

TL-HEX PROCALLUS HYBRID SYSTEM

Indicated for **periarticular and articular fractures**

“Closed reduction and stable synthesis of periarticular and articular fractures with hybrid external fixation also allows careful management of the soft tissue injury.”¹

Stable & minimally invasive

Easy access to surrounding tissues

Fracture stabilization
without compromising fragile soft tissue envelope

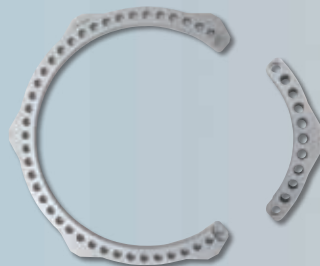
Free wire placement
at multiple levels and angulations prior to ring connection

Versatility and modularity
offered by a comprehensive external fixation system

Procallus suggested sizes:
Short or Standard



Lightweight, partially* radiolucent aluminum rings

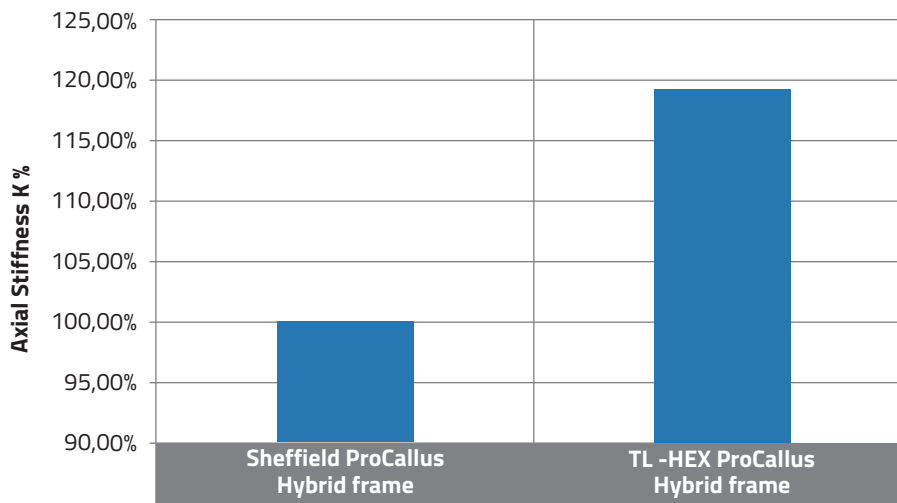


- 5/8 rings and 3/8 rings in 160, 180, 200mm (more sizes available also sterile)
- Low profile, high stability, thickness: 9.5mm
- 1.8mm diameter wires with or without central olive, 400mm length

(*): made of aluminum with higher radiolucency compared to stainless steel

Mechanical tests - axial stiffness

Improved stability for proximal/distal & femur/tibia applications



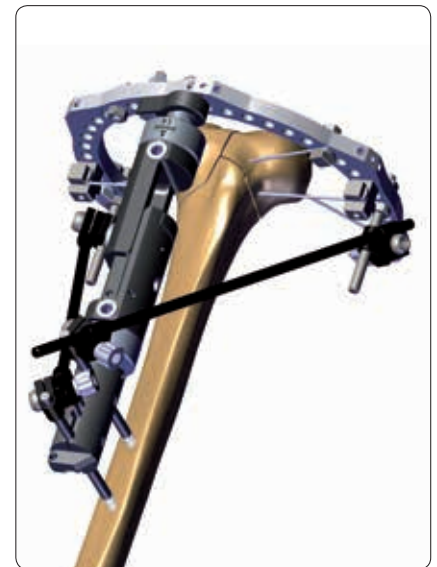
Simple three step approach:



1. Articular reduction and ring application



2. Axial alignment and diaphyseal bone screw insertion



3. Final frame assembly

Reference and further reading

1. Faldini A, Manca M, Marchetti S, Faldini C. Combined Percutaneous Internal Fixation and External Fixation Treatment of C3 Tibial Plateau Fractures: A Review of 43 Cases. 2001. Scientific Exhibit at the 68th AAOS annual meeting.
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3. Babis GC, Evangelopoulos DS, Kontovazenis P, Nikolopoulos K, Soucacos PN. High energy tibial plateau fractures treated with hybrid external fixation. *Journal of Orthopaedic Surgery and Research.* 2011.
4. Babis GC, Kontovazenis P, Evangelopoulos DS, Tsailas P, Nikolopoulos K, Soucacos PN. Distal tibial fractures treated with hybrid external fixation. *Injury.* 2010 Mar;41(3):253-8.
5. Lovisetti G, Agus MA, Pace F, Capitani D, Sala F. Management of distal tibial intra-articular fractures with circular external fixation. *Strat Traum Limb Recon.* 2009; 4:1–6.
6. Faldini C, Manca M, Digennaro V, Leonetti D, Nanni M, Romagnoli M, Biagini C. Combined Percutaneous internal and external fixation of complex tibial plafond fractures. *G.I.O.T.* 2006; 32:33-39.
7. Narayan B, Harris C, Nayagam S. Treatment of high energy tibial plateau fractures. *Strat Traum Limb Recon.* 2006; 1:18-28.
8. El-Shazly M, Dalby-Ball J, Burton M, Saleh M. The use of trans-articular and extra-articular external fixator for management of distal tibial intra-articular fractures. *Injury, Int. J. Care Injured* 32 2001; S-D-99-S-D-106.

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