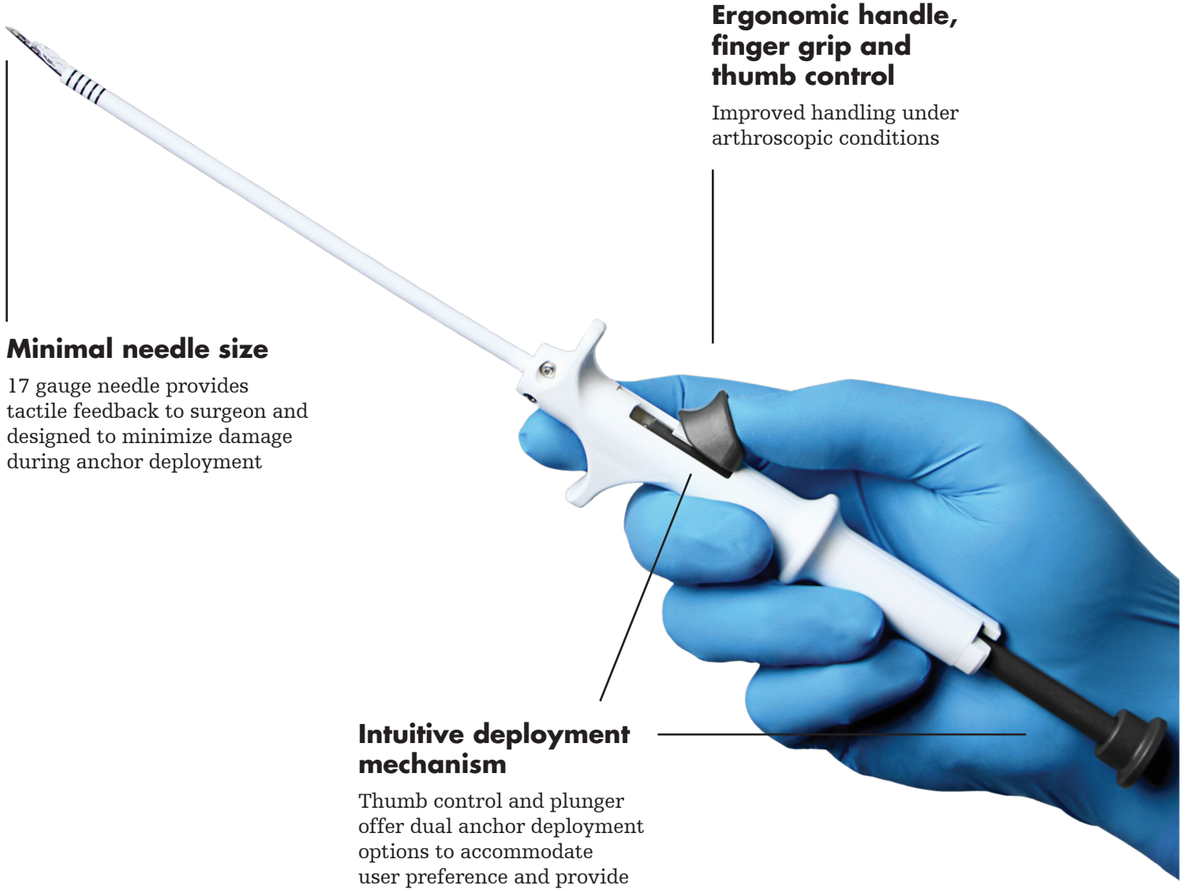
stryker

AIR

Meniscal Repair System

AIR
Stryker's Meniscal Repair System

AIR is an innovative all-inside suture device designed for reproducible results. It utilizes two PEEK anchors and a sliding knot with high strength, non-absorbable 2-0 suture. AIR's reliability and simplicity is designed to enable surgeons to consistently deploy an anchor without the worry of failure while limiting damage with its small and flexible needle.[1]



Minimal needle size

17 gauge needle provides tactile feedback to surgeon and designed to minimize damage during anchor deployment

Ergonomic handle, finger grip and thumb control

Improved handling under arthroscopic conditions

Intuitive deployment mechanism

Thumb control and plunger offer dual anchor deployment options to accommodate user preference and provide intraoperative flexibility

Features and benefits

Intuitive lever design
Designed to provide reliable and reproducible anchor deployment.

High-strength suture
Size 2-0 UHMWPE suture provides suture retention strength and fixation needed for meniscal repair.

Low profile PEEK anchors
Designed to optimize tensile strength with minimal damage to native meniscus.

Flexible needle design
Enables anatomic anchor placement in hard to reach joint spaces.

Active deployment feature

This feature is designed to ensure the surgeon intentionally deploys the implant, and minimizes the risk of a misfire.

- The thumb knob requires at least 2 lbs of force to deploy the implant
- Surgeons will experience tactile and audible feedback when deploying the anchor
- Enables repositioning of the needle prior to deploying the implant

Static tensile performance

Device	Average tensile stiffness (N/mm)	Average proportional load (N)	Average peak load* (N)	Average displacement at peak-load (mm)
Stryker AIR	22.1 ± 1.86	74.2 ± 2.48	144.2 ± 37.92	8.32 ± 3.078

* Peak load defined as initial peak followed by at least three subsequent data points of decreasing load.

The table above provides a summary of the static tensile performance of the Stryker AIR. See IVY Sports Medicine biomechanical study.[2]

Part Number	Description
4720	AIR – Meniscal Repair Device
4721	AIR Disposable Knot Pusher/Suture Cutter and Sled
233050115	POPLITEAL RETRACTOR SMALL
233050116	POPLITEAL RETRACTOR LARGE

References

1. Design Protocol Final Report 04.6025-FR01
2. Comparison of the mechanical properties of the IvyAIR Meniscal Repair System to the Smith & Nephew FAST-FIX 360 Meniscal Repair System in a porcine meniscus model.

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