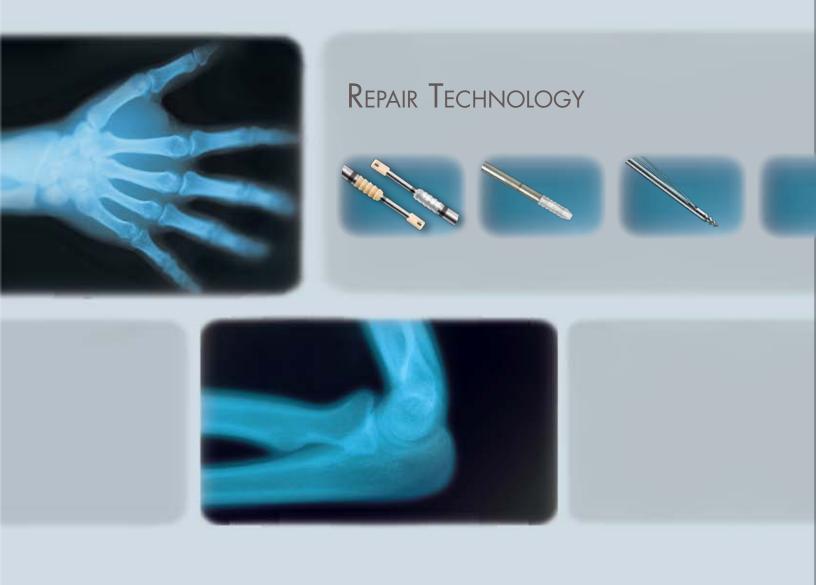
# Hand, Wrist and Elbow















## The Arthrex Difference

Since 1984 Arthrex has been a privately held corporation committed to one thing: providing the finest quality products and educational services to meet the special needs of surgeons and their patients.

Arthrex is dedicated to creative product development and medical education with an experienced, devoted team of professionals who are truly committed to continuing this long-term tradition.

New product innovation in less invasive surgery is the heart and soul of Arthrex, which has resulted in the development of over 3000 products for arthroscopic and minimally invasive orthopaedic surgical procedures. Our goal is to make technically demanding surgical procedures easier, safer and reproducible.

Your trust in Arthrex products means you are backed by a company committed to uncompromising quality and constant product innovation while providing you with the most competent technical customer support in the industry.

#### Bioabsorbable Implant Technology

Arthrex bioabsorbable implants are manufactured from a noncrystalline, amorphous PLIA copolymer that exhibits favorable degradation characteristics to ensure a high time zero strength that is maintained during the critical 12 week healing stage.

The Trim-IT pins continue to set new standards for strength, function, and ease of use for osteotomy fixation.

#### Intraosseous Ligament and Tendon Fixation

Arthrex is a leader in intraosseous soft tissue fixation with years of success in the knee and shoulder markets.

The patented Bio-Tenodesis Screw System is a breakthrough technology that enables the surgeon to tension and attach tendon or tendon graft directly to bone inside a predrilled socket. This reduces the length of graft needed when compared to transosseous tunnel techniques which are associated with large incisions, wide dissection, and increased morbidity.

#### Suture Anchors

Arthrex suture anchors provide the highest attachment strength possible for a wide variety of applications making technically demanding procedures simpler, safer, and more reproducible. The metal threaded anchors can be inserted into bone in one step without predrilling. The bioabsorbable anchors are made of poly(L-lactide-co-D, L-Lactide), commonly known as PLDLA. It maintains strength during the critical 12 week soft tissue healing phase and then undergoes resorption. All anchors are available with FiberWire suture, virtually eliminating suture breakage, with double the strength of standard polyester or absorbable sutures.

The Arthrex anchor line includes the Mini and Micro Bio-SutureTak. Both of these anchors have been designed for the special suturing needs of the small joint surgeon.

#### **FiberWire**

FiberWire, a suture made of ultra-high molecular weight polyethylene (UHMWPE) and polyester, braided over a UHMWPE core, has made a significant impact in foot and ankle surgery. FiberWire demonstrates approximately twice the strength of standard polyester suture in straight pull and knot break testing. FiberWire's high strength characteristics, along with significantly increased abrasion-resistance, give the surgeon confidence during knot tying and early motion that suture breakage is virtually eliminated.

#### Surgeon Education

The most important aspect to the Arthrex advantage is the emphasis we place on surgeon education. We have dedicated three convenient state-of-the-art wet lab facilities in the United States exclusively for surgeon education. In addition to scheduled Saturday courses, we are able to accommodate the individual needs of surgeons for weekday labs in the Naples facility. All labs are equipped with the latest equipment and technical assistance to provide visiting surgeons with the best educational experience possible.

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CMC Arthroplasty



Distal Biceps



**UCL Elbow** 



UCL Thumb

### Bio-Tenodesis<sup>™</sup> Screw System

The Bio-Tenodesis Screw System provides solid interference fixation, while eliminating the need for transosseous tunnels in tendon repairs and ligament reconstructions.

The Tenodesis Screw may be used in conjunction with #2 or 2-0 FiberWire to facilitate intraoperative tissue-tensioning and fixation in a predrilled socket which minimizes incision length, dissection, and overall morbidity. PLIA or titanium Tenodesis Screw insertion provides superior and immediate fixation for hand and wrist indications such as LRTI for CMC arthroplasty, collateral ligament reconstruction, and biceps tendon repair.

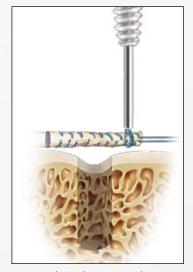
Bio-Tenodesis Screw Master Set (AR-1675S) includes:	
Cannulated Drill, 4 mm	AR-1204L
Cannulated Drill, 4.5 mm	AR-1204.5L
Cannulated Headed Reamers, 5 - 10 mm	AR-1405 -10
Tear Drop Handle w/Suture Cleat	AR-2001BT
Driver for 10 mm Bio-Tenodesis Screws	AR-1540DB
Driver for 12 mm Bio-Tenodesis Screws	AR-1670DB
Driver for 15 mm Bio-Tenodesis Screws	AR-1350D
Driver for 23 mm Bio-Tenodesis Screws	AR-1570DB
Bio-Tenodesis Screw Instrumentation Case	AR-1675C

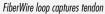
Implants:	
Bio-Tenodesis Screw w/handled inserter, 3 mm x 8 mm	AR-1530B
Bio-Tenodesis Screw, 4 mm x 10 mm	AR-1540B
Bio-Tenodesis Screw, 4.75 mm x 15 mm	AR-1547B
Tenodesis Screw, 5.5 mm x 15 mm, titanium	AR-1350-55
Tenodesis Screw, 4.75 mm x 15 mm, titanium	AR-1350-47
PEEK Tenodesis Screw, w/handled inserter, 3 mm x 8 mm	AR-1530PS
PEEK Tenodesis Screw, 4 mm x 10 mm	AR-1540PS
PEEK Tenodesis Screw, 4.75 x 15 mm	AR-1547PS
PEEK Tenodesis Screw, 5.5 mm x 15 mm	AR-1555PS
PEEK Tenodesis Screw, 6.25 mm x 15 mm	AR-1562PS
PEEK Tenodesis Screw, 5.5 mm x 8 mm	AR-1655PS
PEEK Tenodesis Screw, 7 mm x 10 mm	AR-1670PS
PEEK Tenodesis Screw, 8 mm x 12 mm	AR-1680PS
Bio-Tenodesis Screw, 5.5 mm x 15 mm	AR-1555B
Bio-Tenodesis Screw, 6.25 mm x 15 mm	AR-1562B
Bio-Tenodesis Screw, 7 mm x 23 mm	AR-1570B
Bio-Tenodesis Screw, 7 mm x 10 mm	AR-1670B
Bio-Tenodesis Screw, 8 mm x 12 mm	AR-1680B
Bio-Tenodesis Screw, 8 mm x 23 mm	AR-1580B
Bio-Tenodesis Screw, 9 mm x 23 mm	AR-1590B

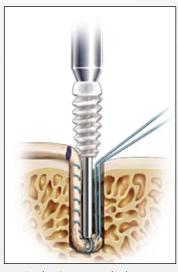
Disposables:	
Bio-Tenodesis Disposables Kit, sterile	AR-1676DS
Bio-Tenodesis Disposables Kit for 3 mm x 8 mm screw, sterile	AR-1350DS
Optional Accessories:	
Bio-Tenodesis Tap, 4 mm x 10 mm	AR-1540T
Bio-Tenodesis Tap, 5.5 mm x 15 mm	AR-1555T
Bio-Tenodesis Tap, 4.75 mm x 15 mm	AR-1547T
Bio-Tenodesis Tap, 6.25 mm x 15 mm	AR-1562T
Bio-Tenodesis Tap, 7 mm x 23 mm	AR-1570T
Bio-Tenodesis Tap, 7 mm x 10 mm	AR-1670T
Bio-Tenodesis Tap, 8 mm x 12 mm	AR-1680T

Literature:	
LRTI for Thumb CMC	LT0410
Bio-Tenodesis Screw Fixation in Tendon Enhanced Ankle Ligament	
Reconstruction	LT0500
Bio-Tenodesis Screew System	LB0505

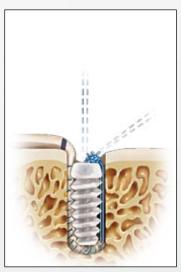








Tenodesis Screw is inserted under tension



FiberWire backup, repair complete





### QuickPass<sup>™</sup> Tendon Shuttle

Designed to ease the passage of tendon grafts through bone tunnels, these tendon passers reduce surgical steps and save valuable surgical time. While the nose of the tendon passers is thin for easy navigation through a tunnel, the back end opens up to accept the tendon. Once the tendon is introduced, the nylon mesh constricts around it and increases its hold under tension, much like a finger trap.

and increases its hold under tension, much like a finger trap.

QuickPass Tendon Shuttle, 2.5 mm x 16 cm, small
QuickPass Tendon Shuttle, 3.5 mm x 22 cm, large

AR-8090L

### Biceps Button™/Tenodesis Hybrid Fixation

This hybrid fixation technique provides the best of both worlds — the Biceps Button for cortical fixation that provides the best ultimate load-to-failure, and the Tenodesis Screw to ensure tendon-to-bone contact that secures initial fixation.

**Strong** - Biceps Button supports 432N in ultimate load. **Secure** - Tenodesis ensure minimal gap formation (1.45 mm) **Straightforward** - Tension slide technique can be done through a single incision

Distal Biceps Repair Implant System AR-2260 Biceps Button

AR-2261









### Mini TightRope® CMC Fixation

The Mini TightRope provides a unique means to suspend the thumb metacarpal after trapezial resection or removal for treatment of CMC arthritis, thumb CMC instability, and in case of revision with proximal migration after failed tendon reconstruction.

The Mini TightRope uses a pulley principle to help reduce the thumb and index metacarpals into proper relationship, that is maintained through healing. This construct consists of four passes of #2 FiberWire® through two stainless steel buttons — one oblong for passage through bone tunnels and one round for cortical fixation.

The trapezial space may be left empty, or filled with an allograft anchovy spacer.



Advantages:

- No tendon harvest required
- Less morbidity and surgical time
- May allow earlier rehabilitation
- Maintenance of trapezial space
- FiberWire has little stretch
- · Promotes scarring with micromotion
- Flexible suture-based fixation

This device is not cleared by FDA for sale in the U.S. for this indication.



Mini TightRope application for thumb CMC instability

Mini TightRope

Cannulated Drill Bit

## Osseous Fixation



#### 3 mm Bio-Compression Screw

For fracture and osteotomy fixation in periarticular applications, this screw offers interfragmentary compression and a headless profile to promote healing. Produced from solid enhanced PLIA and designed for excellent thread to bone contact, the Bio-Compression Screw provides excellent strength during insertion and through healing.

**Headless & Absorbable** - With zero prominence above the cortex and zero image on x-ray, this is as close to a natural repair as possible

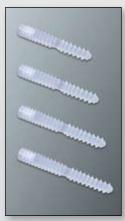
**Self-compressing** - Using a stepped thread pitch and a taper, this screw draws two fragments together without the need to overdrill/lag the proximal piece

**Straightforward Instrumentation** - A simple, low cost set ensures proper drill depth and tapping with no guesswork

Bio-Compression Screw Instrumentation Set (AR-5025S) includes:	
Bio-Compression Screw Driver	AR-5025DB
Small Handle w/AO Connection	AR-2001A0T
Bio-Compression Screw Dilator Tap, 20 mm	AR-5025TB
Bio-Compression Screw Driver Guide, 20 mm	AR-5025G
Bio-Compression Screw Drill Bit, 20 mm	AR-5025TD
Bio-Compression Cannulated Dilator Tap, 16 mm	AR-5025TBC-16
Bio-Compression Cannulated Dilator Tap, 18 mm	AR-5025TBC-18
Bio-Compression Cannulated Dilator Tap, 20 mm	AR-5025TBC
Bio-Compression Cannulated Dilator Tap, 22 mm	AR-5025TBC-22
Bio-Compression Cannulated Dilator Tap, 24 mm	AR-5025TBC-24
Bio-Compression Cannulated Dilator Tap, 26 mm	AR-5025TBC-26
Bio-Compression Screw Cannulated Drill Bit, 16 mm	AR-5025TDC-16
Bio-Compression Screw Cannulated Drill Bit, 18 mm	AR-5025TDC-18
Bio-Compression Cannulated Drill Bit, 20 mm	AR-5025TDC
Bio-Compression Screw Cannulated Drill Bit, 22 mm	AR-5025TDC-22
Bio-Compression Screw Cannulated Drill Bit, 24 mm	AR-5025TDC-24
Bio-Compression Screw Cannulated Drill Bit, 26 mm	AR-5025TDC-26
Bone Reduction Forceps	AR-4160FT*
.045" Guide Wire with Trocar Tip	AR-5025K
Bio-Compression Screw Instrumentation Case	AR-5025C
Bio-Compression Disposable:	
Hot Loop Cutter	AR-4160HC







Actual Size



Cannulated Instruments

## Osseous Fixation

### TRIM-IT Drill Pin™

#### TRIM-IT Drill Pin Advantages:

- Pin seats in any standard pin driver (accepting 0.078 0.125 inches)
- Quick and easy placement techniques
- Superior shear strength compared to other absorbable pins

#### **Bioabsorbable Advantages:**

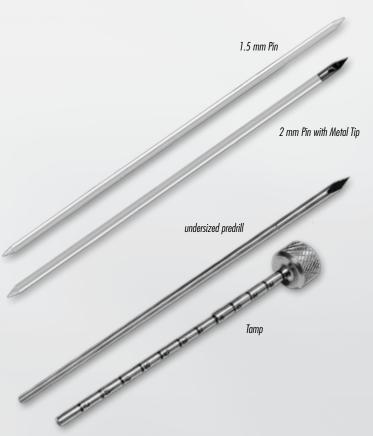
- Radiolucency
- No need for removal
- Clinical outcomes equivalent to metal
- Closer to the elastic modulus of bone
- Predictable resorption with replacement by bone

TRIM-IT Drill Pin Disposables Kit (AR-4152DS) includes: 2 mm x 100 mm absorbable pin with metal tip Laser marked metal pin (predrilling) Graduated Bone Tamp

Trim-It Drill Pin Disposables Kit (AR-4151DS) includes: 1.5 mm x 100 mm absorbable pin without metal tip Laser marked metal pin (predrilling) Graduated Bone Tamp

#### Accessories:

AR-4160HC
AR-1367F
AR-4170
AR-4152MS





Boxer's Fracture



Antegrade



## Osseous Fixation







### Low Profile Plate and Screw System

While requiring minimal dissection, these low profile plates provide excellent stability and durability. By using a spacer on the plate to dial in correction, the system offers a technique that is fast, effective and reproducible for angular corrections.

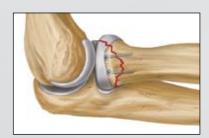
 ${\bf Self-Drilling\ Cannulated\ 2.3\ Screws} \ - \ {\bf Quick\ insertion\ after\ provisional\ fragment\ stabilization}$ 

**Minimal Soft Tissue Irritation** - At .5 mm thick, the plates are ideal for areas with less soft-tissue coverage

Customized Correction - With wedge sizes ranging from 0-7 mm a surgeon can dial in the desired correction

 $\begin{tabular}{ll} \textbf{Straightforward Technique} - \textbf{Simplified instrumentation makes for a quick procedure} \\ \end{tabular}$ 

Low Profile Plate and Screw System (AR-13240S) includes: Drill Guide for Titanium Cortical Screws	AR-13220DG
Depth Measuring Device	AR-13120G-2
Osteotomes, 5 mm, 10 mm and 12 mm	AR-13203-05, 10 and 12
Hohmann Retractor, qty. 2	AR-13210
Cannulated Driver Handle w/AO Connection	AR-13221AOC
Screwdriver w/AO Connection, 1.5 mm	AR-13223
Osteotomy Distractor	AR-13225
BB-Tak, qty. 2	AR-13226
Drill Bit, 1.7 mm diameter	AR-1201.7D
Drill Bit, 2.3 mm diameter	AR-1202-3D
Countersink w/AO Connection, 2.3 mm	AR-13220
AO Adapter	AR-4160A0
Bone Tap w/AO Connection	AR-13222T
Opening Wedge Trial	AR-13200MT
Cannulated Drill w/AO Connection, 1.7 mm, qty. 2	AR-1201-7DC
Cannulated Driver Shaft w/AO Connection, 1.5 mm, qty. 2	AR-13223C
Cannulated Depth Device	AR-13120G-3
Guide Wires, .034", gty. 6	AR-13240K
Bone Clamp	AR-4160F
Low Profile Plate and Screw Set Instrumentation Case	AR-13241C
Plates, titanium:	
LPS Plate	AR-13200M
LPS Opening Wedge Plate, 2 mm - 7, mm left	AR-13200M-02L - 07L
LPS Opening Wedge Plate, 2 mm - 7, mm right	AR-13200M-02R - 07R
Screws, titanium:	
Cortical Screws, 2.3 mm x 10 mm - 30 mm	AR-13120T-10 - 30
Cannulated Lag Screws, 2.3 mm x 10 - 30 mm	AR-13120T-10C - 30C



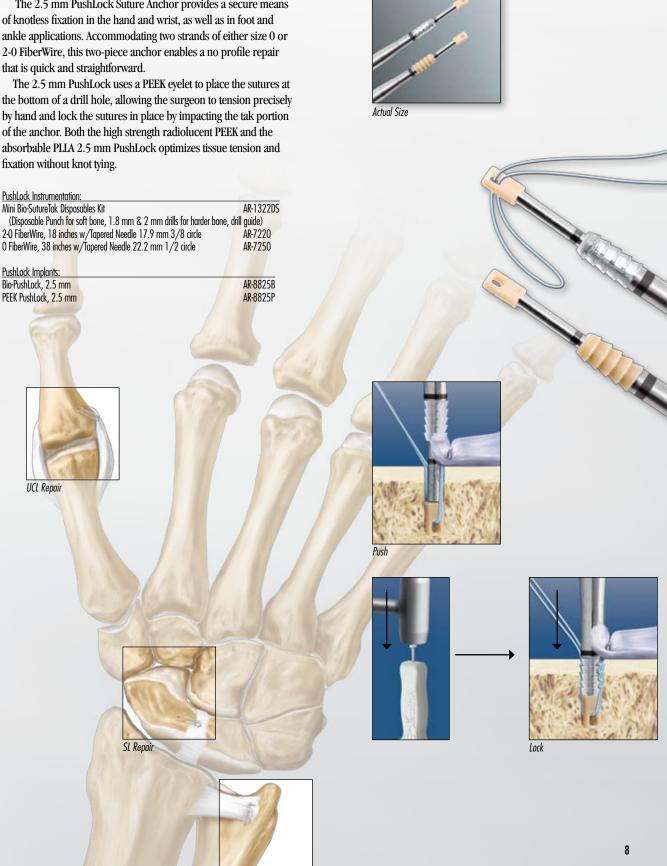
## Consider These Surgical Procedures:

- Small Fracture Fixation
- Fusions of Small Bones
- Corrective Osteotomies

### 2.5 mm PushLock® Knotless Suture Anchor

The 2.5 mm PushLock Suture Anchor provides a secure means of knotless fixation in the hand and wrist, as well as in foot and ankle applications. Accommodating two strands of either size 0 or 2-0 FiberWire, this two-piece anchor enables a no profile repair that is quick and straightforward.

by hand and lock the sutures in place by impacting the tak portion of the anchor. Both the high strength radiolucent PEEK and the absorbable PLIA 2.5 mm PushLock optimizes tissue tension and fixation without knot tying.



TFCC Repair

### Bio-SutureTak® - Micro, Mini and Small Joint

This family of unique 'push-in' suture anchors allow for a straightforward insertion and a flexible non-abrading suture eyelet. Predrill, tap the anchor into place and secure the soft tissues with the preloaded FiberWire with needles. With less damage to the cortex than competitive barbed anchors, and forgiving suture-on-suture eyelet interface, the Bio-SutureTak family provides clear advantages.

**Excellent Cortical Purchase** - With ridges along their entire length, these anchors provide superior pull-out in harder cortical bone **Minimized Suture Abrasion** - The suture-on-suture eyelet interface avoids the type of wear that can occur between traditional metal and bio-anchors and suture

**Preloaded with Two Needles and FiberWire** - Providing excellent strength in a smaller size, this nonabsorbable, braided polyblend suture is preloaded for convenience (the larger Small Joint Bio-SutureTak is available in a nonloaded version)

**Straightforward Technique** - Simple, shorter instrumentation and technique create a reliable and quick procedure

**Proven Material** - The Bio-SutureTak is manufactured from bioabsorbable PLDIA amorphous copolymer

Micro: 2.4 mm x 6.5 mm (includes 1.5 mm suture eyelet) w/2-0 FiberWire and two Tapered Needles, 17.9 mm 3/8 circle	
Micro Bio-SutureTak w/Needles Micro Bio-SutureTak Disposables Kit	AR-1320BNF AR-1320DS
Mini: 2.4 mm x 8.5 mm (includes 1.5 mm suture eyelet) w/ 2-0 FiberWire and two Tapered Needles, 17.9 mm 3/8 circle	
Mini Bio-SutureTak w/Needles Mini Bio-SutureTak Disposables Kit Mini Bio-SutureTak Punch	AR-1322BNF AR-1322DS AR-1322PB
Small Joint: 3 mm x 14 mm (includes 1.5 mm suture eyelet) w/#1 FiberWire and two Tapered Needles, 17.9 mm 3/8 circle	







Actual Size of 3 mm Bio-SutureTak



Actual Size of Micro and Mini Bio-SutureTak



## Consider These Surgical Procedures:

• Scapholunate Repair

Bio-SutureTak w/Needles

Short Spade Tip Drill

Bio-SutureTak Disposables Kit

Short Spear (for Bio-FASTak and Bio-SutureTak)

- Collateral Ligament Repairs
- Flexor Tendon Reattachment





Actual Size

#### Small Joint Bio-Corkscrew® FT

specifically for use in the open procedures.

This fully-threaded anchor provides excellent holding power with purchase through the cortical and into the cancellous bone of the calcaneus and tarsal bones. The Bio-Corkscrew FT also minimizes suture abrasion with the recessed suture eyelet for the two strands of #1 FiberWire preloaded into the anchor.

Fully Threaded for Improved Pull-Out Strength - Full length bone purchase provides extra security

**Preloaded with Two Needles and FiberWire** - Providing excellent strength in a smaller size, this nonabsorbable, braided polyblend suture is preloaded for convenience **Simple Instrumentation** - While a tap may be used in hard bone, the Bio-Corkscrew Punch is usually sufficient for preparing the bone. A shorter inserter handle is designed

**Proven Material** - The Bio-Corkscrew is manufactured from bioabsorbable PLDLA amorphous copolymer

Small Joint Bio-Corkscrew FT Suture Anchor, 5.5 mm x 15 mm w/two #1 FiberWire and two Diamond Point Needles, 26.2 mm 1/2 circle AR-8927BNF

Required Instrumentation:	
Bio-Corkscrew Punch, 5 mm	AR-1920PB
Bio-Corkscrew Cutting Punch, 5 mm	AR-1920CPB
Cuttina Tap for Bio-Corkscrew FT	AR-1927CTB











Actual Size

#### 3.7 mm Small Joint Bio-Corkscrew Suture Anchor

Using the same thread design as the titanium Corkscrew, this bioabsorbable soft tissue anchor maximizes pull-out strength in softer cancellous and osteopenic bone. The Bio-Corkscrew virtually eliminates suture abrasion with its suture eyelet, which is also large enough to be reloaded with four #2 sutures if desired.

**Cancellous Thread for Improved Pull-Out Strength** - Deep cancellous threads provide security in soft bone

**Preloaded with Two Needles and FiberWire** - Providing excellent strength in a smaller size, this nonabsorbable, braided polyblend suture is preloaded for convenience **Simple Instrumentation** - While a tap may be used in hard bone, the Bio-Corkscrew Punch is usually sufficient for preparing the bone. A shorter inserter handle is designed specifically for use in the open procedures.

**Proven Material -** The Bio-Corkscrew is manufactured from bioabsorbable PLDLA amorphous copolymer

AR-1923BNF

Small Joint Bio-Corkscrew Suture Anchor - 3.7 mm x 17.9 mm w/O FiberWire and two Diamond Point Needles, 22.2 mm 1/2 circle

Bio-Corkscrew Punch, 3.7 mm AR-1920PB-37
Bio-Corkscrew Tap, 3.7 mm AR-1920TB-37

## Consider This Surgical Procedure:

• Distal Biceps Tendon Reattachment

### Micro and Mini Corkscrew® FT

The Micro and Mini Corkscrew FT suture anchors are designed with a fully-threaded length to create maximum cortical purchase in smaller bones. Using an internal drive mechanism and suture eyelet, these titanium anchors enable surgeons to secure threads in the best bone - the cortex.

**Fully-threaded** - For maximum cortical purchase **Self-tapping** - Pre drill the cortex with an included K-wire and insert the anchor

**Preloaded with 2-0 FiberWire** - For superior strength and handling ease **Preloaded with Smaller Tapered Needles** - To save surgical time

Micro Corkscrew FT Suture Anchor - 2.2 x 4 mm w/ 2-0 FiberWire and two tapered needles 17.9 mm 3/8 circle

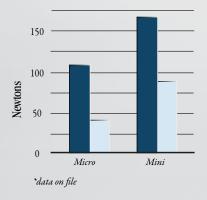
Mini Corkscrew FT Suture Anchor - 2.7 x 7 mm w/ 2-0 FiberWire and two tapered needles 17.9 mm 3/8 circle AR-1318FT (Available December '08)

AR-1319FT (Available February '09)



#### Pull-out Strength Comparison\*

- Arthrex, Micro FT
- Mitek Micro QA
- Arthrex, Mini FT
- Mitek Mini QA





Micro Corkscrew F1

### Small Bone FASTak™Suture Anchor

With significantly more holding power than Nitinol arc 'barbed' suture anchors, threaded suture anchors reduce the risk of tissue separation due to anchor slip. The titanium Small Bone FASTak Suture Anchor eliminates the need for predrilling while creating an excellent point of fixation.

Threaded for Improved Pull-Out Strength - Not only do threaded anchors provide more security than barbed anchors, but they also provide a path for removal, if needed Preloaded with Two Needles and FiberWire - Providing excellent strength in a smaller size, this nonabsorbable, braided polyblend suture is preloaded for convenience Straightforward Technique - A short inserter and self-drilling design create a reliable and quick procedure with no additional instrumentation needed

Small Bone FASTak Suture Anchor, 2.4 mm x 7.5 mm w/handled inserter and 2-0 FiberWire and two Tapered Needles, 17.4 mm 3/8 circle

AR-1322-752SF



Actual Size



UCL Repair



Scapholunate Repair

#### Small Joint Corkscrew Suture Anchor, titanium

Designed for maximum purchase and holding power in softer cancellous bone, the Small Joint Corkscrew offers a small inner diameter and large cancellous thread design. These self-drilling anchors start easy and hold strong in the calcaneus and tarsal bones for a variety of soft tissue repairs.

Should the patient have harder bone, a starter awl is available which can be used with a Hudson Adapter handle (with either the Tear Drop Handle or Ratcheting Screwdriver Handle).

Cancellous Thread for Improved Pull-Out Strength - Deep cancellous threads provide security in soft bone and provide a path for removal, if needed Preloaded with Two Needles and FiberWire - Providing excellent strength in a smaller size, this nonabsorbable, braided polyblend suture is preloaded for convenience Straightforward Technique - A short inserter and self-drilling design create a reliable and quick procedure with no additional instrumentation needed

Small Joint Corkscrew Suture Anchor, 3.5 mm x 15 mm, titanium w/0 FiberWire and two Diamond Point Needles, 22.2 mm 1/2 circle Small Joint Corkscrew Suture Anchor, 5 mm x 15 mm, titanium w/#1 FiberWire and two Diamond Point Needles, 26 mm 1/2 circle Corkscrew Starter Awl

AR-1915SNF

AR-1920SNF

AR-1915T



Distal Biceps



Actual Size of 3.5 mm and 5 mm Corkscrew Suture Anchors

## Consider These Surgical Procedures:

- Scapholunate Repair
- Distal Biceps Tendon
- UCL Repair

## Centerline ECTR

#### Centerline™ ECTR

Clinical data supports an earlier return to normal activities of up to 50% over open procedures for carpal tunnel release. The Centerline System raises the bar for endoscopic carpal tunnel procedures by increasing safety and user-friendliness.

**Safer** - Centerline puts the surgeon in position to make the cut. By putting the surgeons hand in line with the blade, the chances for median nerve injury are lessened

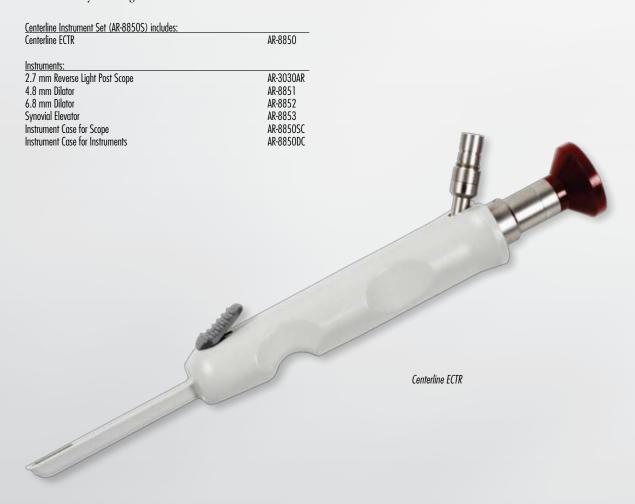
**Simplified** - Straightforward instrumentation and a disposable blade mechanism that contains all moving parts will speed procedures and lessen maintenance issues

**Straightforward** - Single-handed pull blade technique enables a quick and exact technique

**Ergonomic** - Universal design for better feel and function during the procedure

**Convenient** - Sterile single-use disposable blade sheath streamlines OR and facility handling







AR-11430

AR-11420

AR-12180

#### Elbow/Ankle Arthroscopy Set

This set of instruments was designed by elbow arthroscopists to improve patient care and to finally eliminate the need to borrow awkward instruments from other sets. The complete set of hand instruments includes ring-handled graspers and punches, as well as rasps, curettes, osteotomes, elevators and chondro picks for the daily work of the small joint arthroscopist.

 $\label{lem:continuous} \textbf{Appropriate Sizing for Small Joints} - \text{Ring-handled instruments have 65 mm shaft lengths with 2.75 mm diameters. The other instruments are sized and curved for the elbow as well.}$ 

**Innovative Design** - One of a kind instruments, like the Articulating Paddle Elevator, are designed specifically for small joint applications

 $\label{lem:complete Set for the O.R. - The tray holds all of the commonly used instruments, so there is no need to pull multiple sets$ 

**Quality Construction** - Ring-handled instruments use friction-free Teflon® bearings and come with a lifetime warranty against manufacturing defects

	and come with a lifetime warranty against manufacturi	ing defects	
	Ankle/Elbow Arthroscopy Set (AR-8650S) includes:		
	Small Joint Osteotome, angled up	AR-1770	
	Small Joint Osteotome, straight	AR-1771	
	Articulating Probe	AR-10100	
	Punch, Slender 45° Right Angled Tip, ø2.75 mm straight shaft	AR-11420	
	Punch, Slender 45° Left Angled Tip, ø2.75 mm Straight Shaft	AR-11430	
	Grasper, Blunt Straight Tip, ø2.75 mm Straight Shaft w/SR Handle	AR-11500SR	
	Grasper, Blunt Straight Tip, ø2.75 mm 15° Up Curved Shaft w/SR Handle	AR-11510SR	
	Grasper, Pointed Straight Tip, ø2.75 mm 15° Up Curved Shaft w/SR Handle	AR-11710SR	
	Grasper, Mini Straight Tip, ø2.75 mm Straight Shaft w/SR Handle	AR-11900SR	
	Grasper, Mini Straight Tip, ø2.75 mm 15° Up Curved Shaft w/SR Handle	AR-11910SR	
	Capsular Punch, Inverted Scoop Tip, 3.4 mm	AR-12170	
	Suture Retriever, Straight Tip, ø3.4 mm Straight Shaft	AR-12540	
	Extra Long Switchiing Stick	AR-3026	
	Graduateď Black Probe, 2.5 mm tip	AR-5007	
	Elbow Arthroscopy Portal Dilating Set	AR-8620	
	Articulating Paddle Elevator	AR-8630	
	Cobb Elevator, 9 mm width	AR-8640	
	Cup Curette, curved shaft, 100 mm	AR-8660	
	Cup Curette, straight shaft, 100 mm	AR-8661	
	Ring Curette, curved shaft, 100 mm	AR-8662	
	Ring Curette, straight shaft, 100 mm	AR-8663	
	Obturator, reusable for small joint	AR-8680	
	Elbow/Ankle Arthroscopy Instrumentation Case	AR-8650C	
	Chondro Pick Set (AR-8670S) included in AR-8650S:		6
	Chondro Pick, straight, 40° tip	AR-8670	
	Chondro Pick, concave, 90° tip	AR-8671	9
	Chondro Pick, convex, 60° tip	AR-8672	
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### Crystal Cannula®

The translucent Crystal Cannula features an atraumatic distal retaining ring to prevent cannula "fall-out." The Crystal Cannula Smooth version without the distal retaining ring permits the smallest possible incision while allowing the use of a translucent cannula.

The small outer diameter of the uniquely designed obturator that threads into the proximal cannula provides positive control for insertion into small portals. The proximal portion of the cannula has a barrel-shaped retention bowl that pools fluid to eliminate cannula "squirt". The optional 1-Way Stopcock comes sterile and connects to the luer lock port to control fluid outflow or inflow.

Crystal Cannula, 5.75 mm I.D. x 7 cm, qty. 5	AR-6560
Crystal Cannula Smooth, 5.75 mm I.D. x 7 cm, qty. 5	AR-6562
Short Crystal Cannula, 5.75 mm I.D. x 5 cm, qty. 5	AR-6568
1-Way Stopcock, w/Luer Lock	AR-6561



Made with the same attention to detail as their larger counterparts, the Arthrex disposable small joint shaver blades and burrs provide outstanding performance in bone and tissue resection applications.

The disposable small joint shaver blades and burrs can be used in both large and small shaver handpieces and can be inserted with the cutting window in the up or down position.

AR-7200FR
AR-7285FR
AR-7385FR
AR-7285ST
AR-7385ST
AR-7285PB
AR-7385PB
AR-7285POB
AR-7385POB

Shaver Handpiece



#### Orthopaedic Procedure Electrosurgical System (OPES®)

The OPES Electrosurgical System with its small joint ablation probes provides controlled tissue removal, coagulation and hemostasis during arthroscopic and open procedures. With their 2 mm diameter active monopolar electrodes in 45 or 90 degree angled necks, these probes provide improved surgical visualization, manipulation and approach due to their varying angles and small diameter shafts. The OPES system offers hand and foot control options.

The OPES small joint ablation probes are ideal for debridement of soft tissue during wrist and elbow arthroscopy. With the OPES Electrosurgical Generator's Fast Digital Feedback System (FDFS) technology, extremely efficient soft tissue ablation can be achieved at lower power levels, and thus much lower intraarticular temperatures compared to current analog systems.

With our "2-in-1" system, surgeons can operate open procedure electrosurgical instruments with the OPES generator when they need to change from an arthroscopic procedure to an open procedure. The full line of monopolar tips, pencils and bipolar forceps and accessories offered in the OPES system provide surgeons with every option. The monopolar ablation probes are also compatible with ValleyLab, ConMed and ERBE electrosurgical generators.

OPES Electrosurgical Generator	AR-9600
OPES Electrosurgical Generator Stand	AR-9600D
Recommended OPES Ablators for Small Joint Applications:	<u> </u>
OPES Ablator, Small Joint, 90°	AR-9601SJ-90
OPES Ablator, Small Joint, 45°	AR-9601SJ-45
OPES Ball Electrode, Small Joint	AR-9608SJ
Bipolar Forceps, Reusable:	
Bipolar Forceps, straight, fine, 4.5 inches	AR-9612SFR
Bipolar Forceps, straight, medium, 4.7 inches	AR-9612SMR
Bipolar Forceps, curved, fine, 4.5 inches	AR-9612CFR
Bipolar Forceps Cord	AR-9611CR
Additional Instruments and Accessories:	100 Bz
Pencil, Hand Control	AR-9610
OPES Electrosurgical Generator Bipolar Footswitch	AR-9600FB
OPES Electrosurgical Generator Monopolar Footswitch	AR-9600FM



Actual Size





AR-30000

AR-30010

AR-30020NR

AR-30030NR

AR-30040

AR-30050

AR-30060

AR-30070

AR-30110

AR-30100



### Small Joint Arthroscopy Instrument Set

The Series I Small Joint Arthroscopy Instrument set features a complete line of small yet durable instruments specifically designed for wrist arthroscopy. They are available in a variety of low profile styles: straight, rotary and graspers. Each Series I instrument has a lifetime warranty against manufacturing defects.

The instruments' shaft length is 65 mm and the shaft diameter is 2.75 mm. Large elliptical rings for finger and thumb give more handling comfort and friction-free Teflon bearings are used for a smoother tactile feel.

Small Joint Arthroscopy Hand Instrument Set (AR-8811S) includes:

Probe, Hook, Small Joint	AR-30000
Punch, Standard 2.75 mm, straight	AR-30010
Grasper, Pointed 2.75 mm, straight	AR-30020NF
Grasper, Blunt 2.75 mm, straight	AR-30030NF
Punch, Standard 2.75 mm, 15° up tip, straight	AR-30040
Punch, Large 2.75 mm, 15° up tip, straight	AR-30050
Punch, Rotary 2.75 mm, 90° R	AR-30060
Punch, Rotary 2.75 mm, 90° L	AR-30070
Punch, Standard 2.75 mm, 45° R, straight	AR-30100
Punch, Standard 2.75 mm, 45° L, straight	AR-30110
Hand Instrumentation Case, 16 slot	AR-2180

#### Micro SutureLassos™

These 6 inch long cannulated stainless steel shafts facilitate easier repair of soft tissue tears in the TFCC. All three models are preloaded with a braided Nitinol suture shuttle to enable placement of both simple and mattress stitches. The Micro SutureLassos taper from 16 gauge at the base of the ergonomic handle to 20 gauge along the last 20 mm to the tip.

Micro SutureLasso, major bend	AR-8702	
Micro SutureLasso, minor bend	AR-8701	
Micro SutureLasso, straight	AR-8703	- /
Micro SutureLasso, minor bend Micro SutureLasso, straight Micro SutureLasso, TFCC	AR-8704	//
Micro SutureLasso Retriever	AR-8701SR	1/
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## Limb Positioners

#### **Wrist Traction Tower**

The Wrist Traction Tower facilitates arthroscopic surgery or fracture management of the wrist by maintaining the hand and arm in a position comfortable for the patient, as well as enhanced accessibility to the surgeon.

The tower provides traction at the fingers using sterile finger traps. A draped countertraction post at the upper arm allows distraction and stable positioning of the wrist for operative procedures including closed reduction of fractures with pins or external fixation. The autoclavable, fully adjustable hand stabilization boom provides multi-directional hand positioning.

The Wrist Traction Tower can be used for wrist arthroscopy to treat injuries to the TFCC (Triangular Fibrocartilage Complex), ligaments and bone. One procedure in particular, the ulnar head wafer procedure, involves burr resection for a few millimeters of the ulnar head. This needs to be done through full rotation of the wrist (supination and pronation). The hand stabilizer post helps hold the wrist from full pronation to full supination, freeing the surgeon's hands to perform the procedure.

The Finger Traps, used in conjunction with the Wrist Traction Tower, are now available in four sizes, small through extra large, to closely match the dimensions of each patient's fingers. The weave is uniform, virtually eliminating pressure points on the fingers and possible tissue trauma.

Wrist Traction Tower	AR-1611S
Finger Distraction Attachment	AR-1614
Foam Pad for Countertraction Boom, sterile	AR-1615
Finger Traps, qty. 5, sterile	AR-1616 - S, M, L, XL
Foam Hand Pads, gty. 5, sterile	AR-1617

#### Small Joint Limb Holder

Small Joint Limb Holder provides a stable platform for arthroscopy or open procedures of the elbow. It mounts conveniently on all surgical tables and adjusts for height, width and rotation to maximize visualization and limb stability. The internal tourniquet option facilitates controlled visualization when conversion is made to an open procedure.

Small Joint Limb Holder	AR-1506
Foam Insert for Small Joint Limb Holder, gty. 5	AR-1507









## FiberWire® Suture



#### **FiberWire**

FiberWire suture is constructed of a multi-stranded long chain ultra-high molecular weight polyethylene (UHMWPE) core with a braided jacket of polyester and UHMWPE. FiberWire has twice the strength of the similar sized generic suture with superior feel, tie ability and lower knot profile.

FiberWire is the ideal suture for most orthopaedic small joint procedures, whether used in conjunction with suture anchors or for tenodesis applications and tendon repairs. The FiberWire Scissor facilitates easier cutting of FiberWire.

#2 FiberWire, 38 inches w/Tapered Needle, 26.5 mm 1/2 circle 2-0 FiberWire, 18 inches w/Tapered Needle, 17.9 mm 3/8 circle	AR-7200 AR-7220
2-0 FiberWire, 38 inches 3-0 FiberWire, 18 inches w/Diamond Point Needle,	AR-7221
26.2 mm 3/8 circle	AR-7225
3-0 FiberWire, 18 inches w/Tapered Needle, 15 mm 3/8 circle 3-0 FiberWire, 18 inches w/Reverse Cutting Needle,	AR-7227-01
16.3 mm 3/8 circle	AR-7227-02
4-0 FiberWire, 18 inches w/Diamond Point Needle,	
18.7 mm 3/8 circle	AR-7228
4-0 FiberWire, 18 inches w/Tapered Needle, 12.3 mm 3/8 circle 4-0 FiberWire, 18 inches w/Reverse Cutting Needle,	AR-7230-01
11.9 mm 3/8 circle	AR-7230-02
4-0 FiberWire, 18 inches w/Diamond Point Needle, 18.7 mm, 3/8 circle 0 FiberWire, 38 inches (blue) w/Tapered Needle,	AR-7248
22.2 mm 1/2 circle	AR-7250
O FiberWire, 38 inches (blue) w/Diamond Point Needle,	
22.2 mm 1/2 circle	AR-7251
FiberWire Scissor	AR-11796
FiberWire Scissor, small	AR-11797



#### FiberStick™ and TigerStick®

The stiff "waxed" end of the FiberStick and TigerStick allows convenient and easy advancement through Micro SutureLassos and other cannulated instruments or spinal needles, alleviating the need for a monofilament suture or wire suture shuttle. FiberStick and TigerStick come with a thin plastic tube which protects the stiffened suture end until use.

2-0 FiberStick, 2-0 FiberWire, 50 inches (blue)
one end stiffened, 12 inches AR-7222

## Consider These Surgical Procedures:

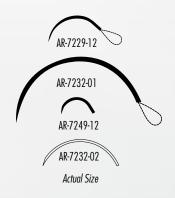
- Flexor Tendon Repair
- Collateral Ligament Suture Repair
- Most other Soft Tissue and Tendon Repairs in the Hand & Wrist

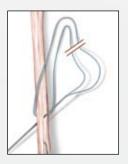
## FiberWire Suture

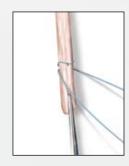
### FiberLoop®

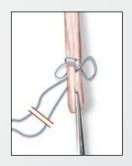
FiberLoop is the perfect suture option for multi-strand tendon repairs. These small diameter looped FiberWire products allow for strong multi-strand flexor and extensor tendon repairs while reducing tendon damage from multiple needle passes. FiberLoop is available with multiple needle options to prevent cutting suture while stitching.

4-0 FiberLoop, 6 inches (white) w/Tapered Needle, 12.7 mm 1/2 circle 4-0 FiberLoop, 10 inches (white) w/Tapered Needle, 12.7 mm 1/2 circle 4-0 FiberLoop, 6 inches (blue) w/Tapered Needle, 17.9 mm 3/8 circle 4-0 FiberLoop, 10 inches (blue) w/Tapered Needle, 17.9 mm 3/8 circle 2-0 FiberLoop, 30 inches (blue) w/Diamond Point Needle, 48 mm 1/2 circle 2-0 FiberLoop, 24 inches (blue) w/Diamond Point Needle, 26.2 mm 3/8 circle 2-0 FiberLoop, 30 inches (blue) w/Diamond Point Straight Needle, 64.8 mm	AR-7249-12 AR-7249-20 AR-7229-12 AR-7232-01 AR-7232-02 AR-7232-03
#2 FiberLoop w/Straight Needle, 20 inches (blue), 76 mm needle w/7 mm loop #2 TigerLoop w/Straight Needle, 20 inches w/TigerWire (white/black), 76 mm needle w/7 mm loop	AR-7234 AR-7234T
<u>Literature:</u> SpeedWhip w/FiberLoop Technique FiberWire Sheet	LT0135 LR0235











SpeedWhip™ Tendon Preparation Technique with FiberLoop



## Consider These Surgical Procedures:

- Achilles Tendon Repair
- Lateral Ligament Suture Repair
- Most other Soft Tissue and Tendon Repairs in the Foot & Ankle

## Allograft Tissue Systems, Inc.

#### Allograft Tissue Systems, Inc. (ATSI)

ATSI is pleased to offer a complete line of allografts specifically designed for small joint surgical applications. Allograft bone wedges with cortical/cancellous bone provide the surgeon with a number of options. High quality allografts provide many benefits over autograft, including reduced operative time, reduced risk of infection and other donor site morbidity.

#### Current Small Joint Allografts offered by ATSI:

- Fresh Talus Allografts are currently available for osteoarticular resurfacing of the talus. Complete fresh ankle sets are also available.
- Small Joint Tendons: Semitendinosus, gracilis, peroneus, and small tibialis grafts are sized by single length diameter specifically for use in small joint procedures.
- Wedges for osteotomy procedures including distraction arthrodesis, fracture repair, osteotomies
  - Iliac/Tri-Cortical Wedges
- Plugs for backfilling OATS donor sites



Contact an ATSI representative for order information:



27299 Riverview Center Boulevard, Suite 200, Bonita Springs, Florida 34134 877-454-4338 • Fax: 877-454-4352 • www.tissuesystems.com

## Small Joint Suture and Anchor Chart

		FIBERWIRE, FIBERLOOP AND	FIBERLOOP AND FIBERWIRE SCISSOR	OR		
Suture Size	Suture Length	Description		Needle Dimensions	Cat Number	Actual Size
2-0 (3 metric)	18 inches	FiberWire, 1 strand (blue) w/Tapered Needle (heavy duty)	vy duty)	26.5 mm 1/2 circle	AR-7242	
2-0 (3 metric)	18 inches	FiberWire, 1 strand (blue) w/Tapered Needle		17.9 mm 3/8 circle	AR-7220	
2-0 (3 metric)	38 inches	FiberWire, 1 strand (blue)			AR-7221	<b>S</b>
3-0 (2 metric)	18 inches	FiberWire, 1 strand (blue) w/Diamond Point Needle	lle	26.2 mm 3/8 circle	AR-7225	
3-0 (2 metric)	18 inches	FiberWire, 1 strand (blue) w/Tapered Needle		15 mm 3/8 circle	AR-7227-01	
3-0 (2 metric)	18 inches	FiberWire, 1 strand (blue) w/Reverse Cutting Needle	ille	16.3 mm 3/8 circle	AR-7227-02	
4-0 (1.5 metric)	18 inches	FiberWire, 1 strand (white) w/Diamond Point Needle	edle	18.7 mm 3/8 circle	AR-7248	
4-0 (1.5 metric)	18 inches	FiberWire, 1 strand (blue) w/Diamond Point Needle	lle	18.7 mm 3/8 circle	AR-7228	
4-0 (1.5 metric)	18 inches	FiberWire, 1 strand (blue) w/Tapered Needle		12.3 mm 3/8 circle	AR-7230-01	
4-0 (1.5 metric)	18 inches	FiberWire, 1 strand (blue) w/Reverse Cutting Needle	lle	11.9 mm 3/8 circle	AR-7230-02	
0 (3.5 metric)	38 inches	FiberWire, 1 strand (blue) w/Tapered Needle		22.2 mm 1/2 circle	AR-7250	
0 (3.5 metric)	38 inches	FiberWire, 1 strand (blue) w/Diamond Point Needle	lle	22.2 mm 1/2 circle	AR-7251	
4-0 (1.5 metric)	12 inches	FiberLoop, 1 strand (white) w/Tapered Needle		12.7 mm 1/2 circle	AR-7249-12	
4-0 (1.5 metric)	20 inches	FiberLoop, 1 strand (white) w/Tapered Needle		12.7 mm 1/2 circle	AR-7249-20	
4-0 (1.5 metric)	12 inches	FiberLoop, 1 strand (blue) w/Tapered Needle		17.9 mm 3/8 circle	AR-7229-12	
4-0 (1.5 metric)	20 inches	FiberLoop, 1 strand (blue) w/Tapered Needle		17.9 mm 3/8 circle	AR-7229-20	
2-0 (3 metric)	30 inches	FiberLoop, 1 strand (blue) w/Diamond Point Needle	dle	48 mm 1/2 circle	AR-7232-01	too large to show
2-0 (3 metric)	24 inches	FiberLoop, 1 strand (blue) w/Diamond Point Needle	dle	26.2 mm 3/8 circle	AR-7232-02	
2-0 (3 metric)	30 inches	FiberLoop, 1 strand (blue) w/Diamond Point Straight Needle	ght Needle	64.8 mm	AR-7232-03	too large to show
		FiberWire Scissor, small			AR-11797	
	SM	SMALL JOINT SUTURE ANCHORS W	URE ANCHORS WITH FIBERWIRE & NEEDLES	NEEDLES		
Suture Size	# of Sutures	Description	Disposable Kit	Anchor Dimensions	Cat Number	Actual Size
2-0 (3 metric)	1	Micro Bio-SutureTak	AR-1320DS	2.4 mm x 6.5 mm	AR-1320BNF	
2-0 (3 metric)	1	Mini Bio-SutureTak	AR-1322DS	2.4 mm x 8.5 mm	AR-1322BNF	
2-0 or 0 recommended	0	2.5 mm Bio-PushLock	AR-1322DS	2.5 mm x 7 mm	AR-8825B	
2-0 or 0 recommended	0	2.5 mm Peek PushLock	AR-1322DS	2.5 mm x 7 mm	AR-8825P	
1 (4 metric)	1	Bio-SutureTak w/Needles	AR-8934DS	3 mm x 14 mm	AR-8934BNF	
0 (3.5 metric)	2	Bio-Corkscrew w/Needles	Reusable Tap	3.7 mm x 17.9 mm	AR-1923BNF	
1 (4 metric)	2	Bio-Corkscrew FT Suture Anchor	Reusable Tap	5.5 mm x 15 mm	AR-8927BNF	
2-0 (3 metric)	1	Micro Corkscrew FT Suture Anchor	Included	2.2 mm x 4 mm	AR-1318FT	
2-0 (3 metric)	1	Mini Corkscrew FT Suture Anchor	Included	2.7 mm x 7 mm	AR-1319FT	
2-0 (3 metric)	1	Small Bone FASTak Suture Anchor	(self-drilling)	2.4 mm x 7.5 mm	AR-1322-752SF	
0 (3.5 metric)	2	Corkscrew Suture Anchor	(self-drilling)	3.5 mm x 12 mm	AR-1915SNF	
1 (4 metric)	2	Corkscrew Suture Anchor	(self-drilling)	5 mm x 15 mm	AR-1920SNF	



U.S. PATENT NOS. 5,964,783; 6,117,162; 6,214,031; 6,511,499; 6,544,281; 6,652,563; 6,716,234; 6,780,115; 6,916,333; 6,991,636; 7,029,490; 7,077,845; 7,147,651; 7,195,634; 7,226,469; 7,329,264; 7,329,272 and PATENTS PENDING