

# **Asia Pacific Orthopedic Power Tools Market Segmented By Type (Large Bone Power Tools, Small Bone Power Tools, High Speed Drills), By Technology (Battery-Powered Systems, Pneumatic-Powered Systems, Electric-Powered Systems), By End User (Hospitals & Specialty Clinics, Ambulatory Surgical Centers, Others), By Country, Competition, Forecast & Opportunities, 2028**

<https://marketpublishers.com/r/AE6BC1376B36EN.html>

Date: October 2023

Pages: 132

Price: US\$ 4,400.00 (Single User License)

ID: AE6BC1376B36EN

## **Abstracts**

Asia Pacific Orthopedic Power Tools Market has valued at USD 665.19 million in 2022 and is anticipated to project impressive growth in the forecast period with a CAGR of 6.42% through 2028. The Asia Pacific orthopedic power tools market has witnessed consistent growth, primarily propelled by the rising number of orthopedic surgeries, such as joint replacements, fracture repairs, and spinal procedures. However, this market is experiencing increasing competition, with both local and international medical device manufacturers striving to expand their market share through the introduction of innovative products and the expansion of their distribution networks.

Sustained innovation in orthopedic power tools is expected to be a significant driver of market growth. This encompasses the development of biodegradable implants, minimally invasive surgical instruments, and patient-specific implants, all of which have the potential to revolutionize orthopedic procedures and contribute to market expansion.

It's worth noting that regulatory frameworks and standards for medical devices differ among countries within the region. Manufacturers must navigate these diverse regulations to ensure their products meet the necessary requirements for marketing and

use in specific countries.

## Key Market Drivers

### Enhanced Surgical Procedures are Driving the Market

The field of orthopedic surgery has been revolutionized in recent years by the advent of enhanced surgical procedures and cutting-edge technologies. In the dynamic landscape of the Asia Pacific region, these advancements have not only improved patient outcomes but also sparked substantial growth in the orthopedic power tools market. These tools play a pivotal role in assisting surgeons during procedures, enabling greater precision, efficiency, and reduced patient recovery times. As the demand for enhanced surgical procedures continues to rise, the Asia Pacific orthopedic power tools market is experiencing remarkable expansion.

Orthopedic surgery has witnessed a paradigm shift with the introduction of minimally invasive techniques, computer-assisted surgeries, and robotic-assisted procedures. These advancements have significantly improved patient experiences, allowing for smaller incisions, reduced pain, and faster recovery times. Orthopedic power tools, including drills, saws, reamers, and screwdrivers, have evolved to complement these innovative surgical approaches.

Enhanced surgical procedures facilitated by orthopedic power tools not only reduce surgical times but also contribute to quicker patient recovery. Minimally invasive techniques, enabled by these tools, lead to less tissue damage, decreased blood loss, and lower infection rates. As a result, patients can return to their daily activities sooner, while healthcare facilities can accommodate more cases due to reduced hospitalization periods.

In recent years, orthopedic power tool manufacturers have been investing in research and development to introduce technologically advanced tools. These innovations include enhanced battery life, wireless and cordless options, and improved ergonomics. Furthermore, integration with navigation systems and robotics has elevated the precision and safety of surgical procedures, attracting both surgeons and healthcare facilities to adopt these tools.

The combination of precision, efficiency, and quicker patient recovery times has propelled the demand for orthopedic power tools. With advancements in surgical technology driving the market, the Asia Pacific orthopedic power tools market is

experiencing significant growth, promising a future where surgical precision and patient care go hand in hand.

### Rising Prevalence of Orthopedic Conditions is Driving the Market

The Asia Pacific region is home to a diverse population and a wide range of cultures, economies, and healthcare systems. Over the past few decades, the region has witnessed rapid urbanization and industrialization, leading to significant lifestyle changes. These changes, characterized by sedentary lifestyles, poor dietary habits, and lack of physical activity, have contributed to the growing burden of orthopedic conditions.

Conditions such as osteoarthritis, osteoporosis, fractures, and degenerative spinal disorders are becoming increasingly prevalent. Additionally, an aging population across countries like Japan, South Korea, and China, has amplified the occurrence of age-related orthopedic issues. As per the International Osteoporosis Foundation, It is projected that there will be a 7.6-fold rise in the number of elderly individuals in Asia from 2000 to 2050. In 2000, around 46% of men and 41% of women aged 80 or older globally, were in Asia. This percentage is anticipated to increase to 60% for men and 59% for women by 2050.

Some Asian countries have economies that rely heavily on labor-intensive industries. Jobs that involve heavy lifting, repetitive motions, or poor ergonomics can increase the risk of orthopedic injuries and conditions, augmenting the growth of the market.

Genetic predisposition to certain orthopedic conditions also play a contributing role. Some conditions, like certain types of osteoarthritis, may have a genetic component that is more prevalent in certain populations, leading to the increasing demand for orthopedic power tools. Further, some infectious diseases prevalent in Asia Pacific, such as tuberculosis, can affect bones and joints, leading to orthopedic complications, thus propelling the growth of Asia Pacific orthopedic power tools market.

Rising poor nutrition and lack of exposure to sunlight among the people living in Asia Pacific region, contribute to vitamin D deficiency which leads to weakened bones and increased risk of fractures and other orthopedic problems. This aspect is leading to the tremendously high demand for orthopedic power tools and henceforth is leading to the market expansion in the projected period.

In some regions of Asia Pacific, access to quality healthcare services, including

orthopedic care, may be limited. This can lead to delayed diagnosis and treatment of orthopedic conditions, potentially exacerbating the problems, leading to increasing surgeries, thus expanding the market.

### Rising Road Accidents are Driving the Market

With the swift economic development in the Asia Pacific region, countries have seen a marked increase in vehicular ownership. This has resulted in congested roads, inadequate traffic management, and an overall higher risk of road accidents. The World Health Organization (WHO) estimated that road traffic injuries are a major public health concern in this region, contributing to a significant number of deaths and disabilities each year.

The aftermath of road accidents often leads to severe orthopedic injuries, including fractures, dislocations, and trauma to bones and joints. Such injuries require precise and efficient surgical interventions for proper healing and restoration of function. This is where orthopedic power tools step in, enabling surgeons to perform intricate procedures with greater accuracy and reduced patient trauma.

With the growing demand for advanced healthcare services in the Asia Pacific region, medical facilities are investing in state-of-the-art equipment, including orthopedic power tools. These tools not only save time but also reduce the risk of complications during surgery. Their precision allows for minimally invasive techniques, smaller incisions, and faster recovery times for patients.

The rising incidence of road accidents has not only presented a grim challenge but also an opportunity for the healthcare industry. The Asia Pacific orthopedic power tools market has witnessed substantial growth in recent years due to the surge in orthopedic surgeries, necessitated by road accidents.

Key market players are focusing on developing technologically advanced power tools to cater to the evolving needs of surgeons. These tools are being designed for ergonomic handling, durability, and compatibility with various surgical approaches. Additionally, manufacturers are incorporating features like battery-powered tools, noise reduction mechanisms, and sterile packaging to enhance usability and patient safety.

As the region continues to develop and modernize, the demand for advanced medical equipment, including orthopedic power tools, is poised to grow further. Efforts to address cost concerns, provide adequate training, and promote technological

advancements, will play a pivotal role in shaping the future landscape of orthopedic surgery in the Asia Pacific region.

### Surge in demand for minimally invasive procedures

The surge in demand for minimally invasive procedures is a pivotal driver behind the significant growth of the orthopedic power tool market. Minimally invasive surgery (MIS) techniques have witnessed a meteoric rise in popularity among patients and healthcare professionals alike. These procedures offer numerous advantages, including reduced post-operative pain, shorter hospital stays, quicker recovery times, and smaller incisions, which result in less scarring.

Orthopedic power tools play a crucial role in the success of minimally invasive orthopedic surgeries. They enable orthopedic surgeons to perform intricate tasks with precision, such as bone cutting, drilling, and fixation, through smaller incisions. These power tools are designed to provide control, accuracy, and efficiency in procedures that demand utmost precision.

As the demand for MIS procedures continues to grow due to patient preferences and healthcare advancements, the market for orthopedic power tools experiences a parallel expansion. Surgeons increasingly rely on these tools to enhance their capabilities and minimize surgical complications. Furthermore, ongoing technological innovations in power tool design, such as improved ergonomics and advanced features, further drive their adoption in the orthopedic field. Ultimately, the surge in minimally invasive procedures significantly contributes to the sustained and robust growth of the orthopedic power tool market.

### Key Market Challenges

#### Price Sensitivity and Affordability

The Asia Pacific region is characterized by its economic diversity, with both developed and developing economies. Price sensitivity and affordability are significant factors influencing the adoption of orthopedic power tools in this region. While some countries have well-established healthcare systems capable of procuring high-tech medical devices, others may face budget constraints. Striking a balance between offering advanced technology and ensuring affordability is a delicate challenge for manufacturers in the region. Higher price sensitivity might deter healthcare facilities from adopting innovative technologies and tools, which could slow down the adoption of

new and improved orthopedic procedures.

Moreover, the costs associated with these power tools, along with other related expenses, pose a considerable challenge in the region.

### Training and Skill Gap

While orthopedic power tools enhance surgical precision, they also require skilled professionals to operate them effectively. The shortage of adequately trained orthopedic surgeons and support staff poses a significant challenge. Manufacturers must invest in comprehensive training programs that equip medical professionals with the necessary skills to utilize these tools efficiently. Bridging the skill gap can enhance the adoption of power tools and improve patient outcomes.

The lack of standardized training programs for orthopedic power tools has led to inconsistent skill levels among healthcare professionals. This inconsistency can jeopardize patient safety and compromise surgical outcomes.

### Counterfeit Products and Quality Concerns

Counterfeit medical devices remain a persistent issue in the Asia Pacific region. These substandard products not only jeopardize patient safety but also erode trust in genuine medical devices. Regulatory authorities and industry players need to collaborate to combat the proliferation of counterfeit orthopedic power tools. Ensuring a robust supply chain and implementing stringent quality control measures can mitigate this challenge.

One of the most significant consequences of counterfeit orthopedic power tools is the compromised quality and safety they bring to patient care. Authentic orthopedic power tools are subject to rigorous testing, quality control, and regulatory standards to ensure their effectiveness and safety during surgical procedures. Counterfeit products bypass these essential checks, raising concerns about their performance and durability.

### Key Market Trends

#### Preference for Cordless Power Tools

Cordless orthopedic power tools have gained traction in the Asia Pacific region due to their convenience and flexibility. Surgeons can maneuver more freely during procedures without being hindered by cords, leading to improved efficiency and reduced surgery



times. Moreover, cordless tools are particularly useful in regions with intermittent power supply, as they can be charged in advance and used without interruption. Cordless tools are quick to set up, compared to corded tools that require finding a power outlet and managing cords. This time-saving factor is crucial in emergency surgeries where efficiency is of the essence. Cordless tools contribute to patient comfort by eliminating the need to move patients around, to accommodate power cords.

### Surge in Medical Tourism

Many countries in the Asia Pacific region, such as India, Thailand, and Singapore, have become popular destinations for medical tourism. These countries offer advanced medical treatments at a fraction of the cost in developed nations, attracting patients from around the world. As a result, there is a growing demand for state-of-the-art medical equipment, including orthopedic power tools, to support the increasing number of orthopedic surgeries performed on medical tourists.

### Regulatory Landscape and Market Access

Numerous nations within the Asia Pacific region have been focusing on optimizing their procedures for approving medical devices. As a result, obtaining regulatory authorization for novel orthopedic power tools or enhancements to current ones has become notably more streamlined. This positive development has spurred manufacturers to expedite the introduction of fresh products to the market. Bringing local regulations in line with international standards guarantees that orthopedic power tools produced in the area, adhere to worldwide quality and safety standards. This alignment has the potential to entice global manufacturers to enter the market while encouraging local producers to enhance their product offerings.

### Local Manufacturing and Competition

The Asia Pacific region is home to a diverse range of economies, from highly industrialized nations to emerging markets. This diversity is reflected in the orthopedic power tools market, with a mix of international and local manufacturers. Local manufacturers often strive to provide cost-effective solutions, driving healthy competition in the market. This competition can lead to innovation, as companies work to differentiate themselves through product features and pricing strategies. Proximity to the market can lead to quicker response times, reduced lead times, and better management of inventory. Local manufacturers can more easily navigate and adhere to regional regulatory standards and quality control measures. Furthermore,

manufacturers compete by introducing new and advanced tools that offer better precision, reduced invasiveness, enhanced ergonomics, and improved patient outcomes.

## Segmental Insights

### End User Insights

The orthopedic power tools market is categorized by end users into hospitals & specialty clinics, ambulatory surgical centers, and others. In 2022, hospitals & specialty clinics emerged as the dominant segment, and this trend is anticipated to persist until 2028. This dominance can be attributed to the substantial volume of surgical procedures conducted within hospitals & specialty clinics, particularly orthopedic surgeries.

Hospitals & specialty clinics are the primary settings for orthopedic surgical interventions due to their extensive resources, specialized medical teams, and comprehensive orthopedic services. These healthcare facilities are well-equipped to handle a wide range of orthopedic procedures, making them the preferred choice for patients seeking orthopedic care.

Moreover, the sheer number of orthopedic surgeries performed within these institutions contributes significantly to their dominance in the orthopedic power tools market. The demand for precise and efficient power tools in hospitals & specialty clinics remains consistently high, further solidifying their leading position in the market.

### Country Insights

China holds dominance in the Asia-Pacific orthopedic power tool market due to several key factors. Its vast population, including a growing aging demographic, leads to a high demand for orthopedic procedures. China's robust manufacturing capabilities allow cost-effective production of these tools. Moreover, the country's expanding healthcare infrastructure, including advanced hospitals and specialty clinics, fosters greater use of orthopedic power tools. Additionally, China's technological advancements and innovation in the medical device sector contribute to its leadership. This combination of factors positions China as the foremost player in the Asia-Pacific orthopedic power tool market, catering to both domestic and international demand.

### Key Market Players



Stryker Pacific Ltd

Johnson & Johnson Pacific Pty Ltd (DePuy Synthes Inc)

Zimmer Biomet Pty Ltd

ConMed Corp

Medtronic Corp

Arthrex

B. Braun Medical Pvt. Ltd

Smith & Nephew Healthcare Pte Ltd

GPC Medical Ltd

MatOrtho Australia Pty Ltd

Report Scope:

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

Asia Pacific Orthopedic Power Tools Market, By Type:

Large Bone Power Tools

Small Bone Power Tools

High Speed Drills

Asia Pacific Orthopedic Power Tools Market, By Technology:

Battery-Powered Systems

Pneumatic-Powered Systems

Electric-Powered Systems

Asia Pacific Orthopedic Power Tools Market, By End User:

Hospitals & Specialty Clinics

Ambulatory Surgical Centers

Others

Asia Pacific Orthopedic Power Tools Market, By Country:

China

India

Japan

South Korea

Australia

Malaysia

Indonesia

Vietnam

Singapore

Thailand

Competitive Landscape

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

*Asia Pacific Orthopedic Power Tools Market Segmented By Type (Large Bone Power Tools, Small Bone Power Tools,...*

#### Available Customizations:

Asia Pacific Orthopedic Power Tools 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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