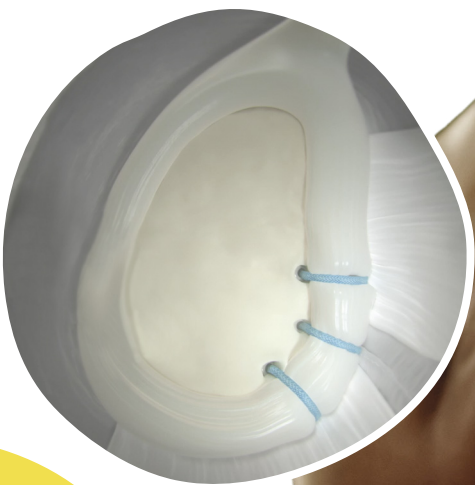


# + Instability excellence

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<sup>◇</sup>

All-Suture Anchor

SUTUREFIX<sup>◇</sup>

All-Suture Anchor

MICRORAPTOR<sup>◇</sup>  
REGENESORB<sup>◇</sup>

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<sup>®</sup> Suture Anchor

### Consistent deployment<sup>1-3</sup>

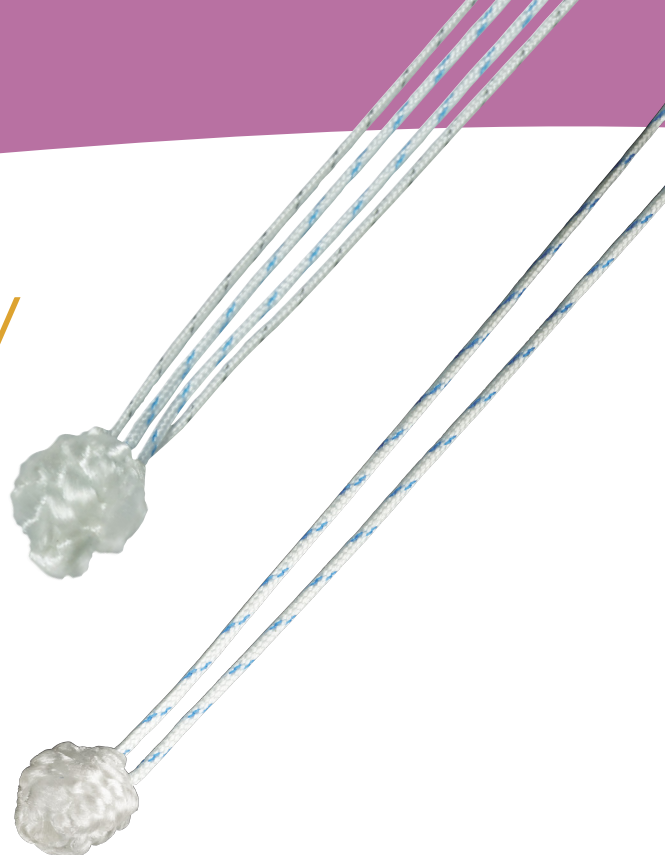
The active deployment against the inserter shaft and the tensioning of the sutures to at least 140N contributes to the low displacement during cyclic loading<sup>\*4-8</sup>

### Fixation strength

Shown to provide greater fixation strength when compared to other commercially available all-suture anchors<sup>\*\*5,6</sup>

\* As demonstrated in benchtop testing

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



## SUTUREFIX<sup>®</sup> All-Suture Anchor

### Deploys against the inserter, not cortical bone

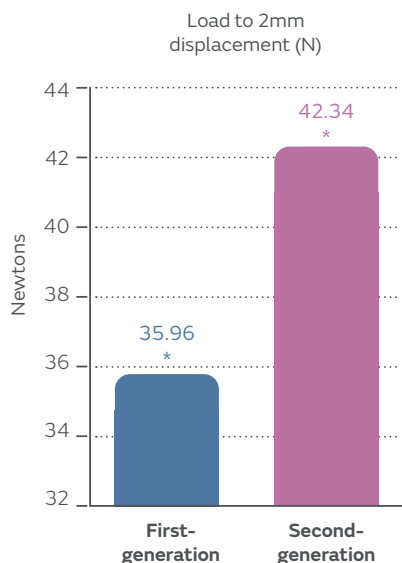
The majority of All-Suture Anchors rely on first-generation technology that requires the suture strands to be pulled back against the cortical bone in order to deploy them.<sup>2</sup> In comparison, SUTUREFIX All-Suture Anchors represent a second-generation deployment mechanism in which the anchor deploys against the steel inserter rather than the bone itself,<sup>2</sup> so deployment is therefore less dependent upon bone density.



### Significantly better displacement than first-generation all-suture anchors<sup>2</sup>

SUTUREFIX All-Suture Anchors showed a significantly higher force required to displace 2mm as compared to first generation all-suture anchors (represented here by the Biomet JuggerKnot<sup>®</sup> Soft Anchor)<sup>2</sup>.

- Analysis of variance (ANOVA) test to compare the first- and second-generation suture anchor groups.
- First-generation all-suture anchor: Biomet JuggerKnot<sup>®</sup> Soft Anchor.
- Second-generation all-suture anchor: Smith+Nephew SUTUREFIX All-Suture Anchor



\* P < .001

## MICRORAPTOR<sup>®</sup> KNOTLESS Suture Anchor

### Off-axis insertion

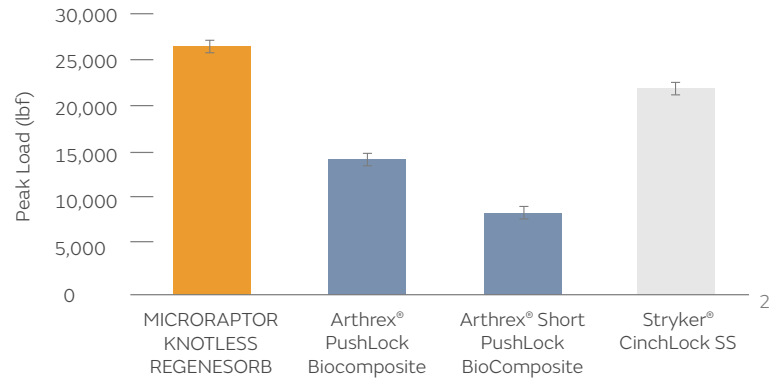
With a full-length inserter and a rigid implant design, gain increased access to challenging areas<sup>10</sup> with a greater improved off-axis insertion performance<sup>\*11</sup>

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

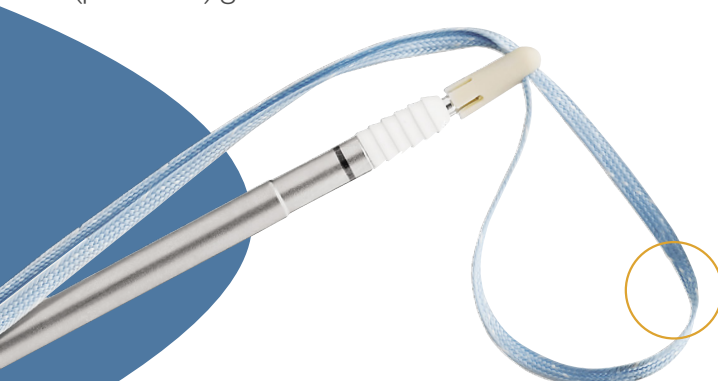
### Fixation strength

On average, MICRORAPTOR KNOTLESS Suture Anchor provides significantly ( $p < 0.001$ ) greater fixation<sup>12</sup>

Fixation in 15 pounds per cubic foot with 95% CI Error Bar



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



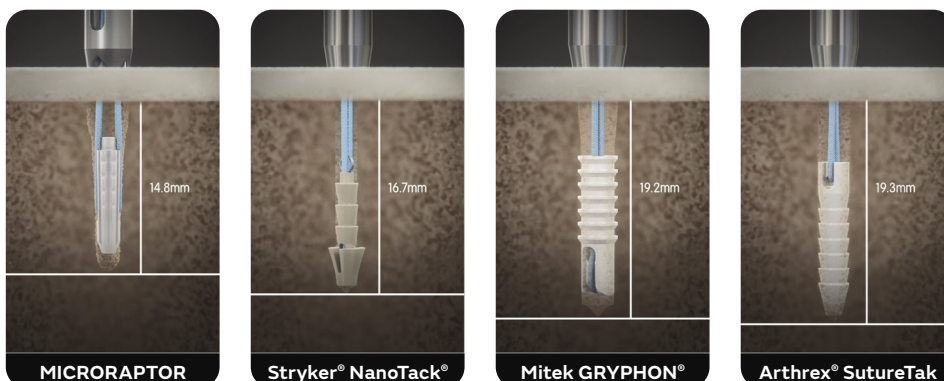
#### MINITAPE Suture

##### A smooth suture tape

Low profile and designed to evenly distribute pressure.

## MICRORAPTOR<sup>®</sup> REGENESORB<sup>®</sup> Suture Anchor

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.



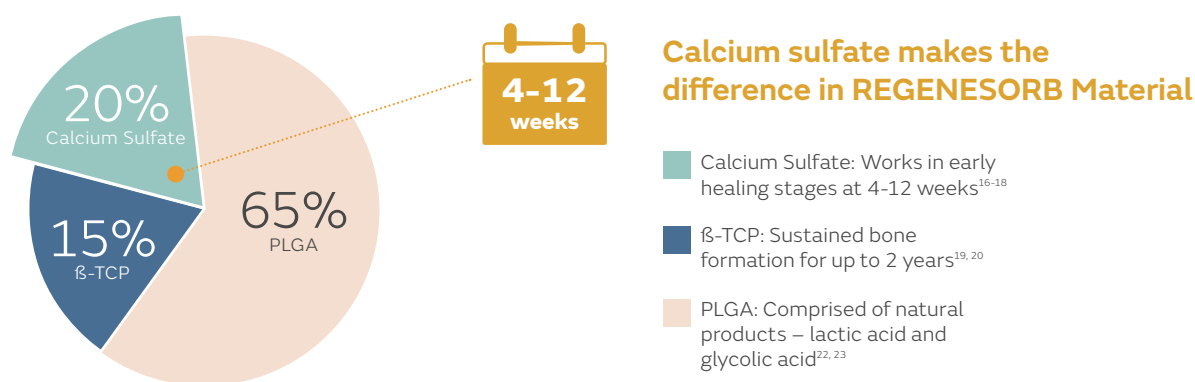
### Fixation strength

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

# REGENESORB<sup>®</sup> Material

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

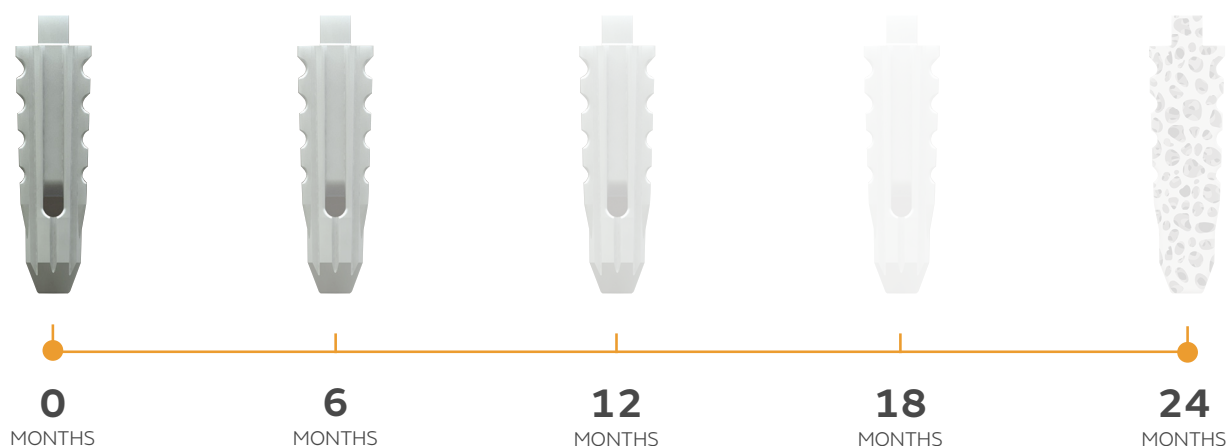
REGENESORB material is designed to provide a jump start in bone healing and formation.



## Absorption and bone replacement

### Replaced by bone

Smith+Nephew REGENESORB material is designed to remain mechanically stable for a minimum of six months\* before being absorbed and replaced by bone within 24 months.<sup>\*13-15,23,24</sup>



\* As demonstrated in vitro

\*\* Demonstrated clinically and in vivo

**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.**



## A new type of fixation...

- Demonstrated healing rates of over 90% in patients with shoulder instability<sup>25-30</sup>
- Shown to be biomechanically equivalent to screw fixation<sup>\*31</sup>
- Reduced procedure complications due to hardware, when compared to standard screw fixation<sup>\*\*32</sup>
- In a study of patients with chronic recurrent anterior gleno-humeral instability, 82.1% returned to sport at the preinjury level<sup>\*\*\*28</sup>

\*As demonstrated in the Latarjet-Bristow procedure

\*\*n=27 vs 115 screws

\*\*\*n=28



Healing  
rates of over  
**90%** <sup>26-31</sup>

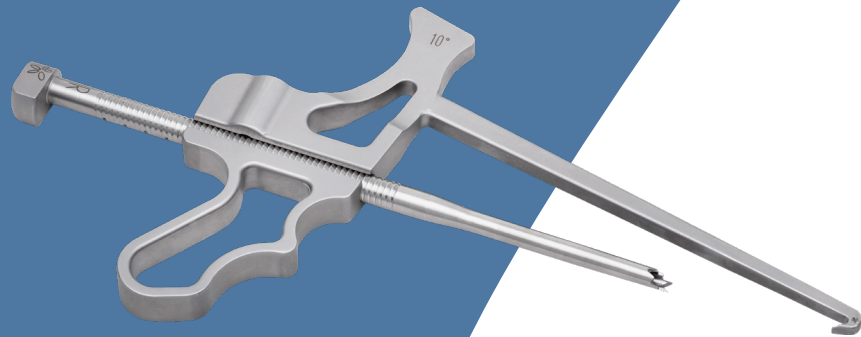
**Biomechanically equivalent to  
screw fixation<sup>32</sup>**

**Reduced procedure complications  
when compared to screw fixation\*<sup>33</sup>**

**82.1% of patients returned to sport  
at pre-injury level \*\*<sup>29</sup>**

# Posterior Drilling for Arthroscopic Latarjet and Arthroscopic Bone Block

Posterior Drill Guides are designed to accurately drill glenoid tunnels and subsequently place the bone graft

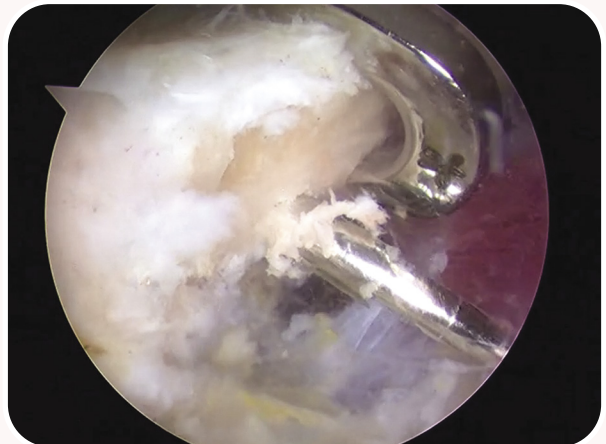
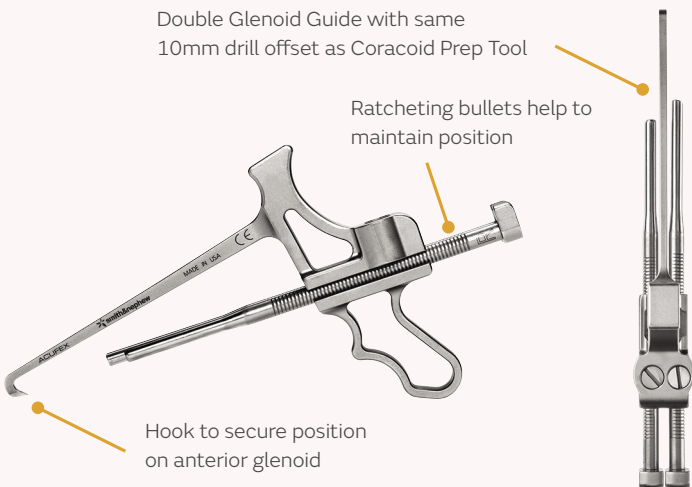


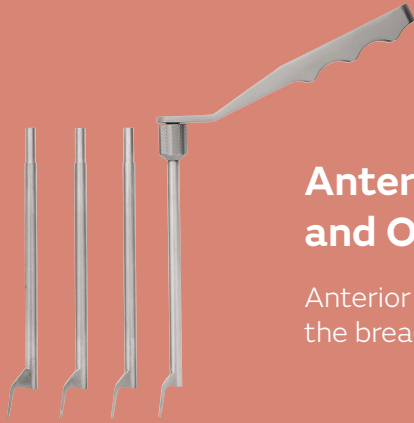
Posterior Glenoid Drill Guide: Step closer to an arthroscopic approach

Double Glenoid Guide with same 10mm drill offset as Coracoid Prep Tool

Ratcheting bullets help to maintain position

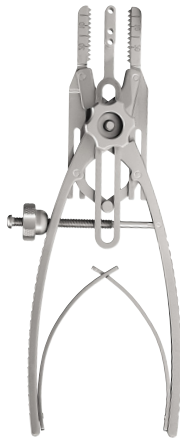
Hook to secure position on anterior glenoid





## **Anterior Drilling for Open Latarjet and Open Bone Block**

Anterior Drill Guides are designed to help minimize the breaching of the cortical surface.



## **Graft Preparation Tool for Open Latarjet and Bone Block**

The graft preparation tool provides the ability to securely hold, fully prepare and accurately drill the bone graft



# Ordering information

| Q-FIX® All-Suture Anchor                                             |                                                                                   |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Reference #                                                          | Description                                                                       |
| <b>1.8mm Q-FIX and 1.8mm Q-FIX All-Suture Anchors</b>                |                                                                                   |
| 72290123                                                             | 1.8mm Q-FIX MINI All-Suture Anchor                                                |
| 25-1800                                                              | 1.8mm Q-FIX All-Suture Anchor                                                     |
| <b>Disposable Kits</b>                                               |                                                                                   |
| 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                                                    |
| <b>Reusable Instruments</b>                                          |                                                                                   |
| 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                                        |
| <b>Disposable Accessories</b>                                        |                                                                                   |
| 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                                            |
| <b>MICRORAPTOR® REGENESORB® Suture anchor and Compatible Devices</b> |                                                                                   |
| Reference #                                                          | Description                                                                       |
| <b>Suture Anchors</b>                                                |                                                                                   |
| 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             |
| <b>MICRORAPTOR KNOTLESS Suture Anchor and Compatibility System</b> |                                               |
| Reference #                                                        | Description                                   |
| <b>Implants</b>                                                    |                                               |
| 72205020                                                           | MICRORAPTOR KNOTLESS REGENESORB Suture Anchor |
| 72205021                                                           | MICRORAPTOR KNOTLESS Peek Suture Anchor       |
| <b>Drill Guides, Drills and Obturators</b>                         |                                               |
| 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             |
| <b>MINITAPE</b>                                                    |                                               |
| 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 <sup>®</sup> 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 <sup>®</sup> PLATINUM BLADES   |                                                               |
| Reference #                            | Description                                                   |
| DYONICS PLATINUM FLYER Blade           |                                                               |
| 72205292                               | 4.0mm FLYER PLATINUM                                          |
| SYNOVATOR <sup>®</sup> 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 <sup>®</sup> ACCESS Patient Positioning System |                                                                                                                                                                  |
| 72205268                                              | ACUFEX Access Positioning System includes:<br>ACUFEX Access Positioning System<br>ACUFEX Access Cart                                                             |
| T-MAX Beach Chair Positioner                          |                                                                                                                                                                  |
| Reference #                                           | Description                                                                                                                                                      |
| 7210551                                               | T-MAX Beach Chair Positioner includes:<br>Chair and Pad Assembly<br>Head Positioning Assembly<br>Table Leg Assembly<br>Knee Bolster<br>Lateral support (2 units) |
| SPIDER2 Limb Positioner                               |                                                                                                                                                                  |
| Reference #                                           | Description                                                                                                                                                      |
| 72203299                                              | SPIDER2 Limb Positioner includes:<br>SPIDER2 Limb Positioner<br>Battery<br>Charger<br>Foot Pedal                                                                 |
| COBLATION <sup>®</sup> Wands                          |                                                                                                                                                                  |
| Reference #                                           | Description                                                                                                                                                      |
| 72290038                                              | FLOW 90 <sup>°</sup>                                                                                                                                             |
| AC4340-01                                             | COVATOR <sup>®</sup>                                                                                                                                             |
| ACCU-PASS <sup>®</sup> Suture Shuttles                |                                                                                                                                                                  |
| Reference #                                           | Description                                                                                                                                                      |
| 7210423                                               | ACCU-PASS 45 <sup>°</sup> , left                                                                                                                                 |
| 7210424                                               | ACCU-PASS 45, right                                                                                                                                              |
| 7210425                                               | ACCU-PASS 45, Upbend                                                                                                                                             |
| 7210426                                               | ACCU-PASS Straight                                                                                                                                               |
| 7210427                                               | ACCU-PASS Crescent                                                                                                                                               |
| 72200419                                              | ACCU-PASS 70 <sup>°</sup> , Upbend                                                                                                                               |
| 72200418                                              | ACCU-PASS, big curve                                                                                                                                             |
| 72201076                                              | ACCU-PASS, J hook                                                                                                                                                |

## Ordering information (cont.)

| SUTUREFIX® ULTRA Suture Anchors and Instrumentation Systems for Shoulder |                                                                                 |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Reference #                                                              | Description                                                                     |
| <b>Anchors:</b>                                                          |                                                                                 |
| 72203852                                                                 | SUTUREFIX ULTRA Anchor 1.7mm S with one (#2) ULTRABRAID™ suture (blue)          |
| 72203853                                                                 | SUTUREFIX ULTRA Anchor 1.7mm S with one COBRAID (#2) ULTRABRAID Suture (blue)   |
| 72203854                                                                 | SUTUREFIX ULTRA Anchor 1.9mm S with two (#1) ULTRABRAID Sutures (COBRAID-blue)  |
| <b>Drills:</b>                                                           |                                                                                 |
| 72203855                                                                 | Twist drill 1.7mm S                                                             |
| 72203856                                                                 | Twist drill 1.9mm S                                                             |
| <b>Drill Guide &amp; Obturators:</b>                                     |                                                                                 |
| 72203857                                                                 | Drill Guide crown tip, Reusable, S                                              |
| 72203859                                                                 | Drill Guide Fishmouth tip, Reusable, S                                          |
| 72203861                                                                 | Obturator, Blunt tip, Reusable, S                                               |
| 72203862                                                                 | Obturator, Cannulated, Reusable, S                                              |
| 72203863                                                                 | Obturator, Trocar tip, Reusable, S                                              |
| SUTUREFIX ULTRA Suture Anchors and Instrumentation Systems for Hip       |                                                                                 |
| <b>Anchors:</b>                                                          |                                                                                 |
| 72203841                                                                 | SUTUREFIX ULTRA Anchor 1.7 mm XL with one (#2) ULTRABRAID suture (blue)         |
| 72203842                                                                 | SUTUREFIX ULTRA Anchor 1.7 mm XL with one (#2) ULTRABRAID suture (COBRAID-blue) |
| <b>Drills:</b>                                                           |                                                                                 |
| 72204669                                                                 | SUTUREFIX ULTRA Drill 1.7mm XL, Disposable                                      |
| <b>Drill Guide &amp; Obturators:</b>                                     |                                                                                 |
| 72203844                                                                 | Drill Guide XL, Crown Tip                                                       |
| 72203845                                                                 | Drill Guide XL, Spike Tip                                                       |
| 72203846                                                                 | Obturator XL, Blunt Tip                                                         |
| 72203899                                                                 | Obturator XL, Cannulated, Blunt Tip                                             |
| <b>Knot Pusher:</b>                                                      |                                                                                 |
| 72203850                                                                 | ELITE™ Knot Pusher XL                                                           |

| SUTUREFIX CURVED Suture Anchors and Instrumentation Systems for Shoulder |                                                                                 |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Reference #                                                              | Description                                                                     |
| <b>Anchors:</b>                                                          |                                                                                 |
| 72204687                                                                 | SUTUREFIX CURVED Anchor 1.7mm with one (#2) ULTRABRAID suture (blue)            |
| 72204688                                                                 | SUTUREFIX CURVED Anchor 1.7mm with one (#2) ULTRABRAID suture (COBRAID-blue)    |
| 72204689                                                                 | SUTUREFIX CURVED Anchor 1.9mm with two (#1) ULTRABRAID sutures (blue)           |
| <b>Drills:</b>                                                           |                                                                                 |
| 72204690                                                                 | SUTUREFIX CURVED 1.7, Shoulder Flexible Drill                                   |
| 72204691                                                                 | SUTUREFIX CURVED 1.9, Shoulder Flexible Drill                                   |
| <b>Drill Guide &amp; Obturators:</b>                                     |                                                                                 |
| 72204692                                                                 | SUTUREFIX CURVED Shoulder Drill Guide, Crown tip, Reusable                      |
| 72204694                                                                 | SUTUREFIX CURVED Shoulder Obturator, Reusable                                   |
| 72205141                                                                 | SUTUREFIX Straight Guide for Ultra/Curved Devices, Shoulder Length              |
| SUTUREFIX CURVED Suture Anchors and Instrumentation Systems for Hip      |                                                                                 |
| <b>Anchors:</b>                                                          |                                                                                 |
| 72205060                                                                 | SUTUREFIX CURVED XL Anchor 1.7mm with one (#2) ULTRABRAID suture (blue)         |
| 72205061                                                                 | SUTUREFIX CURVED XL Anchor 1.7mm with one (#2) ULTRABRAID suture (COBRAID-blue) |
| <b>Drills:</b>                                                           |                                                                                 |
| 72205062                                                                 | SUTUREFIX CURVED 1.7, XL Flexible Drill                                         |
| <b>Drill Guide &amp; Obturators:</b>                                     |                                                                                 |
| 72205063                                                                 | SUTUREFIX CURVED XL Drill Guide, Crown tip                                      |
| 72205064                                                                 | SUTUREFIX CURVED XL Obturator                                                   |

---

## 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.** Vonhoegen J, John D, Hägermann C. Osteoconductive resorption characteristics of a novel biocomposite suture anchor material in rotator cuff repair. *Orthop Traumatol Surg Res*. 2019;14(1):12. **14.** Smith+Nephew 2010. Micro-CT and histological evaluation of specimens from resorbable screw study (RS-II / OM1-08) 24-month post-implantation. Internal Report WRP-TE045-700-08. **15.** Smith+Nephew 2016. HEALICOIL REGENESORB Suture Anchor – a study to assess implant replacement by bone over a 2 year period. NCS248. **16.** Constantino, Friedman. Synthetic Bone Graft Substitutes. *Otolaryngol Clin North Am*. 1994 27(5):1037-1074. **17.** Walsh WR, Morberg P, Yu Y, et al. Response of a calcium sulfate bone graft substitute in a confined cancellous defect. *Clin Orthop Relat Res*. 2003(406):228-236. **18.** Calori GM, Mazza E, Colombo M, Ripamonti C. The use of bone-graft substitutes in large bone defects: Any specific needs? *Injury*. 2011;42(2):S56-S63. **19.** Arai E, Nakashima H, Tsukushi S, et al. Regenerating the fibula with beta-tricalcium phosphate minimizes morbidity after fibula resection. *Clin Orthop Relat Res*. 2005(431):233-237. **20.** Gaasbeek RD, Toonen HG, van Heerwaarden RJ, Buma P. Mechanism of bone incorporation of beta-TCP bone substitute in open wedge tibial osteotomy in patients. *Biomaterials*. 2005;26(33):6713-6719. **21.** Park K, Skidmore S, Hadar J, et al. Injectable, long-acting PLGA formulations: Analyzing PLGA and understanding microparticle formation. *J Control Release*. 2019;304:125-134. **22.** Chu C-C. Section IV:44, Biodegradable Polymeric Biomaterials: An Updated Overview. In: *The Biomedical Engineering Handbook*. Bronzino JD Ed. CRC Press.; 1995. **23.** Smith+Nephew 2019 Verification, Microraptor Knotless Real Time Degredation. Revision B. Internal Report 15007134. **24.** Smith+Nephew 2019. Verification, Microraptor Knotless Accelerated Degredation. Internal Report 15007045. **25.** Boileau P, Duysens C, Saliken D, Lemmex D, Bonneville N. All-arthroscopic, guided Eden-Hybbinette procedure using suture-button fixation for revision of failed Latarjet. *J Shoulder Elbow Surg*. 2019;28(11):e377-e388. **26.** Gendre P, Thélou C, d'Ollonne T, Trojani C, Boileau P. Coracoid bone block fixation with cortical buttons: An alternative to screw fixation? *Orthopaedics & Traumatology: Surgery & Research*. 2016;102(8):983-987. **27.** Boileau P, Saliken D, Gendre P, et al. Arthroscopic Latarjet: Suture-Button Fixation Is a Safe and Reliable Alternative to Screw Fixation. *Arthroscopy*. 2019;35(4):1050-1061. **28.** Taverna E, Longo UG, Guarrella V, et al. A new mini-open technique of arthroscopically assisted Latarjet. *BMC Musculoskeletal Disorders*. 2020;21(1). **29.** Taverna E, Garavaglia G, Perfetti C, Ufenast H, Sconfienza L, Guarrella V. An arthroscopic bone block procedure is effective in restoring stability, allowing return to sports in cases of glenohumeral instability with glenoid bone deficiency. *Knee Surg Sports Traumatol Arthrosc*. 2018;26(12):3780-3787. **30.** Boileau P, Gendre P, Baba M, et al. A guided surgical approach and novel fixation method for arthroscopic Latarjet. *Journal of shoulder and elbow surgery*. 2016;25(1):78-89. **31.** Kazum E, Chechik O, Pritsch T, et al. Biomechanical evaluation of suture buttons versus cortical screws in the Latarjet-Bristow procedure: a fresh-frozen cadavers study. *Arch Orthop Trauma Surg*. 2019;139(12):1779-1783. **32.** Metais P, Clavert P, Barth J, et al. Preliminary clinical outcomes of Latarjet-Patte coracoid transfer by arthroscopy vs. open surgery: Prospective multicentre study of 390 cases. *Orthop Traumatol Surg Res*. 2016;102(8s):S271-s276 **33.** Smith+Nephew 2018. 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.

Learn more at [smith-nephew.com](https://smith-nephew.com)

◇Trademark of Smith+Nephew. ©May 2021  
Smith+Nephew. All trademarks acknowledged.  
24898-EMEA V4 0421

