



Powered by **Solmedix,**

Quratus®
Suture Anchor

Material

Quratus® Suture Anchor is composed of bioabsorbable PLGA (Poly D,L-Lactide-Co-Glycolide) and osteoinductive β -TCP (Tricalcium Phosphate), which promotes bone formation. PEEK (Polyetheretherketone) with high strength is also major component.

PLGA + β -TCP & PEEK

Bioabsorbable

PLGA (Poly D,L-Lactide-Co-Glycolide) is a widely used bioabsorbable polymer in the medical field due to its excellent biocompatibility and controlled degradation rate.

It naturally degrades within the body, eliminating the need for additional removal surgery, thereby reducing patient discomfort and recovery time.

Osteoinductive

β -TCP (Tricalcium Phosphate) is an osteoconductive material that promotes new bone formation and enhances implant stability.

Biocompatibility

PEEK has a bone-like elastic modulus, making it suitable for certain orthopedic applications. Also, it's a material that is safely used in the medical field due to its low toxicity and excellent biocompatibility.

Suture

UHMWPE Suture

Ultra-High Molecular Weight Polyethylene (UHMWPE) suture offers excellent visibility and high tensile strength.

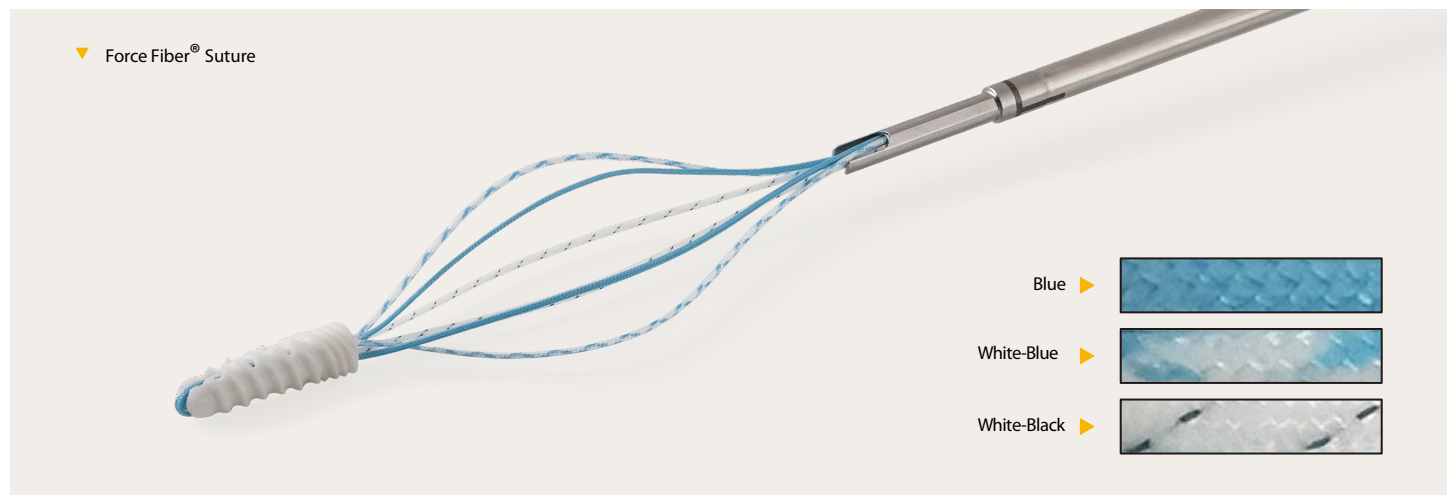
Due to its high molecular weight, it distributes load across its long polymer chains, preventing breakage even under significant stress. Additionally, its strong intermolecular bonding enhances durability and reliability.

Teleflex's Force Fiber®

Equipped with Teleflex's Force Fiber®, providing superior tensile strength and exceptional knot security.

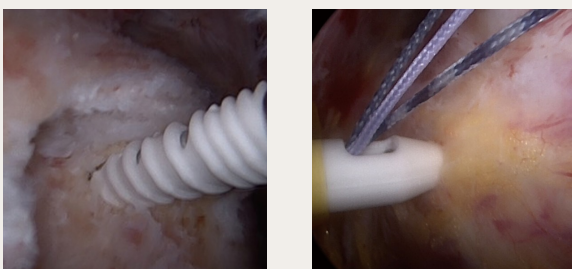
Excellent Visibility

Enhanced identification under arthroscopy with multiple suture color options. (Blue / White-Blue / White-Black)

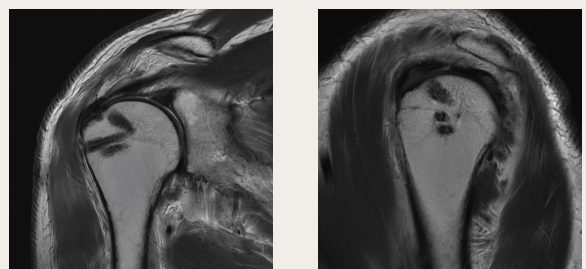


Rotator cuff repair with **Quratus®** Suture Anchor

Intraoperative Arthroscopic Image



Postoperative Day 1 MRI Image After Rotator Cuff Repair



Quratus® Suture Anchor

Solmedix is proud to offer a Suture Anchor System from our Quratus®.

Bioabsorbable and Osteoinductive material for implantable anchor.

Force Fiber® is a non-absorbable suture composed of Ultra-High Molecular Weight Polyethylene(UHMWPE) fiber of Teleflex.

Features

Design of the driver that improves the strength of the anchor

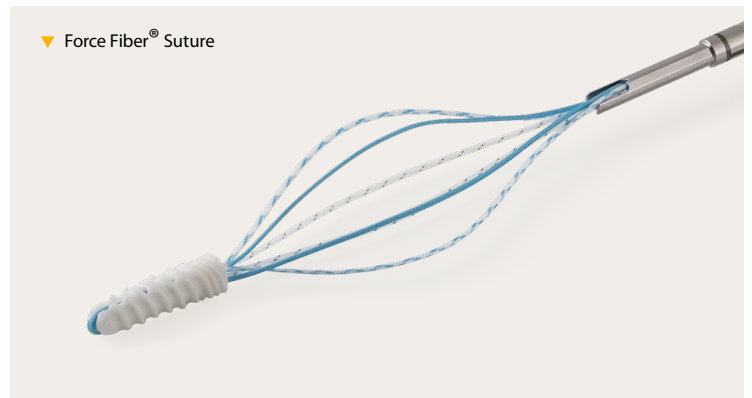
Driver tip design that allows the anchor to be fully inserted.

Prevents anchor breakage from rotational torque when inserting.

Bioabsorbable Anchor

Anchor composed of biodegradable polymer PLGA and β -TCP to promote bone formation.

Open Window design that enhances rapid bone healing by promoting smooth blood flow.



Ultra-High Molecular Weight Polyethylene (UHMWPE) suture with excellent visibility and high strength

Utilizes Teleflex's Force Fiber® with high tensile strength and knot strength. Excellent visibility in joint surgeries using various colors. (Blue / White-Blue / White-Black)



One-touch suture release handle

Different anchor diameters can be easily identified based on the color of the handle button. The one-touch mechanism improves user convenience by easily separating the suture and driver without needing extra steps.



Quratus® Hybrid Knotless Anchor

This hybrid implant system, made of PEEK with strong fixation and biodegradable PLGA+ β -TCP allows natural fusion with bone.



Features

Suture Passer

Attach by passing the suture through the eyelet



Biocomposite Anchor

Anchor composed of biodegradable polymer PLGA and β -TCP, acts primarily as a scaffold for enhancing new bone formation. Open window design that enhances rapid bone healing by promoting smooth blood flow.

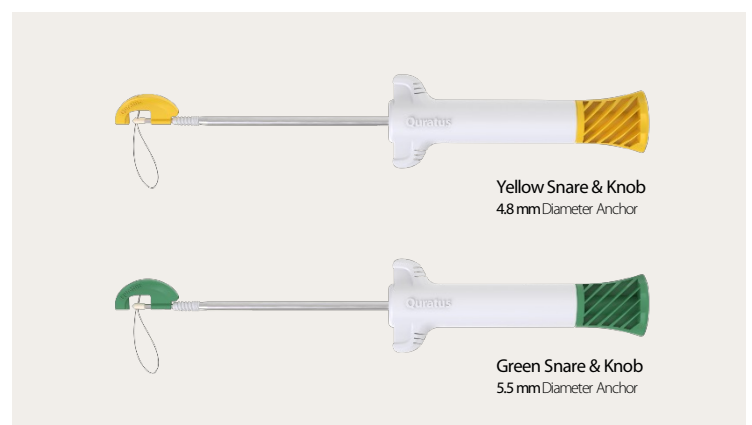
Biocompatibility Eyelet

Eyelets made of PEEK, a biocompatible material with strong fixation. Naturally blend with bones and minimize dislocation.

** Pilot holes must be prepared in advance.*

Eliminates knots associated with tissue irritation

By eliminating the complexity of knot tying, the overall surgical time can be shortened, and the patient's recovery can be accelerated. It can also eliminate the possibility of knot-related complications such as knot slippage or tissue impingement.

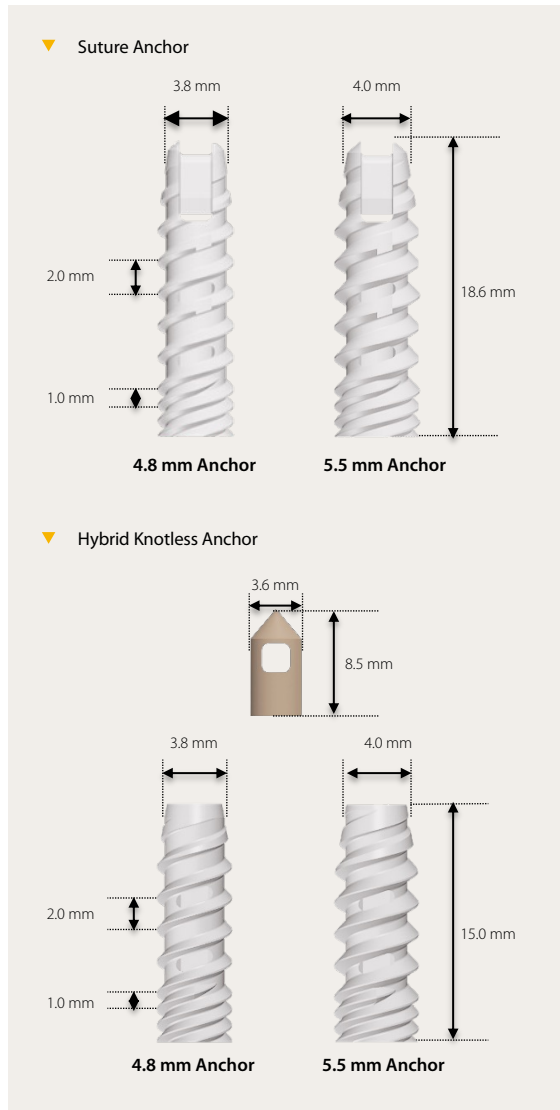


Suture handle designed to enhance user convenience

The design enables the suture to be secured to the handle, thereby improving user convenience. Identification of the anchor through intuitive means utilizing the color of the snare and handle knob.

Anchor & Eyelet System

Solmedix is proud to present Quratus, a shoulder reconstruction system used in orthopedics. Quratus provides doctors and patients with a safer, simpler, and more robust technology than existing products. Osteoinductive materials such as β -TCP and PLGA improve osteointegration and maintain biocompatibility like bone tissue. Another key material of Quratus is PEEK, a bio-inert material with no side effects. PEEK has properties like cortical bone, providing strong and stable fixation.



Suture Anchor

Clinical Use	Primary, Medial Row or Double Row Fixation
Features	Fully Threaded, Cortical and Cancellous threads, Cannulated to channel growth factors, Osteoconductive
Diameter	4.8 mm / 5.5 mm
Length	18.6 mm
Pullout	4.8 mm : 185 N (avg) / 5.5 mm : 200 N (avg)
Material	β -TCP and PLGA
Sutures	2 or 3 Force Fiber® Suture (Teleflex)
Technique	Create pilot hole, screw-in

Hybrid Knotless Anchor

Clinical Use	Primary or Lateral Row Fixation
Features	Knotless, PEEK Eyelet
Diameter	Anchor : 4.8 mm / 5.5 mm, Eyelet : 3.6 mm
Length	Anchor : 15 mm, Eyelet : 8.5 mm
Pullout	4.8 mm : 185 N (avg) / 5.5 mm : 200 N (avg)
Material	β -TCP and PLGA, PEEK
Sutures	Max 6 sutures
Technique	Create pilot hole, screw-in

Instrument

The Quratus® Suture Anchor System comprises instruments including an awl and punch/tap.

Punch/Tap

The Quratus® Suture Anchor System includes a device that simultaneously creates pilot holes and screw threads for secure anchor fixation in bone.

Awl

The Quratus® Suture Anchor System includes a device designed to create pilot holes for secure anchor fixation in bone.



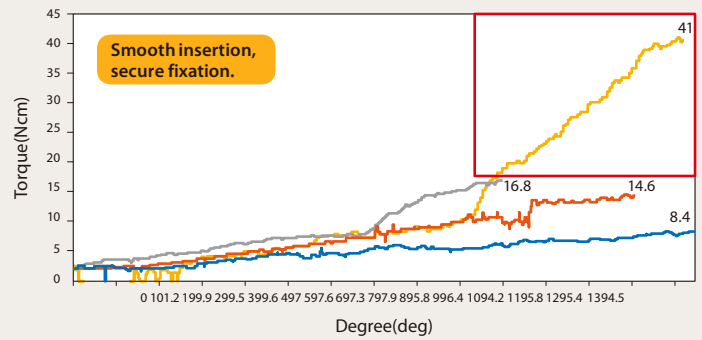
Mechanical Performance Comparison

Quratus® Suture Anchor demonstrates superior mechanical performance compared to competitor products.

Insertion Torque

- Low initial insertion torque.
- Increased torque at final insertion with 4-thread design.
- Enhanced cortical bone fixation with 4-thread screw design smooth insertion completion for optimal handling.
- Smoother insertion and secure fixation compared to competitors.

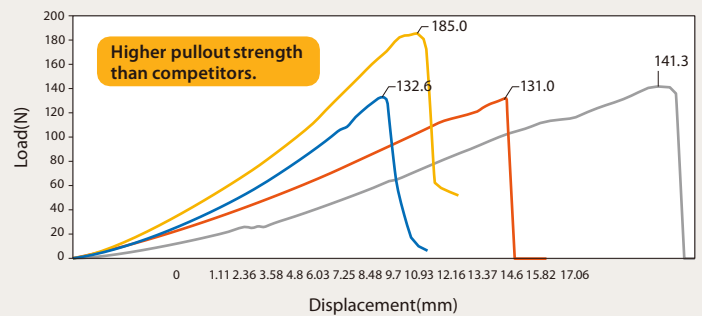
— Quratus® — A — B — C



Pullout Strength

- Higher pullout strength than competitors, ensuring stable fixation post-surgery.

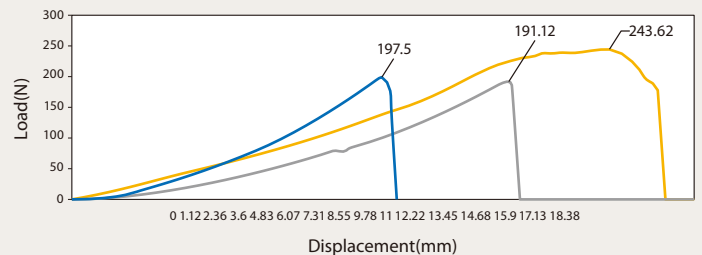
— Quratus® — A — B — C



Component Interconnection Strength

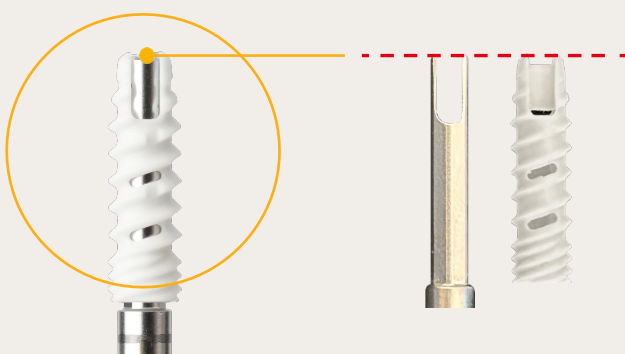
- High anchor-to-suture connection strength enhances surgical stability.

— Quratus® — A — B



*Self-test data

Fracture-Resistant Design



The **Quratus®** Suture Anchor features a driver-supported internal structure that stabilizes the entire anchor from within. This design distributes the insertion load between the anchor and the driver, reducing the risk of distal anchor fractures during insertion.

Quratus[®] Cannula

A device designed to create an access route and facilitate the insertion of an arthroscope or suture anchor.
Consists of a cannula & trocar.

Full Thread Cannula

Dual-valve configuration minimizes leakage and ensures effective fluid containment. Valve design optimized to minimize damage during the use of instruments such as the Suture Hook.

- Full Thread / I.D. Ø8.5 x L 80.0mm (**WHITE**)
- Full Thread / I.D. Ø6.5 x L 80.0mm (**YELLOW**)
- Full Thread / I.D. Ø8.5 x L 45.0mm (**WHITE**)
- Full Thread / I.D. Ø6.5 x L 45.0mm (**YELLOW**)

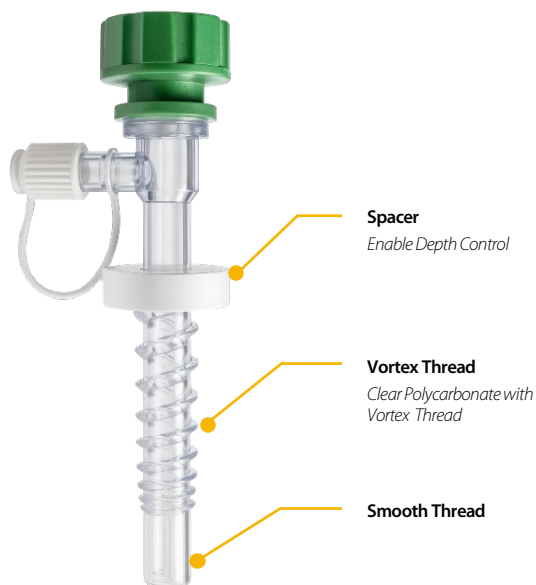


WHITE : Ø8.5 / YELLOW : Ø6.5

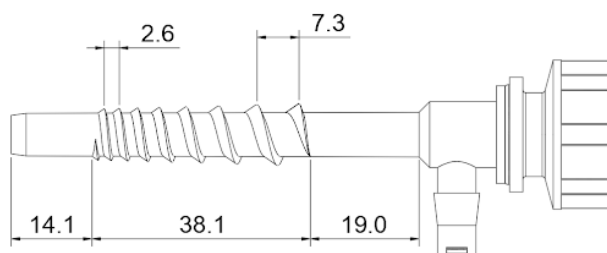
Vortex Cannula

A spacer is added to prevent saline leakage and movement of the cannula. Smooth and Vortex thread provides more easy insertion and secure fixation.

- Vortex Thread / I.D. Ø6.0 x L 85.0mm (**Green**)



GREEN : Ø6.0



Quratus® Ordering Information



Powered by **solmedix,**

Quratus® Anchor

PRODUCT	MODEL	DESCRIPTION	COLOR	SUTURE
Suture Anchor	QSA-MA-48201	Ø4.8 x 18.6 mm	Yellow	2 sutures (Blue, White/Black)
	QSA-MA-48301	Ø4.8 x 18.6 mm	Yellow	3 sutures (Blue, White/Blue, White/Black)
	QSA-MA-55201	Ø5.5 x 18.6 mm	Green	2 sutures (Blue, White/Black)
	QSA-MA-55301	Ø5.5 x 18.6 mm	Green	3 sutures (Blue, White/Blue, White/Black)
	QSA-MA-65301	Ø6.5 x 18.6 mm	Purple	3 sutures (Blue, White/Blue, White/Black)
Hybrid Knotless Anchor	QSA-LA-48003HY	Ø4.8 x 23.5 mm (include Eyelet)	Yellow	-
	QSA-LA-55003HY	Ø5.5 x 23.5 mm (include Eyelet)	Green	-

Quratus® Device

PRODUCT	MODEL	DESCRIPTION	COLOR	UNIT
Cannula	QCA-FT-85800	Full Thread / I.D. Ø8.5 x L 80.0mm	White	10EA / BOX
	QCA-FT-85450	Full Thread / I.D. Ø8.5 x L 45.0mm	White	10EA / BOX
	QCA-FT-65800	Full Thread / I.D. Ø6.5 x L 80.0mm	Yellow	10EA / BOX
	QCA-FT-65450	Full Thread / I.D. Ø6.5 x L 45.0mm	Yellow	10EA / BOX
	QCA-PT-60850	Vortex Thread / I.D. Ø6.0 x L 85.0mm	Green	10EA / BOX
Instrument	QSA-AW-48002	Awl for Ø4.8mm	Silver	1 EA
	QSA-AW-55002	Awl for Ø5.5mm	Silver	1 EA
	QSA-PT-48001	Punch / Tap for Ø4.8mm	Silver	1 EA
	QSA-PT-55001	Punch / Tap for Ø5.5mm	Silver	1 EA



T +82-2-3153-7708
support@solmedix.com

#702/703/706, 330 Seongam-ro, Mapo-gu, Seoul,
03920, Rep. of Korea

www.solmedix.com

BR-01 (Rev.02)

Distributed by **WONIK**

7th FL.Wonik building. 20, Pangyo-ro 255beon-gil,
Bundang-gu, Seongnam-si, Gyeonggi-do,
Korea 13486, Rep. of Korea

www.wonik.co.kr

© Solmedix Co., Ltd.