KneeAlign®

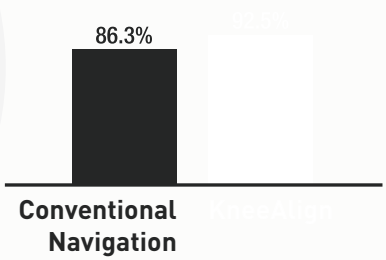
Without the need for external references, KneeAlign uses accelerometers and gyroscopes to continuously calculate the orientation of a cut guide for total knee replacements. By registering the hip center, knee center, and ankle center, KneeAlign provides live-navigation angles for the distal femoral and proximal tibial cuts relative to the mechanical axis.

Live-navigation for distal femur
Live-navigation for proximal tibia
Patient specific approach
Open-implant platform

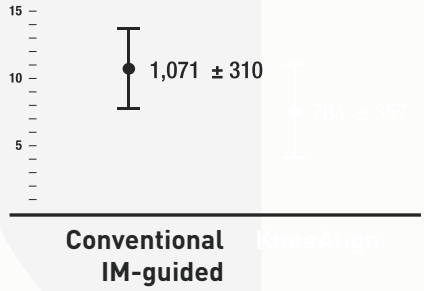
No intramedullary rod
No capital equipment
No pre-operative imaging

	Mean absolute difference between nav and x-ray
Tibia coronal plane[1]	-0.9°±0.8°
Tibia sagittal plane[1]	0.09°±0.7°
Femur coronal plane[2]	0.8°±0.6°

Overall limb alignment within 3° of target[2]



Blood loss (mL) per group[3]



UniAlign®

The benefits and clinically-proven performance of KneeAlign with instruments designed to address the challenges of unicompartmental knee replacement. UniAlign provides a simple solution for accurate and consistent resection of the medial or lateral proximal tibia.

1. Nam, Denis, et al. "Radiographic results of an accelerometer-based, handheld surgical navigation system for the tibial resection in total knee arthroplasty." Orthopedics 34.10 (2011): e615-e621.
2. Nam, Denis, et al. "Accelerometer-based computer navigation for performing the distal femoral resection in total knee arthroplasty." The Journal of arthroplasty 27.9 (2012): 1717-1722.
3. Ikawa, et al, "Usefulness of an accelerometer-based portable navigation system in total knee arthroplasty." The Bone and Joint Journal, August 2017.

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