The Fully Threaded Family of Soft Tissue Repair Anchors

Cortical and Cancellous Fixation with FiberWire® Composite Suture for Superior Repair Strength
The Next Generation In Suture Anchor Design

Implant thread purchase in cortical/subchondral bone provides tighter, more secure fixation in soft bone resulting in superior pull-out strength and less chance for implant micro motion and potential loosening, compared to earlier generation anchors that do not have a continuous thread running the entire length of the implant. The chamfered inner top edge of the implant protects the attached suture from the possibility of bone abrasion and failure.

Cortical Purchase

Recessed Suture Eyelet

The recessed eyelet made from high strength composite FiberWire suture is self-aligning and provides a friction-free surface for the attached suture, allowing easy advancement of sliding knots. Independent published testing in peer reviewed journals shows that suture eyelets are superior to traditional polymer or metal eyelets with respect to reduced chance of abrasion and failure of the attached suture and polymer eyelet cutout.

Internal Driver

The male internal driver in the full thread suture anchors provides a torque-to-failure that is up to three times higher than traditional female hex head driver designs. This eliminates the potential for unrecognized implant hex head failure and loss of fixation during the critical postoperative healing phase, and all but eliminates the need to tap, resulting in less fiddle-factor and reduced operative time.
The Next Generation In Suture Anchor Design

Superior load-to-failure and increased torque resistance with significantly less cyclic displacement. Innovative features developed over the years such as the TigerTail® design allows the surgeon to easily identify suture strands, resulting in improved suture management. The 5.5 mm titanium Corkscrew FT is available with three #2 FiberWire sutures, allowing more suture passes in tissue for higher strength.

FiberWire Options
Innovative features developed over the years such as the TigerTail® design allows the surgeon to easily identify suture strands, resulting in improved suture management. The 5.5 mm titanium Corkscrew FT is available with three #2 FiberWire sutures, allowing more suture passes in tissue for higher strength.

Size and Material Matters
The fully threaded family of anchors is available in 4.5 mm, 5.5 mm and 6.5 mm sizes in bioabsorbable polymer, titanium and a nonabsorbable PEEK polymer. The extensive size range allows surgeons the option to perform double row cuff repairs without implant crowding and provides options for revisions. The variety of implant materials allows the surgeon to choose the ideal material to best fit the patient's needs.

FiberWire Design
FiberWire is the original high strength composite suture with over five years of clinical success. One of the key design differences of FiberWire is the longitudinal core of ultra-high molecular weight polyethylene fibers that provides higher strength, greater abrasion resistance and less creep or stretch than other so called high strength sutures. Our history of development and continual improvement has resulted in a high strength suture that is considered the "gold standard" in the industry with a long successful clinical history.

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**Bio-Corkscrew FT**

Biomechanical testing was performed comparing average load-to-failure and cyclic displacement of the Bio-Corkscrew FT to the Mitek SPIRALOK anchor on a 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 mm and the Mitek metal FASTIN RC. (see chart 3)

**4.5 mm Bio-Corkscrew FT**

The abrasion resistance of the 4.5 mm Bio-Corkscrew FT eyelet has a mean of 8193 cycles.

**Torque Testing**

Mechanical testing was performed, comparing the average torque-to-failure of the 5.5 mm Bio-Corkscrew FT and the 5.0 mm Mitek SPIRALOK to evaluate the internal drive design. (see chart 4)
### Features and Benefits

**Fully Threaded 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

**Bio-Corkscrew FT Anchors:**
- Bio-Corkscrew FT Suture Anchor, 4.5 mm x 15 mm w/two #2 FiberWire AR-1927BF-45
- Bio-Corkscrew FT Suture Anchor, 5.5 mm x 15 mm w/two #2 FiberWire AR-1927BF
- Bio-Corkscrew FT Suture Anchor w/Needles, 5.5 mm x 15 mm, w/two #2 FiberWire AR-1927BNF
- Bio-Corkscrew FT Suture Anchor, 5.5 mm x 15 mm, w/two #2 TigerTail AR-1927BFT
- Bio-Corkscrew FT Suture Anchor, 5.5 mm x 15 mm, w/FiberChain AR-1927BFC
- Bio-Corkscrew FT Suture Anchor, 6.5 mm x 15 mm, w/two #2 FiberWire AR-1927BF-65

**Corkscrew FT Anchors:**
- Corkscrew FT II Suture Anchor, 5.5 mm x 16 mm, w/two #2 FiberWire AR-1928SF-2
- Corkscrew FT II Suture Anchor w/Needles, 5.5 mm x 16 mm, w/two #2 FiberWire AR-1928SNF-2
- Corkscrew FT II Suture Anchor w/NeedlePunch Needles, 5.5 mm x 16 mm, w/two #2 FiberWire AR-1928NP-2
- Corkscrew FT II Suture Anchor, 5.5 mm x 16 mm, w/two #2 TigerTail AR-1928SFT-2
- Corkscrew FT II Suture Anchor, 5.5 mm x 16 mm, w/three #2 FiberWire AR-1928SF-3

**PEEK Corkscrew FT Anchors:**
- PEEK Corkscrew FT Suture Anchor, 4.5 mm x 16 mm w/two #2 FiberWire (1 blue, 1 white/black) AR-1927PSF-45
- PEEK Corkscrew FT Suture Anchor, 5.5 mm x 16 mm w/two #2 FiberWire AR-1927PSF

**Required Instrumentation for PEEK Corkscrew FT:**
- PEEK Corkscrew FT Combo Punch/Tap, 5.5 mm AR-1928PT

**Required Instrumentation for FT Anchors:**
- Punch/Tap for Bio-Corkscrew FT, 5.5 mm AR-1927CTB
- Bio-Corkscrew FT Punch, 5.5 mm & 6.5 mm AR-1927PB
- Corkscrew FT Combo Punch/Tap, 4.5 mm AR-1927PTB-45
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