SpeedBridge™ and SpeedFix™ Knotless Rotator Cuff Repair using the SwiveLock® C and FiberTape® Surgical Technique
**Knotless SwiveLock Anchors and FiberTape Provide our Strongest and Lowest Profile Constructs**

**SpeedFix** | Knotless Single Row Repair

- Small nonretracted tears
- Simplified suture management
- Pass a FiberTape inverted mattress stitch in one step using the MultiFire Scorpion™ Suture Passer

**SpeedBridge** | Knotless Double Row Footprint Reconstruction

- Medium to large tears
- Transosseous equivalent
- Maximizes contact between tendon and bone
- Knotless medial row minimizes potential for crepitus
- Protects healing zone from the synovial environment
- Requires only two suture passing steps

**ArthroFlex™** | SpeedBridge Patch Augmented Repair

- Revisions or weak tissue reinforcement
- SpeedBridge augmented with ArthroFlex decellularized dermis patch

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*Cross section of a Vented BioComposite SwiveLock eight weeks after implantation in a canine model showing bony ingrowth in the vents and center cannulation. Data on file.*
2 mm wide tape overbraid

SwiveLock preloaded with #2 FiberWire Tip Retention Suture provides an opportunity to augment the repair with a knot tying option

SwiveLock C
- The only fully threaded, bioabsorbable, knotless anchor on the market
- Vented design helps channel blood to the repair site
- Our maximum fixation strength
- Combines with many variations of FiberTape and FiberWire® for extreme flexibility
- BioComposite, PEEK, PLLA and titanium material options

SwiveLock SP
- Self-punching design eliminates the need for a bone socket preparation step
- Facilitates repair visualization prior to insertion

FiberTape
- 2 mm wide FiberTape or TigerTape™ options provide broad compression and tissue cut-through resistance
- #2 FiberWire tails can be passed with a Scorpion™ Suture Passer

BioComposite Vented SwiveLock with FiberTape Loop
The 4.75 mm BioComposite Vented SwiveLock is now available with a preloaded FiberTape loop that allows easy FiberTape passage for the medial row of a SpeedBridge. The two limbs of the FiberTape are joined into a single tail that can be easily passed with a Scorpion Suture Passer, eliminating the need for more complex suture shuffling techniques.

The science behind the technology...

Single Knotless Anchor Pull-Out Strength
Data on file - straight axial pull-out in laminated foam block (10 pcf cancellous core with a 2 mm thick 20 pcf cortical shell)
SpeedBridge

The fully threaded SwiveLock C can be combined with FiberTape to create a quick and secure SutureBridge construct with no knots and only two suture passing steps. The result is a low profile, transosseous equivalent “suturebridge” that enhances footprint compression to maximize contact between tendon and bone.

1. Preload a FiberTape into the eyelet of a BioComposite SwiveLock C for use as a medial row anchor. Prepare a bone socket using a punch. Insert the BioComposite SwiveLock C into the prepared medial bone socket until the anchor body makes contact with bone.

2. Hold the thumb pad steady and rotate the driver handle in a clockwise direction until the anchor body is flush with the bone.

3. Unwind the #2 FiberWire tip retention suture that holds the PEEK tip in place during anchor insertion. This suture may be incorporated into the repair or discarded. Remove the driver.

4. Pass the tail of a FiberLink™, for use as a suture shuttle, through the rotator cuff with a Scorpion. Retrieve the FiberLink tail through the anterior portal.

5. Retrieve both FiberTape tails, one at a time, from the medial row anchor, through the lateral portal using a FiberTape Retriever. Load both tails of the FiberTape through the FiberLink loop. Pull on the FiberLink tail, through the anterior portal, to shuttle the FiberTapes through a single hole in the rotator cuff.

6. Repeat steps 1-5 for the posteromedial anchor, using a white/black TigerTape for easy suture management.
Retrieve one FiberTape tail from each medial anchor and preload them through the SwiveLock C eyelet. Prepare a bone socket using a punch. Anchor position is normally 5-10 mm lateral to the edge of the tuberosity.

Insert the Bio-SwiveLock C into the prepared lateral bone socket until the anchor body contacts bone. Adjust tension of each FiberTape limb individually.

Make sure the tip of the anchor body is in contact with bone. Hold the thumb pad steady and rotate the driver in a clockwise direction to insert the anchor body until it is flush with the bone.

Cut the FiberTape tails, one at a time, with an open-ended FiberWire cutter. Repeat steps 7 - 9 for the second lateral anchor.

Alternate Medial Row Option – SwiveLock with Preloaded FiberTape Loop

The two limbs of the FiberTape are joined into a single tail that can easily be passed with a Scorpion Suture Passer.

Insert medial anchor normally and retrieve both FiberTape limbs at the same time with a FiberTape Retriever.

Load the single tail directly onto a Scorpion and pass through the cuff without the need for a FiberLink suture shuttling step.

The tail smoothly leads both FiberTape limbs through the tissue. The spliced tail is cut off, allowing each FiberTape limb to be separated for normal lateral fixation.

The science behind the technology ...

Cadaveric testing shows that the SpeedBridge is equivalent to the standard SutureBridge in both strength and gap formation under cyclic loading. Six matched pairs were cycled between 10 and 100N five hundred times and pulled to failure. The strength of both constructs was only limited by tendon quality. No anchors or sutures failed. Data on file

[Graph showing Load-to-failure comparison between SpeedBridge and Standard SutureBridge]
Load both tails of a FiberTape into the MultiFire Scorpion and pass an inverted mattress stitch in one step.

Bring the tip of the Bio-SwiveLock C eyelet to the edge of the bone socket. Leave some slack in the FiberTapes to allow for easy insertion. Tension can be adjusted later.

Make sure the tip of the anchor body is in contact with bone. Hold the thumb pad steady and rotate the driver handle in a clockwise direction until the anchor body is flush with the bone.

Retrieve both FiberTape tail through the lateral portal and preload them through the SwiveLock C eyelet. Prepare a bone socket using a punch.

Insert the Bio-SwiveLock C into the prepared bone socket until the anchor body makes contact with bone. Adjust tension if necessary.

Unwind and discard the #2 FiberWire tip retention suture that holds the PEEK tip in place during anchor insertion. Remove the driver. Cut the FiberTape tails, one at a time, with an open-ended FiberWire cutter.

SpeedFix

Quick and secure single-row fixation can be obtained with the SpeedFix. The SpeedFix takes advantage of the new PassPort Button Cannula™ and the MultiFire Scorpion Suture Passer. The MultiFire Scorpion Suture Passer is used to pass an inverted mattress stitch in one step. The flexible PassPort Cannulas help maximize visibility and maneuverability inside and outside of the arthroscopic work space. The double-dam one-piece molded design has low profile flanges that seat flush to the skin and soft tissue. These flanges create a stable portal that allows instruments to be inserted and removed, without the concern of cannula loss.
SwiveLock SP

The SwiveLock SP combines a titanium tip with the anchor body to eliminate the need for prepunching a bone socket. This self-punching design can help save valuable O.R. time while increasing the precision of the final construct. The SwiveLock SP can be combined with FiberTape to complete a SpeedFix or SpeedBridge knotless rotator cuff repair.

SpeedFix w/SwiveLock SP

Pass a FiberTape in an inverted mattress configuration. Load the FiberTape tails through the SwiveLock SP eyelet and locate the best anchor position. Leave some slack in the FiberTapes. Tension can be adjusted later.

Mallet directly on the driver handle to simultaneously create the bone socket and partially insert the SwiveLock SP until the anchor body contacts bone. Tension may be adjusted if necessary.

Hold the thumb pad steady and rotate the driver in a clockwise direction to insert the anchor body until it is flush with the bone.

Unwind and discard the #2 FiberWire tip retention suture that holds the titanium tip in place during anchor insertion. Remove the driver. Cut the FiberTape tails, one at a time, with an open-ended FiberWire cutter.

SpeedBridge RCR with ArthroFlex Patch Augmentation

The SpeedBridge rotator cuff repair can easily be combined with the ArthroFlex Decellularized Dermis Patch to provide complete footprint restoration on challenging repairs. ArthroFlex can be shuttled down the medial row FiberTapes into position to complete the repair.

- MATRACELL™ decellularization process
- Sterile graft compared to other aseptically processed dermis materials
- Superior suture retention when compared to other augmentation patches
- After a rapid preparation process, the graft provides ideal handling characteristics
- Multiple sizes and affordable
## Ordering Information

### Implants/Disposables:

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>BioComposite SwiveLock C, 4.75 mm x 19.1 mm, closed eyelet</td>
<td>AR-2324BCC</td>
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<tr>
<td>BioComposite SwiveLock C, 5.5 mm x 19.1 mm, closed eyelet</td>
<td>AR-2323BCC</td>
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<tr>
<td>BioComposite SwiveLock SP, 4.75 mm x 24.5 mm, self-punching</td>
<td>AR-2324BCM</td>
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<tr>
<td>BioComposite SwiveLock SP, 5.5 mm x 24.5 mm, self-punching</td>
<td>AR-2323BCM</td>
</tr>
<tr>
<td>BioComposite SwiveLock C w/blue FiberTape Loop</td>
<td>AR-2324BCCT</td>
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<tr>
<td>BioComposite SwiveLock C w/white/black FiberTape Loop</td>
<td>AR-2324BCCTT</td>
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<tr>
<td>FiberTape, 2 mm, 7 inch (blue) each end tapered to #2 FiberWire, 30 inches</td>
<td>AR-7237-7</td>
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<tr>
<td>TigerTape, 2 mm, 7 inch (white/black) each end tapered to #2 TigerWire, 30 inches</td>
<td>AR-7237-JT</td>
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<td>MultiFire Scorpion Needle</td>
<td>AR-13995</td>
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<td>PassPort Cannula, 8 mm I.D. x 20 mm</td>
<td>AR-6592-08-20</td>
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<td>PassPort Cannula, 8 mm I.D. x 30 mm</td>
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<td>PassPort Cannula, 8 mm I.D. x 40 mm</td>
<td>AR-6592-08-40</td>
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<td>PassPort Cannula, 8 mm I.D. x 50 mm</td>
<td>AR-6592-08-50</td>
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<td>PassPort Hemostat (used for PassPort insertion)</td>
<td>AR-6592M</td>
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<tr>
<td>ArthroFlex Decellularized Dermis with MATRACELL, 1.26 - 1.75 mm thickness, 35 x 35 mm</td>
<td>AFLLEX100</td>
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<tr>
<td>ArthroFlex Decellularized Dermis with MATRACELL, 1.26 - 1.75 mm thickness, 40 x 70 mm</td>
<td>AFLLEX101</td>
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<tr>
<td>ArthroFlex Decellularized Dermis with MATRACELL, 1.76 - 2.25 mm thickness, 35 x 35 mm</td>
<td>AFLLEX200</td>
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### SpeedBridge Implant System:

The SpeedBridge Implant System is a single convenience package that contains all implants and FiberTapes needed for a standard four-anchor SpeedBridge construct.

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>SpeedBridge Implant System w/BioComposite SwiveLock C</td>
<td>AR-2600SBS-4</td>
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<tr>
<td>SpeedBridge Implant System w/BioComposite SwiveLock SP</td>
<td>AR-2600SBS-5</td>
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### Instruments:

<table>
<thead>
<tr>
<th>Product Description</th>
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<tr>
<td>Punch, for 5.5 mm Corkscrew FT and 4.75 mm and 5.5 mm SwiveLock</td>
<td>AR-1927PB</td>
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<tr>
<td>Disposable Punch, for 5.5 mm Corkscrew FT and 4.75 mm and 5.5 mm SwiveLock</td>
<td>AR-1927PBS</td>
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<tr>
<td>MultiFire Scorpion Suture Passer</td>
<td>AR-13995</td>
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<tr>
<td>FiberTape Cutter</td>
<td>AR-13250</td>
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<tr>
<td>FiberTape Retriever w/SR Handle</td>
<td>AR-13974SR</td>
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<tr>
<td>Suture Cutter, 4.2 mm, open-ended, left notch</td>
<td>AR-11794L</td>
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This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product’s Directions For Use.

For more information go to: [http://speedbridge.arthrex.com](http://speedbridge.arthrex.com)

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