Z-Staples Mini

Z-Staples are single-use „All-in-one“ implants with integrated specific operational instruments connected to a breakable (SnapOff) handle. The inside of the handle features an integrated drilling gauge. Furthermore, the proximal end of the handle also serves as striking surface for the Z-Staple. The product is individually sterile packaged.

With the development of the innovative Z-Staples with SnapOff technology the disadvantages coming along with the application of customary staples have been eliminated (difficult to hold due to their shape and size, large number of surgical instruments, often it is required to open a sterile set for a single staple).

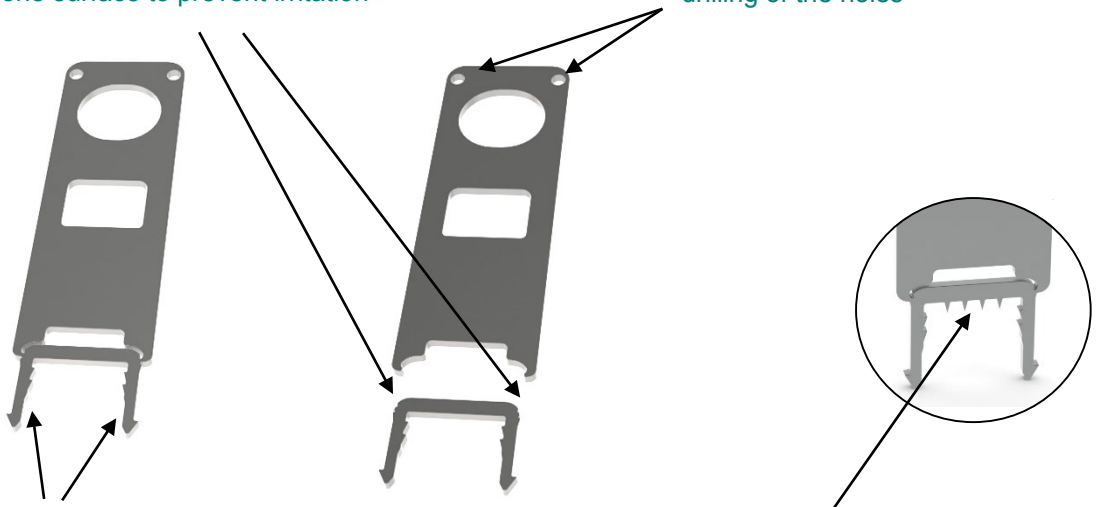
Indication
The Z-Staples are indicated for fixation of bone fractures or bone reconstruction.
Examples included:

- Fixation of bone fragments or small bone fractures
- Fracture management in the foot and hand
- Osteotomies in hand, foot or ankle surgery and soft tissue

Z-Staples Mini Titanium, 1mm

Almost burr-free site of breakage near the bone surface to prevent irritation

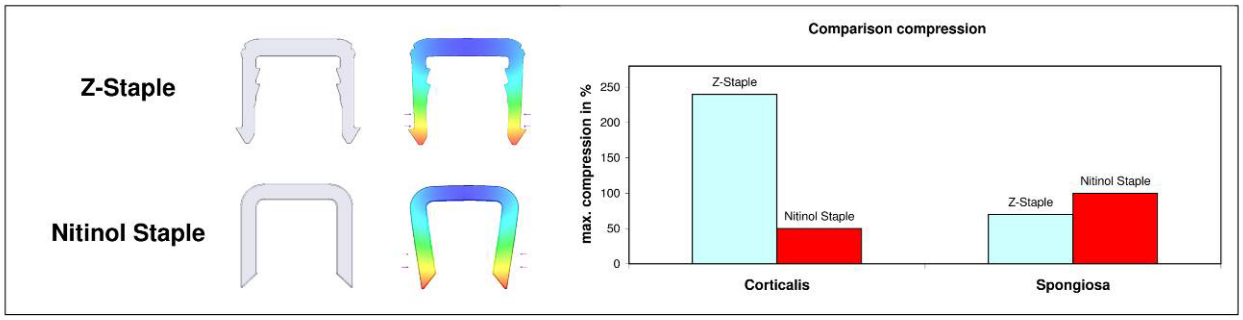
Drilling gauge for precise drilling of the holes



Leg geometry for maximum sustained compression in the cortical bone and spongiosa

Spikes for additional fixation of tendons / soft tissue in combination with suture techniques instead of anchors

Z-Staple - comparison of compression



Z-Staples Mini create their compression by the exact positioning of the holes combined with the geometry of the legs. Different to Nitinol Staples, which produce nearly no compression in the cortex, the compression here is selectively in the cortex, where the forces can be transferred from the bone. Lower compression of cancellous bone was deliberately chosen by Z-Medical since a high compression cannot be created with osteoporotic structures.

Your benefits:

- optimal availability by individual sterile packaging, 7 years durability
- fewer operational steps and therefore shortened time of surgery
- with the usage of our innovative implants and instruments there is no need to utilize elaborate sets of instruments meaning enormous cost savings in connection with your sterilization

Your financial benefit:

- with these cost savings the charges for the implants can be largely covered

Z-Staples Mini single sterile packaged

Z-Staples for fixation, compression of small bone fragments, arthrodesis

C03 100 4 / 4mm
C03 101 6 / 6mm
C03 003 8 / 8mm
C03 004 10 / 8mm
C03 009 12 / 10mm
C03 011 15 / 10mm
C03 013 10 / 11mm

C03 120 4 / 4mm 26°
C03 121 6 / 6mm 26°
C03 001 8 / 8mm 26°
C03 002 10 / 8mm 26°
C03 010 12 / 10mm 26°

Z-Staples for compression of small bone fragments, fixation of tendons and soft tissue

C03 130 8 / 8mm
C03 131 10 / 8mm
C03 132 12 / 10mm
C03 133 15 / 10mm

C03 140 8 / 8mm 26°
C03 141 10 / 8mm 26°
C03 142 12 / 10mm 26°

Z-Staples with steps for fixation, compression of small bone fragments

C03 150 4 / 4 / 2mm
C03 151 6 / 6 / 2mm
C03 152 8 / 8 / 2mm
C03 153 10 / 8 / 2mm
C03 154 12 / 8 / 2mm
C03 155 10 / 8 / 4mm
C03 156 12 / 10 / 4mm

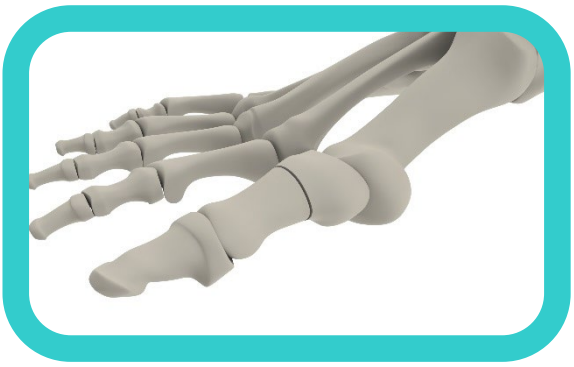
Instruments sterile

C03 007 S
Z-Guide Wire Ø 1,5x80mm, hollow grinding trocar round
2 Guide Wires single use, sterile packaged

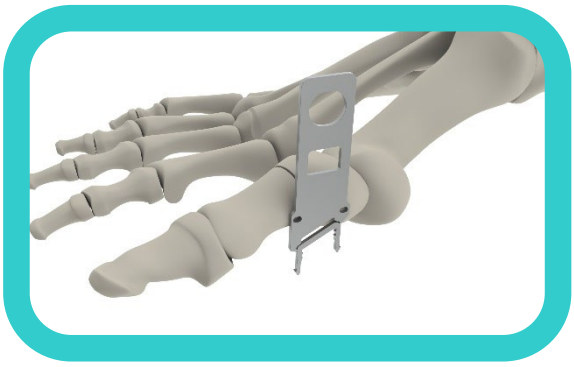
Optional instruments

C03 006
Applicator
for users that prefer bigger application instruments

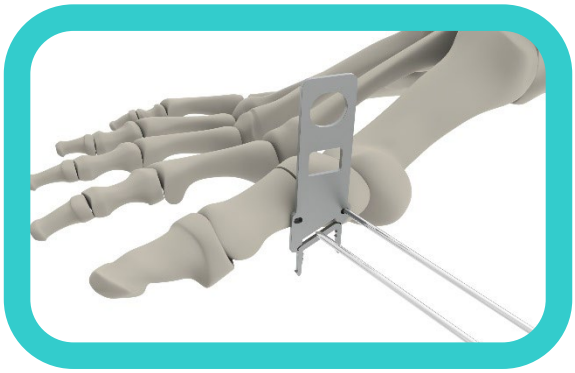
Technical Guide



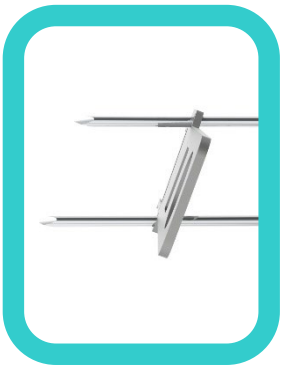
1. Preparation of the osteotomy with standard operation techniques



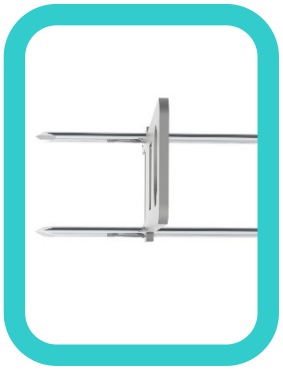
2. Concentric alignment of the drilling gauge Relative to the osteotomy. Placing of the first Guide Wire



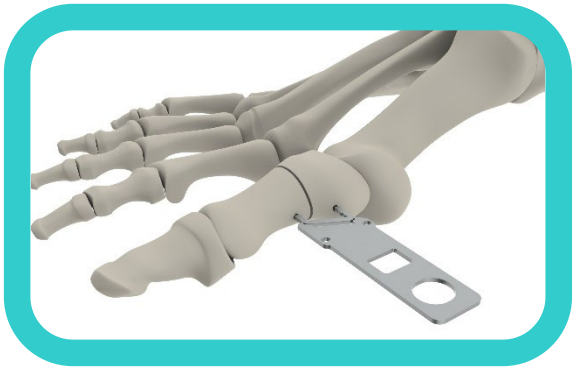
3. Placing of the second Guide Wire upon the closure of the osteotomy (Figure shows a 26° Staple)



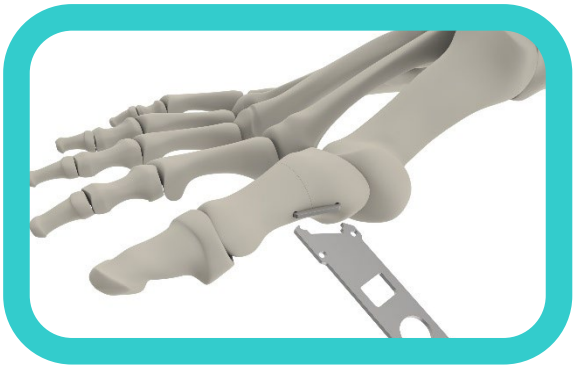
26° Staple with Guide Wires



straight Staple with Guide Wires



4. Positioning of the staple onto and subsequent insertion into the pre-drilled holes. If necessary, the staple can be forced into the holes by striking the proximal end of the handle with a mallet



5. Once the staple is in the desired position the handle is broken off by conducting a lateral movement. The Staple preferably should be flush against the bone surface

Z-Staples Medium

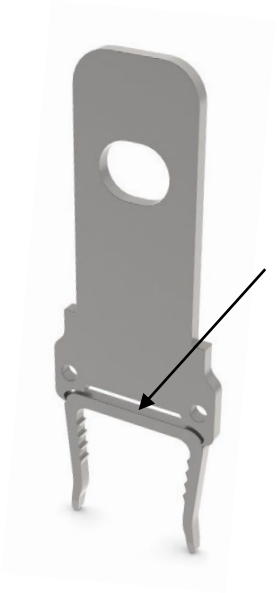
Z-Staples are single-use „All-in-one“ implants with integrated specific operational instruments connected to a breakable (SnapOff) handle. The inside of the handle features an integrated drilling gauge as well as a stop collar. Furthermore, the proximal end of the handle also serves as striking surface for the Z-Staple. The product is individually sterile packaged.

With the development of the innovative Z-Staples with SnapOff technology the disadvantages coming along with the application of customary staples have been eliminated (difficult to hold due to their shape and size, large number of surgical instruments, often it is required to open a sterile set for a single staple).

Indication
The Z-Staples are indicated for fixation of bone fractures or bone reconstruction.
Examples included:

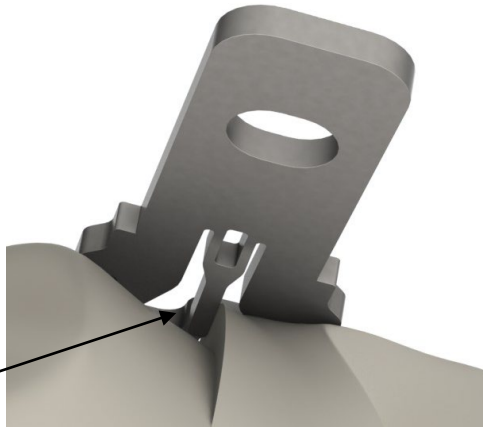
- Fixation of bone fragments or small bone fractures
- Fracture management in the foot and hand
- Osteotomies in hand, foot or ankle surgery and soft tissue

Z-Staples Medium Titanium, 2mm

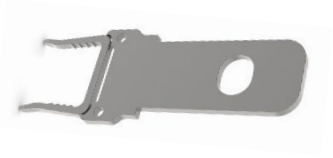


Optimised design of legs and bridge for ideal compression

Stop collar of drilling gauge for ideal positioning of the Staples



Z-Staples Medium single sterile packaged



Z-Staples for fixation of Osteotomies and fractures

C03 205	10 / 15mm
C03 206	10 / 20mm
C03 207	10 / 25mm
C03 208	15 / 15mm
C03 209	15 / 20mm
C03 210	20 / 20mm
C03 211	25 / 20mm

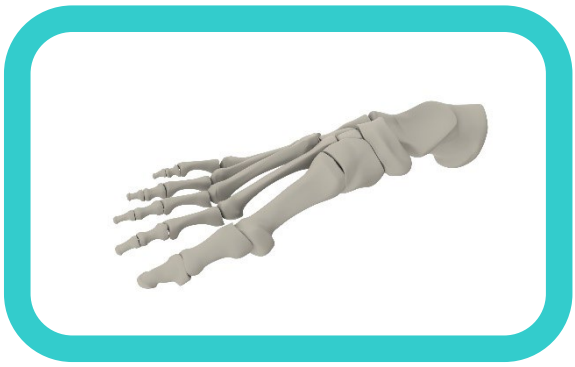
Z-Staples with steps for fixation of Osteotomies and fractures

C03 250	15 / 20 / 2,5mm
C03 251	15 / 20 / 5mm
C03 252	15 / 20 / 7,5mm

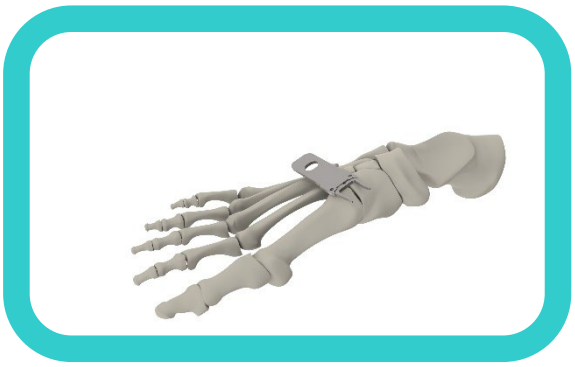
Instruments sterile

B01 248 S
Z-Guide wire Ø2,6x100mm hollow grinding trocar round
2 Guide Wires single use, sterile packaged

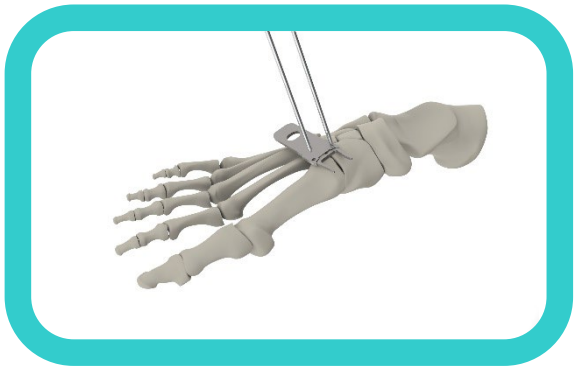
Technical Guide



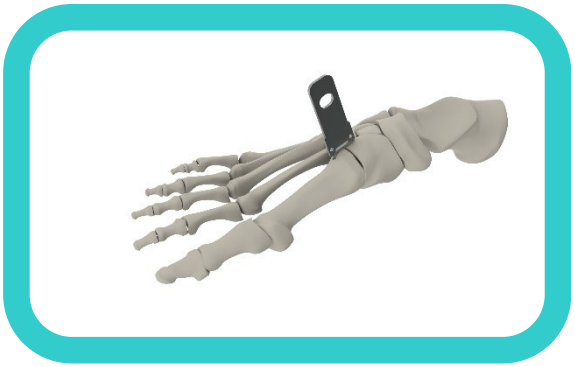
1. Preparation of the arthrodesis with standard operation techniques. Offset-Staple: see Technical Guide Z-Staple-Large



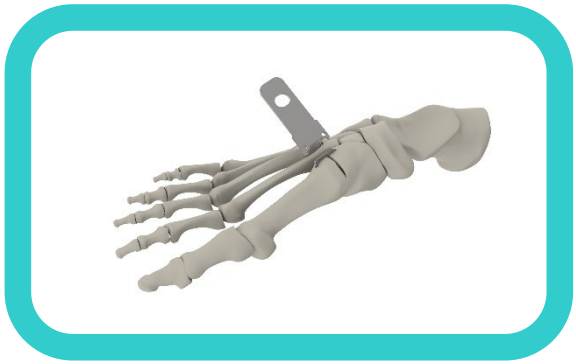
2. Concentric alignment of the drilling gauge relative to the arthrodesis. Placing of the first Guide Wire



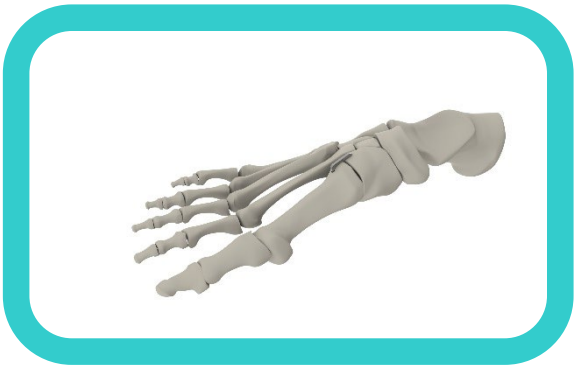
3. Placing second Guide Wire while arthrodesis is aligned



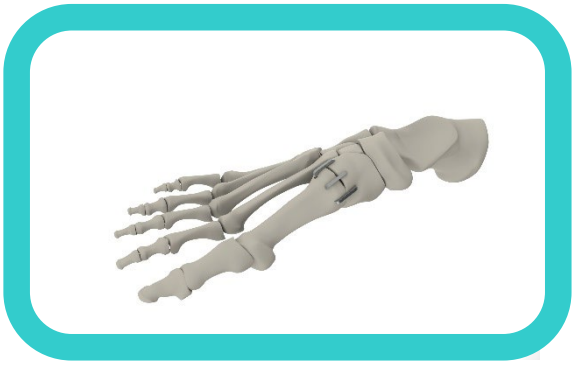
4. Positioning and insertion of the staple



5. If necessary the staple can be forced into the holes by striking the proximal end of the handle with a mallet. Break off the handle by a conducting lateral movement



6. The Staple preferably should be flush against the bone surface



7. Insertion of further staples according to the steps 1-6

Z-Staples Large

Z-Staples are single-use „All-in-one“ implants with integrated specific operational instruments connected to a breakable (SnapOff) handle. The inside of the handle features an integrated drilling gauge as well as a stop collar. Furthermore, the proximal end of the handle also serves as striking surface for the Z-Staple. The product is individually sterile packaged.

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Examples included:

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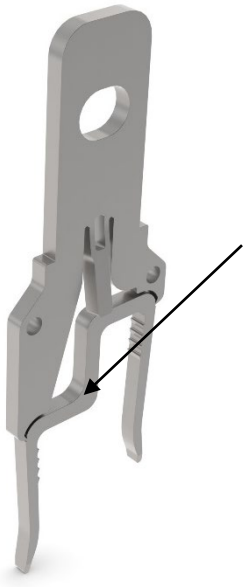
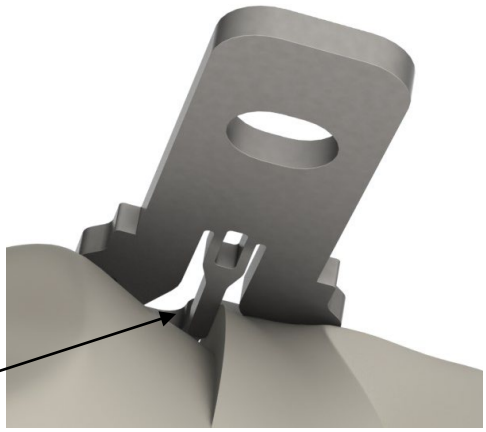
Z-Staples Large Titanium, 3mm



Optimized design of legs and bridge for ideal compression

Stop collar of drilling gauge for ideal positioning of the Staples



Z-Staples Large single sterile packaged

Z-Staples with steps for fixation of Osteotomies and fractures

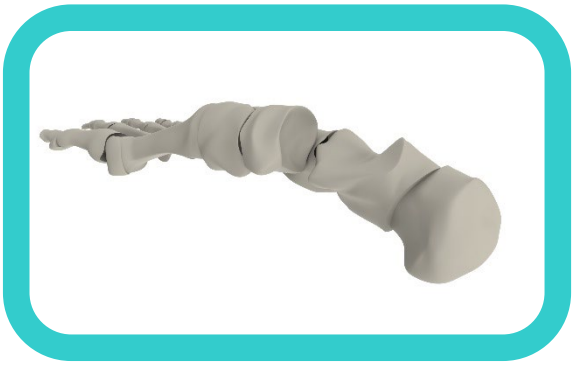
C03 260	20 /	20 /	2,5mm
C03 261	20 /	20 /	5mm
C03 262	20 /	20 /	7,5mm
C03 263	20 /	20 /	10mm

C03 240	25 /	30 /	5mm
C03 241	25 /	30 /	10mm
C03 242	25 /	30 /	15mm

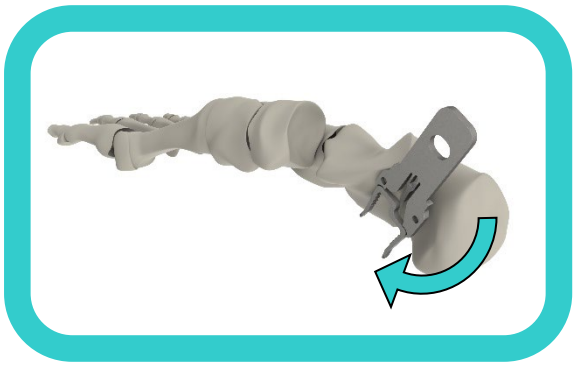
Instrumente steril

B01 253 S
Z-Guide wire Ø3,2x100mm hollow grinding trocar round
2 Guide Wires single use, sterile packaged

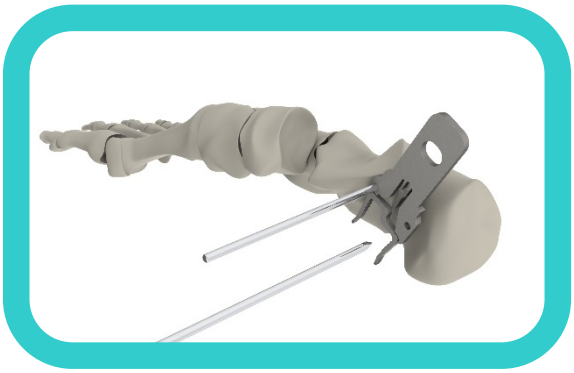
Technical Guide



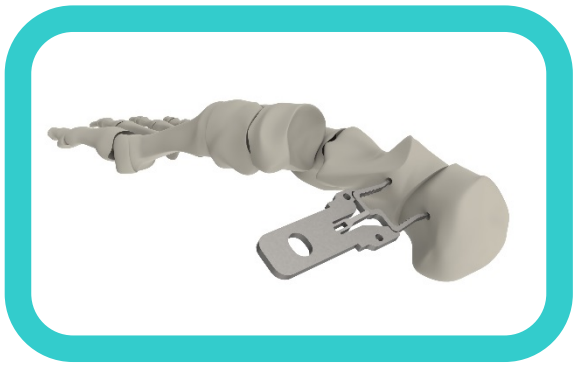
1. Preparation of the osteotomy with standard operation techniques.



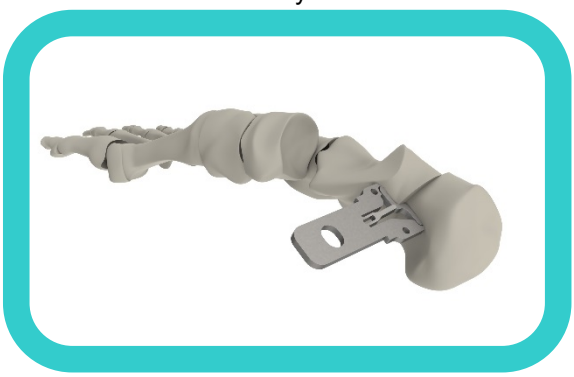
2. The Drill gauge can be positioned bilateral by using the stop collar. Placing of the first Guide Wire



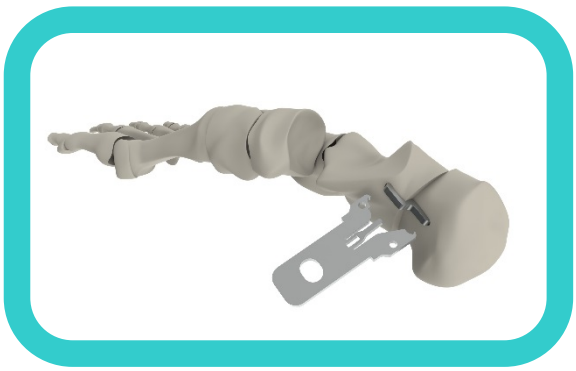
3. Placing of the second Guide Wire upon the closure of the osteotomy



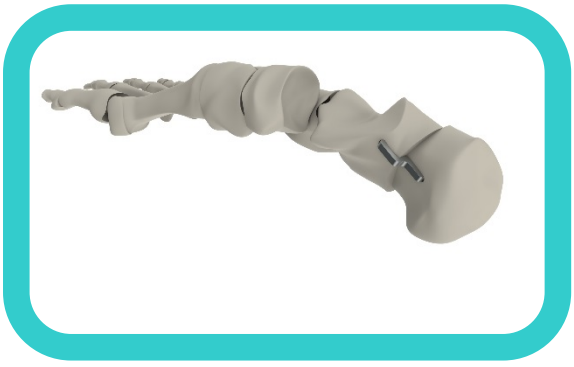
4. Positioning and insertion of the staple



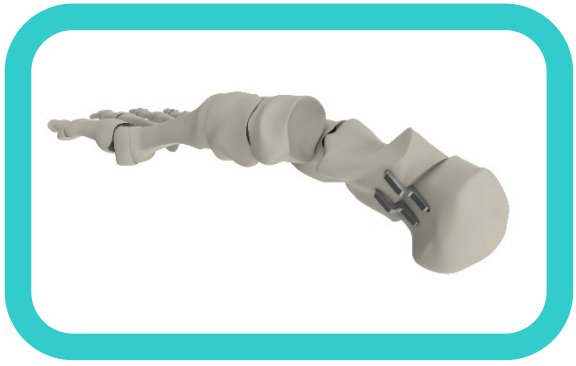
5. If necessary the staple can be forced into the holes by striking the proximal end of the handle with a mallet



6 Once the staple is in the desired position the handle is broken off by conducting a lateral movement



7. The Staple preferably should be flush against the bone surface



8. Insertion of further staples according to the steps 1-7

Made in
Germany

Presented by:

www.z-medical.de

Version 3