VISIONAIRE Disposable Instruments for the LEGION® Total Knee System

A technology from smith&nephew
VISIONAIRE® and LEGION® Disposable instrument technique

**Note:** All disposable instruments are interchangeable with the standard LEGION instruments

**Femoral preparation**

1. Place femoral cutting block on the distal femur by pushing the block into the trochlear groove and down on the distal condyles.

   *Tip:* The proximal part of the femoral block should rest on the anterior cortex to ensure that the block is not in flexion.

2. Allow the surgical assistant to firmly hold the block in place while the surgeon drills through the two distal holes using the 1/8 inch drill bit.

3. Insert either long headed pins (45mm) or 45mm bone spikes into the distal holes that were drilled in step 2.

4. With the distal pins in place, pin the anterior face of the block using either 45mm speed pins or by drilling through the holes and using long (45mm) bone spikes to secure the anterior face of the block.
5 Use the slot alignment checker to determine if proper alignment will be achieved with the distal cut

**Note:** The vertical etching represents the AP axis which can be used with the perpendicular trans epicondylar axis to show rotational alignment

6 Remove the distal pins and make the distal cut

**Note:** For added block stability leave in one distal pin while you start your cut

**Tip:** The anterior pin holes in the VISIONAIRE° block match the standard metal distal cutting block in the event an additional distal resection is required.

This distal pin holes match the pins for the AP cutting block and set femoral rotation.

7 Place the correctly sized disposable A-P cutting block on the distal femur using the pin holes created by the VISIONAIRE block, secure with pins and make anterior, posterior and chamfer cuts

**Note:** Speed pins in the center holes work well to secure the block on the bone
Tibial preparation

Positioning and exposure

8 Sublux the tibia

9 Remove the meniscus

10 Make sure all the proximal anterior loose soft tissue fibers have been removed

Pinning and drilling

The following steps for drilling and pinning apply to both the Minimally Invasive Surgery and Traditional Anterior Approach style VISIONAIRE® blocks.

11 Place the tibial block on the proximal tibia. The key contact points for the tibial block are the medial and lateral plateaus and the anterior medial tibial face

   Note: The cutting block should be resting flush on all three surfaces; if the block is not resting flush, remove any osteophytes or soft tissue that is impinging the fit

12 With the surgical assistant firmly holding the block in place, drill and pin the two proximal holes using either long (45mm) bone spikes or 45mm headed pins

13 With the proximal pins in place, pin the anterior face of the block using either 45mm speed pins or by drilling through the two holes and using long (45mm) bone spikes to secure the anterior face of the block in place

   Tip: Pinning proximal first will ensure the most optimal placement of the tibia cutting block

   The additional anterior hole above the slot can be used to further secure the block during resection
14 Use the alignment checker and drop rod to ensure proper alignment will be achieved with the proximal tibial cut

**Note:** The anterior etch marks the medial third of the tibia tubercle for tibia rotation; this can also be used to line up the drop rod for checking varus/valgus and slope

15 Remove the proximal pins and resect the tibia

**Note:** For added block stability, leave in one proximal pin while you start your cut

**Tip:** The proximal pin holes match the holes in the tibial trial and set rotation

The anterior pins match standard metal cutting block in the event additional proximal resection is needed

16 Size the tibia using the disposable tibial baseplate trial

**Note:** Excessive rotation applied to the quick connect handle during alignment verification may deform the quick connect feature of the disposable tibia trial
Femoral trialing

**Note:** The LEGION® disposable femoral trial is not compatible with the femoral wedges. If femoral wedges are required, you must use the standard LEGION femoral trial.

**Cruciate Retaining**

Tip: Disposable cam module is packaged with femoral trial for PS bail out option. Be sure to disassemble the cam module from the femoral trial before placing femoral trial on the femur.

17. Prepare the femoral lug holes through the trial using the femoral lug punch.

**Note:** Ensure lug punch is properly aligned and fully seated prior to punching.

**Posterior-Stabilized**

Tip: Disposable cam module is packaged with femoral trial. Be sure to disassemble the cam module from the femoral trial before placing femoral trial on the femur.

18. Pin trial through the anterior flange using short headed pins. Attach the Housing Resection Collet to the femoral trial.

**Note:** Speed pins are not indicated for this use with the disposable femoral trial.

Tip: The housing collet shown (71440003) is the only housing collet that is compatible with the disposable femoral trial.

19. Ream through the collet until the depth stop contacts the collet and then move the reamer anterior and posterior to remove bone for the PS box.

20. Impact the housing box chisel anteriorly and posteriorly through the housing resection collet to square the corners of the PS box resection.

21. Select the disposable Femoral Trial Cam Module, insert the arms of the cam module into the anterior aspect of the femoral trial box and rotate posteriorly.
Final preparation

22 Prepare the patella using surgeon's preferred technique

   **Note:** Information for patella can be found in the LEGION™ Knee System surgical technique.

23 Choose the appropriate disposable tibial insert trial for range of motion trialing

24 After trial range of motion and alignment checks, drill the tibia using the tibial drill, select the appropriate fin punch, and punch through tibia baseplate trial

**Implantation**

25 Remove trial components

26 Prepare bone cement

27 Seat the tibial implant with the tibial impactor. Remove any excess cement after fully seating implant

28 Place the femoral implant on the femur and use the femoral impactor to fully seat the implant

29 Place the patellar implant onto the patella and clamp onto the bone to pressurize

30 Attach the articular inserter/extractor‡ to the tibial tray (for standard inserts). Lift inserter superiorly until the anterior lip of the insert is fully seated

‡ The hi flex inserter and articular insert assembly tool may also be used to seat the insert.
* Refer to the Important Medical Information Package Insert included with the VISIONAIRE® Patient Matched Instrumentation and LEGION® Total Knee System for additional product, technique, health and safety information.

For total knee replacement surgical steps please reference the 71281671 LEGION Distal Cut First Surgical Technique.