

## **Total Ankle Replacement - Market Insights, Competitive Landscape, and Market Forecast - 2028**

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### **Report description:**

Total Ankle Replacement Market By Design Type (Scandinavian Total Ankle Replacement, Salto Total Ankle Replacement, Box Total Ankle Replacement, Zenith Total Ankle Replacement, Hintegra Total Ankle Replacement, Mobility Total Ankle Replacement, And Others), End-User (Hospitals And Clinics, Specialty Clinics, And Others), and geography is expected to grow at a steady CAGR forecast till 2028 owing to the increasing prevalence of orthopedic diseases and the growing geriatric population across the globe. The global total ankle replacement market is estimated to grow at a CAGR of 6.1% during the forecast period from 2023 to 2028. The demand for total ankle replacement is primarily being boosted by the growing prevalence of osteoarthritis, rheumatoid arthritis, and other orthopedic diseases. The increasing geriatric population base, increasing preference for total ankle replacement (TAR) over ankle fusion, development of efficient and advanced technology, rise in awareness among people, and rising new product launches and approvals, among others, are some of the key factors thereby contributing to the overall growth of the total ankle replacement market during the forecast period from 2023-2028.

Total Ankle Replacement Market Dynamics:

According to the World Health Organization (WHO) 2023, in 2019, 18 million people worldwide were living with rheumatoid arthritis. About 70% of people living with rheumatoid arthritis were women, and 55% were older than 55 years. Arthritis can cause pain and stiffness in any joint in the body and is common in the small joints of the foot and ankle. This condition is expected to increase the demand for ankle replacement due to chronic ankle pain, thereby propelling the overall market growth.

Further, according to WHO 2023, till February 2020, around 20-50 million people suffered from non-fatal injuries, some resulted into bone fracture, and consecutively underwent ankle arthroplasty and other bone surgeries, thereby leading to an increased demand for total ankle replacement devices in the market.

In addition, rising strategic activities such as launches, approvals, acquisitions, and partnerships, by key players will also propel the overall market growth of total ankle replacement in the upcoming years. For instance, in February 2020, the United States Food and Drug Administration approved In2Bones Global Quantum Total Ankle for commercialization. The new total ankle replacement system treats patients who suffer from arthritis and is designed to improve patient mobility, increase stability, and technologically advance implant placement based on patient-specific anatomy. Therefore, the above-mentioned factors are

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contributing to the growth of the total ankle replacement market during the forecast period from 2023-2028.

However, risks associated with total ankle replacement surgery, stringent regulatory procedures, and others may restrict the total ankle replacement market growth.

**Total Ankle Replacement Market Segment Analysis:**

Total Ankle Replacement Market by Design Type (Scandinavian Total Ankle Replacement, Salto Total Ankle Replacement, Box Total Ankle Replacement, Zenith Total Ankle Replacement, Hinteagra Total Ankle Replacement, Mobility Total Ankle Replacement, and Others), End-User (Hospitals And Clinics, Specialty Clinics, and Others), and Geography (North America, Europe, Asia-Pacific, and the Rest of the World)

In the design type segment of the total ankle replacement market, the Hinteagra total ankle replacement category is expected to amass a significant revenue share in the year 2022. This was primarily owing to the advantages and applications offered by the segment.

The HINTEGRA prosthesis is a three-part, non-constrained device that consists of a mobile bearing constructed of ultra-high molecular weight polyethylene, a talar component, and a tibial component that allows for normal flexion-extension mobility as well as axial rotation.

The prosthesis is used for various ankle-related issues such as ankle chronic pain, ankle arthritis, end-stage ankle osteoarthritis, and others.

Hintegra Total Ankle Replacement by Allerga is an example of the study segment. It is a CoCr with double coated surface (porous Titanium and HAP) for optimal bone ingrowth.

Thus, the above-mentioned factors are likely to propel the demand for nanoparticles, thereby contributing to the growth of the Total Ankle Replacement market during the forecast period from 2023-2028.

**North America is expected to dominate the overall Total Ankle Replacement Market:**

Among all the regions, North America is estimated to account for the largest share of the Total Ankle Replacement market in the year 2022. This domination is due to the increasing prevalence of ankle arthritis, and osteoarthritis disorders along with higher demand for total ankle arthroplasty in place of arthrodesis, high awareness among the people regarding ankle treatment, presence of well-established healthcare infrastructure, availability of reimbursements, and high healthcare spending among others will propel the market of total ankle replacement in North America.

For instance, 5.9 million adult Canadians had arthritis in 2020, according to Statistics Canada 2021. Age-related increases in arthritis prevalence are more common in women.

In addition, almost one in four American adults (23.7%), or 58.5 million people, have arthritis as determined by a physician, according to the data from Centers for Disease Control and Prevention (CDC) updated in October 2021. Similarly, the Government of Canada estimates that in September 2020, 374,000 (1.2%) Canadians aged 16 and older have rheumatoid arthritis.

Further, the rising product launches, approvals, and others will propel the market in the region. For instance, in July 2020, Vilex, LLC acquired DT MedTech, LLC along with its product line including Hintermann Series System Total Ankle Replacement (TAR). The TAR system includes the Hintermann Series H3 (H3) 3-piece, mobile-bearing TAR prosthesis. Under this acquisition, DT MedTech continued to manufacture all its products under the DT MedTech Quality System and market its products outside the United States through its existing distribution network, and the Hintermann Series System will be supported in the United States through the sales organization of Vilex.

Also, in December 2022, Enovis Corporation, an innovation-driven medical technology company, announced that the U.S. Food and Drug Administration (FDA) has approved the STAR Patient Specific Instrumentation (STAR PSI System) for use with the Company's STAR total ankle replacement system.

Thus, all the above-mentioned factors will lead to an increase in the North America total ankle replacement market growth during the forecasting period of 2023-2028.

**Total Ankle Replacement Market Key Players:**

Some of the key market players operating in the total ankle replacement market include Zimmer Biomet, Smith & Nephew, Exactech, Inc., Colfax Corporation, VILEX LLC., CONMED Corporation, restor3d., Allegra, Wright Medical Group N.V., Integra LifeSciences, Enovis, and others.

**Recent Developmental Activities in the Total Ankle Replacement Market:**

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- In April 2023, Restor3d received FDA 510(k) clearance for its Axiom patient-specific resection (PSR) system for use with its Kinovision Total Ankle system.
- In January 2021, DJO, LLC acquired Trilliant Surgical, a national provider of foot and ankle orthopedic implants. This acquisition helps the company to expand its portfolio in the foot and ankle replacement market in the United States.
- In November 2020, the Total Ankle and Finger Arthroplasty product lines of Stryker were acquired by DJO LLC, which is a leading global provider of medical technologies.
- In September 2020, Integra LifeSciences Corporation announced that it had entered into a definitive agreement to sell its extremity orthopedic business to Smith & Nephew.

#### Key Takeaways from the Total Ankle Replacement Market Report Study

- Market size analysis for current total ankle replacement market size (2022), and market forecast for 5 years (2023-2028)
- Top key product/services/technology developments, mergers, acquisitions, partnerships, and joint ventures happened for the last 3 years
- Key companies dominating the global Total Ankle Replacement market.
- Various opportunities available for the other competitor in the total ankle replacement market space.
- What are the top-performing segments in 2022? How these segments will perform in 2028.
- Which are the top-performing regions and countries in the current total ankle replacement market scenario?
- Which are the regions and countries where companies should have concentrated on opportunities for total ankle replacement market growth in the coming future?

#### Target Audience who can be benefited from this Total Ankle Replacement Market Report Study

- Total ankle replacement products providers
- Research organizations and consulting companies
- Total ankle replacement-related organizations, associations, forums, and other alliances
- Government and corporate offices
- Start-up companies, venture capitalists, and private equity firms
- Distributors and Traders dealing in Total Ankle Replacement
- Various End-users who want to know more about the total ankle replacement market and the latest technological developments in the total ankle replacement market.

#### Frequently Asked Questions for the Total Ankle Replacement Market:

##### 1. What are total ankle replacement devices?

Total ankle replacement is a type of joint replacement surgery that replaces the damaged parts of the ankle.

##### 2. What is the market for a global total ankle replacement?

The global total ankle replacement market is estimated to grow at a CAGR of 6.1% during the forecast period from 2023 to 2028.

##### 3. What are the drivers for the global total ankle replacement market?

The demand for total ankle replacement is primarily being heightened by the rising prevalence of orthopaedic and arthritis-related disorders, development of efficient and advanced technology, rise in awareness among people, increasing government initiatives across the globe, growing aging population, increase in the adoption of total ankle replacement in emerging economies such as China, India, and others, will create new opportunities for the total ankle replacement market thereby contribute to the overall growth of the total ankle replacement market during the forecast period from 2023-2028.

##### 4. Who are the key players operating in the global total ankle replacement market?

Some of the key market players operating in the total ankle replacement market include Zimmer Biomet, Smith & Nephew, Exactech, Inc., Colfax Corporation, VILEX LLC., CONMED Corporation, restor3d., Allegra, Wright Medical Group N.V., Integra LifeSciences, Enovis, and others.

##### 5. Which region has the highest share in the total ankle replacement market?

North America is expected to dominate the overall total ankle replacement market during the forecast period from 2023-2028. Factors such as the growing prevalence of arthritis, an increasing number of sports-related injuries, access to better healthcare infrastructure, and increasing focus of major market players in the product development and launches in the region among others

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will positively impact the North American total ankle replacement market.

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