Why Have a Robotic-Assisted TKA?

Why Choose Robotics?

The use of robotics in total knee arthroplasty (TKA) has increased substantially over the past few years, and in 2023 nearly 16% of TKAs in the United States were robotic-assisted.[1]

The benefits of orthopedic robotics may include:

Accuracy	**Reduced pain after surgery**	**Reduced DVT incidences**
Recovery time	**Infection control**	**Reduced blood loss**
Surgical consistency	**Quality of care**	**Soft tissue preservation**

Why Have a TMINI® Robotic Procedure?

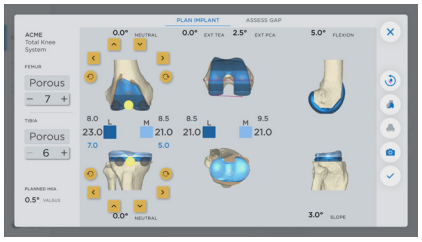
THINK Surgical's TMINI® Miniature Robotic System uses state-of-the-art technologies to help surgeons carry out a robotically-assisted procedure.

The TMINI System includes a handheld, wireless robotic handpiece. Throughout the procedure, the TMINI handpiece operates under the control of your surgeon, who holds it and guides it so that it becomes an intuitive extension of their skill.

How it works:

By opting for a TMINI Robotic Procedure, your surgeon can confidently choose an implant that's right for you and develops a pre-operative surgical plan based on a CT scan of your knee. During surgery, the TMINI System helps your surgeon to accurately and precisely place your knee implant. The accuracy and precision may affect how well and how swiftly you recover, helping you get back to what you love.

Why Have a Pre-operative CT Scan?



Computed tomography (CT) scanning uses X-rays and a computer to create detailed images of your knee. Compared to standard X-rays, CT scans offer greater accuracy and provide additional clinical data, such as identifying arthritic changes and assessing cartilage loss.[2]

For a TKA, a CT scan is used to create an anatomically precise 3D model of your knee, which is then used to develop a detailed pre-operative surgical plan.

CT scans can help visualize the surrounding anatomy of the knee. Additionally, they have been shown to accurately predict prosthetic sizes pre-operatively 99% of the time.[2]

Legal Disclaimer on Surgery and Recovery Speeds
THINK Surgical does not practice medicine; only a licensed physician can provide answers regarding your symptoms, diagnosis and treatment. There is no guarantee that robotic-assisted TKA will result in faster surgery or speed up the recovery process.

References:
1. American Joint Replacement Registry (AJRR): 2024 Annual Report. Rosemont, IL: American Academy of Orthopaedic Surgeons (AAOS), 2024; **2.** Sodhi N *et al.* 2021. *J Knee Surg;* **34(12):** 1296–303.

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