DynaNite® Reduction Staple

Surgical Technique



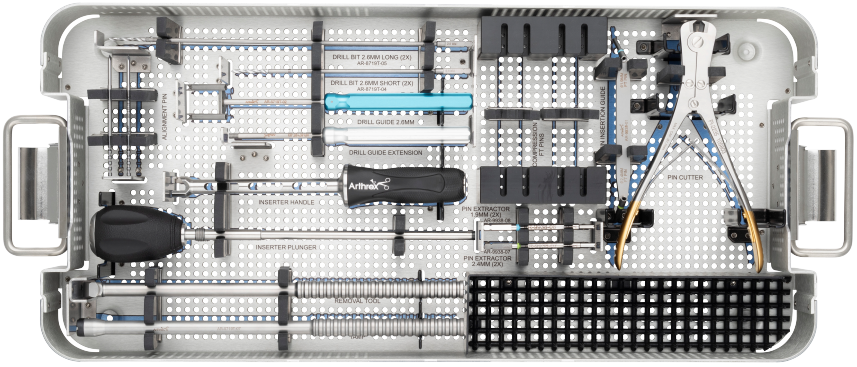
Arthrex®



DynaNite® Reduction Staple

Introduction

The DynaNite Reduction staple is designed with fracture reduction for trauma procedures in mind. Elongated instrumentation has been curated to enhance access to the fracture site while respecting soft tissue.

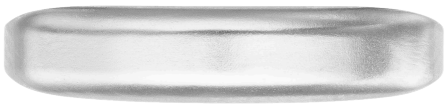


DynaNite Reduction Staple Technology

- Enhancements to the staple design mimic key reduction tools, providing a more permanent tool for reduction and stabilization.
- 8 mm leg length is optimized for unicortical fixation combined with nails, plates, and screws.
- Two bridge options are available to address a variety of fracture patterns and anatomic sites.



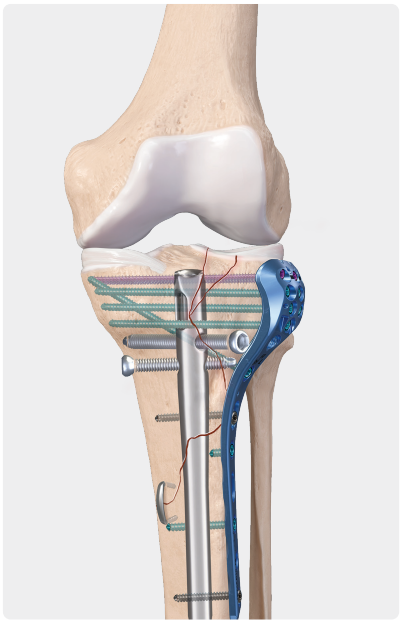
DynaNite Reduction Staple

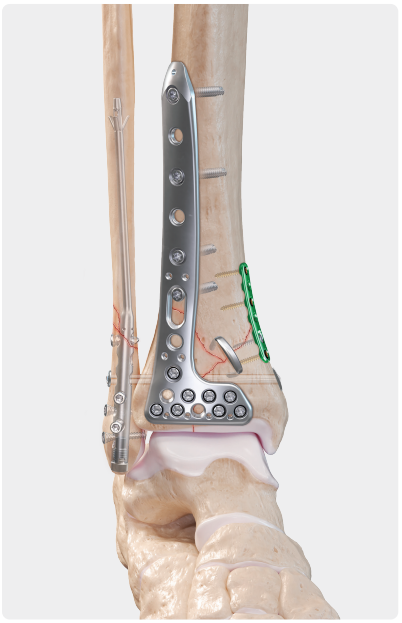


SuperMX™ Reduction Staple

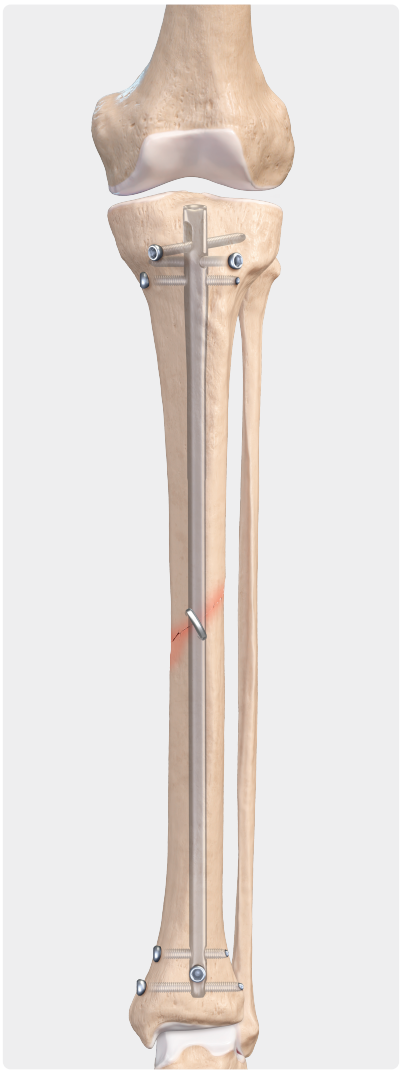
Applications





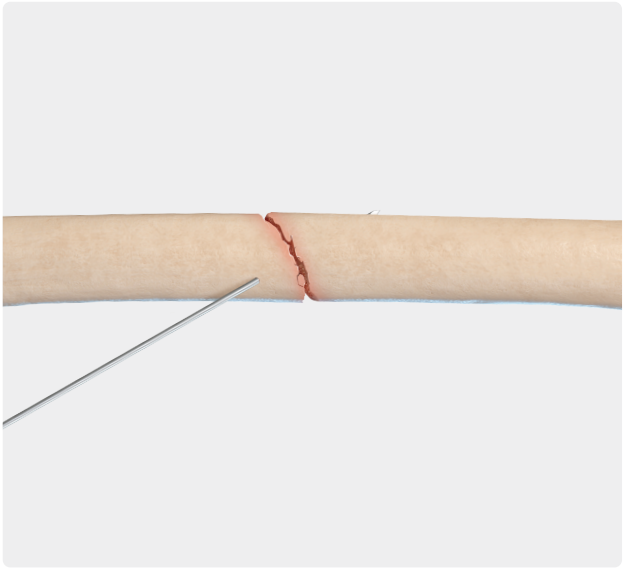






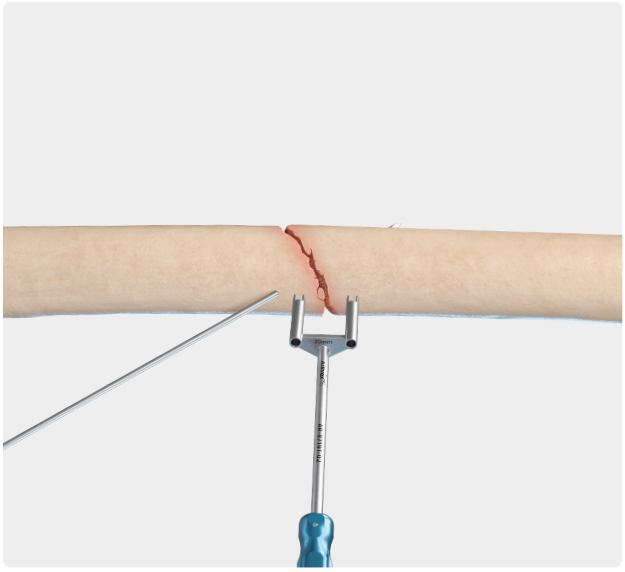


Surgical Technique



1

Prepare the surgical site by reducing the fracture using clamps or guidewires placed outside the trajectory of the DynaNite Reduction staples.

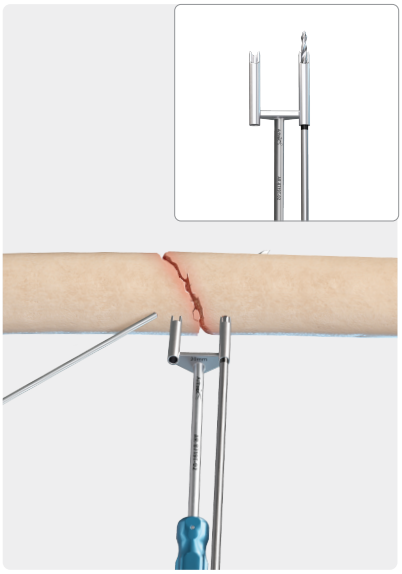


2

Center the drill guide across the fracture.

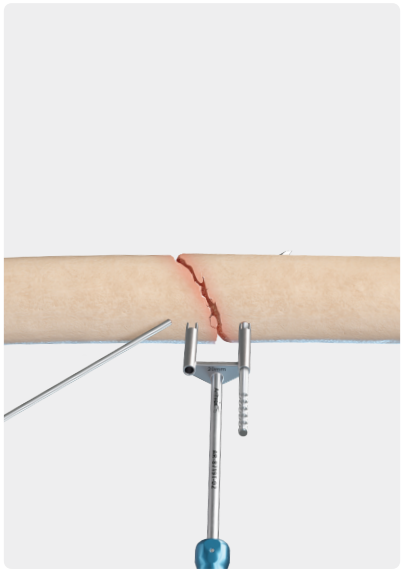


Note: If additional length is required to reach the bone, the drill guide extension may be attached to the drill guide.



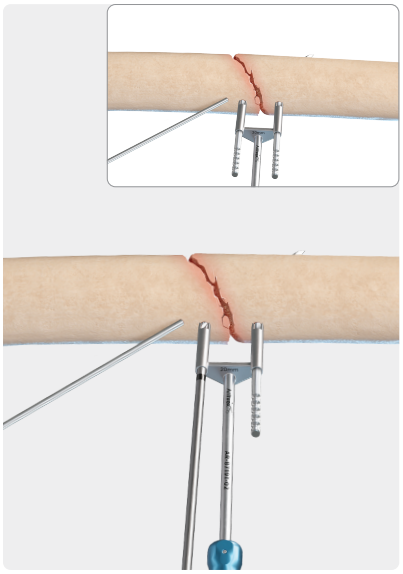
3

Drill the first tunnel for the staple leg, using the 2.6 mm drill, through one side of the drill guide. Drill to the black laser line on the drill bit.



4

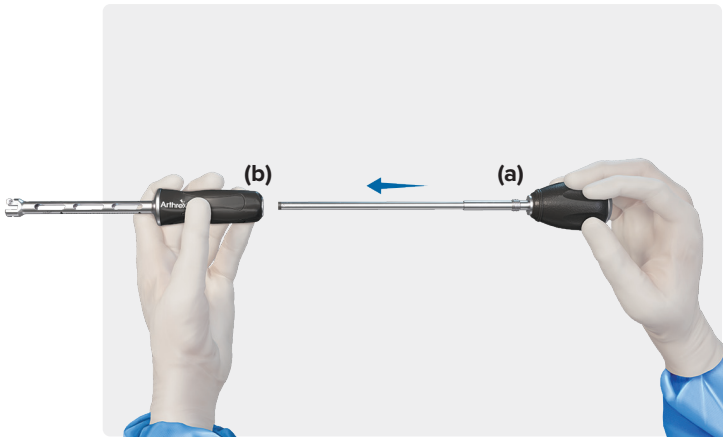
After drilling, place the alignment pin within the drill tunnel.



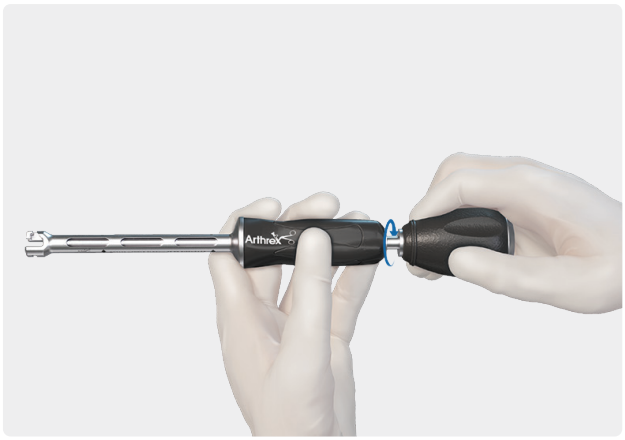
5

Repeat drilling and alignment pin placement for the other drill tunnel.

Loading the Inserter

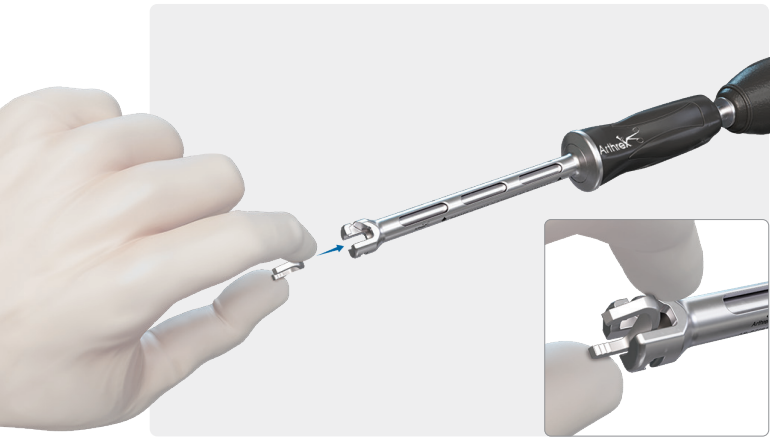


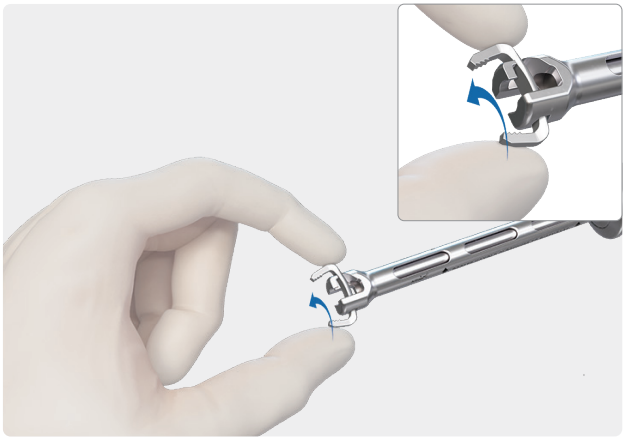
6



7

Prepare inserter for loading the staple by inserting the plunger and turning the knob clockwise until the black tip of the plunger **(a)** is flush with the base of the cutout on the tip of the inserter handle **(b)**.





8

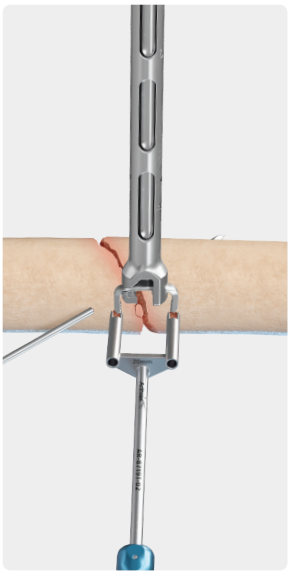
Grab the staple by the legs and carefully introduce it to the slot in the tip of the reusable inserter. Once fully introduced, rotate the tip of the inserter 90° so the staple may rest on the pin plates.



9

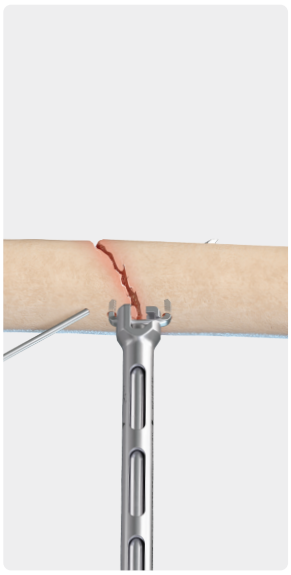
Turn the knob clockwise until the staple legs are under tension and open to a width equal to the predrilled holes. Proper alignment may be confirmed using the drill tubes on the drill guide.

> **Note:** The staple legs should be in a parallel or near parallel position prior to insertion to facilitate compression of the fracture once the staple is inserted.



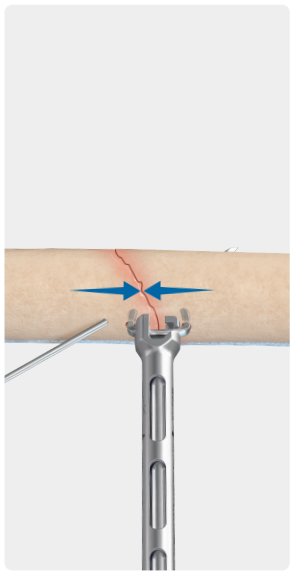
10

Remove the alignment pins and continue holding the drill guide against bone to maintain the location of the drill holes. Insert the staple into the prepared drill tunnels using the windows in the drill guide.



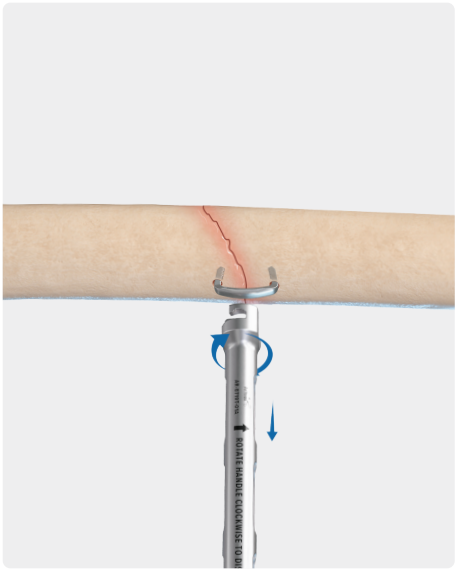
11

Using the inserter, advance the staple legs into the drill holes until the tip of the inserter is seated against bone.



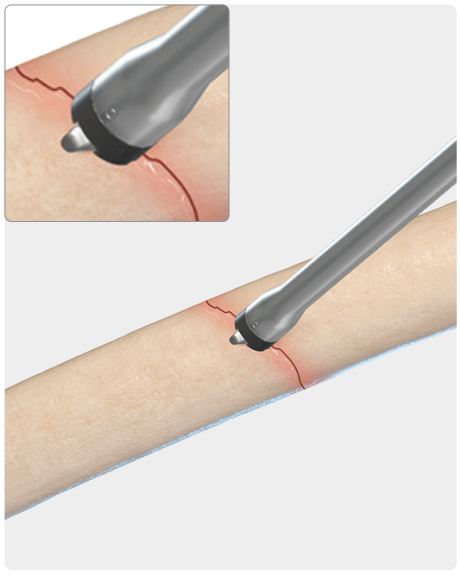
12

Once the DynaNite® Reduction staple is inserted and seated against the bone, turn the inserter knob counterclockwise until the staple is no longer under tension with the inserter.



13

Rotate the inserter tip 90° clockwise and lift directly away from the staple.



14

Use the tamp to fully seat the staple.

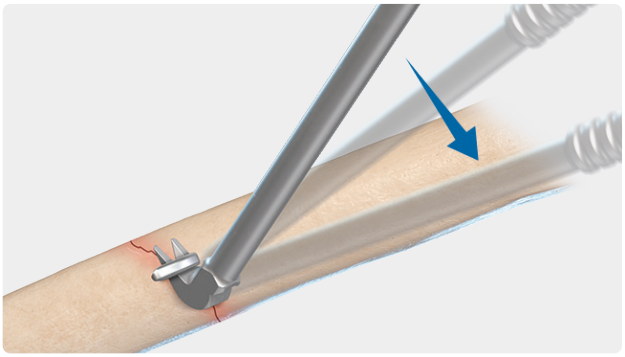
> **Note:** There are bridge-specific cutouts on the tip of the tamp to match the staple bridge.



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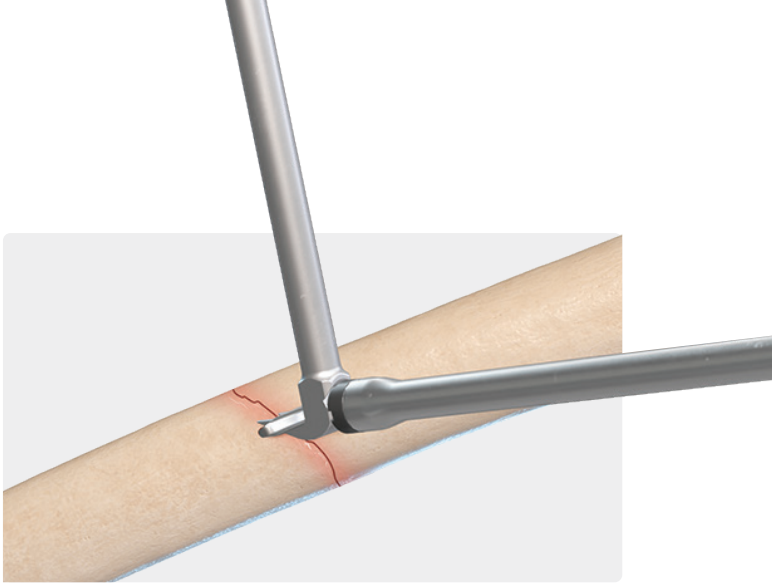
Final construct.

Removal



16

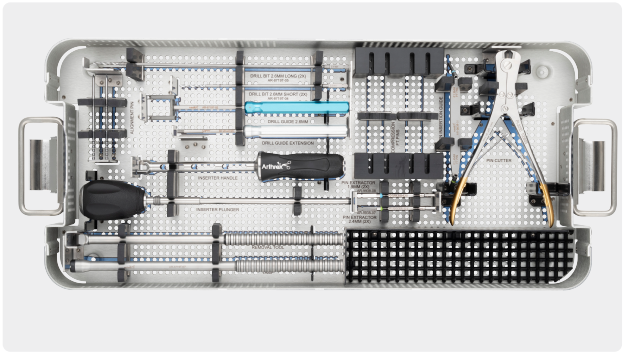
Insert the forked tip of the removal tool under the bridge of the staple and lever the staple legs out of the bone.



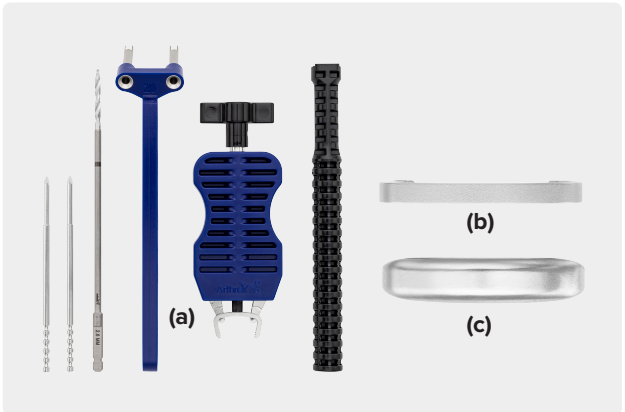
17

The tamp may be seated against the back of the distal portion of the removal tool and malleted to force the forked tip under the bridge.

Ordering Information



DynaNite Reduction Staple Instrument System	AR-8719TS



SuperMX Reduction staple w/ instrumentation, 20 × 8 mm	AR-8719MXRDS
DynaNite Reduction staple w/ instrumentation, 20 × 8 mm **(a)**	AR-8719RDS
DynaNite Reduction staple, qty. 1 **(b)**	AR-8719R-1
DynaNite Reduction staple, qty. 2	AR-8719R-2
SuperMX Reduction staple, qty. 1 **(c)**	AR-8719MXR-1
SuperMX Reduction staple, qty. 2	AR-8719MXR-2

Products advertised in this brochure/surgical technique guide may not be available in all countries. For information on availability, please contact Arthrex Customer Service or your local Arthrex representative.

Related Products

DynaNite® MX4™ Staples	
Staple w/ instrumentation, 25 × 15 × 18 mm	AR-8719MX4DS-2518
Staple w/ instrumentation, 30 × 20 × 20 mm	AR-8719MX4DS-3020
Staple w/ instrumentation, 35 × 25 × 20 mm	AR-8719MX4DS-3520
DynaNite WideLeg Staples	
5 mm Staple w/ instrumentation, 15 × 15 mm	AR-8719W5DS-1515
5 mm Staple w/ instrumentation, 18 × 18 mm	AR-8719W5DS-1818
5 mm Staple w/ instrumentation, 20 × 20 mm	AR-8719W5DS-2020
5 mm Staple w/ instrumentation, 25 × 20 mm	AR-8719W5DS-2520
6 mm Staple w/ instrumentation, 20 × 20 mm	AR-8719W6DS-2020
6 mm Staple w/ instrumentation, 25 × 20 mm	AR-8719W6DS-2520
DynaNite Nitinol Staples	
Staple w/ instrumentation, 9 × 7 mm	AR-8717DS-0907
Staple w/ instrumentation, 9 × 10 mm	AR-8717DS-0910
Staple w/ instrumentation, 11 × 10 mm	AR-8717DS-1110
Staple w/ instrumentation, 11 × 15/12 mm	AR-8717DS-111512
Staple w/ instrumentation, 13 × 10 mm	AR-8718DS-1310
Staple w/ instrumentation, 13 × 15/12 mm	AR-8718DS-131512
Staple w/ instrumentation, 15 × 12 mm	AR-8718DS-1512
Staple w/ instrumentation, 15 × 15 mm	AR-8719DS-1515
Staple w/ instrumentation, 18 × 15 mm	AR-8719DS-1815
Staple w/ instrumentation, 18 × 18 mm	AR-8719DS-1818
Staple w/ instrumentation, 18 × 18/15 mm	AR-8719DS-181815
Staple w/ instrumentation, 20 × 15 mm	AR-8719DS-2015
Staple w/ instrumentation, 20 × 20 mm	AR-8719DS-2020
Staple w/ instrumentation, 25 × 20 mm	AR-8719DS-2520
DynaNite SuperMX™ Staple	
Staple w/ instrumentation, 15 × 15 mm	AR-8719MXDS-1515
Staple w/ instrumentation, 18 × 15 mm	AR-8719MXDS-1815
Staple w/ instrumentation, 18 × 18 mm	AR-8719MXDS-1818
Staple w/ instrumentation, 20 × 15 mm	AR-8719MXDS-2015
Staple w/ instrumentation, 20 × 20 mm	AR-8719MXDS-2020
Staple w/ instrumentation, 25 × 20 mm	AR-8719MXDS-2520

This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's directions for use. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level or outcomes.

Arthrex manufacturer, authorized representative, and importer information (Arthrex eIFUs)

US patent information

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