

Cementless Total Knee Systems (TKS) Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

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Abstracts

The Global Cementless Total Knee Systems Market was valued at USD 4.9 billion in 2024 and is projected to experience robust growth at a CAGR of 6.4% from 2025 to 2034. This growth is fueled by the rising prevalence of osteoarthritis and rheumatoid arthritis alongside an aging population worldwide. Cementless knee systems are increasingly favored due to their exceptional durability, faster recovery times, and reduced risk of complications compared to traditional cemented implants.

The growing incidence of osteoarthritis, particularly among older adults, continues to drive the demand for total knee replacements. As the global population ages, there is an escalating need for advanced and minimally invasive solutions such as cementless systems. These implants offer the advantage of promoting faster bone integration, enhancing long-term stability, and minimizing post-operative risks, making them the preferred choice for both surgeons and patients.

The market is segmented by fixation type into primary fixation and hybrid fixation. Among these, primary fixation leads the segment due to its ability to provide enhanced initial stability and improved osseointegration without the need for bone cement. This approach allows the implant to bond directly with the bone, fostering faster healing and ensuring long-term durability. Technological innovations in surgical tools and techniques have further boosted the adoption of primary fixation systems.

In terms of components, the market is categorized into tibial and femoral components. The tibial component holds a significant market share and is expected to witness steady growth over the forecast period. Its vital role in supporting body weight and maintaining joint stability makes it an essential element in knee replacement systems. Recent

advancements in modular designs have enhanced the performance of tibial components, reducing implant loosening and improving patient outcomes.

The U.S. cementless total knee systems market generated USD 1.8 billion in 2024. This growth is driven by a large aging population, an increasing number of knee replacement surgeries, and advancements in healthcare infrastructure. The focus on achieving better surgical outcomes and reducing recovery times continues to fuel the adoption of cementless systems across the country.

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