

+ Instability excellence

Redefining peak performance

Smith+Nephew



Redefining peak performance

Elevate your expertise for shoulder instability repairs. With solutions ranging from simple to complex, Smith+Nephew's Instability Excellence portfolio is setting new standards to take you to the next level while returning your patients to peak performance.

No matter the repair, the procedure or the pathology, Smith+Nephew's Instability Excellence portfolio has you covered. Regardless of the complexity, you'll find solutions around the entirety of the glenoid including; soft tissue repairs, boney Bankart repairs and glenoid bone loss.

Our Instability Excellence portfolio includes:

Q-FIX[◇]
All-Suture Anchor

MICRORAPTOR[◇]
REGENESORB[◇]
Suture Anchor

MICRORAPTOR
KNOTLESS
Suture Anchor

GLENOID BONE
LOSS SYSTEMS
Advanced Instability Solutions



Our total package of evidence-backed solutions coupled with an extensive medical education program is redefining peak performance so together, we can redefine shoulder repair.



Soft tissue and boney Bankart repairs

Q-FIX[®] Suture Anchor

Consistent deployment¹⁻³

The active deployment against the inserter shaft and the tensioning of the sutures to at least 140N contributes to the low displacement during cyclic loading^{*4-8}

Fixation strength

Shown to provide greater fixation strength when compared to other commercially available all-suture anchors^{**5,6}

* As demonstrated in benchtop testing

** As demonstrated in benchtop testing;(1.8mm) Compared to Zimmer Biomet JuggerKnot[™] 1.45 (#1 and #2), Conmed Y-Knot[™] Flex 1.3 and Stryker Iconix 1



Improve access to challenging shoulder anatomy with the Q-FIX Curved Drill Guide, complete with intuitive visual and tactile cues.⁹

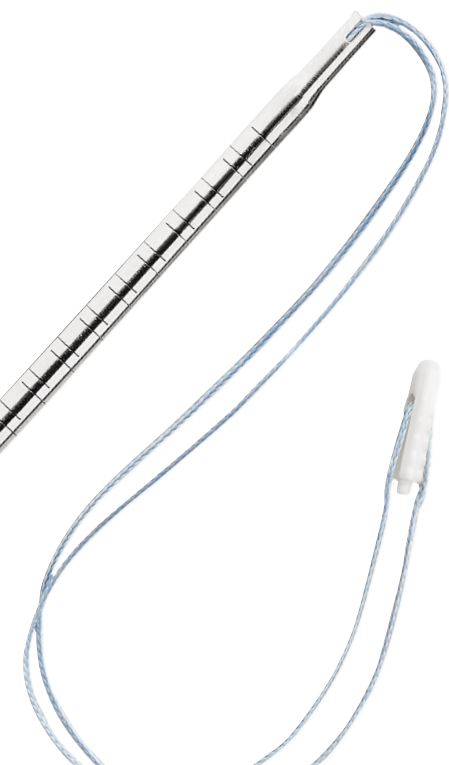
MICRORAPTOR[®] REGENESORB[®] Suture Anchor

Compact size

The MICRORAPTOR REGENESORB Suture Anchor's small diameter (2mm area) and short pilot hole depth (14.8mm) allows you to place multiple anchors for increased points of fixation around the acetabulum or glenoid, contributing to a secure repair.

Fixation strength

An innovative, rectangular anchor that tapers towards the distal tip to increase points of fixation.



MICRORAPTOR KNOTLESS Suture Anchor

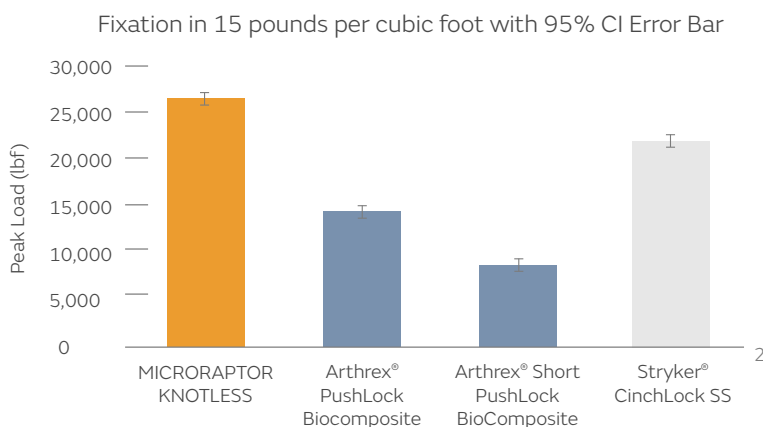
Off-axis insertion

With a full-length inserter and a rigid implant design, gain increased access to challenging areas¹⁰ with a greater improved off-axis insertion performance^{*11}

* As demonstrated in benchtop testing, compared to Arthrex PushLock™ BioComposite 2.9 mm. Based on REGENESORB® variant.

Fixation strength

On average, MICRORAPTOR KNOTLESS Suture Anchor provides significantly ($p < 0.001$) greater fixation¹²



MINITAPE Suture

A smooth suture tape

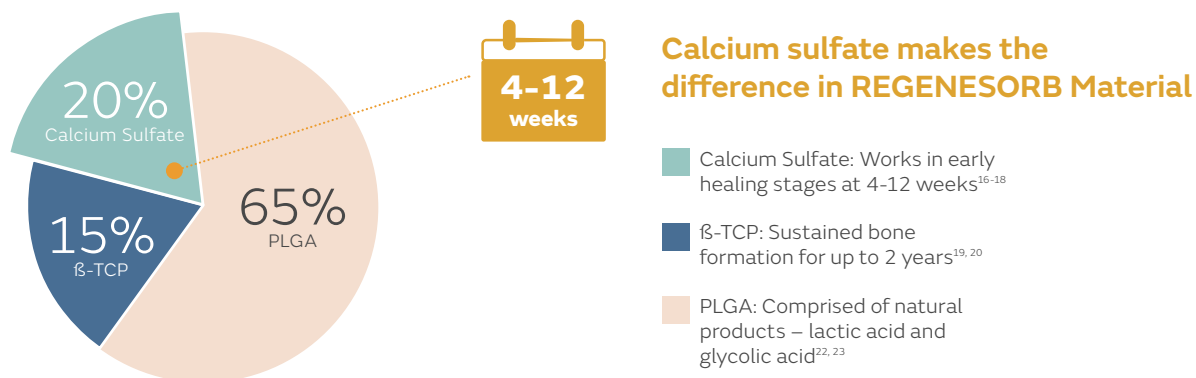
Low profile and designed to evenly distribute pressure.

- 71% higher anchor fixation strength than Arthrex® Short PushLock BioComposite
- 47% higher anchor fixation strength than Arthrex® PushLock BioComposite
- 21% higher anchor fixation strength than Stryker® CinchLock SS knotless anchor

REGENESORB[◇] Material

No other biocomposite can do this. A unique formulation of proven materials.

REGENESORB material is designed to provide a jump start in bone healing and formation.



Absorption and bone replacement

Timeline of implant

REGENESORB material is designed to remain mechanically stable for a minimum of six months** before being absorbed and effectively replaced by bone within 24 months. ^{*13-15,23,24}



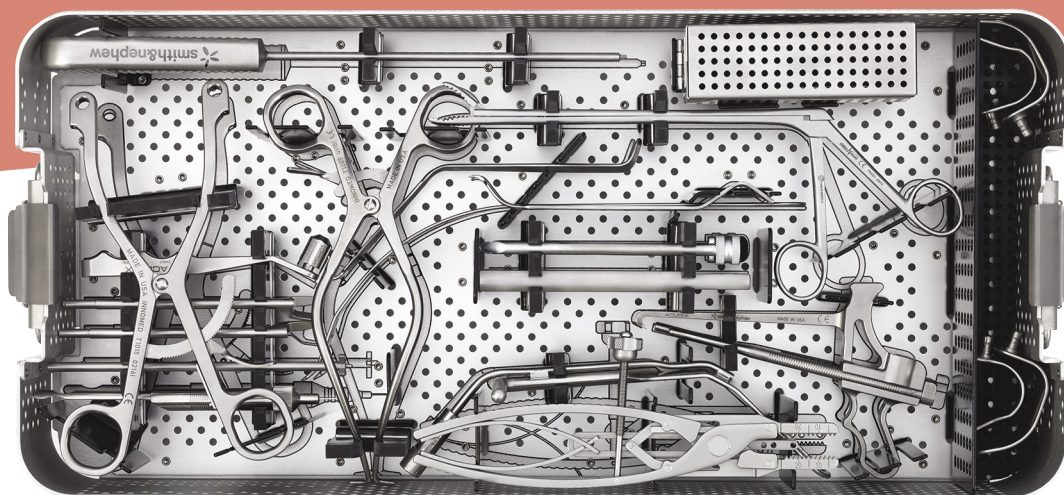
* Demonstrated clinically and in vivo

** As demonstrated in vitro

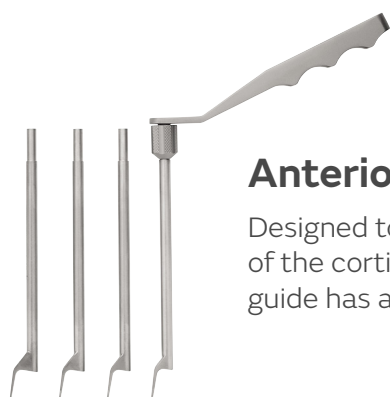


Glenoid Bone Loss

Reach a new level with our comprehensive Glenoid Bone Loss System. A system designed to be accurate, reproducible and efficient every step of the way, leading to an optimized bone graft placement.

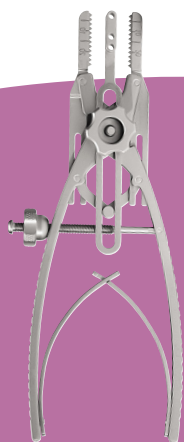
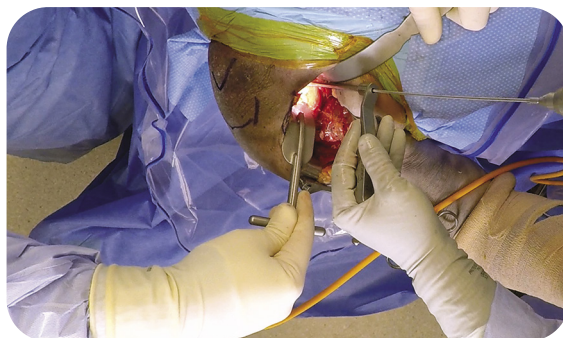


MiniOpen Latarjet and Bone Block Tray



Anterior glenoid drill guide

Designed to help minimize the breaching of the cortical surface, the anterior drill guide has a 10-degree divergent angle.



Graft preparation tool

The Coracoid Prep Tool provides the ability to securely hold, fully prepare and accurately drill the bone graft with one instrument.



Arthroscopic Enabling Technology

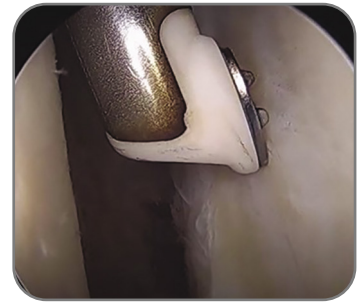
FLOW 90° COBLATION® Wand



- Significantly faster ablation rate than other frequently used 90-degree arthroscopy wands^{*37}
- Significantly more efficient at ablation than other frequently used 90-degree arthroscopy wands^{**37}

*As demonstrated in vitro when tested at default settings; $p < 0.05$

**As demonstrated in vitro when tested at default settings; $p < 0.01$



DYONICS® PLATINUM FLYER® Shaver Blade

- Minimizes potential for damage to surrounding tissues during insertion and removal^{*38}

*n=8



ACUFEX® ACCESS Positioning System

- Lateral decubitus positioning made easy³³
- Designed with ease of use in mind, this lightweight³⁴ and stable solution^{35, 36} gives you unimpeded access to the repair site.³³⁻³⁵



Suture Passing

ACCU-PASS[®] Disposable Suture Shuttles

Controlled with a simple thumb wheel for one-handed operation; available in eight different tip configurations.

- Options provide flexibility in both procedure and technique
- Solid one-piece shaft designed to resist bending and breakage
- Sterile, single patient use
- Suture passing and shuttling for instability, plications and side to side repairs



FIRSTPASS[®] MINI Family of Suture Passers

With the goal of providing a reliable, versatile and easy-to-use system, these suture passers are designed to help facilitate procedures executed in tight spaces.

- Reliability through a fully-disposable system with a preloaded needle³⁹⁻⁴²
- Versatility to pass #2 ULTRABRAID[®] Suture or ULTRATAPE[®] Suture
- Accessibility through straight and 17-degree left and right curved jaw options



Ordering information

Q-FIX° All-Suture Anchor	
Reference #	Description
1.8mm Q-FIX and 1.8mm Q-FIX All-Suture Anchors	
72290123	1.8mm Q-FIX MINI All-Suture Anchor
25-1800	1.8mm Q-FIX All-Suture Anchor
Disposable Kits	
Reference #	Description
72290125	1.8mm Q-FIX MINI Kit, disposable
72290126	1.8mm Q-FIX MINI Kit XL, disposable
25-1810	1.8mm Q-FIX Kit, disposable
25-1811	1.8mm Q-FIX Kit XL, disposable
Reusable Instruments	
Reference #	Description
72290032	1.8mm Q-FIX Drill Guide, reusable
72290034	1.8mm Q-FIX Drill Guide XL, reusable
72290120	1.8mm Q-FIX Curved Drill Guide, reusable
72290119	1.8mm Q-FIX Curved Drill Guide XL, reusable
72290033	1.8mm Q-FIX Obturator, reusable
25-1812	1.8mm Q-FIX PATHFINDER Obturator, reusable
Disposable Accessories	
Reference #	Description
72290024	1.8mm Q-FIX MINI Straight Drill, disposable
72290030	1.8mm Q-FIX Straight Drill, disposable
72290118	1.8mm Q-FIX Flexible Drill, disposable
MICRORAPTOR° REGENESORB° Suture anchor and Compatible Devices	
Reference #	Description
Suture Anchors	
72204983	MICRORAPTOR REGENESORB Suture Anchor with ONE ULTRABRAID° #1 Suture (Blue)
72204984	MICRORAPTOR REGENESORB Suture Anchor with ONE ULTRABRAID #1 Suture (Blue COBRAID)

Drill Guides, Drills and Obturators	
Reference #	Description
72204988	MICRORAPTOR Drill
72205267	MICRORAPTOR Hard Bone Drill, 1.8mm
72204991	MICRORAPTOR Drill Guide, Crown Tip
72204992	MICRORAPTOR Drill Guide, Spike Tip
72204993	MICRORAPTOR Drill Guide, Crown Tip, Curved
72204995	MICRORAPTOR Drill Guide, Fishmouth Tip
72204999	MICRORAPTOR Obturator, Blunt Tip
72205000	MICRORAPTOR Obturator, Blunt Tip, Cannulated
72205001	MICRORAPTOR Obturator, Trocar Tip
MICRORAPTOR KNOTLESS Suture Anchor and Compatibility System	
Reference #	Description
Implants	
72205021	MICRORAPTOR KNOTLESS Peek Suture Anchor
Drill Guides, Drills and Obturators	
Reference #	Description
72204991	MICRORAPTOR Drill Guide, Crown Tip
72204992	MICRORAPTOR Drill Guide, Spike Tip
72204995	MICRORAPTOR Drill Guide, Fishmouth Tip
72205022	MICRORAPTOR KNOTLESS Drill, 2.2mm
72205169	MICRORAPTOR KNOTLESS Drill, 2.6mm
72204999	MICRORAPTOR Obturator, Blunt Tip
72205000	MICRORAPTOR Obturator, Blunt Tip, Cannulated
72205001	MICRORAPTOR Obturator, Trocar Tip
MINITAPE	
Reference #	Description
72205129	MINITAPE COBRAID White
72205128	MINITAPE COBRAID Blue
72205127	MINITAPE Blue

Ordering information (cont.)

Glenoid Bone Loss	
Reference #	Description
Glenoid Bone Loss Instrument Sets	
7193R001	MiniOpen Latarjet Instruments
7193R002	MiniOpen + Arthroscopically Assisted Latarjet Instruments
7193R003	Arthroscopic Latarjet + Bone Block Instruments
7193R004	Arthroscopic Latarjet Instruments
7193R005	Arthroscopic Bone Block Instruments
Glenoid Bone Loss Consumables	
Reference #	Description
71934993	RND ENDBTN POST SST W-SZ3/4 SUTURE LOOP
71934989	RND ENDBTN 1-HOLE SST FOR SZ3/4 STRE LP
71934990	ROUND ENDOBUTTON 2-HOLE SS
014771	T-FIX® RCG STERILE PAC (2.8 mm Drill with Sleeve)
71933035	2.7MM DRL BIT W/QCK CNCT STD TIP
71935042	Reciprocating Saw Blade
71935043	STRAIGHT CUT RASP (Reciprocating)
013593	SUTURE RETRIEVER (BOX 6)
72201361	ACCU-PASS SUT SHUTTLE MONOFILAMENT #1
DYONICS® PLATINUM BLADES	
Reference #	Description
DYONICS PLATINUM FLYER Blade	
72205292	4.0mm FLYER PLATINUM
SYNOVATOR® PLATINUM Blades	
Reference #	Description
72205107	3.5mm SYNOVATOR PLATINUM
72203523	4.5mm SYNOVATOR PLATINUM
72205110	4.5mm Curved SYNOVATOR PLATINUM
72203524	5.5mm SYNOVATOR PLATINUM

Patient Positioning Systems	
Reference #	Description
ACUFEX® ACCESS Patient Positioning System	
72205268	ACUFEX Access Positioning System includes: ACUFEX Access Positioning System ACUFEX Access Cart
T-MAX Beach Chair Positioner	
Reference #	Description
7210551	T-MAX Beach Chair Positioner includes: Chair and Pad Assembly Head Positioning Assembly Table Leg Assembly Knee Bolster Lateral support (2 units)
SPIDER2 Limb Positioner	
Reference #	Description
72203299	SPIDER2 Limb Positioner includes: SPIDER2 Limb Positioner Battery Charger Foot Pedal
COBLATION® Wands	
Reference #	Description
72290038	FLOW 90°
AC4340-01	COVATOR®
ACCU-PASS® Suture Shuttles	
Reference #	Description
7210423	ACCU-PASS 45°, left
7210424	ACCU-PASS 45, right
7210425	ACCU-PASS 45, Upbend
7210426	ACCU-PASS Straight
7210427	ACCU-PASS Crescent
72200419	ACCU-PASS 70°, Upbend
72200418	ACCU-PASS, big curve
72201076	ACCU-PASS, J hook

Ordering information (cont.)

FIRSTPASS® MINI Suture Passer	
Reference #	Description
72290128	FIRSTPASS MINI Suture Passer
72290129	FIRSTPASS MINI Left Curved Suture Passer
72290130	FIRSTPASS MINI Right Curved Suture Passer

References

- 1.** ArthroCare Corporation 2016. Report: Design Verification, 1.8mm & 2.8 mm Q-Fix Suture Anchor P/N 49190-01 Rev.B. **2.** ArthroCare Corporation 2017. Report: Design Verification, 1.8mm Q-FIX MINI Soft Suture Anchor P/N 49190-03 Rev. B. **3.** Smith+Nephew 2020. Safety and Performance of Q-Fix All-Suture Anchor System 17-5010-11. **4.** ArthroCare 2019. Comparative Testing of Bone Anchor Devices, 1.8mm Q-FIX Mini Soft Suture Anchor P/N 49193-02 Rev.B. **5.** Barber FA, Herbert MA. All-Suture Anchors: Biomechanical Analysis of Pullout Strength, Displacement, and Failure Mode. *Arthroscopy*. 2017;33(6):1113-1121. **6.** Douglass NP, Behn AW, Safran MR. Cyclic and Load to Failure Properties of All-Suture Anchors in Synthetic Acetabular and Glenoid Cancellous Bone. *Arthroscopy*. 2017;33(5):977-985 e975. **7.** Nagra NS, Zargar N, Smith RD, Carr AJ. Mechanical properties of all-suture anchors for rotator cuff repair. *Bone Joint Res*. 2017;6(2):82-89. **8.** Ruder JA, Dickinson EY, Peindl RD, Habet NA, Trofa DP, Fleischli JE. Cyclic and Load-to-Failure Properties of All-Suture Anchors in Human Cadaveric Shoulder Glenoid Bone. *Arthroscopy*. 2019;35(7):1954-1959 e1954. **9.** ArthroCare Corporation 2017. Report: Design Validation, Q-FIX Reusable Curved Drill Guides and Disposable Flex Drill, Irvine CA P/N 92017-01 Rev. A. **10.** Smith+Nephew 2019. Validation, Microraptor Knotless, Shoulder 15007981 Revision A. **11.** Smith+Nephew 2019. Comp, MICRORAPTOR KNOTLESS Off Axis Insertion Claim Testing 15008464 Revision A. **12.** Smith+Nephew 2019. Comp, Microraptor Knotless Anchor Fixation Claim Testing 15008252 Revision A. **13.** Vonhoejen J, John D, Hägermann C. 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Usability Validation Report 15007361. **34.** Smith and Nephew 2018 Verification: ACUFEX Access General Function 15007192. **35.** Smith and Nephew 2018. LSS - System Stability Design Verification. 15007263. **36.** Smith and Nephew 2018. LSPS, Hand Stability, Verification. 15007351. **37.** Smith+Nephew 2020. Report, Performance Characterization, 90 Degree Sports Medicine Wands Manufactured by Smith & Nephew, DePuy, Stryker, Arthrex, and Conmed. P/N 112090 Rev.A. **38.** Smith+Nephew 2020. Design Validation Testing, 4.0mm Platinum Flyer Blade 15009195 Rev.A. **39.** ArthroCare Corporation 2018. Report: FirstPass Mini Suture Passer Design Verification. P/N 90445-02 Rev.A. **40.** Smith & Nephew 2018. Report: FirstPass Mini Suture Passer Design Verification (Left and Right Versions). P/N 90445-03 Rev.A. **41.** ArthroCare Corporation 2017. Report: FirstPass Mini Design Validation. P/N 91840-01 Rev.A. **42.** Smith & Nephew 2018. Report: FirstPass Mini L&R Design Validation. P/N 91840-02 Rev.A.

Smith & Nephew Pty Ltd
Australia
T +61 2 9857 3999
F +61 2 9857 3900

Smith & Nephew Ltd
New Zealand
T +64 9 820 2840
F +64 9 820 2841

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