

# **Asia Pacific Orthopedic Disposables Market 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 Country, Competition, Forecast & Opportunities, 2028**

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## **Abstracts**

Asia Pacific Orthopedic Disposables Market has valued at USD 1602.38 million in 2022 and is anticipated to project impressive growth in the forecast period with a CAGR of 8.09% through 2028. The Asia-Pacific Orthopedic Disposables market is poised for substantial growth in the foreseeable future. This region has emerged as a prime destination for medical tourism, offering high-quality medical treatments at cost-effective rates. This trend is expected to attract patients from various parts of the world, particularly for orthopedic procedures, thereby increasing the demand for orthopedic disposables. Notably, the National Institute of Health anticipates that the medical tourism sector in Asia will surpass \$14 billion in value in 2022.

Furthermore, continuous innovation in the realm of orthopedic disposables will be a driving force behind market expansion. Innovations such as biodegradable implants, minimally invasive surgical tools, and patient-specific implants are poised to revolutionize orthopedic procedures. These advancements are expected to contribute significantly to market growth during the forecast period, further enhancing the quality and efficiency of orthopedic healthcare in the Asia-Pacific region.

## Key Market Drivers

### Growing Geriatric Population is Driving the Market

The Asia-Pacific region is home to some of the world's most populous countries, including China, India, and Japan. These countries have experienced remarkable economic growth and improved living standards over the past few decades, leading to longer life expectancies and declining birth rates. While this demographic transition reflects social progress, it also brings about a host of healthcare challenges.

According to the World Bank, the proportion of people aged 65 and older in Asia is projected to nearly triple by 2050. Japan, for instance, is already recognized for having majority of the old age population globally, with more than 28% of its citizens aged 65 or older. China and South Korea are following similar demographic trajectories, indicating a significant rise in the aging population across the Asia-Pacific region.

With age comes an increased susceptibility to musculoskeletal issues such as osteoarthritis, fractures, and degenerative bone diseases. These conditions often require medical intervention, ranging from minimally invasive procedures to complex surgeries. As the aging population grows, the demand for orthopedic treatments and devices is poised to surge, subsequently fueling the orthopedic disposables market. Also, older individuals are more likely to have chronic health conditions such as diabetes, cardiovascular disease, and obesity. These conditions can negatively affect orthopedic health by impairing blood flow, reducing tissue healing capabilities, and increasing the risk of complications after orthopedic surgeries.

Aging is a primary risk factor for orthopedic disorders, as wear and tear on joints, bones, and muscles accumulate over time. This creates a substantial demand for joint replacements, fracture fixation devices, and other orthopedic disposables. Over a lifetime, lifestyle factors such as diet, physical activity, and weight management can significantly impact orthopedic health. Poor diet and sedentary behavior can contribute to weight gain, which places added stress on joints and increases the risk of orthopedic problems among the elderly, resulting in the expansion of Asia-Pacific orthopedic disposables market in the projected period.

As information becomes more accessible, especially to the aging population, patients are becoming better informed about their healthcare options. This, coupled with improving healthcare infrastructure, enables patients to seek timely orthopedic care and hence propelling the growth of Asia-Pacific orthopedic disposables market in the

forecast period.

## Rising Sports Injuries in the Region is Driving the Market

The Asia-Pacific region has been witnessing a significant surge in sports-related injuries, propelling the growth of the orthopedic disposables market. As sports and physical activity become increasingly popular across the region, the demand for orthopedic disposable products has risen in tandem. These products play a vital role in the treatment and management of musculoskeletal injuries, providing necessary support and aiding the recovery process.

Countries like China, India, Japan, and South Korea have witnessed a surge in the number of individuals participating in various sports, ranging from traditional activities to modern sports. While this trend promotes a healthier lifestyle, it has also led to an increase in sports-related injuries, and hence the demand for orthopedic disposables is rising, leading to the expansion of Asia-Pacific orthopedic disposables market in the forecast period.

With growing concerns about sedentary lifestyles and health issues like obesity and diabetes, more people are turning to sports and physical activities as a means of improving their overall well-being. Governments and health organizations often promote sports as a way to combat these health challenges.

Factors such as improper training techniques, lack of proper warm-up routines, and inadequate safety measures contribute to the rising incidence of sports injuries. Common injuries include sprains, strains, fractures, and joint dislocations. Such injuries often require medical attention and may necessitate orthopedic disposable products for effective treatment and rehabilitation.

As the prevalence of sports injuries continues to rise, the demand for orthopedic disposables has seen a corresponding increase. Athletes and active individuals rely on these products to ensure a quicker and more effective recovery, enabling them to return to their chosen activities sooner. These products include braces, splints, casts, tapes, and wound dressings. They serve multiple purposes, such as immobilizing injured limbs, providing stability to fractures, reducing pain, and facilitating the healing process.

This growth is driven by both the increasing number of injuries and the advancements in orthopedic disposable technology. Manufacturers are focusing on producing innovative products that offer enhanced comfort, better support, and improved patient outcomes.

## Rising Access to Healthcare is Driving the Market

For decades, access to quality healthcare has been a concern in many parts of the Asia-Pacific region. However, recent years have witnessed substantial progress in improving healthcare infrastructure, facilities, and services. Governments and private entities alike have made substantial investments to bridge the gap between medical services and the general populace. This concerted effort has led to increased healthcare coverage, enabling individuals to seek timely medical attention and diagnosis.

The orthopedic disposables market, which includes a range of products such as orthopedic implants, surgical instruments, and other disposable medical devices used in orthopedic procedures, is reaping the benefits of this improved access to healthcare, which leads to the expansion of Asia-Pacific orthopedic disposables market.

As more people gain access to healthcare facilities, there is a proportional increase in the diagnosis and treatment of orthopedic conditions. The prevalence of musculoskeletal disorders, fractures, and joint-related issues has become more apparent as individuals can now consult medical professionals without significant barriers, hence augmenting the growth of Asia-Pacific orthopedic disposables market. Many Asian countries have invested in healthcare infrastructure, including building new hospitals, clinics, and healthcare centers. This expansion has helped to bring medical services closer to people in both urban and rural areas, making healthcare more accessible.

Improved access to healthcare means that individuals are now more willing and able to undergo surgical interventions to address orthopedic problems. Surgical procedures, which often require orthopedic disposables like implants and instruments, are on the rise due to the increased availability of skilled surgeons and advanced medical equipment. Many countries have taken steps to reduce financial barriers to healthcare by implementing policies such as subsidizing medical expenses for low-income individuals, implementing health insurance programs, and capping out-of-pocket expenses.

The convergence of improved healthcare accessibility and the orthopedic disposables market presents a unique opportunity for manufacturers, investors, and healthcare providers. As demand for orthopedic disposables continues to grow, stakeholders can collaborate to ensure the availability of high-quality products, support medical professionals through training, and contribute to the overall advancement of orthopedic

care in the region, thus expanding the Asia-Pacific orthopedic disposables market.

### Demand for infection control

The demand for infection control measures has been a significant driver behind the growth of the orthopedic disposables market. Infections can have devastating consequences for orthopedic patients, leading to prolonged hospital stays, increased healthcare costs, and even life-threatening complications. Therefore, the importance of infection prevention in orthopedic procedures cannot be overstated. Here's how the demand for infection control is driving the orthopedic disposables market: Infection control measures, including the use of disposable products, are crucial for ensuring patient safety during orthopedic surgeries. Disposable items, such as drapes, gowns, and gloves, help maintain a sterile environment, minimizing the risk of surgical site infections (SSIs) and other complications. SSIs are one of the most common post-operative complications in orthopedic surgery. The use of disposable items, such as sterile drapes and covers, reduces the likelihood of pathogens entering the surgical site, significantly lowering the risk of SSIs. Healthcare regulatory authorities worldwide mandate stringent infection control protocols. Hospitals and surgical centers must adhere to these standards, which often necessitate the use of disposable products to maintain a sterile environment. While disposable products are single-use, they can lead to cost savings in the long run by reducing the need for extensive sterilization processes and potential costs associated with treating post-operative infections.

The rise of minimally invasive orthopedic procedures has heightened the need for infection control. In these procedures, maintaining a sterile environment is crucial due to the limited access and higher risk of contamination. Patients are increasingly aware of the risks associated with infections. They often prefer healthcare facilities that prioritize infection control, driving hospitals and surgical centers to invest in disposable products to meet patient expectations. Disposable products are continually evolving with advancements in materials and design. This innovation improves their effectiveness in infection control, making them more appealing to healthcare providers. Events like the COVID-19 pandemic have underscored the importance of infection control in healthcare settings. Healthcare providers are more conscious of the need for rigorous infection prevention measures, further boosting the demand for disposables.

As the awareness of infection control grows, the orthopedic disposables market has become increasingly competitive. Manufacturers are continually introducing new and improved disposable products to meet the rising demand. The expansion of healthcare infrastructure, including the establishment of new hospitals and surgical centers, has

increased the demand for orthopedic disposables as these facilities prioritize infection control from the outset. In conclusion, the demand for infection control in orthopedic procedures is a critical factor driving the growth of the orthopedic disposables market. These disposable products are essential for maintaining a sterile environment, preventing SSIs, meeting regulatory requirements, and ensuring patient safety, all of which are paramount in modern orthopedic healthcare. As the importance of infection control continues to rise, the market for orthopedic disposables is expected to expand further.

## Key Market Challenges

### Regulatory Compliance

The Asia Pacific region is comprised of numerous countries, each with its own regulatory framework for medical devices. Navigating these diverse and often complex regulations can be challenging for manufacturers. The need to adapt to different sets of requirements, documentation, and approval processes can delay product launches and market entry.

Small and medium-sized enterprises might face greater challenges in meeting complex regulatory requirements due to limited resources. This could discourage innovation and competition because it might be difficult to compete with larger players that have more resources to dedicate to regulatory compliance. Delays in obtaining necessary approvals can hinder a manufacturer's ability to introduce their products in a timely manner, potentially missing out on market opportunities.

### High Cost

The Asia Pacific orthopedic disposables market face a significant challenge in its growth due to the high cost of orthopedic disposables. While the Asia Pacific region is witnessing an increasing demand for advanced medical technologies and procedures, the prohibitive pricing of essential orthopedic disposable products is posing challenges for both healthcare providers and patients.

The cost-intensive nature of orthopedic disposables has led to concerns regarding accessibility and affordability of orthopedic treatments across the region. This situation has particularly impacted emerging economies with limited healthcare budgets and lower per capita income levels, as patients and healthcare facilities struggle to bear the financial burden associated with orthopedic care.

## Distribution and Supply Chain Issues

The Asia Pacific region covers vast geographical distances and diverse landscapes. In remote or rural areas, inadequate transportation infrastructure and poor road networks can lead to delays and difficulties in distributing orthopedic disposables to healthcare facilities.

Maintaining appropriate levels of inventory is crucial to meet the demand for orthopedic disposables without excessive stockpiling. Poor inventory management practices can lead to shortages or overstocking, both of which can hinder market growth.

Inadequate supply chain oversight can lead to the infiltration of counterfeit or substandard orthopedic disposables into the market. These products can compromise patient safety and erode trust in the market.

## Key Market Trends

### Technological Advancements

Advanced technologies allow manufacturers to develop innovative orthopedic disposable products that are more efficient, durable, and patient-friendly. For instance, the use of biocompatible materials, such as titanium alloys in implants, ensures better compatibility with the body, reducing the risk of complications. Technological innovations have led to the development of minimally invasive surgical techniques. These procedures require specialized disposable instruments and tools that enable surgeons to make smaller incisions, resulting in reduced pain, faster recovery, and shorter hospital stays. The demand for disposable kits tailored for these procedures has grown significantly.

### Growing Demand for Eco-friendly Disposables

Manufacturers that offer eco-friendly orthopedic disposables differentiate themselves in the market and gain a competitive advantage. This unique selling proposition appeals to environmentally conscious consumers, including patients, hospitals, and healthcare practitioners. Hospitals and healthcare organizations are increasingly integrating environmental responsibility into their CSR initiatives. Using eco-friendly orthopedic disposables aligns with their commitment to reducing the environmental impact of healthcare activities, making them more likely to opt for such products. The demand for

eco-friendly solutions is driving innovation in the development of new materials and manufacturing processes for orthopedic disposables.

### Growing Demand for Minimally Invasive Procedures

As more patients and healthcare providers opt for minimally invasive procedures, the overall volume of such surgeries is on the rise. This directly drives the demand for specialized orthopedic disposable instruments, tools, and kits designed specifically for these procedures. The adoption of minimally invasive techniques requires training and skill development among surgeons. Disposable simulation models and training kits have become essential tools for teaching and improving proficiency in these specialized procedures.

### Growing Focus on Infection Control

The emphasis on infection control drives the demand for sterile disposable products. Single-use disposable instruments and implants reduce the risk of contamination associated with reprocessing and sterilization of reusable items. Disposable orthopedic products, such as drapes, gowns, gloves, and wound care items, help minimize the risk of cross-contamination between patients. These disposables are used only once and then discarded, ensuring that pathogens are not transferred from one patient to another. The use of disposable products in orthopedic procedures has been associated with lower infection rates. Hospitals and healthcare facilities that prioritize infection control are more likely to invest in high-quality disposable instruments and disposables, driving market growth.

### Segmental Insights

#### Application Insights

The Orthopedic Surgeries segment is positioned as the dominant driver of growth within the Asia Pacific Orthopedic Disposables market throughout the forecast period. This supremacy can be attributed to the escalating demand for Joint Replacement Surgeries, a category that necessitates a wide array of orthopedic disposables, including implants, instruments, and surgical drapes. This upsurge in demand plays a pivotal role in propelling the market's expansion.

Moreover, procedures such as ligament reconstructions and arthroscopic surgeries significantly contribute to the heightened demand for orthopedic disposables within this



segment. Notably, in July 2023, XinRong Medical took a substantial step by placing a significant purchase order for PediGuard devices and making investments in SpineGuard. This strategic move is aimed at augmenting the deployment of DSG technology in China, further adding momentum to the growth of the orthopedic disposables market throughout the forecast period.

## Country Insights

China's dominance in the Asia Pacific Orthopedic Disposables market can be attributed to a combination of demographic, economic, and healthcare factors. Here are some key reasons why China is considered dominant in this market. China's massive population, including a rapidly aging demographic, has led to a substantial increase in orthopedic conditions such as osteoarthritis and fractures. As people age, they become more prone to musculoskeletal problems, driving the demand for orthopedic procedures and disposables. China has made significant investments in its healthcare infrastructure, resulting in the construction of modern hospitals, specialty orthopedic clinics, and surgical centers. These facilities are equipped with advanced medical equipment, including orthopedic disposables, to cater to the healthcare needs of its population. Increasing awareness of the importance of healthcare quality and infection control has boosted the demand for orthopedic disposables in China. Healthcare providers prioritize maintaining sterile environments in surgical settings, necessitating the use of disposable products.

China's emergence as a medical tourism hub has further propelled the Orthopedic Disposables market. The country attracts patients from around the world seeking high-quality orthopedic treatments, including joint replacements and spinal surgeries, which require a range of disposable products. China is a significant manufacturing hub for medical devices, including orthopedic disposables. The presence of local and international manufacturers contributes to the availability and competitiveness of orthopedic disposable products in the market. China's robust economic growth has translated into increased healthcare expenditure, enabling patients to access advanced orthopedic procedures and disposables. In summary, China's dominance in the Asia Pacific Orthopedic Disposables market is a result of its demographic trends, substantial healthcare investments, rising healthcare standards, medical tourism appeal, manufacturing capabilities, and economic prosperity. These factors collectively position China as a pivotal player in the orthopedic disposables sector in the Asia Pacific region.

## Key Market Players

Stryker Pacific Ltd

Zimmer Biomet Pty Ltd

CONMED Corp

Smith & Nephew Healthcare Pte Ltd

B. Braun Medical Pvt. Ltd

STERIS Ltd

Medtronic Corp

Johnson & Johnson Pacific Pty Ltd

Arthrex Ltd.

DeRoyal Industries, Inc

Skytron Ltd

Report Scope:

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

Asia Pacific Orthopedic Disposables Market, By Type:

Bone Preparation Kits

Pulsed Lavage System

Bone Cement Mixer

Tourniquet System

Suture Retrievers

Positioner Kits

Others

Asia Pacific Orthopedic Disposables Market, By Application:

Trauma

Wound Care

Orthopedic Surgeries

Asia Pacific Orthopedic Disposables Market, By End User:

Hospitals & Specialty Clinics

Ambulatory Surgical Centers

Others

Asia Pacific Orthopedic Disposables Market, By Country:

China

India

Japan

South Korea

Australia

Indonesia

Malaysia

Vietnam

Singapore

Thailand

### Competitive Landscape

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

### Available Customizations:

Asia Pacific Orthopedic Disposables Market report with the given market data, Tech Sci 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).

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