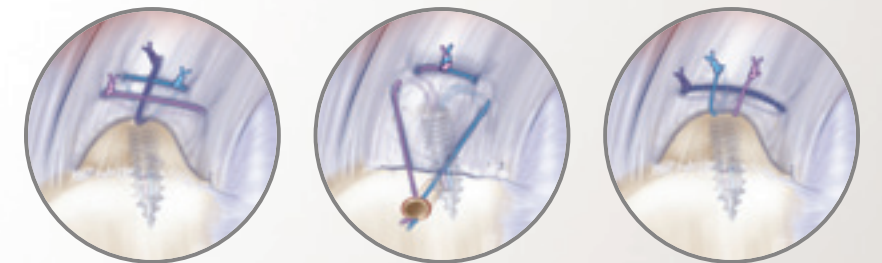




Dual Thread Suture Anchor with Titanium



Optimized Fixation in Rotator Cuff Repair



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P/N 901072, Rev. A 10/09

never stop moving™



never stop moving™



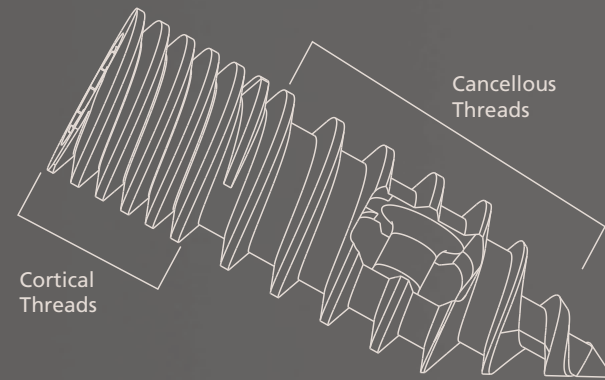
Ti Strength Data

Engineered with HEALIX Dual Thread Technology™

- DePuy Mitek's evolutionary HEALIX Suture Anchor is now offered with titanium for added strength

- Dual thread pattern maximizes pull-out strength² by independently engaging both cortical & cancellous bone

- Tactile feedback during transition from cancellous to cortical threads confirms anchor engagement and security



- HEALIX Ti is engineered to engage denser bone than Arthrex's Corkscrew FT¹

- Increased number of threads provides improved bone contact, purchase & bite



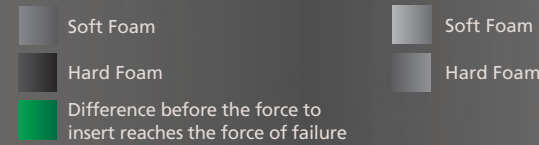
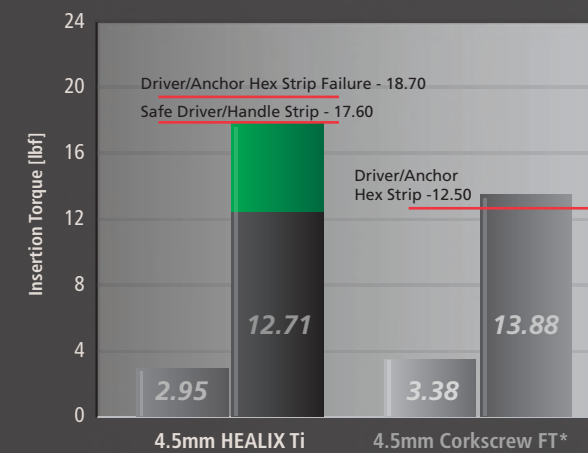
- Efficient trocar tip designs allows quick & easy anchor insertion without the need to pre-awl, or request additional instruments



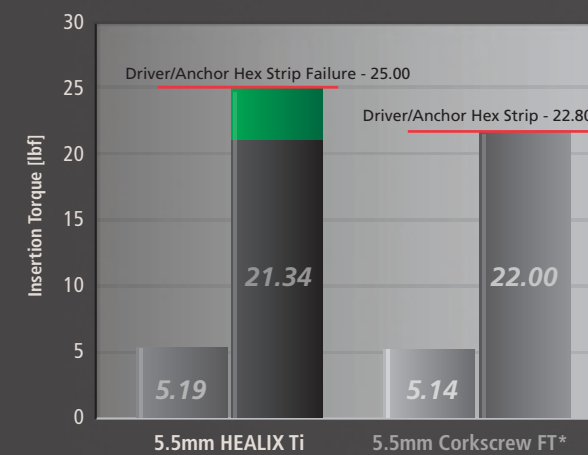
Insertion Torque

- Internally driven design provides increased torque capabilities and insertion confidence²

4.5mm HEALIX Ti Torque Capability¹



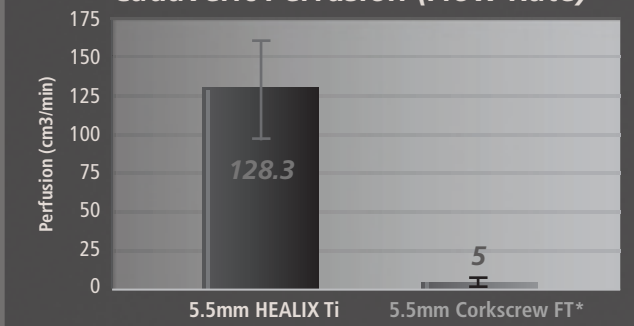
5.5mm HEALIX Ti Torque Capability³



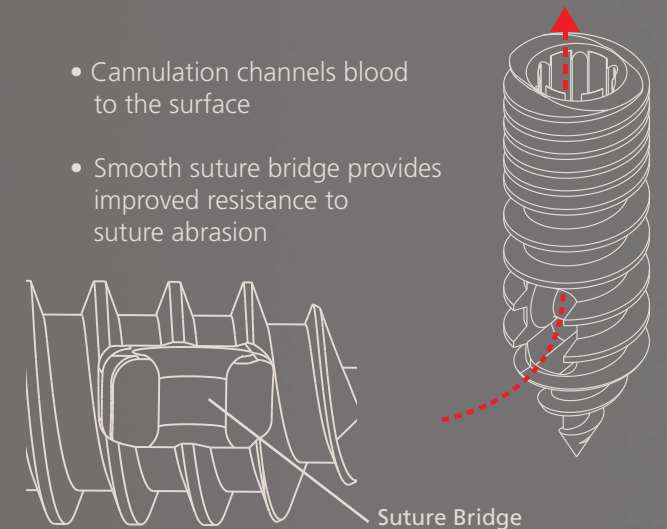
Ti Attributes

Optimized Fixation in Rotator Cuff Repair

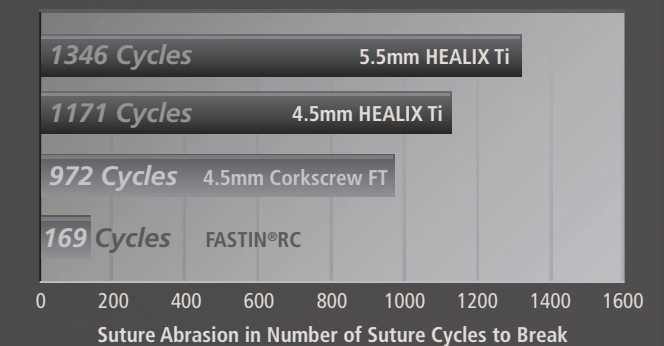
Cadaveric Perfusion (Flow Rate)¹



- Cannulation channels blood to the surface
- Smooth suture bridge provides improved resistance to suture abrasion

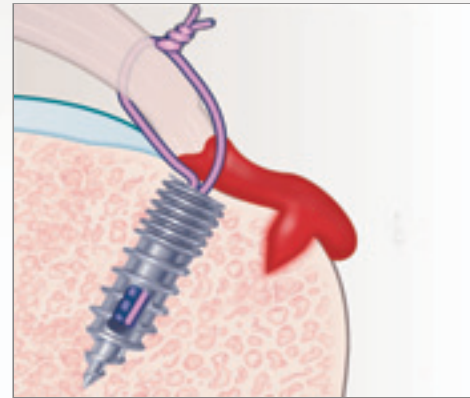
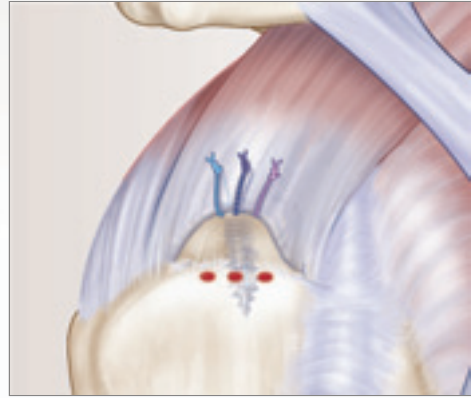


Suture Abrasion Resistance¹



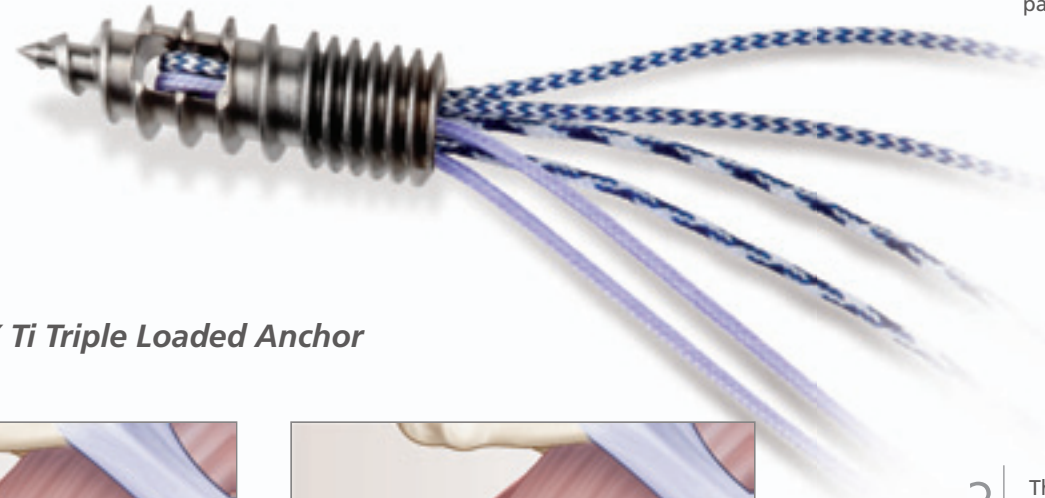
- ORTHOCORD® Suture now with the NEW blue striped 3rd suture
 - 55 lbs of tensile strength³
 - 45% less stiff than Fiberwire**

Technique I | Single-Row Rotator Cuff Repair with HEALIX Ti Triple Loaded Anchor

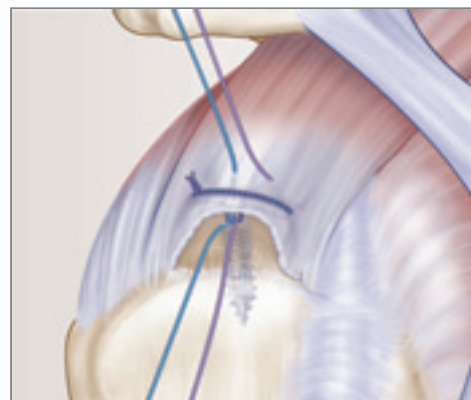
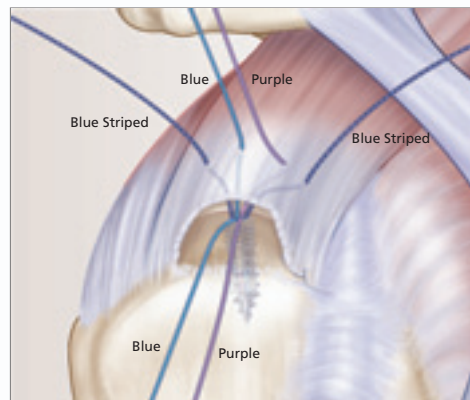


1 For the simple repair three suture passes are made per anchor. The medial limb of each suture closer to the RC is then passed through the RC using either a shuttle technique with DePuy Mitek IDEAL™ Suture Graspers or an EXPRESSEW® II device. The three limbs are equidistantly spaced apart. Once all sutures are passed they are sequentially tied using a locking sliding knot and then follow up with three alternating half hitches.

2 A lateral microfracture is performed with a small awl (2-3mm diameter holes by 3-4mm in depth) to promote blood flow to the healing site (Crimson Duvet).



Technique II | Mason-Alex⁷ with HEALIX Ti Triple Loaded Anchor

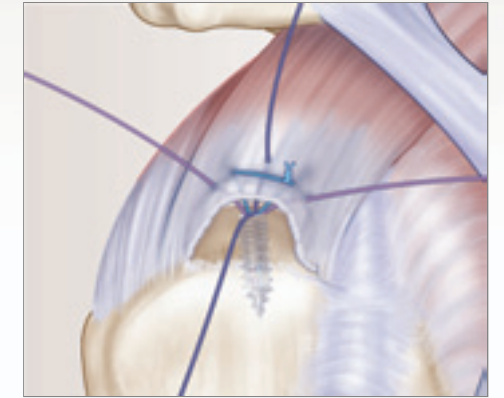
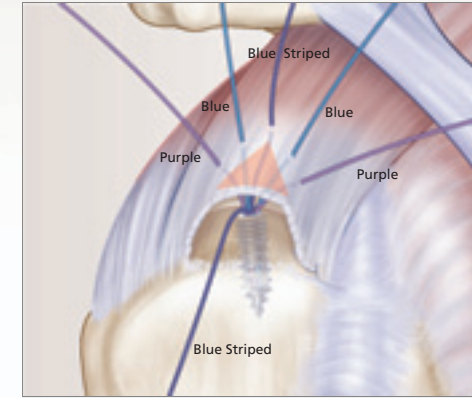


1 The two blue striped ORTHOCORD® suture limbs are passed through the RC as a horizontal mattress with the medial limbs of the blue and purple passed more medially and between the mattress. Simply, pass 1 is posterior lateral and is the blue striped. Next, pass 2 and 3 (purple & blue) are made as simple passes using more medial limbs closer to the tissue. Pass 4 is blue striped and that is anterior lateral.

2 A wide lateral horizontal mattress is created with passes 1 and 4 and the mattress stitch is then tied first.

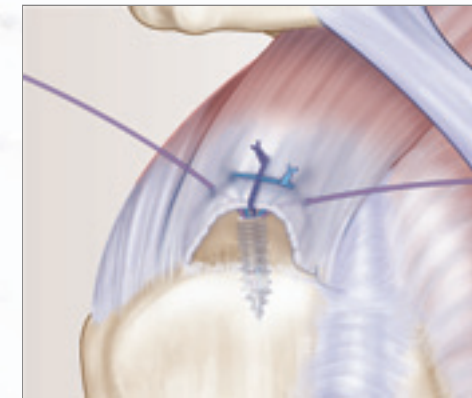
3 The two simple stitches are then tied over the mattress stitch. A microfracture is then performed laterally on the tuberosity to stimulate blood flow to the surface (Crimson Duvet).

Technique III | Pyramid Stitch with HEALIX Ti Triple Loaded Anchor



1 Passes are typically made from posterior to anterior with the purple stitch as a laterally based wider mattress (pass 1,5), the blue ORTHOCORD® stitch as a narrower and more medial mattress (pass 2,4) and the blue striped medial limb passed at the apex (most medial) of the triangle as pass 3.

2 The blue ORTHOCORD sutures are tied first as a medial mattress (limbs 2 and 4).



3 The blue striped ORTHOCORD is then tied over the top of the medial mattress as a simple stitch.

4 The second most lateral mattress (purple ORTHOCORD) is lastly tied over the top of the simple stitch completing the repair. A microfracture is then performed laterally on the tuberosity to stimulate blood flow to the surface (Crimson Duvet).

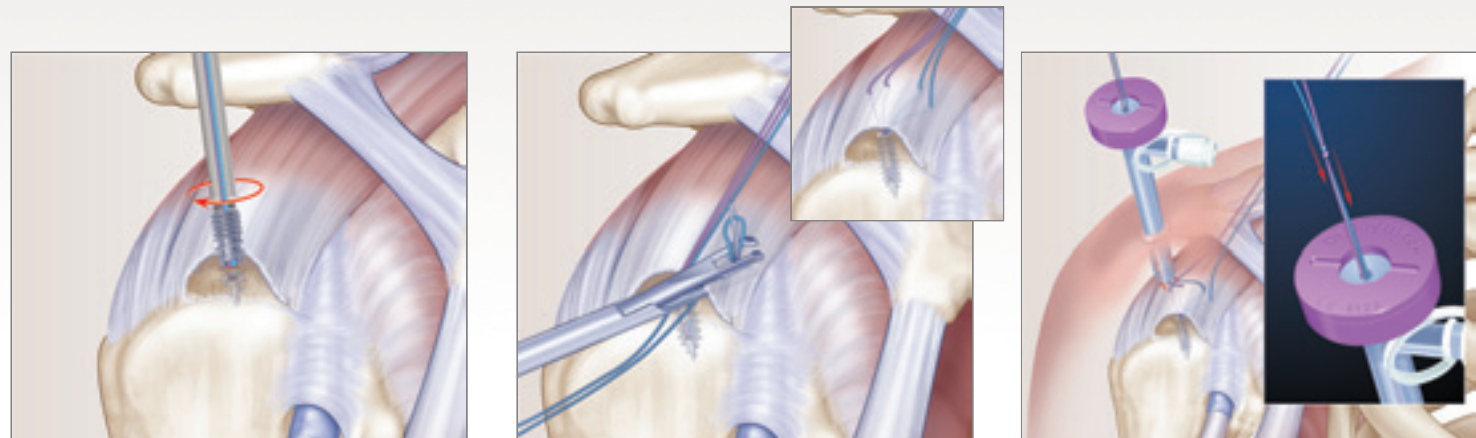




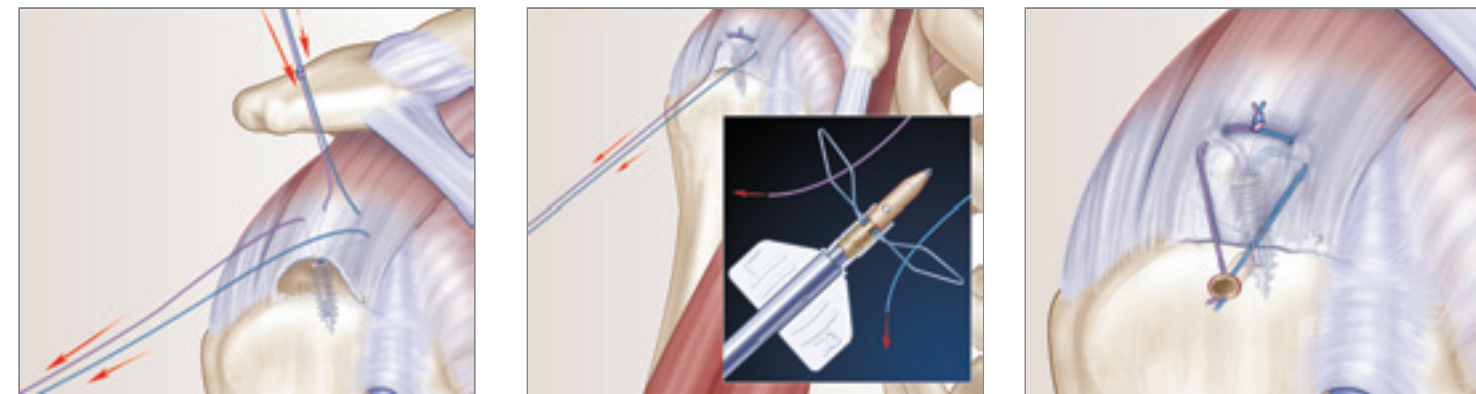
Engineered with HEALIX Dual Thread Technology™

HEALIX Ti product breadth provides versatility to address the demands from a wide variety of techniques & tear configurations

- Sizes (4.5mm, 5.5mm, 6.5mm)
- Arthroscopic and Needle versions
- Comes preloaded with 2 or 3 strands of ORTHOCORD® Suture

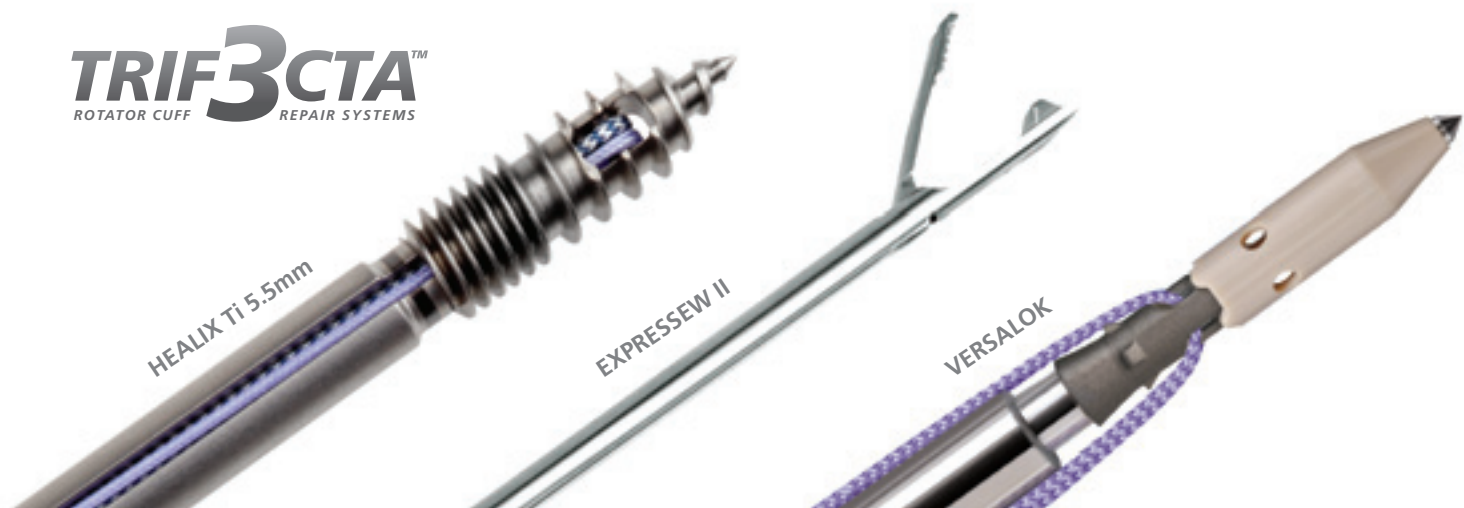


- 1 Insert HEALIX Ti™ Dual Threaded Suture Anchor adjacent to the articular margin on the medial tuberosity.
- 2 Group like colored suture limbs together and pass either anteriorly or posteriorly with EXPRESSEW® II Flexible Suture Passer.
- 3 Grasp and remove inner suture limbs (one purple and one blue) together and tie a secure knot outside the shoulder.



- 4 Pull opposite limbs to advance knot into the subacromial space securing the medial aspect in a mattress fashion.
- 5 Place limbs into a VERSALOK® Suture Anchor. Insert VERSALOK Anchor into the bone and load deployment gun. Once sutures are tensioned deploy anchor.
- 6 Rotate VERSALOK inserter in a counterclockwise manner to remove inserter. Cut sutures and probe final repair.

PRODUCT#	DESCRIPTION	PRODUCT#	DESCRIPTION
HEALIX Ti™ Anchor			
222253	4.5mm HEALIX Ti Anchor w/ORTHOCORD®	210808	VERSALOK Anchor w/ ORTHOCORD
222245	5.5mm HEALIX Ti Anchor w/ORTHOCORD	214710	Deployment Gun
222249	6.5mm HEALIX Ti Anchor w/ORTHOCORD	214711	2.9mm Awl
222242	5.5mm HEALIX Ti Anchor w/ORTHOCORD and Needles	EXPRESSEW® II Flexible Suture Passer	
222248	6.5mm HEALIX Ti Anchor w/ORTHOCORD and Needles	214004	EXPRESSEW II Device
222271	4.5mm HEALIX Ti 3-Suture Anchor w/ORTHOCORD	214005	EXPRESSEW II Needles 5/box
222243	5.5mm HEALIX Ti 3-Suture Anchor w/ORTHOCORD	270120	Grasper-Grabber Suture/Tendon Grabber
222241	6.5mm HEALIX Ti 3-Suture Anchor w/ORTHOCORD	NEW Clear Cannula System	
HEALIX BR™ Anchor			
222229	4.5mm HEALIX BR Anchor w/ ORTHOCORD	214106	5.5mm x 75mm Smooth
222233	5.5mm HEALIX BR Anchor w/ ORTHOCORD	214114	7.0mm x 75mm Smooth
222238	6.5mm HEALIX BR Anchor w/ ORTHOCORD	214107	5.5mm x 75mm Smooth with Distal Rib
222232	5.5mm HEALIX BR Anchor w/ ORTHOCORD w/ Needles	214115	7.0mm x 75mm Smooth with Distal Rib
222239	6.5mm HEALIX BR Anchor w/ ORTHOCORD w/ Needles	214104	5.5mm x 55mm Threaded
HEALIX PEEK™ Anchor			
222205	4.5mm HEALIX PEEK Anchor w/ ORTHOCORD	214118	8.5mm x 55mm Threaded
222209	5.5mm HEALIX PEEK Anchor w/ ORTHOCORD	214108	5.5mm x 75mm Threaded
222221	6.5mm HEALIX PEEK Anchor w/ ORTHOCORD	214116	7.0mm x 75mm Threaded
222210	5.5mm HEALIX PEEK Anchor w/ ORTHOCORD and Needles	214120	8.5mm x 75mm Threaded
222215	6.5mm HEALIX PEEK Anchor w/ ORTHOCORD and Needles	214110	5.5mm x 90mm Threaded
222207	5.5mm HEALIX PEEK 3-Suture w/ ORTHOCORD	214122	8.5mm x 90mm Threaded
222219	6.5mm HEALIX PEEK 3-Suture w/ ORTHOCORD	IDEAL™ Suture Shuttle with CHIA™	
HEALIX Instruments (For use with HEALIX BR & HEALIX PEEK)			
222223	HEALIX Awl™	251001	IDEAL Suture Shuttle, 25° Left
222226	4.5mm HEALIX Cortical Awl/Tap™	251002	IDEAL Suture Shuttle, 25° Right
222251	5.5mm HEALIX Cortical Awl/Tap	251003	IDEAL Suture Shuttle, 45° Left
222272	4.5mm HEALIX Full Awl/Tap	251004	IDEAL Suture Shuttle, 45° Right
222224	5.5mm HEALIX Full Awl/Tap	251005	IDEAL Suture Shuttle, 90° Up
222225	6.5mm HEALIX Full Awl/Tap	251006	IDEAL Suture Shuttle, Straight Hook
		251007	IDEAL Suture Shuttle, Straight Crescent
CHIA PERCPASSER™			
		214101	CHIA PERCPASSER Suture Passer



*Corkscrew FT is a trademark of Arthrex Inc. Naples FL
**Fiberwire is a registered trademark of Arthrex, Inc. Naples FL

1. Data on File at DePuy Mitek, Inc.
2. Compared with Arthrex Corkscrew FT Anchor.
3. Professor Pascal Boileau M.D. et al, The Mattress-Tension-Band (MTB) Technique: A Knotless Double-Row Arthroscopic Rotator Cuff Repair, Shoulder Concepts 2008 Arthroscopy & Arthroplasty, pp 245, 2008 May.
4. Burks RT., Crim J., Brown N., Fink B. Greis PE. A prospective randomized clinical trial comparing arthroscopic single- and double-row rotator cuff repair: magnetic resonance imaging and early clinical evaluation. American Journal of Sports Medicine. 37(4):674-82, 2009 Apr.

5. Grasso A., Milano G., Salvatore M., Falcone G., Deriu L., Fabbriciani C., Single-row versus double-row arthroscopic rotator cuff repair: a prospective randomized clinical study. Arthroscopy. 25(1):4-12, 2009 Jan.
6. Franceschi F., Ruzzini L., Longo UG., Martina FM., Zobel BB., Maffulli N., Denaro V. Equivalent clinical results of arthroscopic single-row and double-row suture anchor repair for rotator cuff tears: a randomized controlled trial. American Journal of Sports Medicine. 35(8):1254-60, 2007 Aug.
7. Castagna A., Garofalo R., Conti M., Borroni M., Snyder SJ. Arthroscopic rotator cuff repair using a triple-loaded suture anchor and a modified Mason-Allen technique (Alex stitch). Arthroscopy. 23(4):440.e1-4, 2007 Apr.