

Global Orthopedic Braces & Supports Market - Focused Insights 2025-2030

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Report description:

The global orthopedic braces and supports market is expected to grow at a CAGR of 5.03% from 2024 to 2030.

ORTHOPEDIC BRACES AND SUPPORTS MARKET NEWS & VENDORS ACTIVITIES

- In 2025, Icarus Medical Innovation one of the companies that pioneered orthopedic bracing technology launched a new Adonis Knee brace with new joint-distraction technology to provide targeted joint unloading for patients with lateral and medial osteoarthritis.
- In January 2024, Enovis one of the leading companies in orthopedic braces announced that its DJO, LLC subsidiary launched an advanced knee brace - DonJoy ROAM for patients with osteoarthritis.
- In May 2024, Nea International bv/Push Sports launched a new product line of 8 sports braces, including the Kicx Ankle Brace for football. These products are developed from ultra-thin and comfortable materials.
- In May 2024, McDavid a leading company in sports medicine and protective solutions launched a new NRG Braces product that featured Spring Hinge Joint Assist Technology. This product reduces stress on the knee by up to 25%.

KEY TAKEAWAYS

- By Product: The knee braces and supports segment held over 35% of the market share, driven by the high prevalence of knee injuries across all age groups globally.
- By Type: The hinged segment shows the highest growth of 5.31% during the forecast period. Hinged orthopedic braces offer stability with controlled movement, mainly for knee injuries and joint conditions.
- By Applications: In 2024, the treatment & post-operative rehabilitation segment accounted for the largest market share, driven by the growing aging population and associated orthopedic conditions and injuries.
- By Age Group: The adult age group segment dominates and holds the largest global orthopedic braces & supports market share. Musculoskeletal diseases are common in adults due to high work demands, sports participation, and regular physical activity.
- By Distribution Channel: The e-commerce segment shows the highest growth during the forecast period. The increasing number

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of internet users is one of the major factors accelerating the segmental growth.

-□By Geography: The North American market accounted for the largest market share. This dominance is driven by the growing burden of orthopedic conditions and associated significant health expenditure and rising sport and unintentional injuries.

-□Growth Factor: The global orthopedic braces & supports market is set to grow due to the growing volume of sports and unintentional injuries and the development of smart orthopedic braces and supports.

ORTHOPEDIC BRACES AND SUPPORTS MARKET TRENDS & DRIVERS

Development of Smart Orthopedic Braces And Supports

The integration of smart technologies in orthopedic braces & supports creating significant market growth opportunities. The development of smart braces and supports is progressively integrating more advanced sensor technologies, including motion sensors, pressure sensors, and temperature sensors. The development and innovation of these smart sensors help to monitor the patient's environmental conditions and physical state in real-time, offering to adjust care measures and instant feedback. In 2024, AOFIT Brace one of the rapidly emerging market players developed a smart orthopedic brace (AOFIT Massaging Knee Brace available as a wearable solution that is designed to offer support and massage therapy to the knee joint. In addition, the company offers a vast portfolio of smart orthopedic braces.

Custom-made and 3D-printed Braces

The orthopedic braces and supports market witnessed for emerging trend of 3D printing technology that has become more popular in recent years. Furthermore, the growing access to patient-specific orthopedic braces and support with 3D printing technology is becoming increasingly common. From patient-specific implants to well-fitting orthotics and prosthetics, 3D-printed devices are becoming standard practice. The rising application of 3D-printing technology to the development of braces offers a range of benefits. 3D printing technologies enable the development of patient-specific and customized braces and supports with lighter weight material, and offer more breathable composite materials, allowing patients to sweat, bathe, and swim while wearing a device. These factors lead to higher compliance and better patient satisfaction.

Growing Volume of Sport And Unintentional Injuries

Worldwide, the growing incidence of sports injuries is accelerating the significant demand for orthopedic braces and support solutions. Sports injuries are highly common among children and young adults. Alone in the US, more than 3 million sports injuries occur annually reported by the National Safety Council Report 2023. The incidence rate of sport-associated injuries is often attributed to a more intense practice of sports at an early stage and a significant level of sports specialization. On the other hand, unintentional injuries are a major burden across the globe. The WHO Report 2024 revealed that unintentional injuries include falls, road traffic crashes, acts of violence, and others. More than 4.4 million deaths occur annually across the world, of these, more than 3 million deaths are associated with unintentional injuries.

Patient Preference For Non-Invasive Therapies For Musculoskeletal Disorder

The global orthopedic care and management industry witnessed a rising preference for non-invasive orthopedic care and management. Orthopedic surgeries are complex and pose severe risk burdens including surgery-related complications, infection, bleeding, and failure of surgeries. Where orthopedic braces and support solutions have become popular as non-invasive therapies for several orthopedic conditions, offering pain relief properties, stability and support, rehabilitation, and rapid recovery from injuries. According to Advanced Orthopedics, New England report 2024 stated that orthopedic bracing is a clinically proven orthopedic non-invasive treatment that offers support and stability to weak or injured bones, muscles, and joints. Furthermore, medical professionals consider that orthopedic braces and support help to prevent further damage and promote faster recovery

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and healing from musculoskeletal injuries.

SEGMENTATION INSIGHTS

INSIGHTS BY PRODUCT

The global orthopedic braces & supports market by product is segmented into knee braces & supports, foot & ankle braces & supports, spine, hip, & back braces & supports, and hand braces & supports. In 2024, the knee braces & supports segment held over 35% of the market share. Knee braces and supports are designed and developed to support the knee and withstand the pressure exerted on the joint. These are medical devices that help stabilize the knee joint and keep it in place. Knee injuries are highly common across all age groups worldwide. Among these injuries, anterior cruciate ligament (ACL) tears and meniscal tears are the most prevalent. Orthopedic braces and supports are commonly used for treating knee ligament injuries, knee sprains, and patellofemoral pain syndrome. These factors collectively indicate a growing burden of knee injuries and an increasing demand for orthopedic braces and support solutions.

-□By Product

- o□Knee Braces & Supports
- o□Foot & Ankle Braces & Supports
- o□Spine, Hip, & Back Braces & Supports
- o□Hand Braces & Supports

INSIGHTS BY TYPE

The global orthopedic braces and supports market by type is categorized into soft & elastic, hard & rigid, and hinged. The hinged segment shows significant growth, with the fastest-growing CAGR of 5.31% during the forecast period. Hinged orthopedic braces are an advanced category of products designed to offer maximum stability while allowing controlled movement. They are most commonly used for knee injuries and certain orthopedic joint conditions. A hinged knee brace can support and stabilize an injured knee, limit movement during recovery from injury or surgery, and help reduce pain and pressure in cases of knee arthritis. There are many variations of hinged knee braces. At a basic level, they can be classified as either rigid or soft. Rigid-hinged orthotic devices are more restrictive than soft ones, providing enhanced joint support.

-□By Type

- o□Soft & Elastic
- o□Hard & Rigid
- o□Hinged

INSIGHTS BY APPLICATIONS

The global orthopedic braces & supports market by applications is segmented into treatment & post-operative rehabilitation and preventive care & compression therapy. In 2024, the treatment & post-operative rehabilitation segment accounted for the largest market share. Orthopedic braces and supports are medical devices commonly used to treat injured or weakened muscles, joints, or bones. They are also widely used in post-operative rehabilitation to provide long-term stability and support for orthopedic injuries. Globally, the growing aging population and the rise in associated orthopedic conditions and injuries are creating a significant demand for care and related services. Additionally, millions of athletes experience sports-related injuries, driving the need for preventive care and orthopedic support solutions. These factors collectively contribute to the growth of the orthopedic braces and support segment. Most orthopedic conditions are painful and can lead to further health complications if not treated properly and promptly. Orthopedic braces are used to address musculoskeletal disorders by properly positioning, correcting,

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supporting, stabilizing, and protecting affected body parts?particularly muscles, joints, and bones?during the healing process.

-□By Application

- o□Treatment & Post-operative Rehabilitation
- o□Preventive Care & Compression Therapy

INSIGHTS BY AGE GROUP

The adult age group segment dominates and holds the largest global orthopedic braces and supports market share. The adult population includes individuals aged 19 and older. Globally, adults are significantly affected by musculoskeletal diseases due to factors such as a larger working population, increased participation in sports, and regular physical and exercise activities. Additionally, this population experiences a substantial burden of orthopedic conditions and related healthcare expenditures, leading to increased demand for care and medical services. Each year, millions of adult athletes report sports-related injuries, further driving the demand for orthopedic braces and supports. These factors collectively contribute to the growth of the orthopedic braces and support segment.

-□By Age Group

- o□Adults
- o□Pediatric

INSIGHTS BY DISTRIBUTION CHANNEL

Based on the distribution channel, the e-commerce segment shows prominent growth, with the highest CAGR during the forecast period. E-commerce channels, including e-pharmacies, online marketplaces, and vendors' own sales websites, are playing an increasingly important role in the distribution of orthopedic braces and supports. One of the major factors driving segmental growth is the rising number of internet users. As internet access expands globally, more individuals are using it to seek health information and make health-related purchases. The rapid growth of e-commerce is supported by the expanding reach of online platforms, effective product branding, and promotional strategies, and their broad appeal across all demographics. Additionally, the shift toward self-diagnosis and self-management?away from traditional doctor-patient interactions?has encouraged consumers to explore and purchase products online. The convenience of online shopping, ease of mail-order trade, and the growing familiarity with distance selling have made e-commerce channels the preferred choice for many consumers purchasing orthopedic braces and supports.

-□By Distribution Channels

- o□Specialty Orthotic & Orthopedic Clinics
- o□Hospital Pharmacies
- o□Offline Pharmacies & Retailers
- o□E-commerce

GEOGRAPHICAL ANALYSIS

North America dominates and holds the largest global orthopedic braces and supports market share. This dominance is driven by the increasing burden of orthopedic conditions, significant healthcare expenditures, and the rising incidence of sports-related and unintentional injuries. In North America, the United States is at the forefront of the orthopedic braces and supports market, largely due to its substantial aging population and the high prevalence of musculoskeletal diseases. Additionally, the large number of athletes and physically active individuals, along with the associated frequency of sports injuries, is contributing to the growing demand for orthopedic braces and supports. Furthermore, the increasing number of accidents,

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traffic-related injuries, and other unintentional trauma cases is further fueling the need for these medical devices.

- North America
 - o□ US
 - o□ Canada
- Europe
 - o□ Germany
 - o□ France
 - o□ UK
 - o□ Italy
 - o□ Spain
- APAC
 - o□ China
 - o□ Japan
 - o□ India
 - o□ South Korea
 - o□ Australia
- Latin America
 - o□ Brazil
 - o□ Mexico
 - o□ Argentina
- Middle East & Africa
 - o□ Turkey
 - o□ Saudi Arabia
 - o□ South Africa

ORTHOPEDIC BRACES AND SUPPORTS MARKET VENDOR INSIGHTS

The global orthopedic braces & supports market report consists of exclusive data on 28 vendors. BREG, Bauerfeind, DeRoyal, Enovis, Ottobock, Ossur, and Tynor are some of the leading companies holding the highest market share in the global orthopedic braces and supports market. These vendors offer high-quality, advanced orthopedic products designed to meet diverse customer needs. Major market players are continuously improving the efficiency of their products and strengthening their market positions. These companies benefit from strong brand recognition and extensive geographical presence across the global market. Moreover, their adoption of various strategies?such as product launches, and new product development using advanced technologies and materials?has intensified market competition. By focusing on innovation and expanding their capabilities, these vendors have successfully increased their revenue share and solidified their leadership in the market.

Key Vendors

- BREG
- Bauerfeind
- DeRoyals
- Enovis
- Ottobock
- Ossur
- Tynor

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Other Prominent Vendors

- 3M
- Advanced Orthopaedics
- ALCARE
- Anatomical Concepts
- Dynatronics
- Elite Orthopaedics
- Frank Stubbs Company
- Hebei Denovo Medical Device
- L&R Group - Lohmann & Rauscher
- Mueller Sports Medicine
- Thuasne Group
- medi
- McDavid
- ORTEC
- Orthosys
- Trulife
- UNITED MEDICARE
- VISSCO REHABILITATION AIDS
- Weber Orthopedic LP. DBA Hely & Weber

KEY QUESTIONS ANSWERED:

1. What is the expected growth of the global orthopedic braces and supports market?
2. What are the factors driving the global orthopedic braces & supports market growth?
3. Which type of orthopedic braces and support product will dominate the market growth?
4. Which region dominates the global orthopedic braces & supports market share?
5. Who are the major players in the global orthopedic braces and supports market?

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