ROSA® Knee System
Designed by surgeons for surgeons, the ROSA® Knee System provides objective soft tissue feedback and accurate bone resections, which aim to restore a patient’s natural knee. ROSA Knee collects intra-operative metrics to inform your decision-making and provide data-driven insights, so you can focus on achieving the optimal outcome for each patient.

Combining ZBEdge™ integrated technologies with the clinical heritage of our comprehensive implant systems, Zimmer Biomet is revolutionizing the standard of care.
When compared to a manual TKA group, ROSA Knee was associated with the same complication risk, less pain level, better patient satisfaction and PROMs at 6-month follow-up.\textsuperscript{9}
Surgeon-Centered

ROSA Knee allows you to maintain your current approach, philosophy and surgical technique, including Personalized Alignment™.

Quantify Previously Subjective Information
Factoring in soft tissue balance is not a new concept in knee replacement, but finding the right soft tissue balance with static, traditional instruments is highly subjective. With ROSA Knee, surgeons can objectively measure soft tissue and predictively plan a balanced knee replacement before performing any resections.

Easy to Integrate with Minimal Learning Curve
The initial learning curve for the ROSA Knee System can be achieved in 6–11 cases for operative time and has similar 90-day complication rates with improved implant alignment compared to manual instrumentation in TKA.

Offering an Enhanced TKA Surgical Experience
Total Knee Arthroplasty with robotic surgical assistance results in less physician stress and strain than conventional methods.

Perform a variety of approaches with ROSA Knee:
- Measured Resection
- Gap Balancing
- Hybrid Approach
- Personalized Alignment

ROSA Knee Medical Education
Training and education on the safe and effective use of our products is important as we all work to better the lives of your patients. We’re here for you. With in-person courses, digital events, surgeon-to-surgeon experiences (remote available), virtual reality offerings and on-demand videos, the Zimmer Biomet Institute was developed to provide you with detailed product knowledge to further pursue your goals of maximizing patient outcomes.
Implants Designed to Improve Outcomes

Technologies are only as good as the implants they are used with. ROSA Knee supports our three leading knee brands: NexGen®, Vanguard® and Persona® The Personalized Knee®, including the Persona® OsseoTi® Keel Tibia.

The Persona Knee System is Zimmer Biomet’s most comprehensive primary knee system, incorporating personalized implants, precise instrumentation and proven technology. 12–16

• It’s built on the heritage of our NexGen Knee System, the most widely used and clinically proven total knee system in the world. 17

• Trabecular Metal™ Technology and Vivacit-E® HXPLE Material provide clinically proven solutions to help improve efficiency and implant longevity. 12–16
ACCURATE

Delivers Highly Accurate Resections and Limb Alignment

A recent in vivo study reported that:

- The average difference between the planned and executed resections for all measurements was <1° and <1 mm with standard deviations <1 for each.

- The average difference between planned and executed hip-knee-ankle (HKA) angle was 1.2° ± 1.1°.
Improved Precision and Accuracy Versus Conventional Instrumentation

- ROSA Knee offers surgeons precision and accuracy of resections. In the 2020 Seidenstein et al. study comparing conventional versus robotic instrumentation, 25% of knees were outside of ±3° of the planned alignment when conventional instrumentation was used. However, all robotic cases using the ROSA Knee System were within ±3° of planned alignment.

- Additionally, the system’s live cut values and cut validation features are designed to confirm proper alignment in real time.
Flexible Imaging Options

Based on surgeon preference, ROSA Knee offers both image-based and imageless options for greater flexibility.

- The imageless option eliminates the time for image acquisition and pre-operative plan preparation, can address reimbursement concerns, limit patients’ exposure to radiation and minimize scheduling requirements.

While some surgeons opt for the operational efficiency of working imageless, others appreciate the benefits of utilizing image-based cases with X-Atlas® 2D to 3D Technology. Additionally, X-Atlas Technology has been shown to more accurately predict tibial and femoral component sizes compared with 2D digital templating.7

2D X-rays are submitted to your assigned Personalized Solutions planning expert

X-rays are transformed into a digital, 3D replication of the patient’s anatomy

A plan is created and displayed on the ROSA Knee user interface based on the patient-specific bone model
Reduced Instrumentation

The Efficient Care program and X-Atlas Technology lowers the cost to serve through experienced case planning and unique modular instrument trays that provide you with all the instrumentation you need – while eliminating the instruments you don't.

**POTENTIAL SAVINGS**

FOR EACH CASE

Six Trays

Four Trays
Making the best decision when it matters requires data-driven intelligence.

ROSA Knee, a cornerstone of ZBEdge™ Dynamic Intelligence™, is an integral part of creating a comprehensive view of orthopedic care informed by data.

Meaningful Connections to Unlock Insights

ZBEdge is Dynamic Intelligence with the power to elevate and unlock the full potential of Zimmer Biomet’s cutting-edge suite of integrated digital technologies, robotics and implant solutions.
DATA PRIVACY

AT ZIMMER BIOMET, THE PATIENT IS ALWAYS THE PATIENT, AND NEVER THE PRODUCT.

We accept the responsibility that comes along with the new age of data transformation and we are committed to protecting the patient’s privacy.

Our dedicated teams of privacy professionals work to support Zimmer Biomet’s data protection obligations, data management and use.
References


10. Vanlommel L, Neven E, Anderson MB, Bruckers L, Truijen J. The initial learning curve for the ROSA(R) Knee System can be achieved in 6-11 cases for operative time and has similar 90-day complication rates with improved implant alignment compared to manual instrumentation in total knee arthroplasty. J Exp Orthop 2021; 8(1): 119. Study funded by Zimmer Biomet.


17. Statement based on: 5 million implantations17h 300+ Publications17g 100% Survivorship at 17 Years17l Lowest revision rate17a Benchmark for PROMs17a ODEP rating for CR and PS knees both with and without patella17h Every 96 seconds a patient receives a NexGen knee17i 1 in 5 knees implanted globally is a NexGen Knee17k


17g. Latest ODEP ratings can be found at http://www.odep.org.uk.

17h. 2015 Sales data available at Zimmer Biomet.

17i. EMBASE search: «NexGen» AND «Knee».

17j. EMBASE search: «NexGen» AND «Knee».


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