

# Knee Hinge (Product Code 53590) - TRAUMA

**1 Knee Hinge Preparation**  
The template is designed to be used with 150, 175, 180 mm (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).

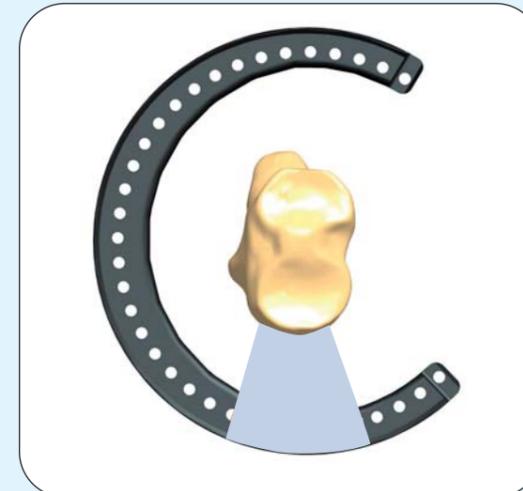
**NB:** in the pictures, the red color of the template is only for demonstration purposes and the actual component is grey, as all the other metal components.

**2 Template Positioning**

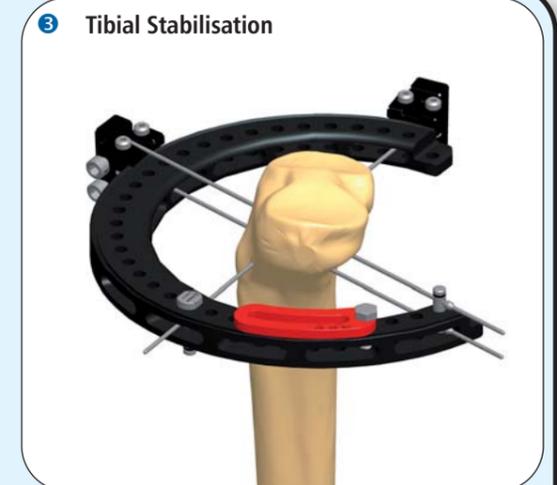
TrueLok™ Rings: 150 mm, 170 mm, 180 mm (all labeled ML)

Sheffield Rings: Ring 150 mm, hole 3; Ring 175 mm, hole 4; Ring 190 mm, 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 150 mm diam. ring or the 4<sup>th</sup> hole of a 175 or 190 mm diam. ring.



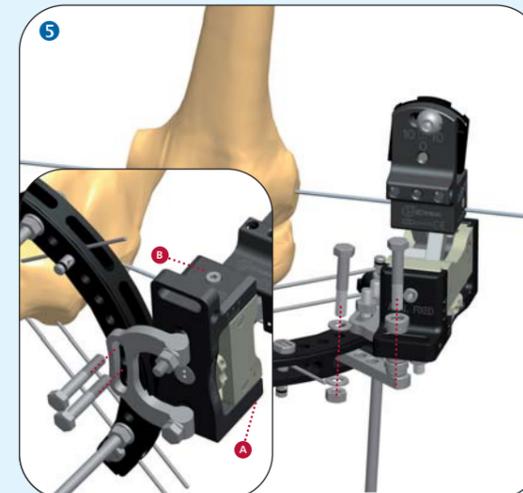
The template ensures that bone screws or wires are not inserted in the area where the Knee Hinge is positioned.



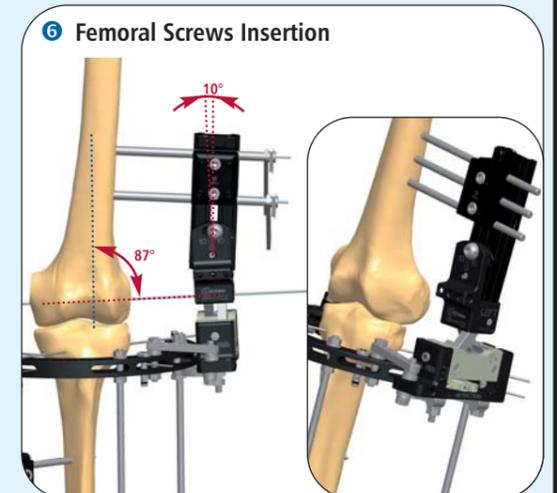
**3** For tibial stabilisation, please refer to Manual 12B for Sheffield or TL-1001-OPT for TrueLok™ Ring Fixation System.

**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.

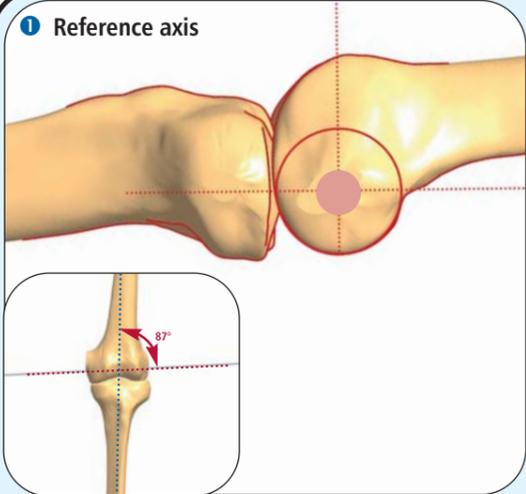


**5 Sheffield Ring:** remove the template before applying the Knee Hinge.  
**TrueLok™ Ring:** apply the Knee Hinge over the template, which will increase the height and allow complete locking of the Knee Hinge with the bolts.



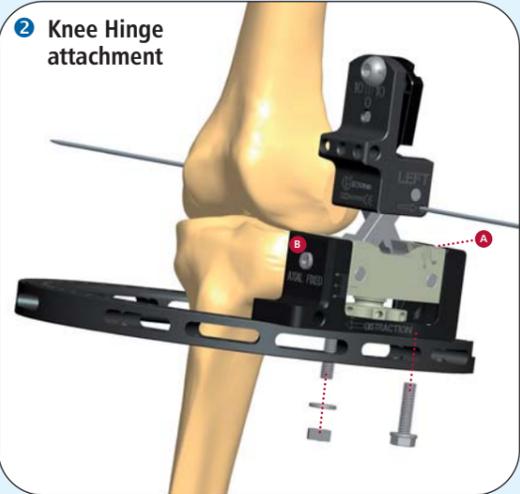
**6** Insert the rail and with a straight clamp. Insert 2 wire guides and K-wires. Remove the reference wire. Check flexion-extension of the knee in both planes under image intensification. Insert the femoral screws.

# KNEE DISLOCATION



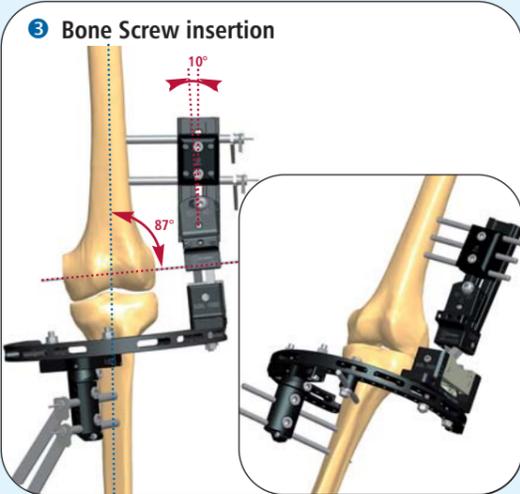
**1 Reference axis**

1 Insert a K-wire in the reference axis.



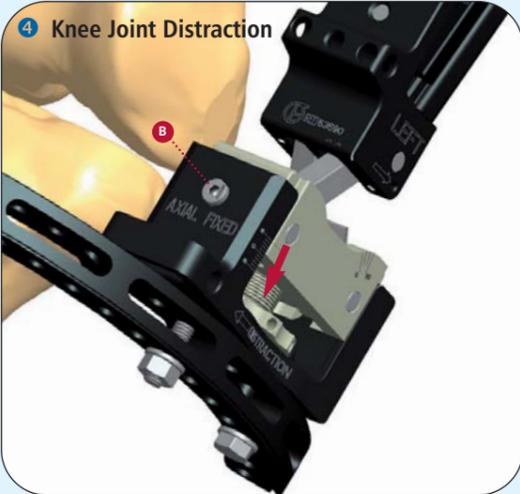
**2 Knee Hinge attachment**

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).



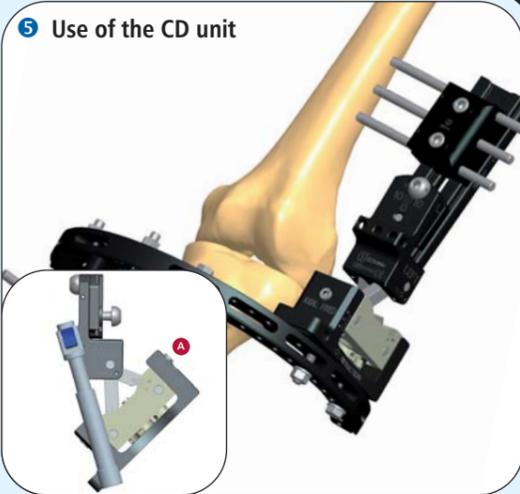
**3 Bone Screw insertion**

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.