TL-HEX Trauma
TrueLok Hexapod System™

Place, Reduce, Lock

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

ORTHOFIX
ORTHOPEDICS
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.

Step 1 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.

Half Pin Insertion
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 Trauma Frame

Step 2 Reduce

Release the speed nuts and bolts on the struts in order to perform manual reduction of the fracture.

After achieving a satisfactory reduction, tighten all nuts and bolts with the proper wrench.

**Simple**
Universal components reduce the number of parts needed in surgery.

**Suitable for Damage Control**
No instrumentation needed to stabilize reduction, just hand-tightening.

- **Speed Nuts**  
  Hand tightening

- **Quick Adjust Strut**  
  Hand tightening speed bolt

- **Speed Bolt**  
  Hand tightening
After achieving a satisfactory reduction, tighten all nuts and bolts with the proper wrench.

Add a third quick adjust strut for definitive stabilization (fourth strut can be added at surgeon’s discretion).

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.

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.
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).

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

**References**

## TL-HEX Trauma Tray Empty

### Can accommodate:

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>30110129</td>
<td>Trauma Tray, TL-HEX, empty</td>
<td>1</td>
</tr>
<tr>
<td>56-23060</td>
<td>3/8 Ring, 160mm, TL-HEX</td>
<td>2</td>
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<tr>
<td>56-21420</td>
<td>Modular 5/8 Ring, 160mm, TL-HEX</td>
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<tr>
<td>56-23080</td>
<td>3/8 Ring, 180mm, TL-HEX</td>
<td>2</td>
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<tr>
<td>56-21440</td>
<td>Modular 5/8 Ring, 180mm, TL-HEX</td>
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50-10190 TrueLok Plus Long Quick Adjust Strut
92050 Transfixing Pin, Thread L 50mm Shaft Ø 4mm, Thread Ø 5mm
5a-1215 TL, Wire, W/Stopper, 1.8mm x 400mm
5a-1216 TL, Wire, Bayonet, 1.8mm x 400mm
5a-11600 TL+ One Hole Post
5a-11620 TL+ Three Hole Post
5a-11640 TL+ Five Hole Post
5a-11530 TL+ Universal Half Pin Fixation Bolt 4mm - 6mm OR
5a-11540 TL 8mm Half Pin Bolt
5a-1152 TL, Bolt, Wire Fixation, Universal
5a-1010 TL, Bolt, 16mm
50-1008 TL, Nut, Stainless Steel, 10mm
5a-2235 M6 X 1 Hex, Speednut, TrueLok System
17976 Drill Bit, 4.8mm x 180mm OR
1100101 Drill Bit, 4.8mm x 180mm Tin Coated - Quick Connect
11.105 Drill Guide Ø 4.8mm Length 80mm
91150 Universal T-Wrench
5a-2226 TL, 90 Degree Tubular Wrench
5a-1154 TL, Wrench, Combo, 10mm
5a-1139 TL PLUS Wire Tensioner With Tip

### MATERIAL OUT OF THE TRAY

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
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<tr>
<td>5a-2233***</td>
<td>Truelok Plus Speed Bolt Thread 16mm</td>
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<tr>
<td>50-10180***</td>
<td>Truelok Plus Medium Quick Adjust Strut</td>
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<td>56-21400***</td>
<td>Modular 5/8 Ring, 140mm, TL-HEX</td>
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<td>56-21460***</td>
<td>Modular 5/8 Ring, 200mm, TL-HEX</td>
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<td>56-23040***</td>
<td>3/8 Ring, 140mm, TL-HEX</td>
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<td>56-23100***</td>
<td>3/8 Ring, 200mm, TL-HEX</td>
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<tr>
<td>99-56-22020</td>
<td>Double Row Footplate, 140mm, TL-HEX, Sterile</td>
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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.

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

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