

Orthopedic Disposables Market - Global Industry Size, Share, Trends, Opportunity and Forecast, Segmented By Type (Bone Preparation Kits, Pulsed Lavage System, Bone Cement Mixer, Tourniquet System, Suture Retrievers, Positioner Kits, Others), By Application (Trauma, Wound Care, Orthopedic Surgeries), By End User (Hospitals & Specialty Clinics, Ambulatory Surgical Centers, Others), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/OE04DE19364DEN.html>

Date: January 2026

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: OE04DE19364DEN

Abstracts

The Global Orthopedic Disposables Market is projected to expand from USD 71.18 Billion in 2025 to USD 94.79 Billion by 2031, achieving a CAGR of 4.89%. These products consist of sterile, single-use items such as fixation devices, sutures, surgical drapes, and cement mixing systems, all of which are essential for maintaining operational efficiency and patient safety during musculoskeletal surgeries. This market growth is primarily underpinned by the increasing volume of orthopedic procedures, which is driven by a globally aging population and a rising incidence of trauma cases and degenerative joint diseases. This demographic shift creates a continuous need for infection-preventing consumables to support surgical throughput. For instance, the National Joint Registry reported that 263,865 joint replacement procedures were submitted in 2024, illustrating the significant procedural volume that drives the consumption of these disposable supplies.

Despite robust demand, the market encounters a major hurdle regarding waste management and environmental sustainability. The healthcare industry faces growing pressure to lower its carbon footprint, yet the heavy reliance on single-use metal and

plastic instruments creates considerable medical waste. This environmental concern is leading to stricter regulations and a potential transition toward sustainable materials or reusable alternatives. Such a shift could constrain the unrestricted growth of the traditional disposables market as institutions strive to balance clinical effectiveness with ecological responsibility.

Market Driver

The rising prevalence of osteoarthritis combined with a rapidly growing global geriatric population acts as the primary catalyst for the orthopedic disposables market. As degenerative joint diseases become more common among aging demographics, the need for reconstructive surgeries like total hip and knee arthroplasties has intensified, directly boosting the consumption of single-use products such as bone cement mixing systems, surgical drapes, and lavage devices. This surge in procedural volume is confirmed by massive datasets monitored by national bodies; the American Academy of Orthopaedic Surgeons analyzed over 3.7 million hip and knee procedures between 2012 and 2023, reflecting the heavy cumulative burden of joint disease requiring intervention. This high clinical demand drives substantial financial growth for the sector, as noted by Stryker Corporation in January 2025, which reported an 8.9% increase in Orthopaedics net sales for the full year 2024 due to this robust market momentum.

Simultaneously, technological advancements in smart orthopedic sensors and 3D printing are reshaping the market by creating a need for specialized disposables. The integration of robotic-assisted systems and navigational sensors into surgical workflows requires sterile-packed arrays, optical markers, and specific protective draping that must be replaced for every case to ensure sterility and accuracy. These advanced modalities are being adopted rapidly to improve implant alignment and longevity. According to the '2024 American Joint Replacement Registry Annual Report' released in January 2025, robotics were utilized in 15.9% of primary total knee arthroplasties in 2023, an eight-fold increase since 2017. This transition toward high-tech surgical environments increases the volume of disposables used while shifting the market toward higher-value, sensor-integrated consumable units.

Market Challenge

The significant environmental footprint associated with single-use medical products presents a major barrier to the unrestricted growth of the Global Orthopedic Disposables Market. As healthcare institutions encounter increasing societal and regulatory pressure to minimize waste, the dependence on single-use plastics and

metal instruments is increasingly seen as a liability rather than an asset. Hospitals are actively modifying procurement strategies to align with decarbonization goals, which directly limits the volume of new disposable inventory they are willing to purchase. This focus on ecological responsibility compels purchasing departments to reduce their consumption of virgin single-use items, thereby constricting revenue potential for manufacturers that rely solely on traditional disposable sales models.

The magnitude of this shift is evident in the industry's aggressive move toward waste mitigation strategies that reduce the demand for newly manufactured disposables. Reducing carbon output has become a key metric for hospital performance, heavily influencing supply chain decisions. According to the Association of Medical Device Reprocessors, the healthcare sector eliminated 23,076,427 pounds of CO₂ emissions in 2024 through the use of reprocessed single-use devices. This figure highlights a tangible diversion of market share away from new orthopedic disposables. As facilities prioritize these low-carbon alternatives to meet environmental benchmarks, the total addressable market for standard, single-use orthopedic products faces continued stagnation.

Market Trends

The migration of orthopedic procedures to Ambulatory Surgical Centers (ASCs) is reshaping the market landscape as healthcare providers emphasize rapid turnover and cost-efficiency. ASCs, which often operate with more limited sterilization infrastructure than traditional hospitals, increasingly favor procedure-specific kits and single-use sterile instruments to eliminate reprocessing bottlenecks and maximize operating room utilization. This shift accelerates the demand for disposable fixation devices and sterile surgical packs tailored for outpatient settings, where reliable, ready-to-use inventory is essential for maintaining high procedural throughput. Highlighting this trend, Surgery Partners reported in their November 2025 earnings call that total joint surgeries in their ambulatory surgical centers grew by 16% in the third quarter compared to the prior year, underscoring the sustained volume shift driving disposable consumption in these facilities.

Concurrently, the integration of additive manufacturing for patient-specific disposable guides is driving significant market value by offering personalized surgical precision. Manufacturers are using 3D printing technology to create single-use cutting blocks and pin guides derived from patient MRI or CT scans, which enhance implant alignment while removing the need for reusable metal instrumentation. These disposable guides streamline the surgical workflow by reducing the number of required tools and lowering

infection risks, appealing to both surgeons and facility administrators. Medacta International reported in March 2025 that it achieved a 16.2% constant currency revenue growth, a performance explicitly attributed to the robust adoption of its personalized solutions, including 3D-printed patient-matched instrumentation.

Key Market Players

Zimmer Biomet

Smith+Nephew

Medtronic

Stryker

B. Braun Melsungen AG

NuVasive, Inc.

DJO, LLC

Institut Straumann AG

OSSTEM IMPLANT CO., LTD.

Narang Medical Limited

Report Scope

In this report, the Global Orthopedic Disposables Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Orthopedic Disposables Market, By Type

Bone Preparation Kits

Pulsed Lavage System

Bone Cement Mixer

Tourniquet System

Suture Retrievers

Positioner Kits

Others

Orthopedic Disposables Market, By Application

Trauma

Wound Care

Orthopedic Surgeries

Orthopedic Disposables Market, By End User

Hospitals & Specialty Clinics

Ambulatory Surgical Centers

Others

Orthopedic Disposables Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Orthopedic Disposables Market.

Available Customizations:

Global Orthopedic Disposables Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL ORTHOPEDIC DISPOSABLES MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Bone Preparation Kits, Pulsed Lavage System, Bone Cement Mixer, Tourniquet System, Suture Retrievers, Positioner Kits, Others)
 - 5.2.2. By Application (Trauma, Wound Care, Orthopedic Surgeries)
 - 5.2.3. By End User (Hospitals & Specialty Clinics, Ambulatory Surgical Centers,

Others)

5.2.4. By Region

5.2.5. By Company (2025)

5.3. Market Map

6. NORTH AMERICA ORTHOPEDIC DISPOSABLES MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Application

6.2.3. By End User

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Orthopedic Disposables Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By Application

6.3.1.2.3. By End User

6.3.2. Canada Orthopedic Disposables Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Type

6.3.2.2.2. By Application

6.3.2.2.3. By End User

6.3.3. Mexico Orthopedic Disposables Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Type

6.3.3.2.2. By Application

6.3.3.2.3. By End User

7. EUROPE ORTHOPEDIC DISPOSABLES MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By Application
 - 7.2.3. By End User
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Orthopedic Disposables Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By End User
 - 7.3.2. France Orthopedic Disposables Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By End User
 - 7.3.3. United Kingdom Orthopedic Disposables Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Application
 - 7.3.3.2.3. By End User
 - 7.3.4. Italy Orthopedic Disposables Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By Application
 - 7.3.4.2.3. By End User
 - 7.3.5. Spain Orthopedic Disposables Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value

- 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Application
 - 7.3.5.2.3. By End User

8. ASIA PACIFIC ORTHOPEDIC DISPOSABLES MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Application
 - 8.2.3. By End User
 - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Orthopedic Disposables Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By End User
 - 8.3.2. India Orthopedic Disposables Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By End User
 - 8.3.3. Japan Orthopedic Disposables Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Application
 - 8.3.3.2.3. By End User
 - 8.3.4. South Korea Orthopedic Disposables Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Type

8.3.4.2.2. By Application

8.3.4.2.3. By End User

8.3.5. Australia Orthopedic Disposables Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Type

8.3.5.2.2. By Application

8.3.5.2.3. By End User

9. MIDDLE EAST & AFRICA ORTHOPEDIC DISPOSABLES MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Type

9.2.2. By Application

9.2.3. By End User

9.2.4. By Country

9.3. Middle East & Africa: Country Analysis

9.3.1. Saudi Arabia Orthopedic Disposables Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Type

9.3.1.2.2. By Application

9.3.1.2.3. By End User

9.3.2. UAE Orthopedic Disposables Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Type

9.3.2.2.2. By Application

9.3.2.2.3. By End User

9.3.3. South Africa Orthopedic Disposables Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Type

9.3.3.2.2. By Application

9.3.3.2.3. By End User

10. SOUTH AMERICA ORTHOPEDIC DISPOSABLES MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Type

10.2.2. By Application

10.2.3. By End User

10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Orthopedic Disposables Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Type

10.3.1.2.2. By Application

10.3.1.2.3. By End User

10.3.2. Colombia Orthopedic Disposables Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Type

10.3.2.2.2. By Application

10.3.2.2.3. By End User

10.3.3. Argentina Orthopedic Disposables Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Type

10.3.3.2.2. By Application

10.3.3.2.3. By End User

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. GLOBAL ORTHOPEDIC DISPOSABLES MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. Zimmer Biomet
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
- 15.2. Smith+Nephew
- 15.3. Medtronic
- 15.4. Stryker
- 15.5. B. Braun Melsungen AG
- 15.6. NuVasive, Inc.
- 15.7. DJO, LLC
- 15.8. Institut Straumann AG
- 15.9. OSSTEM IMPLANT CO., LTD.
- 15.10. Narang Medical Limited

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

I would like to order

Product name: Orthopedic Disposables Market - Global Industry Size, Share, Trends, Opportunity and Forecast, Segmented By Type (Bone Preparation Kits, Pulsed Lavage System, Bone Cement Mixer, Tourniquet System, Suture Retrievers, Positioner Kits, Others), By Application (Trauma, Wound Care, Orthopedic Surgeries), By End User (Hospitals & Specialty Clinics, Ambulatory Surgical Centers, Others), By Region & Competition, 2021-2031F

Product link: <https://marketpublishers.com/r/OE04DE19364DEN.html>

Price: US\$ 4,500.00 (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/OE04DE19364DEN.html>