exactech Inc.
 - 13.4.7.1.□Company Overview
 - 13.4.7.2.□Product/Service Offerings
 - 13.4.7.3.□Key Financials
 - 13.4.7.4.□Recent Developments
- 13.4.8.□Medacta
 - 13.4.8.1.□Company Overview
 - 13.4.8.2.□Product/Service Offerings
 - 13.4.8.3.□Key Financials
 - 13.4.8.4.□Recent Developments
- 13.4.9.□Aesculap Implants Systems LLC
 - 13.4.9.1.□Company Overview
 - 13.4.9.2.□Product/Service Offerings
 - 13.4.9.3.□Key Financials
 - 13.4.9.4.□Recent Developments
- 13.4.10.□Omnilife Sciences Pvt Ltd
 - 13.4.10.1.□Company Overview
 - 13.4.10.2.□Product/Service Offerings
 - 13.4.10.3.□Key Financials
 - 13.4.10.4.□Recent Developments
- 13.4.11.□Smith & Nephew Plc
 - 13.4.11.1.□Company Overview
 - 13.4.11.2.□Product/Service Offerings
 - 13.4.11.3.□Key Financials
 - 13.4.11.4.□Recent Developments
- 13.4.12.□Johnson & Johnson
 - 13.4.12.1.□Company Overview
 - 13.4.12.2.□Product/Service Offerings
 - 13.4.12.3.□Key Financials
 - 13.4.12.4.□Recent Developments
- 13.4.13.□B Braun Melsungen AG
 - 13.4.13.1.□Company Overview
 - 13.4.13.2.□Product/Service Offerings
 - 13.4.13.3.□Key Financials
 - 13.4.13.4.□Recent Developments

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