

# Knee Reconstruction Devices - Market Insights, Competitive Landscape and Market Forecast-2026

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## Abstracts

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Knee Reconstruction/Replacement Devices Market By Product Type (Total Knee Arthroplasty Systems, Partial Knee Arthroplasty Systems, And Knee Revision Systems), By Implant Type (Fixed Tibial Bearing Implants, Mobile Tibial Bearing Implants, And Medial Pivot Implants), By Fixation (Cemented And Cementless), By End-User (Hospitals, Orthopedic Clinics, And Others), by geography is expected to grow at a significant CAGR forecast till 2026 due to rising geriatric population along with increase in prevalence of various knee disorders

The global Knee Reconstruction/Replacement Devices Market was valued at USD 7.54 billion in 2020, growing at a CAGR of 4.52% during the forecast period from 2021 to 2026 to reach USD 9.78 billion by 2026. The rise in demand for Knee Reconstruction/Replacement Devices is predominantly attributed to the burgeoning old-age population and the rising prevalence of various knee-associated musculoskeletal disorders such as osteoarthritis, rheumatoid arthritis, psoriatic arthritis, and others. Also, the growing demand for minimally invasive surgeries and technological advancement to improve the efficiency of the products are key market drivers.

Knee Reconstruction/Replacement Devices Market Dynamics:

The knee reconstruction and replacement surgery is intended to repair the damaged tissues and cartilage of the knee joint and restore the function with the help of an artificial implant/prostheses. The increasing geriatric population across the world who are prone to knee pain ailment associated with disorders such as rheumatoid arthritis, psoriatic arthritis, and osteoarthritis, among others is anticipated to surge the demand

for the knee reconstruction procedure and devices during the forthcoming years. According to the United Nation's World Population Ageing 2020 Highlights, globally, there were 727 million persons aged 65 years or over in the world in 2020 and the global number was projected to double, reaching over 1.5 billion in 2050. The growing old-age population is more susceptible to suffer from knee-related musculoskeletal disorders such as arthritis. For instance, according to a study: Global, regional prevalence, incidence and risk factors of knee osteoarthritis in population-based studies by Cui A. et al., published in LANCET in the year 2020, Knee osteoarthritis (OA) was a major cause of disability in the elderly population. Also, as per the data revealed in the study, the global prevalence of knee OA was 16% in individuals aged 15 and over and was 22.9% in individuals aged 40 and over. Correspondingly, there were around 654.1 million individuals (40 years and older) with knee OA in 2020 worldwide. Therefore, the rising prevalence of knee osteoarthritis among the senescent population is projected to propel the global market for knee reconstruction/replacement devices.

Furthermore, integration of Artificial Intelligence (AI) and Robotics in knee replacement surgical procedures to enhance the efficiency of devices along with procedures has been observed in various research studies, and an increase in R&D expenditure along with recent product launches of robotic-assisted solutions for the knee replacement surgeries is likely to boost the global knee reconstruction/replacement devices market. For instance, in July 2021, DePuy Synthes launched the robotic-assisted knee surgery solution "VELYS" in Australia to help hospitals and surgeons improve patient outcomes and advance the sustainability of Australia's healthcare system. VELYS is intended to be used with the company's ATTUNE Knee System for total knee arthroplasty.

However, certain factors such as the dearth of skilled surgeons and the high cost of surgery and devices for knee arthroplasty are the major factor limiting the global demand for Knee Reconstruction/Replacement Devices, especially in developing regions with restricted healthcare expenditure.

**Knee Reconstruction/Replacement Devices Market Segment Analysis:**

Knee Reconstruction/Replacement Devices Market By Product Type (Total Knee Arthroplasty Systems, Partial Knee Arthroplasty Systems, and Knee Revision Systems), By Implant Type (Fixed Tibial Bearing Implants, Mobile Tibial Bearing Implants, and Medial Pivot Implants), By Fixation (Cemented and Cementless), By End-User (Hospitals, Orthopedic Clinics, and Others), and by Geography (North America, Europe, Asia-Pacific, and Rest of the World).

In the Knee Reconstruction/Replacement Devices implant segment, mobile tibial bearing implants are expected to hold the largest market share during the forecasted period. The superior range of motion provided by mobile tibial implants is expected to deliberately surge the market. Moreover, knee implants with a mobile tibial bearing design were developed to reduce polyethylene contact stress by decreasing the increased wear associated with the fixed-bearing design, thus improving joint function. According to a study: Fixed-bearing vs mobile-bearing prostheses for total knee arthroplasty after approximately 10?years of follow-up: a meta-analysis by Hao D. and Wang J. published in the year 2021 in the Journal of Orthopaedic Surgery and Research, the mobile-bearing design have advantages in the revision rates over the fixed-bearing design when the posterior cruciate ligament is substituted. Therefore, such advantages push the demand for the mobile tibial implant segment of the knee reconstruction devices market.

In addition, recent product approvals in knee reconstruction and replacement product portfolio with mobile tibial bearing for enhanced and high-flex mobility are also expected to boost the segmental growth. For instance, in 2019, Fuse Medical launched the Sterizo Total Knee Replacement System, engineered to deliver high flexion across all constraint platforms.

North America is expected to dominate the Overall Knee Reconstruction/Replacement Devices Market:

North America is expected to dominate the overall Knee Reconstruction/Replacement Devices market during the forecast period. This domination is due to the presence of advanced healthcare systems in the region along with an increase in healthcare spending. Moreover, adequate reimbursement policies are the driving factors.

Further, In the United States, the rising obese population has led to an increase in total knee arthroplasties (TKAs) being undertaken in patients with a higher body mass index (BMI). According to CDC 2020 report, in 2017–2018, the age-adjusted prevalence of obesity in adults was 42.4% and the prevalence was highest among adults aged 40-59 as compared to other age groups. Moreover rising cases of musculoskeletal problems such as arthritis, psoriatic arthritis could also surge the demand for knee reconstruction procedures in the region, ultimately increasing the knee reconstruction/replacement devices market growth. For instance, as per the National Psoriasis Foundation/USA 2021 data, more than eight million Americans have psoriasis and an estimated 30% of people with psoriasis also develop psoriatic arthritis.

In addition surge in arthroplasty procedures from the past decade is also projected to increase the market for knee reconstruction and replacement devices in the region. According to the 2020 annual report of the American Joint Replacement Registry, approximately 995,410 total knee arthroplasty procedures were performed whereas 75,489 knee revision arthroplasty was performed between the years 2012-2019. Also, according to the Canadian Joint Replacement Registry 2021, more than 75,000 knee replacements were performed in Canada in 2019–2020.

The presence of key players such as Zimmer, Stryker, DePuy Synthes, among others in the region is also a driving factor for the knee reconstruction/replacement devices market.

Thus, all the aforementioned factors are likely to upsurge the market for Knee Reconstruction/Replacement Devices in the region.

Furthermore, the Asia-Pacific region has the future potential growth for the Global Knee Reconstruction/Replacement Devices. This is due to the improving healthcare infrastructure, increasing per capita healthcare expenditure, rising disposable income, rising old age population coupled with increasing musculoskeletal disorders, and high rate of obesity among the Asian population will also contribute to the knee reconstruction and replacement devices in the region as overweight and obese patients are at an increased risk of knee replacement surgery, respectively, compared to patients with normal weight. According to the Organisation for Economic Cooperation and Development (OECD) 2021, in Asia-Pacific, the obesity rate among children and adolescents varied widely between the high of 16.3% in New Zealand, followed by 14.1% in Brunei Darussalam, and the low of 1.7% and 2.0% in Nepal and India respectively.

**Knee Reconstruction/Replacement Devices Market Key Players:**

Some of the key market players operating in the Knee Reconstruction/Replacement Devices market include Zimmer Biomet, Stryker, Smith & Nephew, DePuy Synthes, Exactech, Inc., Corin, Microport Scientific Corporation, and others.

**Recent Developmental Activities in the Knee Reconstruction/Replacement Devices Market:**

In August 2021, Fuse Medical, Inc. announced FDA 510(k) Clearance of the Sterizo™

Tibial Revision Knee System and PS plus Posterior Stabilized Tibial Insert.

In July 2020, Corin received the US FDA approval for OMNIBotics software update that enables the option to incorporate Unity Knee, total knee implants with robotic-assisted surgery in the U.S. This approval helped the company to strengthen its product portfolio in the U.S.

In May 2020, Smith+Nephew launched its new JOURNEY II Unicompartamental Knee (UK) System. JOURNEY II UK provides a highly personalized approach to partial knee arthroplasty, via a modular, two-tray configuration.

In May 2020, Corin Australia announced a new partnership across New Zealand for orthopedic joint replacement and technology with REM SYSTEMS.

Key Takeaways from the Knee Reconstruction/Replacement Devices Market Report Study

Market size analysis for current market size (2020), and market forecast for 5 years (2021-2026)

The effect of the COVID-19 pandemic on this market is significant. To capture and analyze suitable indicators, our experts are closely watching the Knee Reconstruction/Replacement Devices market.

Top key product/services/technology developments, merger, acquisition, partnership, joint venture happened for last 3 years

Key companies dominating the Global Knee Reconstruction/Replacement Devices Market.

Various opportunities available for the other competitor in the Knee Reconstruction/Replacement Devices Market space.

What are the top-performing segments in 2020? How these segments will perform in 2026.

Which are the top-performing regions and countries in the current market scenario?

Which are the regions and countries where companies should have concentrated on

opportunities for Knee Reconstruction/Replacement Devices market growth in the coming future?

Target Audience who can be benefited from Knee Reconstruction/Replacement Devices Market Report Study

Knee Reconstruction/Replacement Devices providers

Research organizations and consulting companies

Knee Reconstruction/Replacement Devices-related organization, association, forum, and other alliances

Government and corporate offices

Start-up companies, venture capitalists, and private equity firms

Distributors and Traders in Knee Reconstruction/Replacement Devices

Various End-users who want to know more about the Knee Reconstruction/Replacement Devices Market and the latest technological developments in the Knee Reconstruction/Replacement Devices market.

Frequently Asked Questions for Knee Reconstruction/Replacement Devices Market:

1. What are Knee Reconstruction/Replacement Devices?

Knee Reconstruction/Replacement Devices are devices designed to replace cartilage and bone which is damaged from musculoskeletal disease or aging. There are various replacement devices such as total knee arthroplasty systems, partial knee arthroplasty systems, among others.

2. What is the market for Global Knee Reconstruction/Replacement Devices?

Global Knee Reconstruction/Replacement Devices Market was valued at USD 7.54 billion in 2020, growing at a CAGR of 4.52% during the forecast period from 2021 to 2026 to reach USD 9.78 billion by 2026.

3. What are the drivers for Global Knee Reconstruction/Replacement Devices?

The major factors driving the demand for Knee Reconstruction/Replacement Devices are the growing geriatric population coupled with the rising knee associated joint problems, increasing demand for minimally invasive surgeries, and the launch of technically advanced products in the market.

4. What are the key players operating in Global Knee Reconstruction/Replacement Devices?

Some of the key market players operating in the Knee Reconstruction/Replacement Devices market include Zimmer Biomet, Stryker, Smith & Nephew, DePuy Synthes, Exactech, Inc., Corin, Microport Scientific Corporation, and others.

5. What regions have the highest share in Knee Reconstruction/Replacement Devices market?

North America is expected to dominate the overall Knee Reconstruction/Replacement Devices market during the forecast period, 2021-2026. This domination is due to increase joint reconstruction surgeries in the region, the presence of key market players, and adequate reimbursement policies, among others.

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