



How do you define freedom?





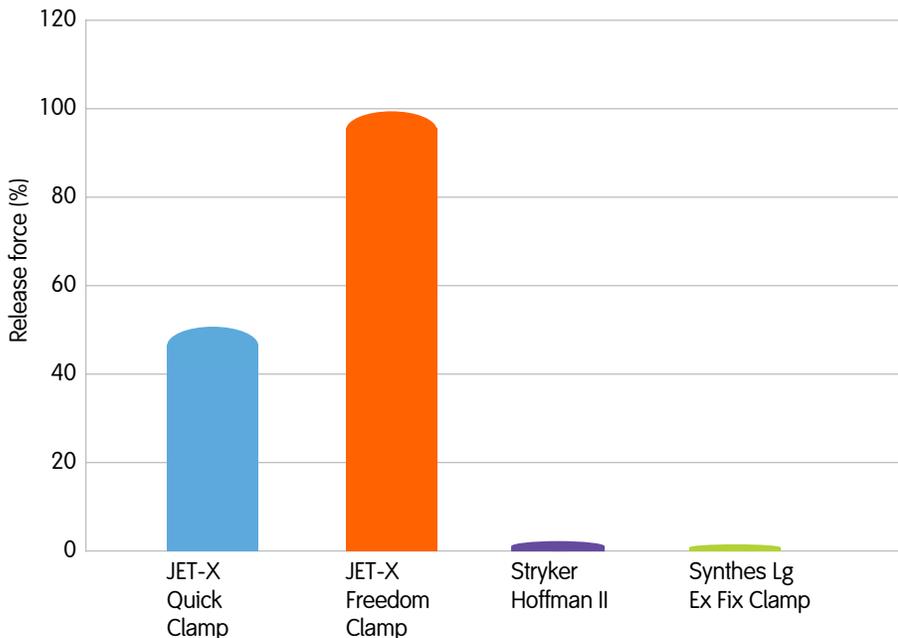
# Freedom of a simple fracture reduction

## Reduce pop-off concerns

Your solution has become 175x easier<sup>1</sup>. The JET-X<sup>®</sup> External Fixation System Bar is **175 times more likely to stay in its clamp**<sup>1</sup> while you are reducing a fracture, when compared to common clam-shell designs. Your days (and nights) of tightening/loosening/retightening are over.<sup>2</sup>

175x  
easier

Comparison of force required to lever a bar out of unlocked (but closed) clamps<sup>2</sup>



## Reduction tool

You have the freedom to **use the frame to manipulate the fracture before final tightening**. The integrity of the cartridge mechanism allows the pin or bar to be captured in the clamp. The clamp, in turn, remains free to rotate and angulate. This allows the frame to perform double duty as a fixation device and as a reduction tool.

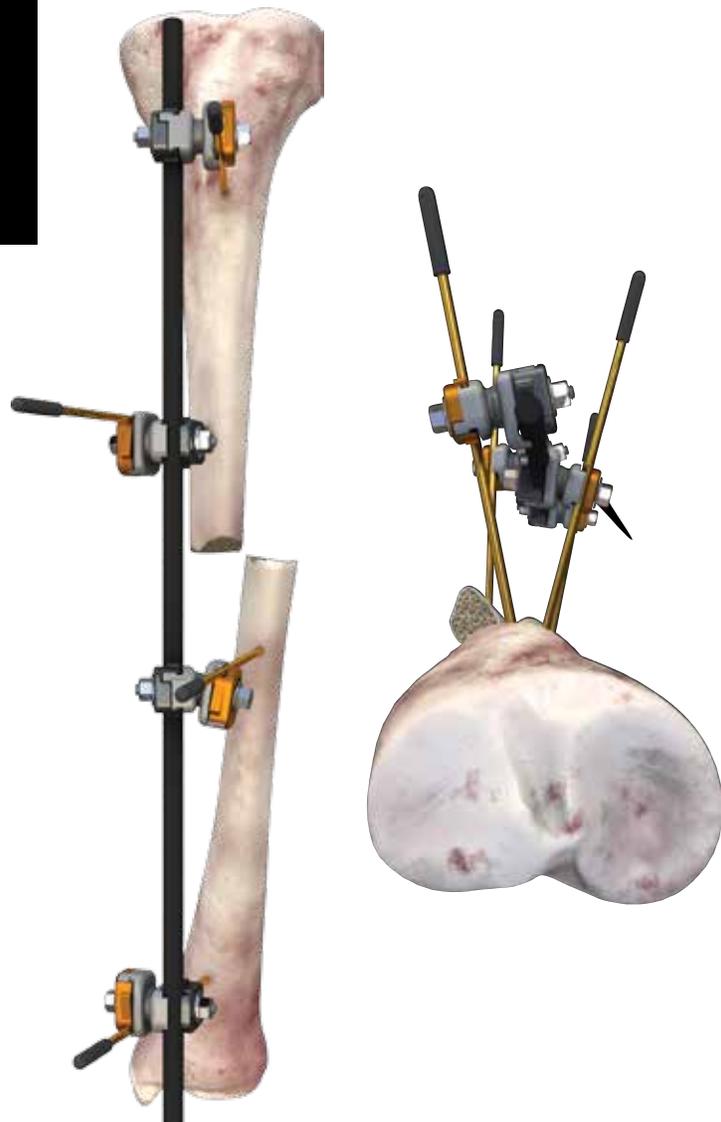


# Freedom to safeguard soft tissue



## Not all fractures are the same

While there are instances where definitive care is effective, if you definitively treat a patient too early, then you increase the risk of that treatment failing. Early temporary stabilization with external fixation provides soft tissue safeguarding, and can lead to better treatment results.<sup>3,4</sup>



## Pin placement

The JET-X<sup>®</sup> External Fixation System enables you to place pins where the injury dictates and not where the fixator dictates. JET-X Quick and Freedom clamps allow for uniplanar or multiplanar configurations – giving you the freedom to quickly construct a safe, stable frame. Pins in multiple planes not only provide more stability, they allow pin placement to be dictated by the soft tissue envelope.

# Freedom of a straightforward procedure

**Multi-pin Clamps** allow for various pin spread options with three post attachments

**Freedom Clamps** improve frame stability by allowing fracture reduction in multiple planes (50° of total angulation)

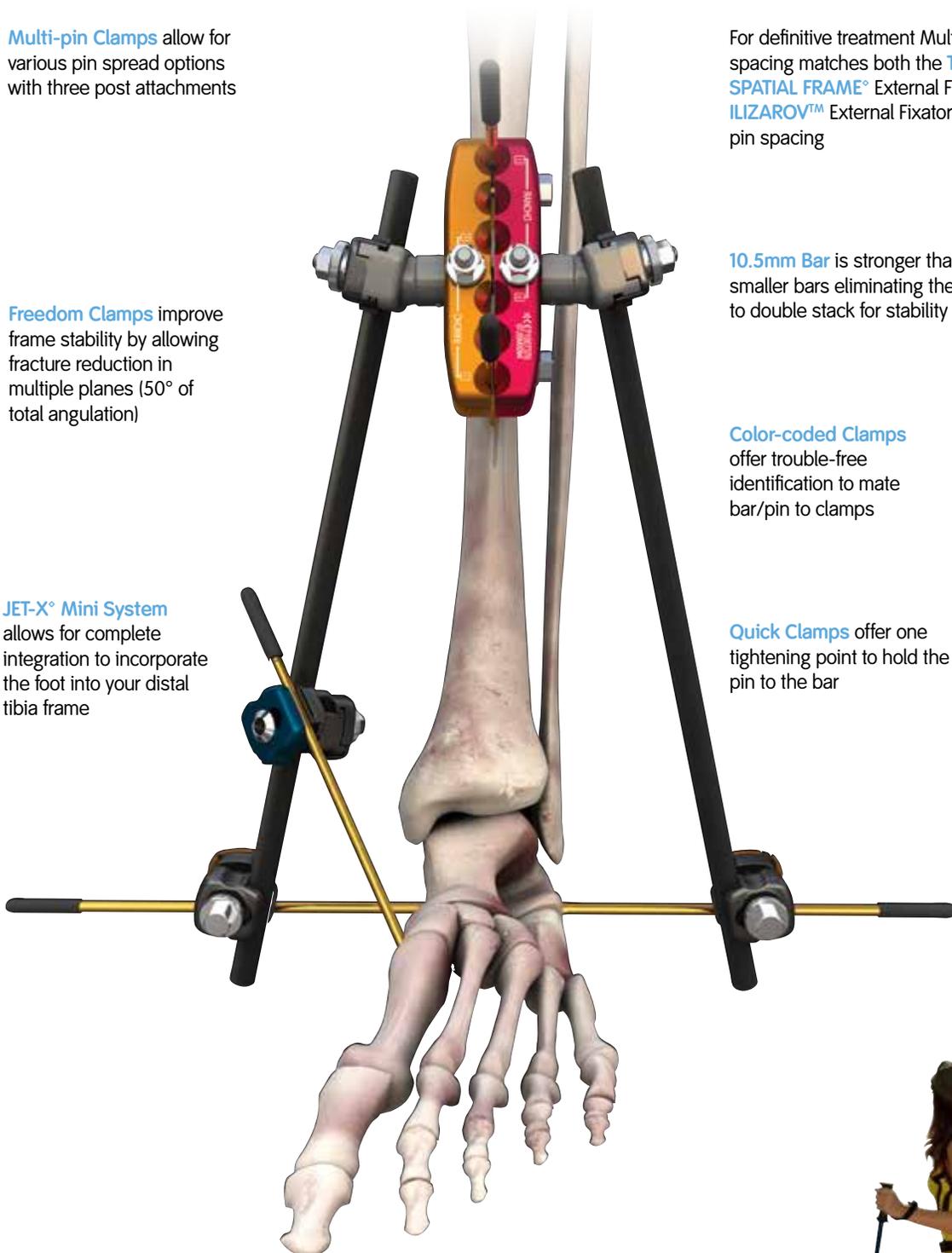
**JET-X° Mini System** allows for complete integration to incorporate the foot into your distal tibia frame

For definitive treatment Multi-pin Clamp spacing matches both the **TAYLOR SPATIAL FRAME°** External Fixator and **ILIZAROV™** External Fixator System pin spacing

**10.5mm Bar** is stronger than smaller bars eliminating the need to double stack for stability

**Color-coded Clamps** offer trouble-free identification to mate bar/pin to clamps

**Quick Clamps** offer one tightening point to hold the pin to the bar



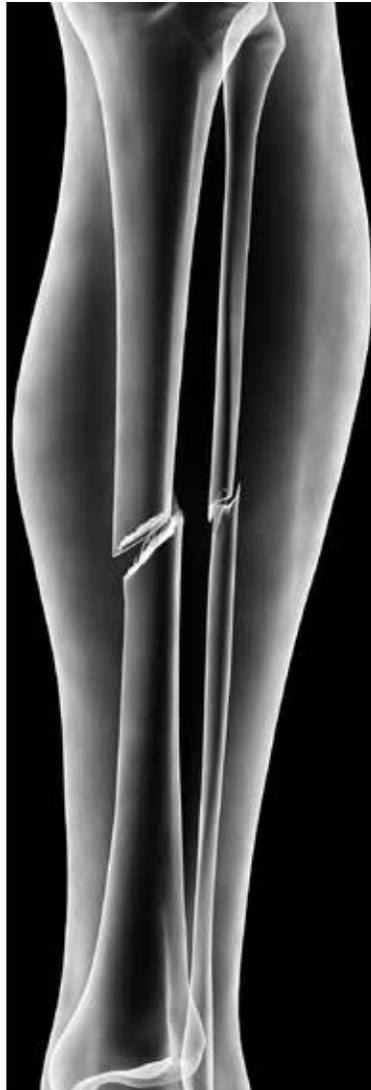
Freedom for your patients  
to return to a normal lifestyle



Have you experienced frustration with **clamps disengaging** during reduction?

How does an **open fracture dictate your pin placement** when using a bar fixator?

Have you been forced to spend extra time **tightening and loosening** clamps **multiple times** during a procedure?



Find your **freedom**:

## JET-X<sup>◇</sup> External Fixation System

**Freedom** of a simple fracture reduction

**Freedom** to safeguard soft tissue

**Freedom** of a straightforward procedure



## References

1. Data on file at Smith & Nephew, OR-08-133A.
2. Soileau, R., Treadway, J. "OR-08-133 – Evaluation of the Release Force Required to Lever External Fixation Bars or Pins out of Locked or Unlocked Holding Clamps," Smith & Nephew Orthopaedic Research Report, August 2008.
3. Watson JT, Moed BR, Karges DE, Cramer KE. Pilon Fractures. Treatment Protocol Based on Severity of Soft Tissue Injury. *Clin Orthop Relat Res.* 2000 Jun; (375):78-90.
4. Fischer MD, Gustilo RB, Varecka TF. The Timing of Flap Coverage, Bone-grafting, and Intramedullary Nailing in Patients who have a fracture of the Tibial Shaft with Extensive Soft-tissue Injury. *J Bone Joint Surg Am.* 1991 Oct; 73(9):1316-22.

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