

# Knee Hinge (Product Code 53590) - TRAUMA

**1 Knee Hinge Preparation**  
The template is designed to be used with 150, 175, 180mm (TrueLok only); 190 (mm Sheffield only) diameter rings. Remove the template, the ring support and the 5-Hole plate with locking screws and washers. Before applying the Knee Hinge to the ring, ensure that locking screw A is loosened (free hinge movement).

**5-hole Plate**

**Distraction Knob**

**Template**

**Ring Support**

**NB: in the pictures, the red color of the template is only for demonstration purposes and the actual component is grey, as all the other metal components.**

**2 Template Positioning**

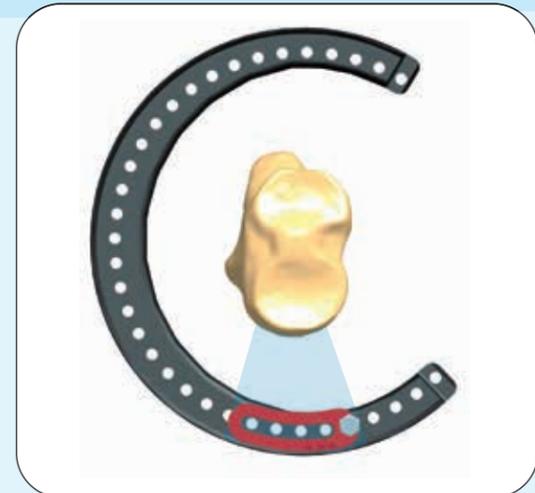
**TrueLok Rings:** 150mm, 170mm, 180mm. **ML**

**Sheffield Rings:** Ring 150mm, hole 3; Ring 175mm, hole 4; Ring 190mm, hole 4.

**2 TrueLok Ring:** align the template marking corresponding to the ring diameter used with the ring Medial Line.  
**Sheffield Ring:** when locking the template, use the 5<sup>th</sup> hole of a 150mm diam. ring or the 4<sup>th</sup> hole of a 175 or 190mm diam. ring.

**4 Knee Hinge Positioning**

**4** Once the tibia has been stabilized with K-wires and/or screws, identify the reference axis of the knee and insert a K-wire. Apply the Knee Hinge over this wire, making sure that locking screw A and B are loosened. According to the limb to be treated, the LEFT or RIGHT writing should face the surgeon.



The template ensures that bone screws or wires are not inserted in the area where the Knee Hinge is positioned.

**3 Tibial Stabilisation**

**3** For tibial stabilisation, please refer to Manual 12B for Sheffield or TL-1001-OPT for TrueLok Ring Fixation System.

**5**

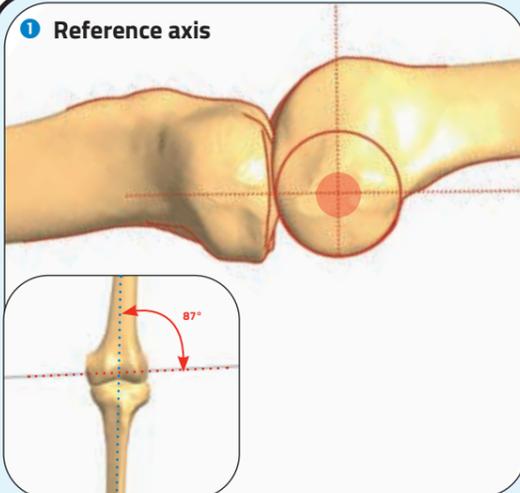
**5 Sheffield Ring:** remove the template before applying the Knee Hinge.  
**TrueLok Ring:** apply the Knee Hinge over the template, which will increase the height and allow complete locking of the Knee Hinge with the bolts.

**6 Femoral Screws Insertion**

**6** Insert the rail and with a straight clamp. Insert 2 wire guides and K-wires. Remove the reference wire. Check flexion-extension of the knee in both planes under image intensification. Insert the femoral screws.

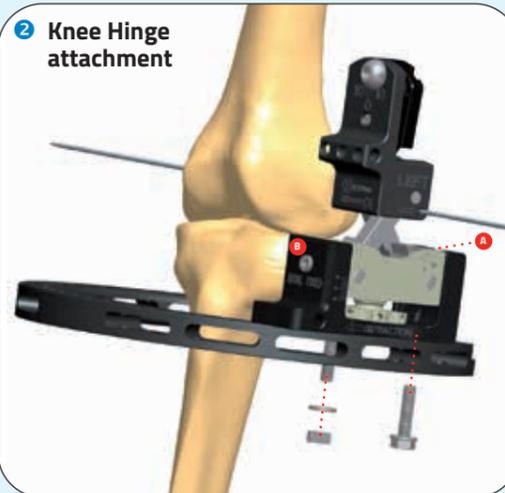
# KNEE DISLOCATION

**1 Reference axis**



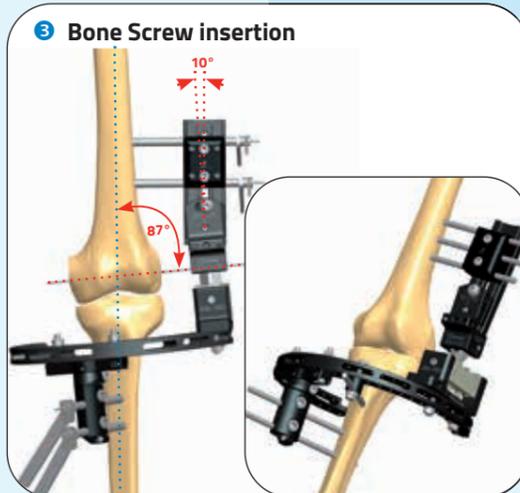
**1** Insert a K-wire in the reference axis.

**2 Knee Hinge attachment**



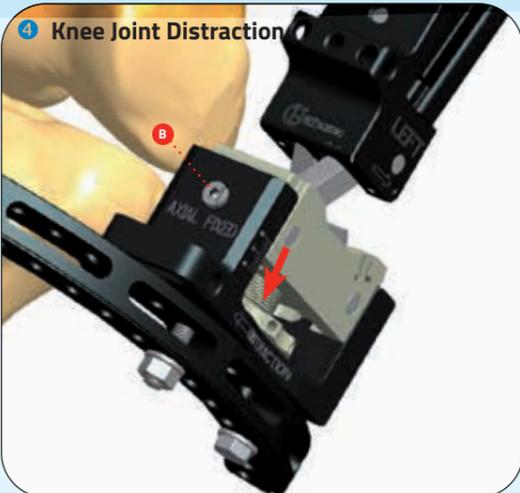
**2** Apply the Knee Hinge over this wire, making sure that locking screw A and B are loosened. According to the limb to be treated, the LEFT or RIGHT writing should face the surgeon.  
**Sheffield Ring:** attach the Knee Hinge directly to the ring.  
**TrueLok Ring:** attach the Knee Hinge directly to the ring using ADV TrueLok Kit for ring connection (53034).

**3 Bone Screw insertion**



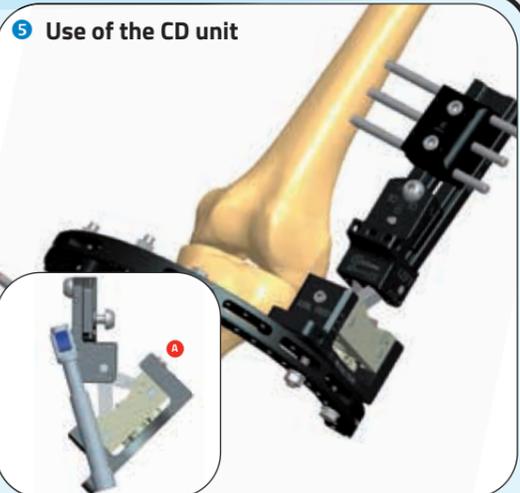
**3** Insert the rail with a straight clamp. Insert 2 wire guides and K-wires. Attach a Sheffield Clamp to the ring on the medial aspect of the tibia and insert 2 wire guides and k-wires. Remove the reference wire. Check flexion-extension of the knee in both planes under image intensification. Insert the bone screws.

**4 Knee Joint Distraction**



**4** Distraction of the knee joint is possible by turning the distraction knob.

**5 Use of the CD unit**



**5** The range of motion of the knee can be increased by using the compression-distraction unit.

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