



## Features and Benefits

### Full Thread Design:

- The addition of proximal threads increases pull-out strength and reduces suture "pull-back" in soft bone by engaging both cortical and cancellous bone

### Recessed FiberWire Eyelet:

- Self-aligns which eliminates the potential for incorrect eyelet orientation and enhances suture slideability compared to conventional anchors with protruding eyelets
- Suture now slides against smooth inner edge of anchor reducing the potential for suture abrasion from the cortical bone edge

### Internal Drive Mechanism:

- Substantially increases resistance to stripping during insertion into dense cortical bone

### FiberWire Suture:

- Provides superior knot strength and resistance to abrasion induced failure

## Ordering Information

### Implant:

Bio-Corkscrew FT Suture Anchor, 5.5 mm x 15 mm w/ two #2 FiberWire AR-1927BF  
Corkscrew FT II Suture Anchor, 5.5 mm x 14 mm w/ two #2 FiberWire AR-1928SF-2

### Required Instrumentation for Bio-Corkscrew FT:

Bio-Corkscrew Cutting Punch, 5 mm AR-1920CPB  
Cutting Tap for Bio-Corkscrew AR-1927CTB

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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.*

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U.S. PATENT NOS. 5,964,783; 6,652,563; 6,716,234 and PATENT PENDING



## THE ARTHREX Bio-Corkscrew™ FT and Corkscrew™ FT II Suture Anchors

The New Fully Threaded Family  
of Soft Tissue Repair Anchors

*Cortical and Cancellous Fixation with FiberWire® Composite  
Suture for Superior Repair Strength*



## Bio-Corkscrew FT and Corkscrew FT II

The fully threaded Corkscrew family of suture anchors was designed with one thing in mind: superior fixation. Where traditional suture anchors fall short, with wasted eyelet space where threads could be, Arthrex raises the bar. Each fully threaded Corkscrew Suture Anchor has continuous threads running from the tip to the proximal end where the driver engages. It maximizes thread potential and minimizes wasted space, an industry first. This is possible due to the construction of an internally recessed FiberWire composite suture eyelet into each anchor. These anchors are designed to be inserted flush with the cortical bone surface to maximize cortical and cancellous bone fixation strength and anchor stability. The fully threaded design substantially improves pull-out strength compared to suture anchors with protruding eyelets, and prevents anchor “pull-back” that can occur with countersunk anchors. Each anchor is preloaded with two strands of alternating colored and striped FiberWire composite suture to maximize repair strength, aid in suture management and provide superior tying characteristics. The anchor design and FiberWire composite suture provide the best possible combination for superior repair strength.

## Surgical Technnique

### Bio-Corkscrew FT

Insertion of the Bio-Corkscrew FT requires either a punch or punch/tap combo depending on the bone quality. The punch alone is recommended for soft bone, and the combination punch/tap is recommended for hard cortical bone.

### Corkscrew FT II

The sharp tip of the Corkscrew FT II implant can be started with a mallet into bone and advanced until flush, without pre-drilling.

## Superior load to failure and increased torque resistance with significantly less cyclic displacement

### Bio-Corkscrew FT

Biomechanical testing was performed comparing average load to failure and cyclic displacement and average load to failure of the Bio-Corkscrew FT to the Mitek SPIRALOK anchor on matched pair of cadaveric specimens. (see charts 1 and 2)

### Corkscrew FT II

Biomechanical testing was performed comparing average load to failure of the Corkscrew FT II to the Smith & Nephew TwinFix Ti 5.0 and the Mitek metal FASTIN RC. (see chart 3)

### Torque Testing

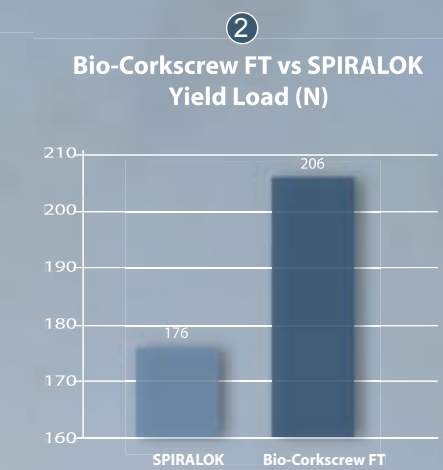
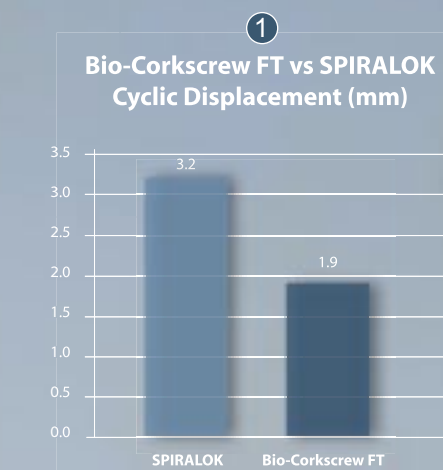
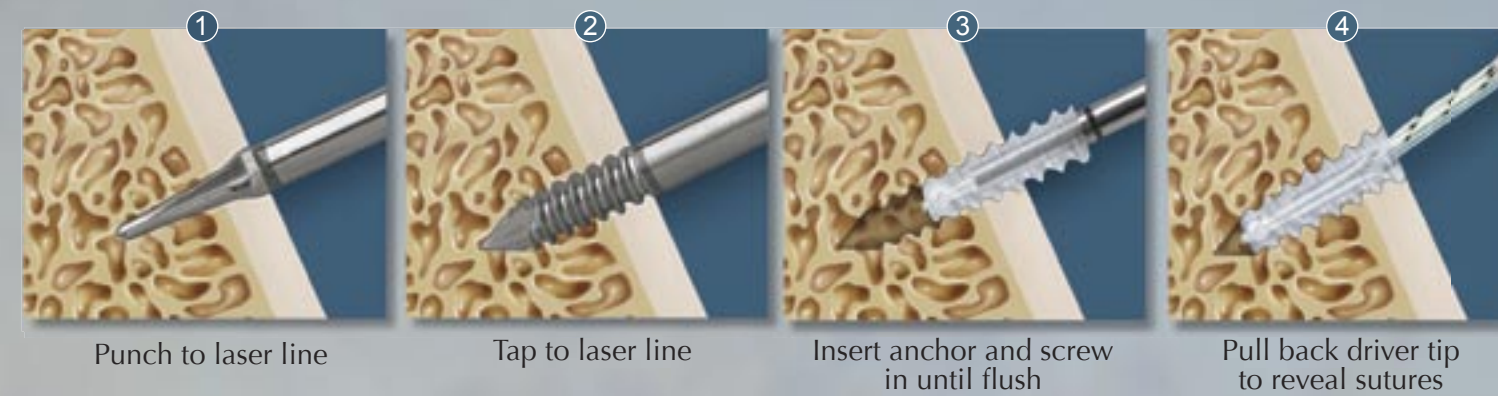
Mechanical testing was performed comparing the average torque to failure of the Bio-Corkscrew FT and the Corkscrew FT II to evaluate the internal drive design. (see chart 4)

actual size

### Bio-Corkscrew FT

The Bio-Corkscrew FT is a 5.5 mm O.D. x 15 mm length bioabsorbable suture anchor comprised of a fully threaded PLLA body. It contains a unique FiberWire composite suture eyelet recessed in the anchor body. This suture eyelet has the ability to self-align, eliminating the need to determine eyelet alignment as it applies to the orientation of the tissue edge. This anchor comes loaded on a convenient and ergonomic handled inserter.

The Bio-Corkscrew FT is constructed with a strong internal square-head drive mechanism that substantially increases the surface area contact of the driver to the anchor. As a result, this design characteristic also increases the resistance to stripping, or torque to failure, during insertion into hard cortical bone.



Results:

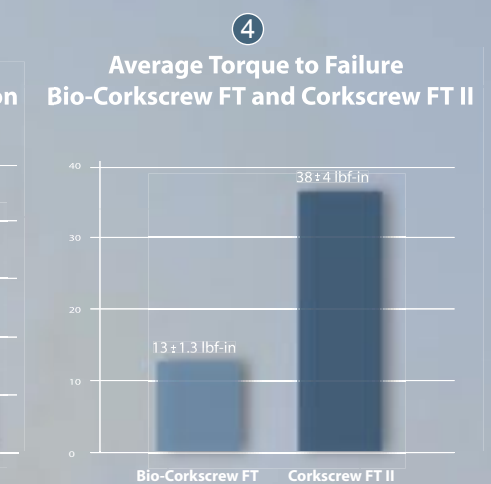
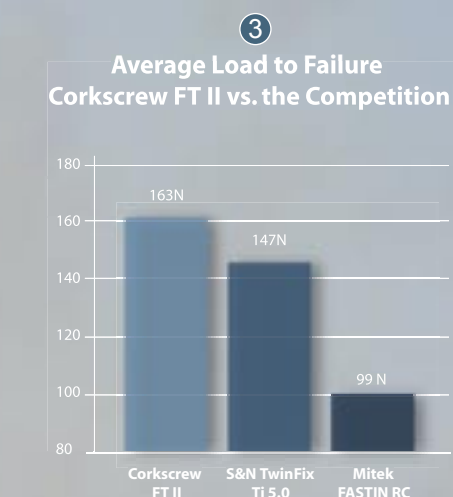
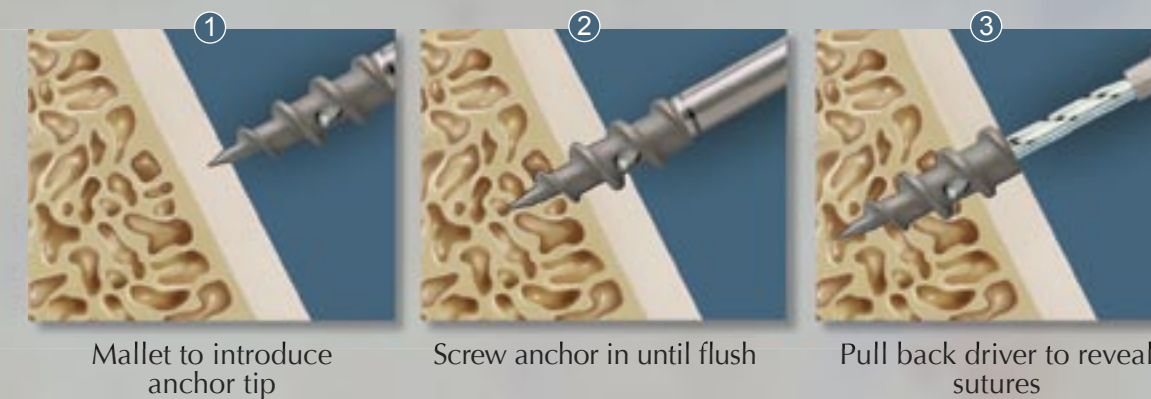
- The Bio-Corkscrew FT had less cyclic displacement (1.9 mm) than the SPIRALOK anchor (3.2 mm)
- The Bio-Corkscrew FT had a greater average yield load to failure of 206 Newtons

actual size

### Corkscrew FT II

The Corkscrew FT II is a 5.5 mm O.D. x 16.3 mm length suture anchor comprised of a fully threaded titanium body. It contains a unique FiberWire composite suture eyelet recessed in the anchor body. This anchor comes loaded on a convenient and ergonomic handled inserter.

The Corkscrew FT II is constructed with a strong internal hex-head drive mechanism that substantially increases the surface area contact of the driver to the anchor. As a result, this design characteristic also increases the resistance to stripping, or torque to failure, during insertion into hard cortical bone.



Results:

- The Corkscrew FT II had a greater load to failure than the S+N TwinFix 5.0 and the Mitek FASTIN RC
- The Bio-Corkscrew FT and Corkscrew FT II have superior torque to failure