

OSSIOfiber® Interference Screw

**Stronger Fixation. Full Bone
Restoration. Zero Compromise.**



Why Choose Between Strength & Biology?

Choose the **strongest bio-integrative** interference screw for your best ACL reconstruction.



Strength matters

OSSIOfiber® material is 5x stronger than biocomposites, 2x stronger than PEEK, and 1.5x stronger than cortical bone



Implant material matters

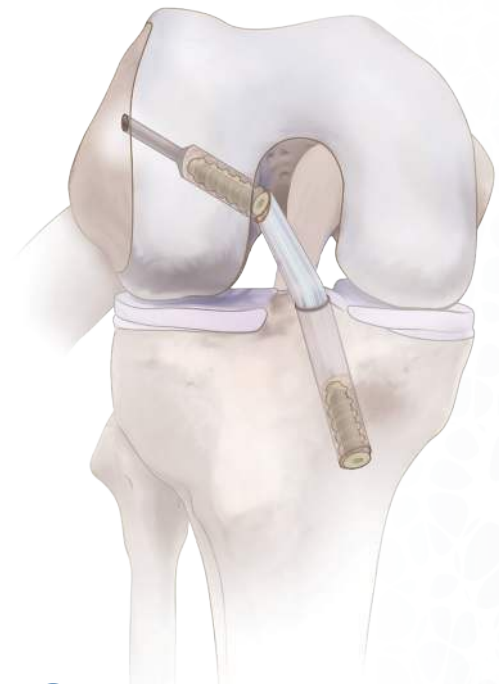
Full integration and replacement over 18–24 months.



Healing matters

No hardware removal and optimal tissue tolerance.

Intentionally designed for
ACL Reconstruction



Strong, Familiar Fixation

A high-engagement thread pattern delivers reliable graft compression and immediate purchase on insertion — all within the ACL reconstruction workflow surgeons already know.



Designed to Integrate, Not Remain

Mineral fiber-reinforced OSSIOfiber® technology is designed to integrate into bone over time, leaving behind native bone instead of permanent hardware.



Graft Protection by Design

Rounded threads advance efficiently while helping protect the graft from damage during insertion.

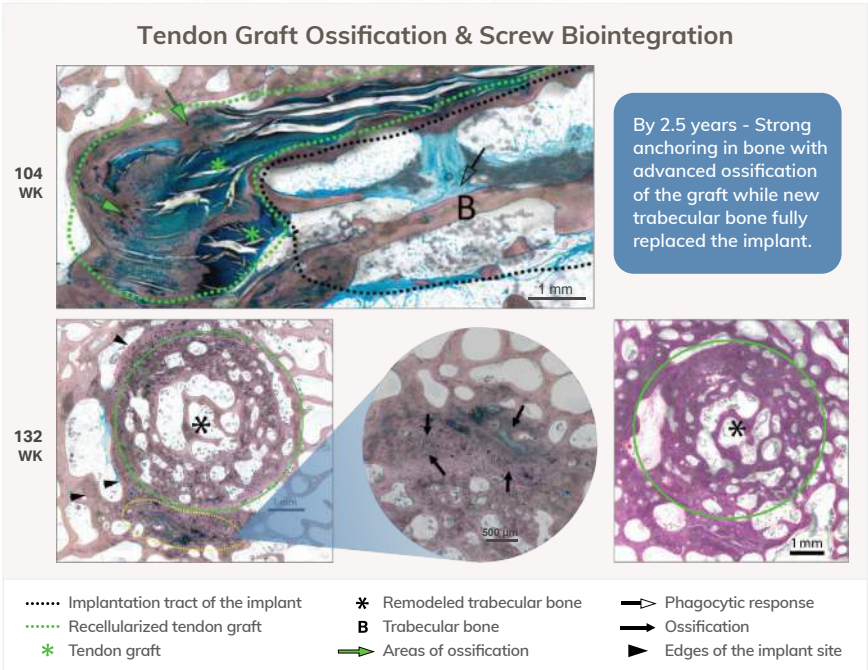
Built to Integrate — Backed by Preclinical Science

In a published preclinical study, a mineral fiber-reinforced OSSIOfiber® implant was progressively replaced by newly remodeled bone over the study period.

Tissue ingrowth into the implant wall increased from early timepoints and peaked by 104 weeks. By 132 weeks the implant was fully replaced by trabecular bone — with **no cyst formation** and **no proinflammatory cellular response**. The device seated in untapped tunnels in a single attempt, with no thread stripping, breakage, or graft cutting reported.

These results reflect the performance of OSSIOfiber® mineral fiber-reinforced material, evaluated preclinically in a 4.75 mm OSSIOfiber® implant — a suture anchor built from the same material — in an interference fixation model. Preclinical ovine (sheep) model; n = 9; no control group; not human clinical data.

Cole BJ, Easley JT, Nyska A, Rousselle S. Anterior cruciate ligament reconstruction in a translational model in sheep using biointegrative mineral fiber reinforced screws. Sci Rep. 2024;14:27408.



Ordering Information

Implants · OSSIOfiber® Interference Screw

Description	Product Code
OSSIOfiber® Interference Screw, 7.0 x 23 mm	OF1167023S
OSSIOfiber® Interference Screw, 8.0 x 23 mm	OF1168023S
OSSIOfiber® Interference Screw, 9.0 x 23 mm	OF1169023S
OSSIOfiber® Interference Screw, 10.0 x 23 mm	OF1161023S
OSSIOfiber® Interference Screw, 8.0 x 28 mm	OF1168028S
OSSIOfiber® Interference Screw, 9.0 x 28 mm	OF1169028S
OSSIOfiber® Interference Screw, 10.0 x 28 mm	OF1161028S
OSSIOfiber® Interference Screw, 11.0 x 28 mm	OF1161128S

Instrumentation (Single-use)

Description	Product Code
OSSIO® Inserter, for Interference Screw	THN00633
OSSIO® Tap, for 7.0 mm Interference Screw	THN00634
OSSIO® Tap, for 8.0 mm Interference Screw	THN00636
OSSIO® Tap, for 9.0 mm Interference Screw	THN00638
OSSIO® Tap, for 10.0 mm Interference Screw	THN00640
OSSIO® Tap, for 11.0 mm Interference Screw	THN00642

Indications

The OSSIOfiber® Interference Screws, are indicated for fixation of tissue, including ligament or tendon to bone, or a bone/tendon to bone in adults and children (2–12 years) and adolescents (12–21 years) in which growth plates have fused or in which growth plates will not be crossed by fixation. Interference fixation is appropriate for surgeries of the knee, shoulder, elbow, ankle, foot, and hand/wrist where the sizes offered are patient appropriate; Specifically:

Shoulder: Rotator Cuff Repairs, Bankart Repair, SLAP Lesion Repair, Biceps Tenodesis, Acromio-Clavicular Separation Repair, Deltoid Repair, Capsular Shift or Capsulolabral Reconstruction

Foot/Ankle: Lateral Stabilization, Medial Stabilization, Achilles Tendon Repair, Hallux Valgus Reconstruction, Midfoot Reconstruction, Metatarsal Ligament Repair, Flexor Hallucis Longus for Achilles Tendon reconstruction, tendon transfers in the foot and ankle

Knee: Repair/Reconstruction of the Anterior Cruciate Ligament, Posterior Cruciate Ligament, Medial Collateral Ligament, Lateral Collateral Ligament, Patellar Tendon, Posterior Oblique Ligament, Iliotibial Band Tenodesis, MPFL

Elbow: Biceps Tendon Reattachment, Ulnar or Radial Collateral Ligament Reconstruction

Hand/Wrist: Scapholunate Ligament Reconstruction, Ulnar Collateral Ligament Reconstruction, Radial Collateral Ligament Reconstruction, Carpometacarpal joint arthroplasty (basal thumb joint arthroplasty), Carpal Ligament Reconstructions and repairs, tendon transfer in the hand/wrist

Refer to the product Instructions for Use for complete warnings, precautions, indications, contraindications, and technique.

DOC-0004729 Rev 1.0 07/2026

© OSSIO and OSSIOfiber® are registered trademarks of OSSIO Ltd. All rights reserved 2026. Medical professionals must use their professional judgment for patient selection and appropriate technique. Results may vary. Some products mentioned in this document may not be currently available or approved for sale in your country. Speak to your local sales representative/distributor for product availability.

300 Trade Center, Suite 3690, Woburn, MA 01801, USA

Visit [OSSIO.io](https://ossio.io) for more information.



OSSIO®
Restore. Regrow. Renew.