Product Spotlight

Cardiothoracic and Biologic Advancements

Arthrex®

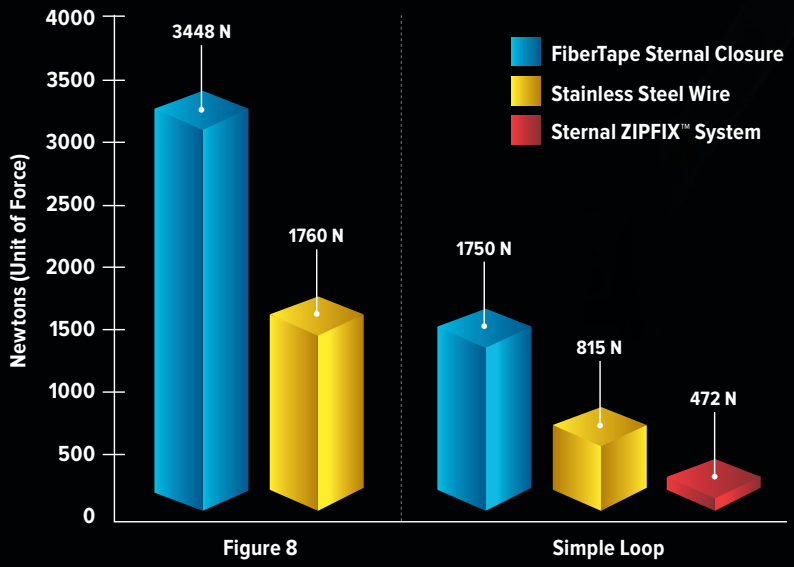
FiberTape™ Sternal Closure

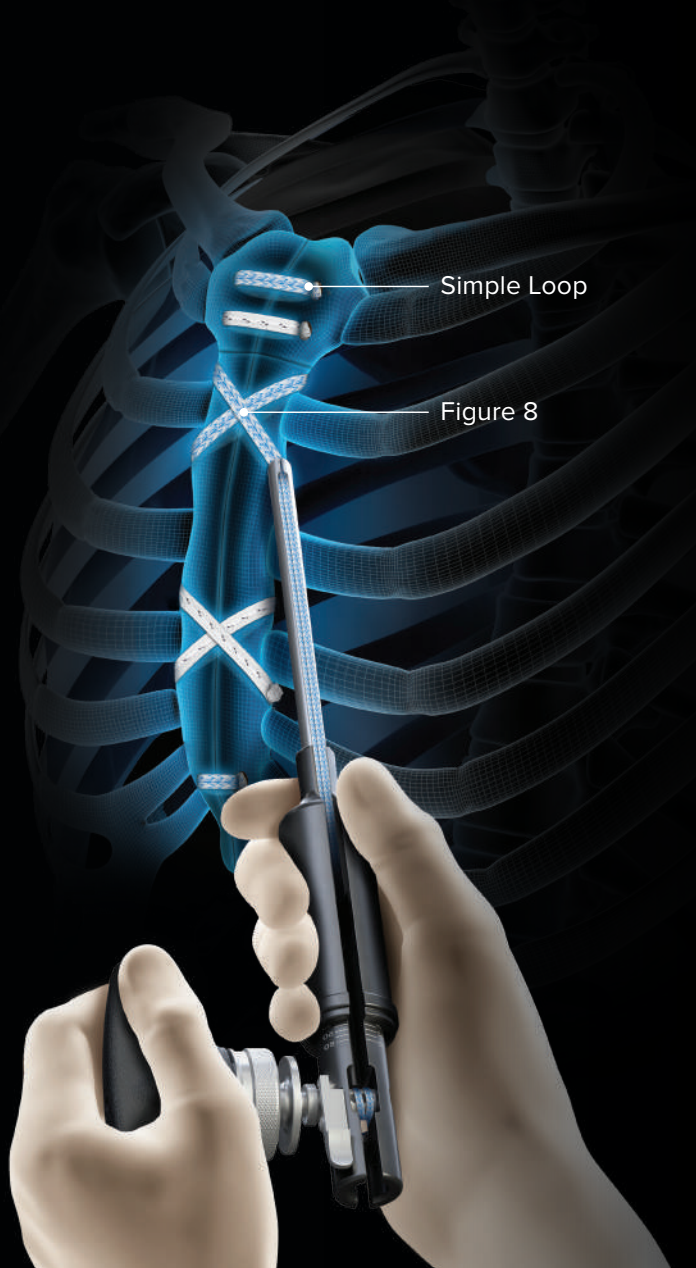
Make Metal Wire a Memory

Composed of UHMWPE and polyester braid to provide an all-suture alternative for secure sternal closure with superior compression and ultimate load strength compared to metal wires and other systems.[1]

Stronger Than Conventional Methods[1]

Load-to-Failure Comparison





ZIPFIX is a trademark of DePuy Synthes.

Reference

1. Arthrex, Inc. Data on file (APT 5056). Naples, FL; 2021.

Stronger Than Metal Yet Soft as Suture

Offering a broad footprint for better bone compression, the FiberTape™ Sternal Closure System has shown significantly improved complication rates compared to metal wires, including decreased occurrences of sternal dehiscence and sternal wound infections.[1]

Broad Footprint and No Sharp Metal Ends
Resists bone cut-through and eliminates risk of wire-stick injuries

FiberTape Sternal Closure
Loading device with pretied knot simplifies deployment

FiberTape Sternal Closure Tensioner
Delivers controlled, reproducible compression

Reference

1. Coster JN, Chan EG, Furukawa M, Sanchez PG. Experience using a flexible reinforced fiber suture for sternal closure in bilateral lung transplantation recipients undergoing bilateral transverse thoracosternotomy. *JTCVS Tech*. 2022;14:168-170. doi:10.1016/j.xjtc.2022.05.006

Comprehensive PRP Systems

Angel™ System

The Angel cPRP system is the only fully automated system with proprietary 3-sensor technology for preparation of adjustable cellular concentrations of platelet-rich plasma (PRP) from whole blood and cPRP from bone marrow aspirate (BMA).

ACP Max™ PRP System

The ACP Max triple-syringe system uses a double-spin regimen to produce PRP from 30 mL, 60 mL, or 90 mL of whole blood, resulting in up to 12× over baseline platelet concentration and a greater than 97% reduction of neutrophils.[1-3]

Arthrex ACP™ Double-Syringe System

The Arthrex ACP (autologous conditioned plasma) double-syringe system allows for rapid and efficient concentration of platelets from 15 mL of whole blood, providing a PRP that is low in neutrophils in just 5 minutes.[4-5]

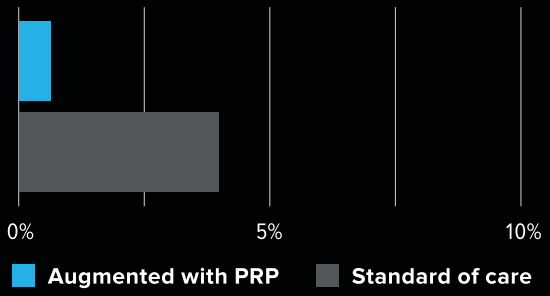
Reference

1. Arthrex, Inc. Data on file (APT-5368). Naples, FL; 2021
2. Arthrex, Inc. Data on file (APT-5535). Naples, FL; 2022.
3. Arthrex, Inc. Data on file (APT-5756). Naples, FL; 2022.
4. Arthrex, Inc. Data on file (APT4153). Naples, FL; 2019.
5. Arthrex, Inc. Data on file (LA0810). Naples, FL; 2019.

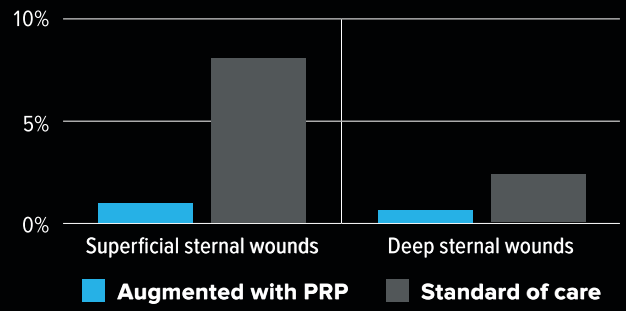
Platelet-Rich Plasma (PRP) in Cardiothoracic Surgery

Application of PRP in Sternal Closure Has Been Shown to Promote Earlier Wound Healing and Improved Postoperative Outcomes[1-4]

Hospital Readmission Rate (per 1000 patients)[5]



Sternal Wound Infection Rate (n = 2000)[5]



References

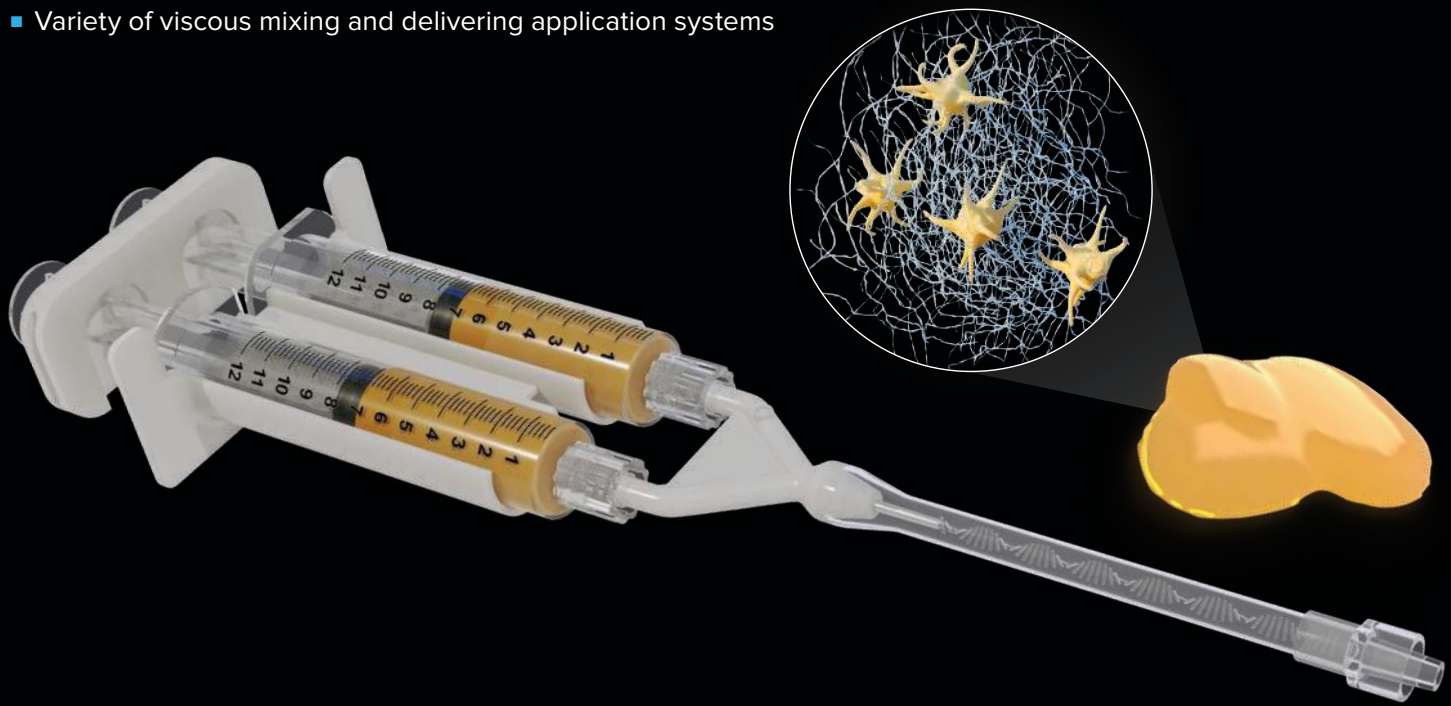
1. Trowbridge CC, Stammers AH, Woods E, Yen BR, Klayman M, Gilbert C. Use of platelet gel and its effects on infection in cardiac surgery. *J Extra Corpor Technol.* 2005;37(4):381-386.
2. Englert SJ, Estep TH, Ellis-Stoll CC. Autologous platelet gel applications during cardiovascular surgery: effect on wound healing. *J Extra Corpor Technol.* 2005;37(2):148-152.
3. Vang SN, Brady CP, Christensen KA, et al. Autologous platelet gel in coronary artery bypass grafting: effects on surgical wound healing. *J Extra Corpor Technol.* 2007;39(1):31-38.
4. Jameson CA. Autologous platelet concentrate for the production of platelet gel. *LabMed.* 2007;38:39-42.
5. Patel AN, Selzman CH, Kumpati GS, McKellar SH, Bull DA. Evaluation of autologous platelet rich plasma for cardiac surgery: outcome analysis of 2000 patients. *J Cardiothorac Surg.* 2016;11(1):62. doi:10.1186/s13019-016-0452-9

Thrombinator™ System

Autologous Thrombin-Rich Sealant at the Point of Care

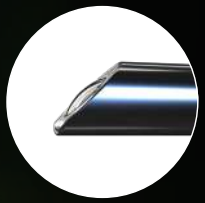
The Thrombinator system applies and expedites the clotting cascade to produce an autologous serum that activates platelets and produces a gel sealant.

- Serum activates platelets to produce a gel that serves as a binding agent that may improve handling of bone grafts
- Serum may be developed using whole blood, platelet-poor plasma, or platelet-rich plasma
- Variety of viscous mixing and delivering application systems

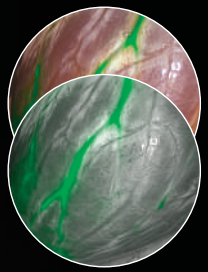


Synergy Vision™ Imaging System

Designed With the Latest Imaging Technology to Deliver Optimal and Revolutionary Results



Pano scope



Fluorescence imaging

Nano Vision port

Pano™ Scope

Quickly and easily switch between traditional 30° and 70° views to an ultrawide view at the touch of a button. The Pano scope allows surgeons to visualise more anatomy on a single screen while minimising the need for additional portals or scopes.

Nano Vision™

The NanoNeedle Scope integrates directly to the Synergy Vision console as either a primary or secondary camera, allowing for a simultaneous 4K and Nano visualisation on the same screen.

Synergy Vision Connect™ Console

Allowing for 6 inputs and 4 outputs, the Synergy Vision Connect system offers built-in OR integration capabilities for in-room switching and routing.

High Dynamic Range (HDR)

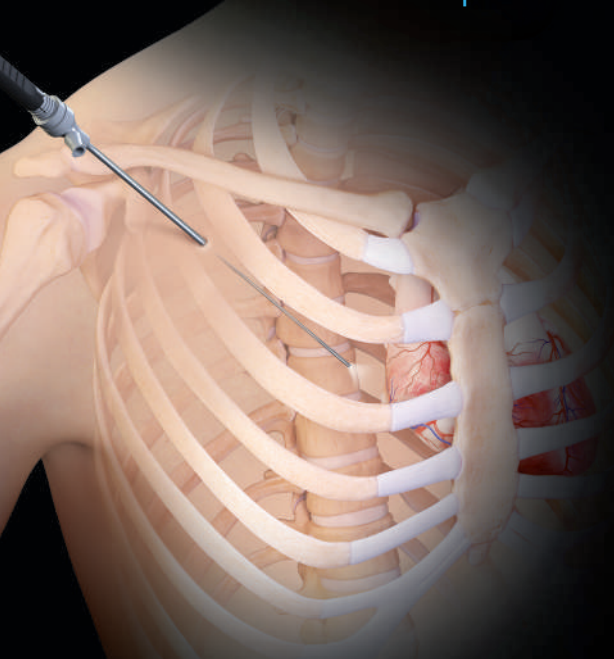
The Synergy Vision imaging system offers high dynamic range. Eliminating hot spots as well as dark areas, HDR imaging provides consistent illumination across the entire screen.

Fluorescence Imaging

Switch to fluorescence 4K imaging with the touch of a button. Easily toggle through different modes and colours, depending on the fluorescence application and individual surgeon preference.

NanoNeedle Scope

The Next Generation of Operative Thoracic Cavity Visualisation

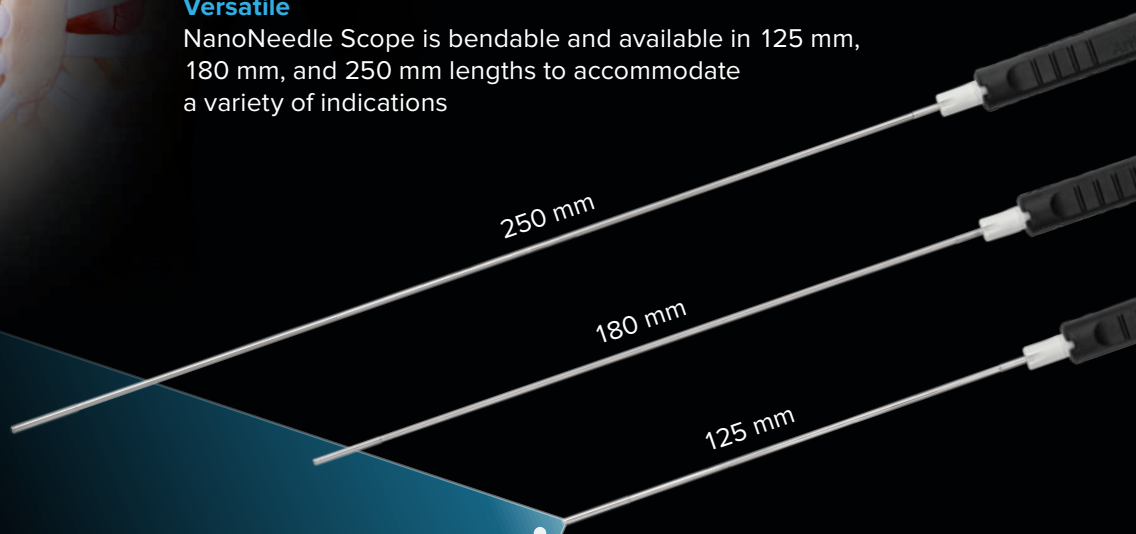


Minimally Invasive
1.9 mm needle-sized scope diameter allows sutureless endoscopy

All-in-One System
Chip-on-tip technology and built-in light source provides high-resolution imaging without fogging

Ergonomic
Single-use scope is well-balanced and easily controlled with a pencil-style grip

Versatile
NanoNeedle Scope is bendable and available in 125 mm, 180 mm, and 250 mm lengths to accommodate a variety of indications



1.9 mm diameter with a 120° field of view

Arthrex Australia Pty Ltd. Suite 501, 20 Rodborough Road, Frenchs Forest, NSW 2086. Tel: 1800 950 637

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