

ArthroTunneler[®] TunnelPro System



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ArthroTunneler® SURGICAL TECHNIQUE



Step 1.

Drill medial tunnel(s) to a positive stop using the Drill Guide and 2.9 mm Drill - M. Drill additional tunnel(s) at this time depending on the size of tear and type of final repair construct desired.



Step 2.

Insert tip of the Hook into the medial tunnel until the top bar of the Hook is flush and parallel with the footprint.



Step 3.

Deploy the nitinol Loop into the medial tunnel. Insert the 2.5 mm Drill - L through the device and drill through the Loop to a positive stop.



Step 4. Remove the 2.5 mm Drill - L, then replace it with a loaded Suture Inserter.



Step 5.

Remove the Suture Inserter, then retrieve the nitinol Loop to capture the suture loop.



Step 7.

Remove the suture loop from the ArthroTunneler by deploying the nitinol Loop and pulling the device away from the suture.



Step 8.

Pass the suture loop through the cuff and use it as a definitive repair suture, or, use the suture loop as a shuttle to pass multiple sutures through the intersecting bone tunnels.



Step 6.

Retract the Anvil and remove the ArthroTunneler with the attached suture loop from the repair site.



Step 9.

Repeat steps #2 through #8 for each additional tunnel. Pass sutures through tendon(s) using desired technique that is applicable to the patient's anatomy. Tie and cut sutures to complete the repair. "The 'gold standard' principles of open transosseous Rotator Cuff repair as described by Dr. Neer allow surgeons to restore Rotator Cuff footprint contact and compression, while enhancing biological healing with bone tunnel marrow elements. The ArthroTunneler allows surgeons to perform this same open transosseous repair technique in a minimally invasive all-arthroscopic fashion."

SUMANT G. "BUTCH" KRISHNAN , M.D.

ArthroTunneler[®] Arthroscopic Transosseous Tunneling Device

The ArthroTunneler is the first device that allows surgeons to **apply "gold standard" principles** of transosseous rotator cuff repair in an all-arthroscopic fashion – **without anchors**.

- True transosseous fixation
- Anatomic footprint contact and compression
- **Highly adaptable** for revision cases requiring navigation around existing anchors
- Biologic enhancement with bone tunnel marrow elements



Two TunnelPro™ Lateral Implants now included in ArthroTunneler TunnelPro System

Anatomically designed tip and hook allow tactile feel and reproducible positioning and placement within the tuberosity

Streamlined design allows for easy access directly into the shoulder through standard arthroscopy portals without a cannula

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Robust nitinol loop allows reproducible suture passing



TunnelPro[™] Lateral Implants:

- Protect suture-bone interface
- Reduce possibility of suture migration
- Distribute stress over greater area compared to suture alone
- Increase functional area of bone bridge
- Reduce bone abrasion leading to suture breakage
- Made from radiolucent PEEK-Optima™ material



TunnelPro™ Implant in Situ



4 anti-rotation fins for added stability inside the bone tunnel

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"ArthroTunneler® transosseous suture repair construct is statistically equivalent to Suture Bridge techniques for gap formation."



A GREEN ET AL; AM J SPORTS MEDICINE, JAN 2012, 40(1) PP. 133-140.

"TunnelPro provides a biomechanical, cost-effective alternative for secure rotator cuff repair through a transosseous technique with no need for anchors." JON JP WARNER, MD

TunnelPro[™] LATERAL AUGMENTATION TECHNIQUE



Step 1. Thread ForceFiber® sutures exiting the lateral tunnel into the tip of the inserter



Step 4. Twist ½ turn counterclockwise and remove stick



Step 2. Slide TunnelPro down sutures



Step 5. Pass sutures through cuff



Step 3. Insert into bone [with hand pressure or with a few mallet taps]



Step 6. Final construct shown with knots pushed laterally over the TunnelPro implants

Force Fiber[®] Suture TunnelPro[™] System, Individual Implants & Instruments CAT# Size Length Color Tipped Needle Product Item No Description SMK100101 Size 2 36″ White/Blue No N/A SMB100101 ArthroTunneler® TunnelPro[™] System – SMK100201 36″ Size 2 White/Black No N/A Includes: (1) ArthroTunneler plus Size 2 SMK100401 36″ Blue N/A No (2) TunnelPro Lateral Implants SMS100101 Size 2 White/Blue 36″ N/A K-Point SMB100201 (1) TunnelPro Lateral Implant SMS100201 Size 2 36″ White/Black K-Point N/A SMB000201 Drill/Punch Guide SMS100301 Diamond-Point Size 3-4 36″ White/Blue N/A SMB000301 Obturator SMS100401 Size 3-4 36″ White/Black N/A Diamond-Point SMB000401 2.9 Drill - M SMS100501 Size 2 36″ White/Blue N/A Tapered SMB000501 ArthroTunneler - 2.9 Punch - M SMS100601 Size 2 36″ White/Black N/A Tapered SMS100701 Size 3-4 36″ White/Blue N/A Tapered 2.5 Drill - L SMB000601 SMS100801 Size 3-4 36″ White/Black N/A Tapered SMB000701 Suture Inserter SMS100901 White/Blue Size 2 36″ N/A Yes SMB000801 Tray Base SMS101001 Size 2 36″ White/Black Yes N/A SMB000901 Tray Lid SMS101101 White/Blue Size 3-4 36" Yes N/A SMB00105 ArthroTunneler Instruments SMS101201 Size 3-4 36″ White/Black Yes N/A and Tray - Complete SMS101501 Size 3-4 36" White Yes N/A SMS101601 Size 5 36″ White/Blue N/A K-60 SMS101701 Size 5 36″ White/Black N/A K-60

SMS101801

36″

White

N/A

K-60

Size 5

Indications:

The ArthroTunneler TunnelPro System is intended to be used for Rotator Cuff repair procedures.

The TunnelPro is intended to protect the suture/bone during transosseous fixation procedures.

The ArthroTunneler is intended for transosseous fixation of tendons to bone in the following applications: Rotator Cuff repair.

Contraindications:

The ArthroTunneler TunnelPro System is NOT intended for use in:

- Pathological conditions of the soft tissue to be repaired or reconstructed which would adversely affect suture fixation.
- Insufficient quantity and/or quality or cortical bone integrity that would impair the ability to securely fix the TunnelPro implants.
- Compromised bone surface that would not allow secure fixation of the TunnelPro.
- Patients with an active infection.
- Physical conditions that would retard healing, such as blood supply limitation and infection.
- Conditions which tend to limit the patient's ability or willingness to follow instructions during the healing period.



US HEADQUARTERS

INTERNATIONAL HEADQUARTERS

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Prior to using any Tornier device, please review the instructions for use and surgical technique for a complete listing of indications, contraindications, warnings, precautions, potential adverse events, and directions for use.

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