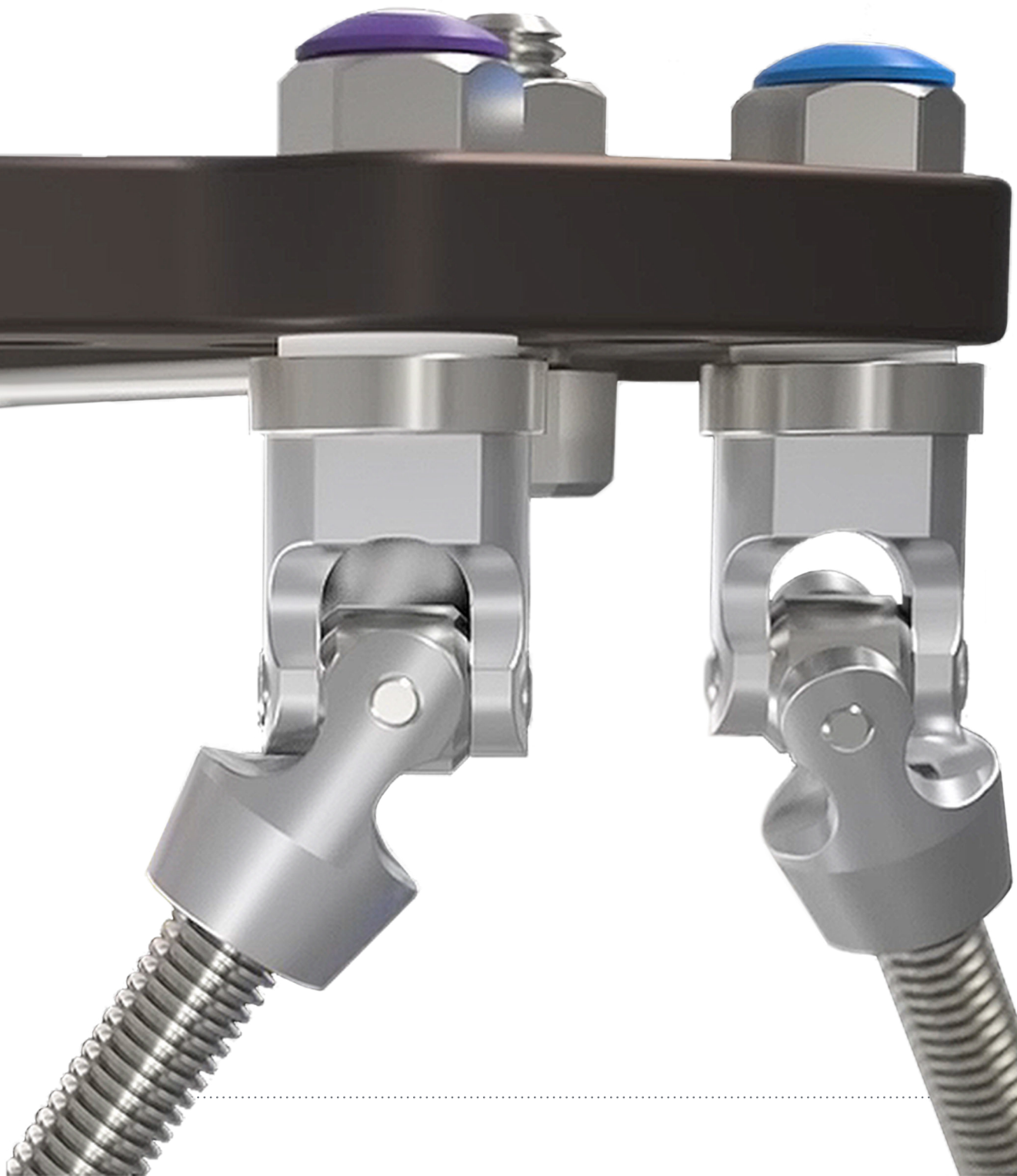
Smith+Nephew

SMART TSF◊

Circular Fixator

+ Still TSF, only smarter.



Building on 20 years of successful clinical outcomes[1]

TAYLOR SPATIAL FRAME◊ has been in clinical use since 1996 and as the first ever software-powered hexapod has become the established gold standard in deformity correction. Smith+Nephew prides itself on being a partner to the Limb Reconstruction surgeon and an innovator in circular fixation technology.

SMART TSF◊ software includes image upload, digital measurements and simulated graphics intended to improve the usability of the program compared to spatialframe.com.[2]

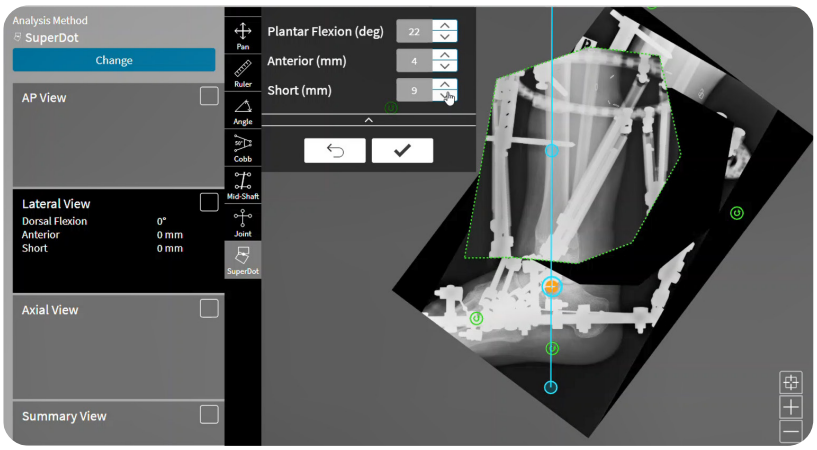
Image detection and automated calculations powered by the Beacon are designed to drive accuracy and efficiency of deformity analysis compared to spatialframe.com.

Improved usability, accurate calculations and efficient corrections have the potential to reduce the time it takes to correct a crooked bone.

The evolution of classic origin and corresponding point methodology

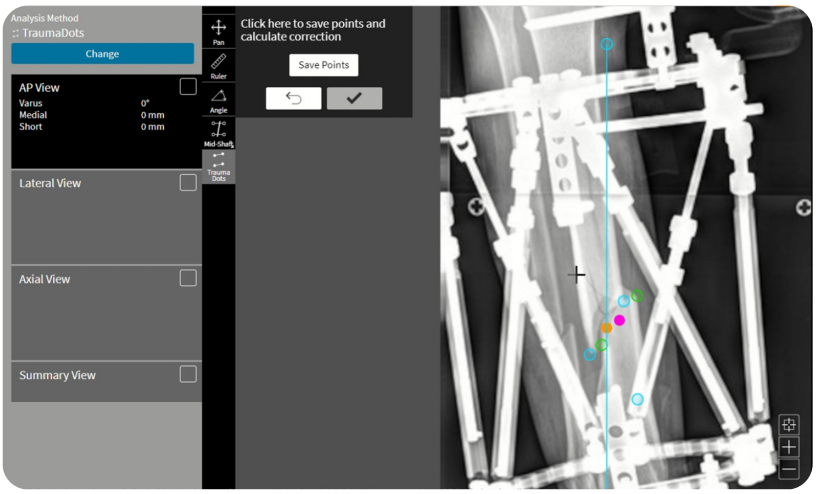
SuperDot

SuperDot is a deformity analysis method that combines the human brain's natural ability for pattern recognition with the orthopedic surgeon's expert ability to visually restore limb alignment. Using uploaded X-ray images, the surgeon digitally cuts the bone to mimic the osteotomy, and corrects the deformity about the axis, using the SuperDot as the hinge.



TraumaDots

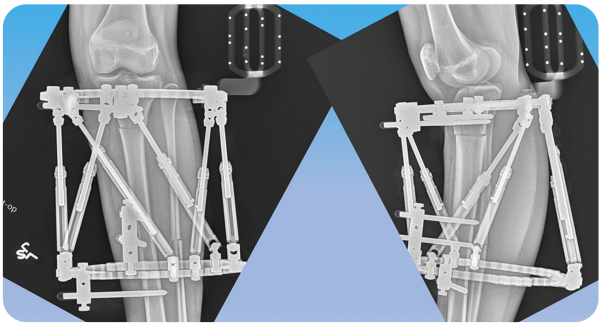
TraumaDots is an extension of the SuperDot philosophy. The Trauma surgeon is accustomed to defining the pieces of a fracture, and reducing them to a straight bone in the operating room. TraumaDots is a digital application of that same concept, allowing the surgeon to define the edge points of two segments and bring one to the other.

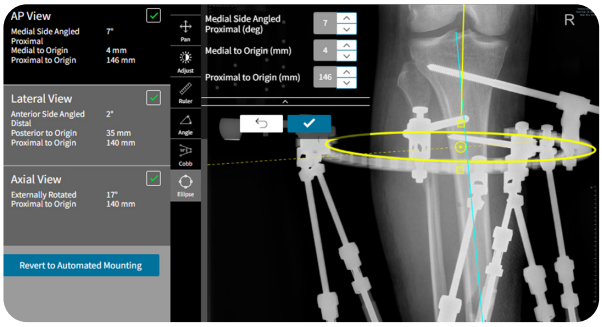


The hexapod with a high IQ

Mounting Parameters are calculated automatically making measurement errors less likely.

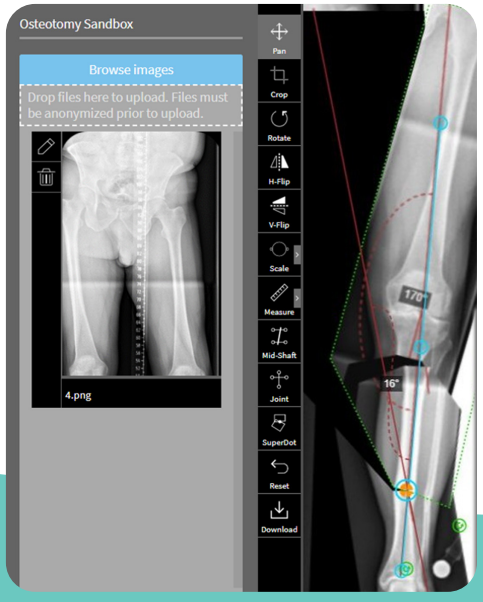
Use the Beacon to scale and calibrate the X-ray images, or Manual Ellipse to define the Reference Ring.





Intra-op mode is a convenient way to keep track of hardware applied at the time of surgery.

Anyone in the OR with a mobile device can create a new case for the surgeon and upload hardware inputs.

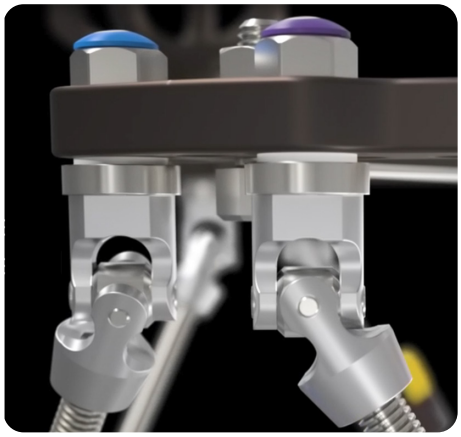


Osteotomy Sandbox allows you to upload pre-operative X-ray images and use SuperDot to plan the osteotomy placement.

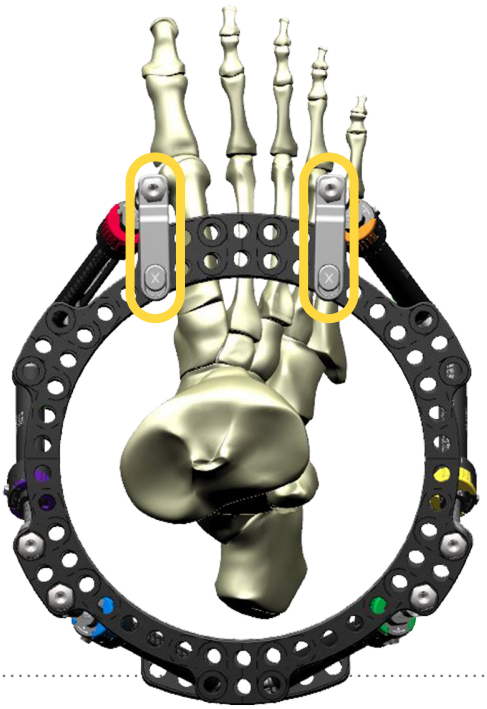
What does smarter look like?

SMART TSF Struts have 0.25mm adjustability, with the option of phasing 1-4 times daily

Set your preferences in the Account Management or tweak as needed per prescription.



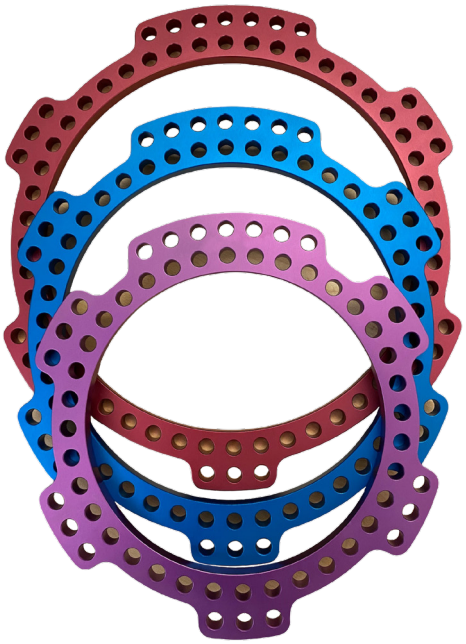
The **SMART TSF Dynamization Kit** provides a means of introducing 1mm of axial micromotion to the construct.



Expanded flexibility with Strut attachment:

- **Custom Strut Mount**
- **Step-Off Plates**

Constructs that reduce hardware constraints are designed to accommodate the anatomy and soft tissue challenges.



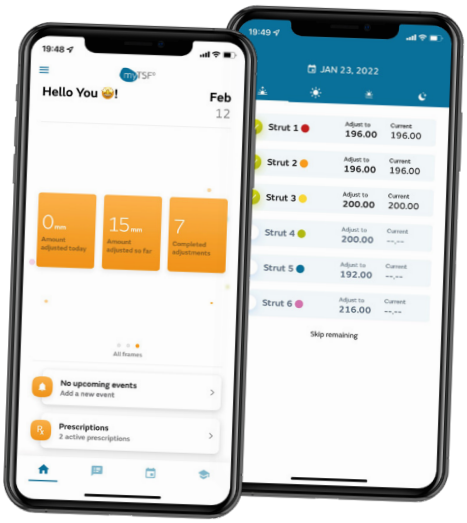
Extensive Hardware options

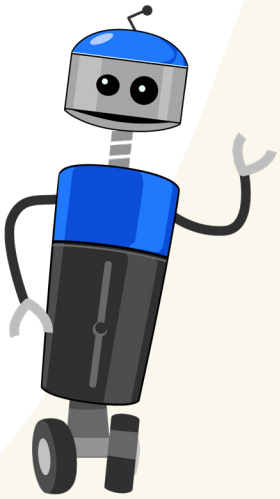
- Rings ranging from 80mm to 300mm in Black, and 105mm to 180mm in three vibrant colors
- Modularity with classic TSF◊ and ILIZAROV™ hardware
- Strut options are designed to meet the unique preferences of surgeons treating fractures, and surgeons correcting around an osteotomy
- Extended HA Coated Pins in 4.5mm and 6mm diameter

Designed with the TSF Patient in mind

Struts are easier to turn, the scale is easier to read, Colored Rings give the patient choice.

Patients can track their progress and manage their adjustment schedules using the **myTSF App**





And for our littlest TSF heroes, meet **HenRI** – the hexapod-enabled nanobot with Real Intelligence who earns rewards with each adjustment.

Still TSF, only smarter.[2]

Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your Smith+Nephew representative or distributor if you have questions about the availability of Smith+Nephew products in your area.

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References
1. Smith+Nephew 2019. Systematic literature review with meta-analysis of TSF clinical effectiveness. Internal report. EO/TRAUMA/TSF/001/v6. **2.** Smith+Nephew 2021. SMART-TSF.com v6.0 Performance by Design. Internal Report.