

AperFix™ System Surgical Technique Guide



Prepared by:

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Prepare the patient pre-operatively according to standard procedures.

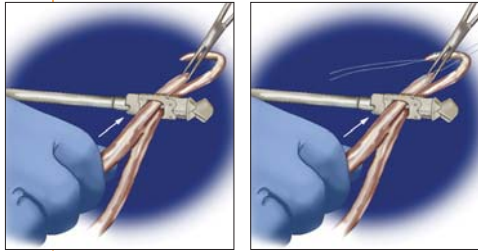
Graft Preparation

Soft tissue autografts and allografts can be used with the AperFix™ System. When using an autograft, harvest the tendons in the usual fashion per the surgeon’s preferred technique. The ends are whip stitched with a sturdy suture (#2 nonabsorbable) in the usual fashion. Fold the two grafts over a suture. Pull the graft bundle through a graft-sizing block to determine the diameter of the implant to be used. Select a diameter through which the graft bundle fits tightly but still passes. Create the Tibial Tunnel and Femoral Socket in the usual fashion. The femoral socket must be at least 30mm in length.

NOTE: DO NOT OPEN THE STERILE APERFIX IMPLANTS UNTIL PROPER SIZING HAS BEEN COMPLETED. PLEASE REFER TO THE TABLE BELOW:

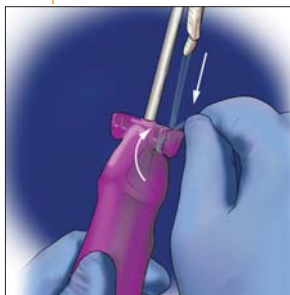
<i>If Femoral Tunnel Depth is:</i>	<i>Use:</i>
30mm to 34mm	29mm Implant
35mm or greater	29mm or 35mm Implant
<i>If Graft Bundle Diameter is:</i>	<i>Use:</i>
Less than 7.5mm	9mm Implants with 9mm drills
7.5mm to 9mm	10mm Implants with 10mm drills
9mm to 10mm	11mm Implants with 11mm drills

AperFix™ Femoral Implant Procedure

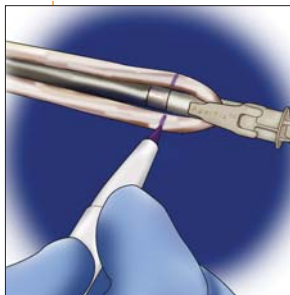


1. Pass the prepared soft tissue graft strands through the graft orifices of the AperFix™

Femoral Implant. You may also elect to pass the graft strands through the AperFix™ Femoral Implant first prior to whip stitching the ends.



2. Wrap the sutures of the prepared tendons around the Suture Cleats of the Inserter Handle.



3. Mark the tendon bundles at the inferior edge of the Implant.

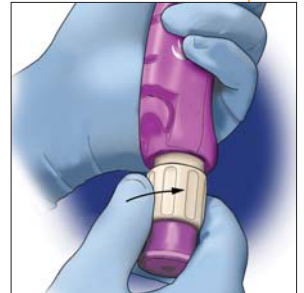


4. Holding the Implant Inserter Handle in the proper orientation and position (with the Safety Pin facing upward), insert the implant through the tibial tunnel and into the femoral socket to the marked location.

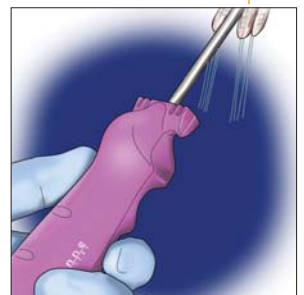


5. Pull the Safety Pin completely out.

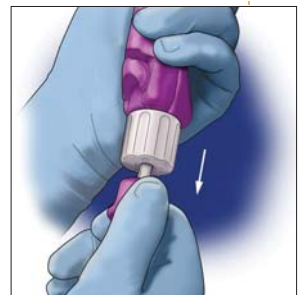
6. With the Inserter Handle held firmly in place, rotate the white Implant Deployment Knob clockwise until the Deployment Knob can no longer be turned and comes into contact with the purple Inserter Handle.



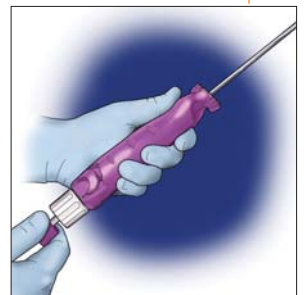
7. Disengage the sutures from the Suture Cleats.



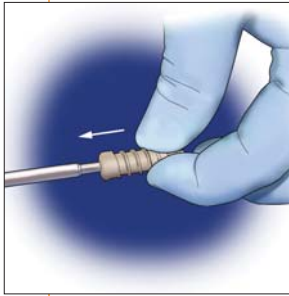
8. Release the Inserter from the Implant by pulling and holding the Implant Release Knob, then pulling back the Inserter Handle.



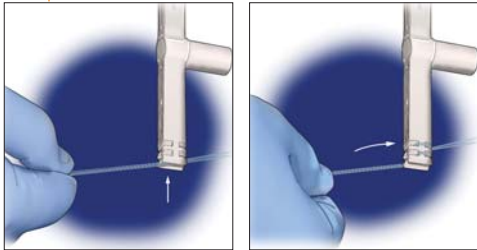
9. Remove the Inserter from the operating site and discard.



AperFix™ Tibial Implant Procedure



10. Select the AperFix™ Tibial Implant with Inserter to match the drilled tunnel diameter. Securely place Tibial Implant Screw onto the Tibial Inserter Handle.



11. Holding the Tendon Expander perpendicular to the tibial tunnel, wrap

the suture ends of the tendon bundles around the Suture Cleats of the Tendon Expander, such that the sutures are wrapped around the lateral slits of the cleats first, then around the cleats.



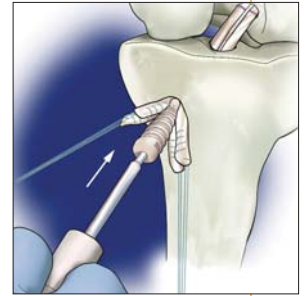
12. Pulling the Tendon Expander axial to the tibial tunnel provides equal tensioning of the graft limbs and allows ease of insertion of the Tibial Implant Sheaths.



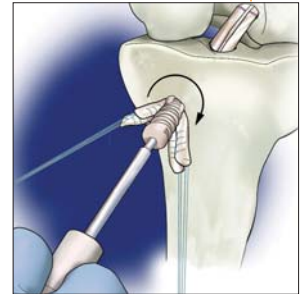
13. Insert the Tibial Implant Sheaths (in between the tendon bundles) into the tibial tunnel such that the cortical engagement tabs are in the 12 o'clock position. The sheaths should be positioned

such that the tabs are fully seated against the tibia. To disengage the white Sheath Holder, simply pull up on the Holder.

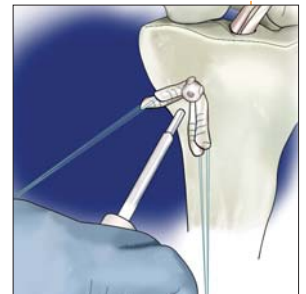
14. Insert the Tibial Screw, once loaded on the Inserter Handle, to the point where the tip of the Tibial Screw engages the Tibial Sheaths.



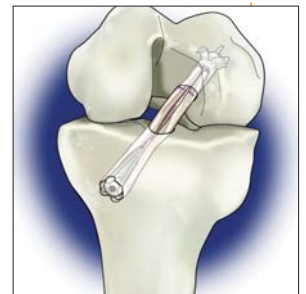
15. Turn the Inserter Handle clockwise to deploy the Tibial Implant.



16. Once the Tibial Implant is completely deployed, disengage the Inserter Handle by pulling the handle straight back.

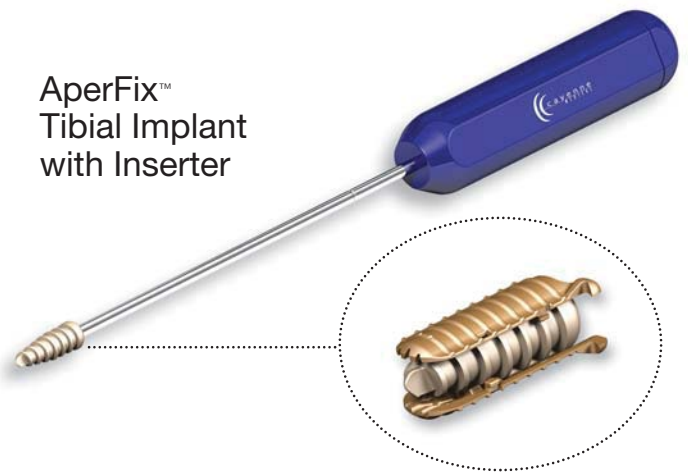


17. Check the integrity of the repair. Trim the excess suture and tendon flush with the tibial tunnel.





AperFix™
Femoral Implant
with Inserter



AperFix™
Tibial Implant
with Inserter

- **Active Compression** enhances tendon to bone contact
- **Aperture Fixation** restores native anatomy
- **Pre-Loaded and Disposable Inserter Handle** enables single-handed insertion
- **Simple and Rapid Deployment (< 1 min)** provides consistency and confidence
- **No Mathematical Calculations Required** means simpler procedures

- **Expandable Compression** ensures rigid fixation
- **Integrated Tensioning** reduces graft laxity
- **Preserves Graft Integrity** to ensure maximum strength
- **Radiolucent** for optimum visualization of anatomy

Ordering Information

AperFix™ Femoral Implant with Inserter

Model No.	Description
CM-3509	AperFix™ Femoral Implant with Inserter, 9mm x 35mm
CM-3510	AperFix™ Femoral Implant with Inserter, 10mm x 35mm
CM-3511	AperFix™ Femoral Implant with Inserter, 11mm x 35mm
CM-2909	AperFix™ Femoral Implant with Inserter, 9mm x 29mm
CM-2910	AperFix™ Femoral Implant with Inserter, 10mm x 29mm
CM-2911	AperFix™ Femoral Implant with Inserter, 11mm x 29mm

AperFix™ Tibial Implant with Inserter

Model No.	Description
CM-3009	AperFix™ Tibial Implant with Inserter, 9mm x 30mm
CM-3010	AperFix™ Tibial Implant with Inserter, 10mm x 30mm
CM-3011	AperFix™ Tibial Implant with Inserter, 11mm x 30mm

AperFix™ Disposable Instruments

Model No.	Description
CM-7014	Calibrated Drill Tipped Guide Wire, 14" x 2.4mm

The AperFix™ System Implants are made from PEEK™ (polyetheretherketone). PEEK™ is a non-absorbable, bio-inert polymer.

Manufactured By

FIXATED ON SOFT TISSUE REPAIR



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