

STEP OSStaple™

A Part of the PATENTED OSSforce™ Fixation System*

Exclusive Design Offsets and Compresses Uneven Bone Surfaces Simultaneously

Ideal for Calcaneal Slide Osteotomies, First Metatarsal-Cuneiform Arthrodeses (Lapidus Procedures) and Other Rearfoot Fusions

Surgeon can Control the Rate & Amount of Compressive Force Applied to Bone Using the Patented OSSforce™ Implant Controller*

Surgeon can Visualize Compression and Determine Stability Prior to Closure

Provides Long-Term Residual Compression to Complement Wolff's Law

100% Fusion Interface Available for Healing

20% Stronger than 316L Stainless Steel When Activated

*U.S. Patent Number 7,240,677. Additional patents pending.



slide with confidence



BME
Changing the Shape
of Orthopaedics

STEP OSStaple™



The BME Step OSStaple™ is part of the most advanced orthopaedic shape memory fixation system available. The exclusive Step OSStaple™ conforms to uneven bony surfaces while simultaneously offsetting and compressing the bony fragments.

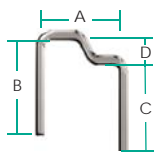
In addition, this extraordinary implant not only compresses bone at the time of surgery, but continues to provide long-term active reduction of bone fragments to maximize bone union.

The cornerstone of this system is the patented† OSSforce™ Implant Controller, BME's bipolar electrical device that safely heats the Step OSStaple™ causing the implant to change shape and compress bone. The unique OSSforce™ Implant Controller enables surgeons to control the timing of implant activation, the amount of compressive force the implant applies to bone, and the rate at which that compression occurs.

With the Step OSStaple™, the OSSforce™ Implant Controller and surgical instrumentation, the OSSforce™ Fixation System gives you the most extraordinarily secure fixation.



OSSforce™
Implant Controller



Step OSStaple™ Sizing Chart

| Size | Wire Size* | Catalog No. | A* | B* | C* | D* |
|------|------------|-----------------|----|----|----|----|
| M | 2 x 2 | OS-1520-02 W2 | 15 | 20 | 20 | 02 |
| | | OS-1520-04 W2 | 15 | 20 | 20 | 04 |
| | | OS-1520-06 W2 | 15 | 20 | 20 | 06 |
| | | OS-1520-09 W2 | 15 | 20 | 20 | 09 |
| | | OS-1520-12 W2 | 15 | 20 | 20 | 12 |
| L | 2 x 3 | OS-2020-02 W2x3 | 20 | 20 | 20 | 02 |
| | | OS-2020-04 W2x3 | 20 | 20 | 20 | 04 |
| | | OS-2020-06 W2x3 | 20 | 20 | 20 | 06 |
| | | OS-2020-09 W2x3 | 20 | 20 | 20 | 09 |
| | | OS-2020-12 W2x3 | 20 | 20 | 20 | 12 |

*Sizes in millimeters.



1 Prepare the Two-Prong Adjustable Drill Guide by inserting the corresponding Step Staple Adaptor into the hole of the guide closest to the gold handle as shown.



2 Abut the flat portion of the Step Staple Adaptor against the proximal surface of the osteotomy.

NOTE: For OS-2020 Implants, set the prongs of the Drill Guide to 20mm and use the 20mm adaptor. For OS-1520 Implants, set the prongs of the Drill Guide to 15mm and use the 15mm adaptor.



3 Drill the proximal hole to a 20mm depth and remove Step Staple Adaptor.



4 Insert the Pull Pin into the proximal hole of the drill guide and then drill the distal hole to a 20mm depth.

NOTE: Ensure the prongs of the Drill Guide remain parallel to the osteotomy and align the guide so as to allow 10mm distance between the two implants.

Repeat steps 1-4 when drilling for the adjacent implant, keeping a distance of 10mm between the two implants.



5 Measure the amount of correction desired using typical means of measurement and determine the applicable Step OSStaple™ offset of 2, 4, 6, 9, or 12mm.

Insert both implants and impact flush with the cortex and remove any temporary fixation.



6 Energize the corners of both Step OSStaple™ implants in a diametric fashion with the OSSforce™ Implant Controller on the power and time settings described in the Instructions for Use or on the implant packaging.