

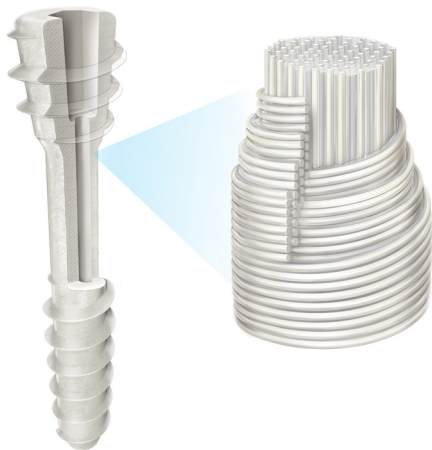


Restore. Regrow. Renew.

# OSSIOfiber® Compression Screws

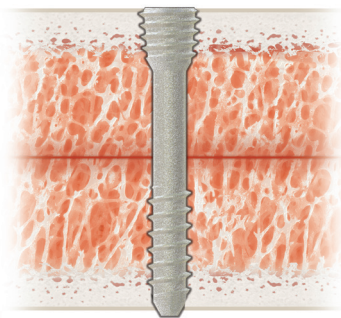
## Superior Fixation meets Better Bone Healing. The Patient Experience is Yours to Transform.

Bio-Integrative OSSIOfiber® Compression Screws deliver superior performance to conventional metal screws<sup>1-2</sup> and gradually integrate fully into bone<sup>3</sup>, for a true return to full strength and a total healing that other implants simply can't provide.



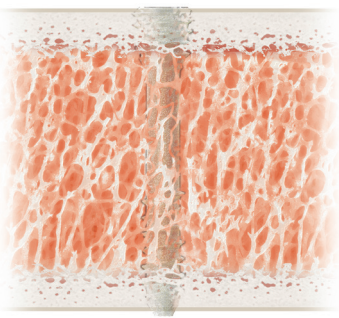
**Comprised of OSSIOfiber®  
Intelligent Bone Regeneration Technology**

Natural mineral fiber matrix engineered to achieve the optimal balance of flexural, torque, axial, and shear strength for Compression Screws



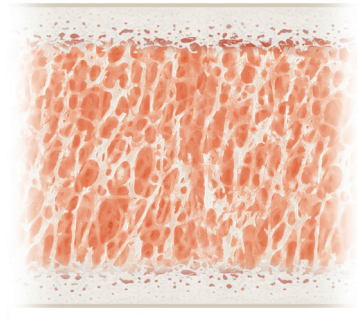
**Surgery**

**Outperforms Conventional  
Metal Compression Screws<sup>1-2</sup>**



**Post-Operative Healing**

**Gradual Bone Integration  
and Load Sharing**

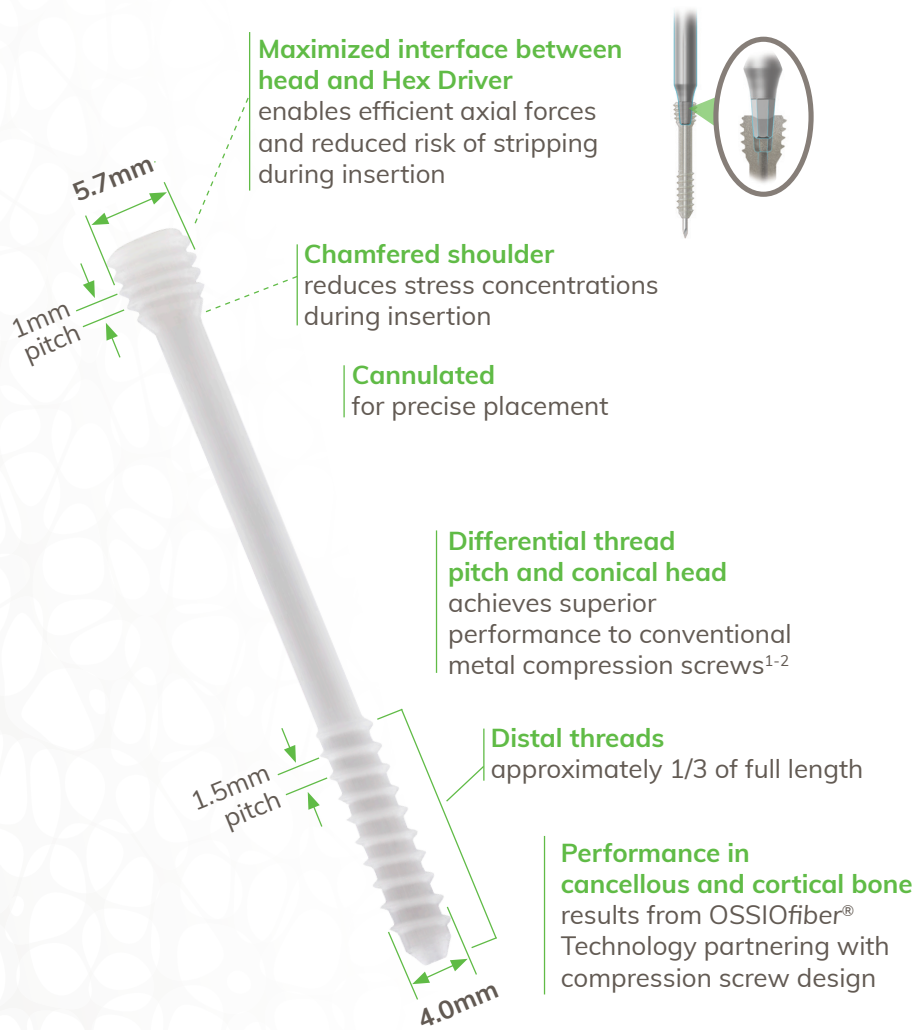


**Long Term Healing**

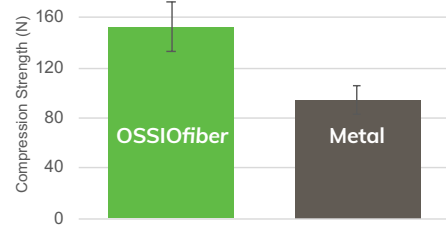
**Only Nature Remains**

## OSSIOfiber® Compression Screw

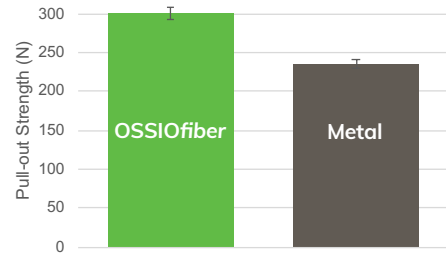
Confidently swap conventional metal compression screws for OSSIOfiber®. The design features and OSSIOfiber® Intelligent Bone Regeneration Technology deliver superior performance, fit seamlessly into existing surgical techniques, and avoid the risks and complications associated with permanent hardware.



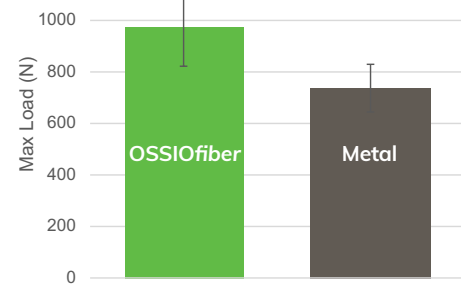
### SUPERIOR compression strength<sup>1</sup>



### SUPERIOR pull-out resistance<sup>2</sup>



### EQUIVALENT shear and flexural stability in an osteotomy construct<sup>4</sup>



## Sterile, Disposable Instrumentation

### Sterile, Disposable Instrumentation System

Streamline OR preparation and reduce unnecessary exposure to pathogens with the use of sterile, disposable instrumentation. The instruments utilize familiar, proven surgical techniques with the added convenience of AO quick connections for use manually with the provided ergonomic handle or with standard power drills.



- AO Quick Connect Handle
- Cannulated Depth Gauge / Countersink
- Drill Guide
- Cannulated Drill Bit, Size 3.2mm
- Cannulated Tap
- Cannulated Hex Driver
- Three 1.1mm K-Wires

## Don't Just Fix it with Conventional Metal – Heal It Naturally with Bio-Integrative OSSIOfiber®



SURGERY

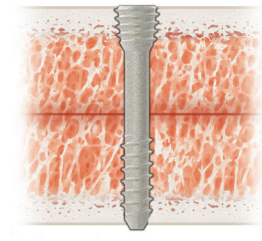
### BASIC COMPRESSION AND FIXATION



Conventional Metal implants' best performance comes at 'Time 0'

### SUPERIOR COMPRESSION AND PULL-OUT RESISTANCE<sup>1-2</sup>

Equivalent shear and flexural stability in an osteotomy construct<sup>4</sup>



POST-OP HEALING

### COMPROMISED FUSION AND HEALING



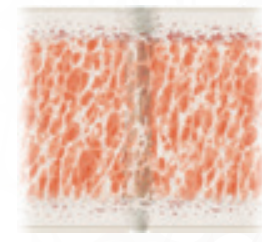
Permanent metal implants can obstruct up to 24% of the fusion surface area<sup>5</sup>

Permanent metal implants have increased risk of micromotion, screw back-out, and stress shielding

### UNOBSTRUCTED, COMPLETE FUSION DELIVERS BETTER BONE HEALING

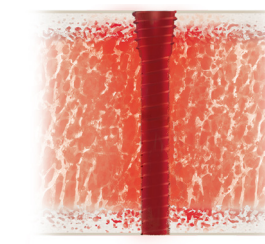
Up to 5X increased surface area available for bone integration may contribute to a more stable construct<sup>5</sup>

Progressive load transfer enables a true return to full strength



LONG TERM HEALING

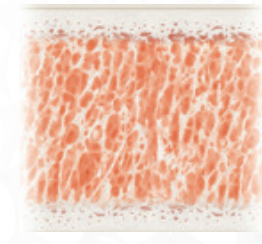
### 1 IN 4 PATIENTS REQUIRE REMOVAL SURGERY<sup>6</sup>



1 in 4 patients have permanent hardware removed<sup>6</sup> resulting in 15% complication rate<sup>7</sup>

### ONLY NATURE REMAINS

Full integration into native anatomy with no adverse inflammation<sup>2</sup>

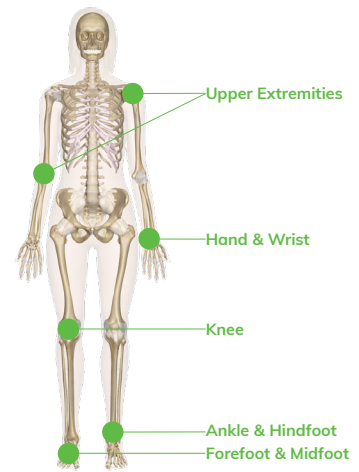


# Indications

## Confidently Swap Metal for OSSIOfiber®

The OSSIOfiber® Compression Screws are indicated for maintenance of alignment and fixation of bone fractures, comminuted fractures, fragments, osteotomies, arthrodesis, and bone grafts, of the upper extremity, fibula, knee, ankle and foot in the presence of appropriate brace and/or immobilization.

Choose strong and bio-integrative OSSIOfiber® Compression Screw over standalone conventional, metal compression screws.



Compression Screws are provided sterile in individual packaging. The associated instrumentation is single-use and disposable in an independent pack.

For more on OSSIO and OSSIOfiber, please visit [ossio.io](http://ossio.io) or call **833-781-7373**

1. In Vitro Initial Compression Strength Test. Data on File at OSSIO.
2. In Vitro Pull-Out Strength Test of 3.5x26mm OSSIOfiber Compression Screws. Data on File at OSSIO.
3. Pre-clinical animal studies (in-bone implantation of OSSIOfiber and PLDLA control in rabbit femurs). Data on File at OSSIO.
4. In Vitro Test in a Simulated Medial Malleolar Construct. Data on File at OSSIO.
5. In Vitro Data on File at OSSIO.
6. Kaiser, P. B., Watkins, I., Riedel, M. D., Cronin, P., Briceno, J., & Kwon, J. Y. (2019). Implant Removal Matrix for the Foot and Ankle. *Orthopaedic Surgeon. Foot & Ankle Specialist*, 12(1), 79–97
7. Pot J, Wensen RV, Olzman J. Hardware Related Pain and Hardware Removal after Open Reduction and Internal Fixation of Ankle Fractures. *The Foot and Ankle Online Journal*. 2011;4(5).

## Ordering Information

Description	Product Code
OSSIOfiber® Compression Screw 4.0 x 26mm	OF1024026S
OSSIOfiber® Compression Screw 4.0 x 28mm	OF1024028S
OSSIOfiber® Compression Screw 4.0 x 30mm	OF1024030S
OSSIOfiber® Compression Screw 4.0 x 32mm	OF1024032S
OSSIOfiber® Compression Screw 4.0 x 34mm	OF1024034S
OSSIOfiber® Compression Screw 4.0 x 36mm	OF1024036S
OSSIOfiber® Compression Screw 4.0 x 38mm	OF1024038S
OSSIOfiber® Compression Screw 4.0 x 40mm	OF1024040S
OSSIOfiber® Compression Screw 4.0 x 42mm	OF1024042S
OSSIOfiber® Compression Screw 4.0 x 44mm	OF1024044S
OSSIOfiber® Compression Screw 4.0 x 46mm	OF1024046S
OSSIOfiber® Compression Screw 4.0 x 48mm	OF1024048S
OSSIOfiber® Compression Screw 4.0 x 50mm	OF1024050S
OSSIOfiber® Compression Screw 4.0 x 52mm	OF1024052S
OSSIOfiber® Compression Screw 4.0 x 54mm	OF1024054S
OSSIOfiber® Compression Screw 4.0 x 56mm	OF1024056S
OSSIOfiber® Compression Screw 4.0 x 58mm	OF1024058S
OSSIOfiber® Compression Screw 4.0 x 60mm	OF1024060S
OSSIO Compression Screw Instrument Pack 4.0mm	THN00057

DOC0001512 Rev 01 02/2021

® OSSIO and OSSIOfiber are trademarks of OSSIO Ltd. All rights reserved 2021.

Not available for sale outside of US. Speak to your local sales representative for product availability.

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

**OSSIO®**  
Restore. Regrow. Renew.