### **TL-HEX Trauma**

TrueLok Hexapod System™

### Place, Reduce, Lock

- Stable Versatile Simple
- Time saving
  Suitable for DCO
- Beneficial in periarticular fractures



TL-HEX TrueLok Hexapod System® Trauma is indicated for temporary and definitive stabilization of closed and open fractures when majority of fracture reduction can be achieved rapidly



### 9 Place



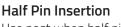
Apply two TL-HEX rings in any desired position

> Secure the rings to the limb with either wires and/or half pins

> > Engage on the ring and partially tighten two quick adjust struts



Wire Insertion Apply three wires for optimal stability



Use post when half pin orientation is oblique to ring plane

### Versatile

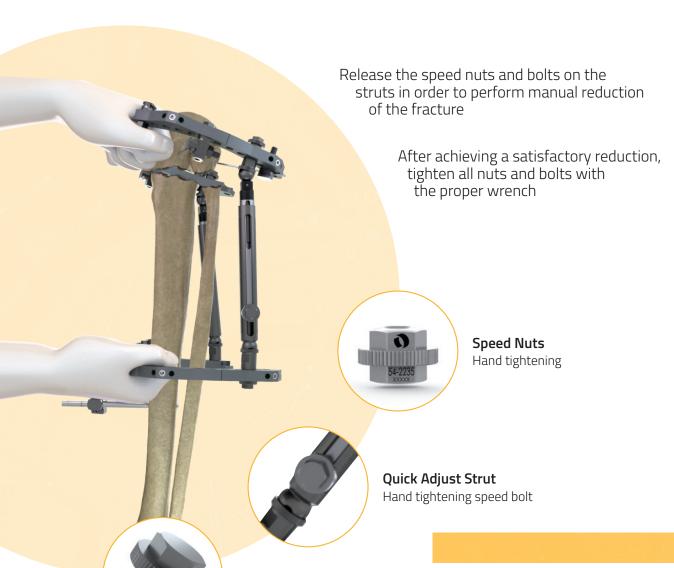
Frame can be mounted with no limitation in shape and components

### Beneficial in periarticular fractures

The application of minimally invasive wires is one effective option with proven outcomes\*

# 3 Steps for Tr

### Reduce



**Speed Bolt**Hand tightening

### Simple

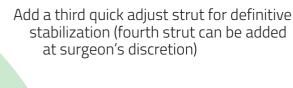
Universal components reduce the number of parts needed in surgery

### Suitable for Damage Control

No instrumentation needed to stabilize reduction, just hand-tightening

## auma Frame

### B Lock



Turn the plastic bushing of the struts if final micrometric adjustment and compression are needed



#### Quick Adjust Strut

Plastic bushing allows micro-adjustments of the total length of the strut

### Stable

Minimum three quick adjust struts needed to guarantee frame stability

### Suitable for Damage Control

Free positioning of quick adjust struts, no specific position on the ring is needed

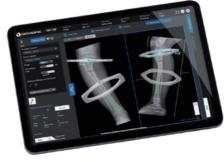
### 写 Convert to hexapod



In case further post-operative reduction is required, add TL-HEX TrueLok Hexapod System struts to the Trauma frame

In case of two 5/8 rings with the opening on the same side, add a 3/8 ring to one of the rings to allow for conversion to the TL-HEX Hexapod frame

Use the TL-HEX software to achieve final reduction



For detailed information, please refer to the complete operative technique (TL-1405-OPT).

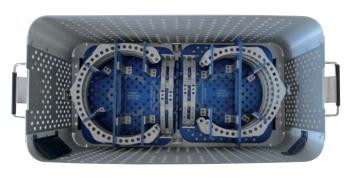
### Time saving

Quick adjust struts don't interfere with hexapod struts: they can be easily mounted on the frame outside the OR, if needed.

#### \*References

- Bycondilar tibial plateau fractures treated with fine wire circular fixation, Ferreira N, Marias L.C.- Strat Traum Limb Recon (2014) 9:25–32.
- High tibial plateau fractures treated with hybrid external fixation, Babis GC, Evangelopoulos DS, Kontovazenitis P, Nikolopoulos K, Soucacos PN – Journal of Orthopaedic Surgery and Research 2011.
- Distal tibial fractures treated with hybrid external fixation, Babis GC, Kontovazenitis P, Evangelopoulos DS, Tsailas P, Nikolopoulos K, Soucacos PN - Injury, 2010 Mar;41(3):253-8.
- Management of distal tibial intra-articular fractures with circular external fixation, Lovisetti G, Agus MA, Pace F, Capitani D, Sala F - Strat Traum Limb Recon (2009) 4:1-6.
- Combined Percutaneus internal and external fixation of complex tibial plafond fractures, Faldini C, Manca M, Digennaro V, Leonetti D, Nanni M, Romagnoli M, Biagini C G.I.O.T. 2006; 32:33-39.
- Treatment of high energy tibial plateau fractures, Narayan B, Harris C, Nayagam S - Strat Traum Limb Recon 2006; 1:18-28.
- The use of trans-articular and extra-articular external fixator for management of distal tibial intra-articular fractures, El-Shazly M, Dalby-Ball J, Burton M, Saleh M - Injury, Int. J. Care Injured 32 (2001) S-D-99-S-D-106.

### **TL-HEX Trauma Tray**







The **TL-HEX Trauma Empty Tray (30110129)** is available\*\* to accommodate all the instruments and implantable material necessary for the surgery, so it is ideal for emergency applications when saving time is a priority.

The **TrueLok Dynamization Module (54-24100)** can be used to dynamize an existing frame towards the end of treatment or at any stage where dynamization of the fracture callus or regenerate is required.

- \*\* Please contact Orthofix for availability.
- \*\*\* Also available single-packed sterile. They can be ordered using the above code number preceded by 99- (e.g. 99-56-21400)

#### Distributed by:



#### 30110129 TRAUMA TRAY EMPTY Description Part # Qty 30110129 Trauma Tray, TL-HEX, empty 1 56-23060 3/8 Ring, 160mm, TL-HEX 2 56-21420 Modular 5/8 Ring, 160mm, TL-HEX 4 56-23080 3/8 Ring, 180mm, TL-HEX 2 56-21440 Modular 5/8 Ring, 180mm, TL-HEX 4 50-10190 TrueLok Plus Long Quick Adjust Strut 6 92050 Transfixing Pin, Thread L 50mm Shaft Ø 4mm, Thread Ø 5mm 54-1215 TL, Wire, W/Stopper, 1.8mm x 400mm 6 54-1216 TL, Wire, Bayonet, 1.8mm x 400mm 7 54-11600 TL+ One Hole Post 3 54-11620 TL+ Three Hole Post 3 54-11640 TL+ Five Hole Post 3 54-11530 TL+ Universal Half Pin Fixation Bolt 4mm - 6mm 15 54-11540 TL 8mm Half Pin Bolt 15 TL, Bolt, Wire Fixation, Universal 54-1152 20 TL, Bolt, 16mm 54-1010 16 TL, Nut, Stainless Steel, 10mm 50-1008 30 54-2235 M6 X 1 Hex, Speednut, TrueLok System 12 17976 Drill Bit, 4.8mm x 180mm OR Drill Bit, 4.8mm x 180mm Tin Coated - Quick Connect 1100101 1



Drill Guide Ø 4.8mm Length 80mm

TL, 90 Degree Tubular Wrench

TL PLUS Wire Tensioner With Tip

TL, Wrench, Combo, 10mm

Universal T-Wrench

For detailed information on available half pins, please refer to PC-XCS and XC-1902-PL flyers.



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54-1139

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