

0.S.2[®]-C

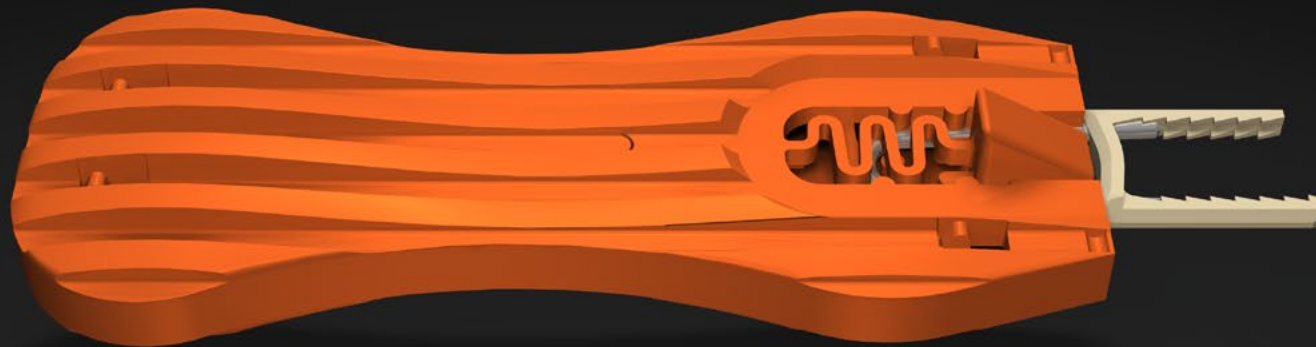
COMPRESSION STAPLE – PEEK



- ▶ The O.S.2® staples are indicated for fixation of arthrodesis, osteotomies and fractures in hand or foot surgery. The size of the staple selected should be appropriate for the specific indication.
- ▶ The O.S.2® staples are available for the NeoSys® single use instrumentation.

O.S.2®-C - Compression staple

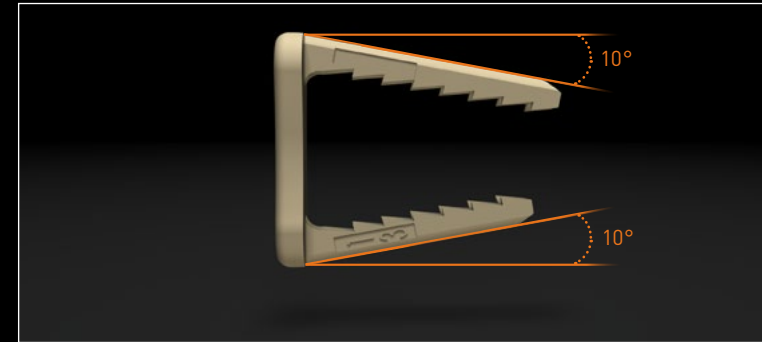
- ▶ The O.S.2® compression staple is the first osteosynthesis staple manufactured in PEEK-OPTIMA®. This material is recognised for its mechanical properties and radio-transparent qualities in numerous orthopaedic applications.
- ▶ The range of compression staples is available with a centre distance of 11mm, 13mm and 15mm with a constant legs length of 15/17 mm.
- ▶ The O.S.2®-C staple enables a constant and reproducible compression. The radio-transparent qualities of PEEK-OPTIMA® enable ease of control of bone synthesis.
- ▶ The OS2-C compression staple is delivered sterile, ready to use pre-assembled on its inserter.





RADIO-TRANSPARENT

- ▶ PEEK-OPTIMA® is radio transparent. This enables a good level of control of bone consolidation.



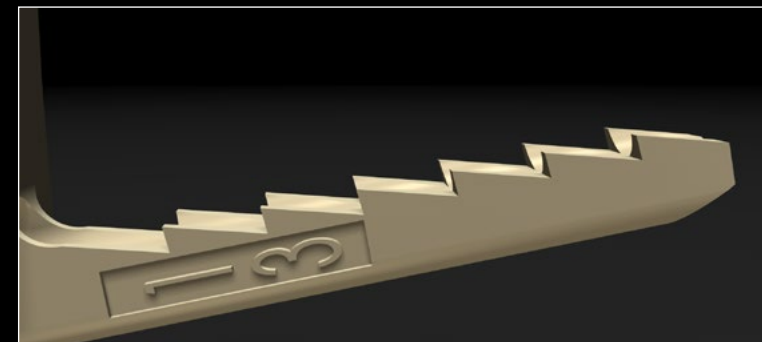
COMPRESSION

- ▶ The legs of the compression staple converge at 20°. Compression is linked to the mechanical properties of the material. Storage and use of the staple do not require temperature management.



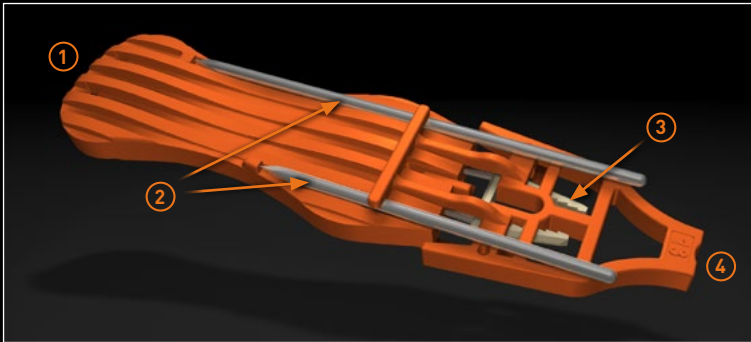
DESIGN

- ▶ The legs of the compression staple are a constant length of 15/17mm. It is possible to adapt and shorten the legs by 2mm increments corresponding to each teeth height. Their leg length difference eases insertion.



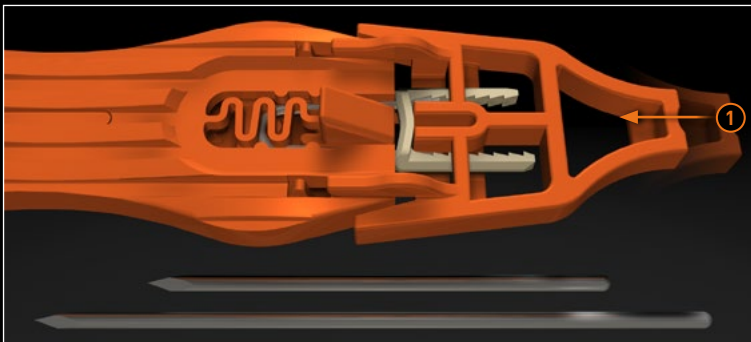
PRIMARY STABILITY

- ▶ The design of the teeth of the compression staple ensure primary stability as soon as they are inserted.



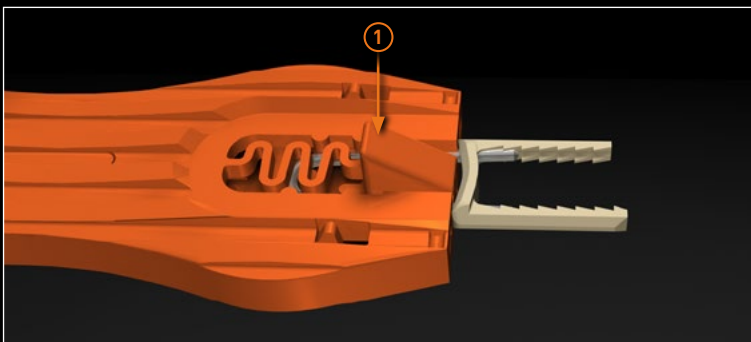
PACKAGING

- ▶ The OS2-C staple is delivered sterile on its inserter ① together with 2 2,5mm diameter drilling wires (lg 70 and 100mm) ②. The staple ③ pre-positioned on the inserter ④, is ready to be loaded.



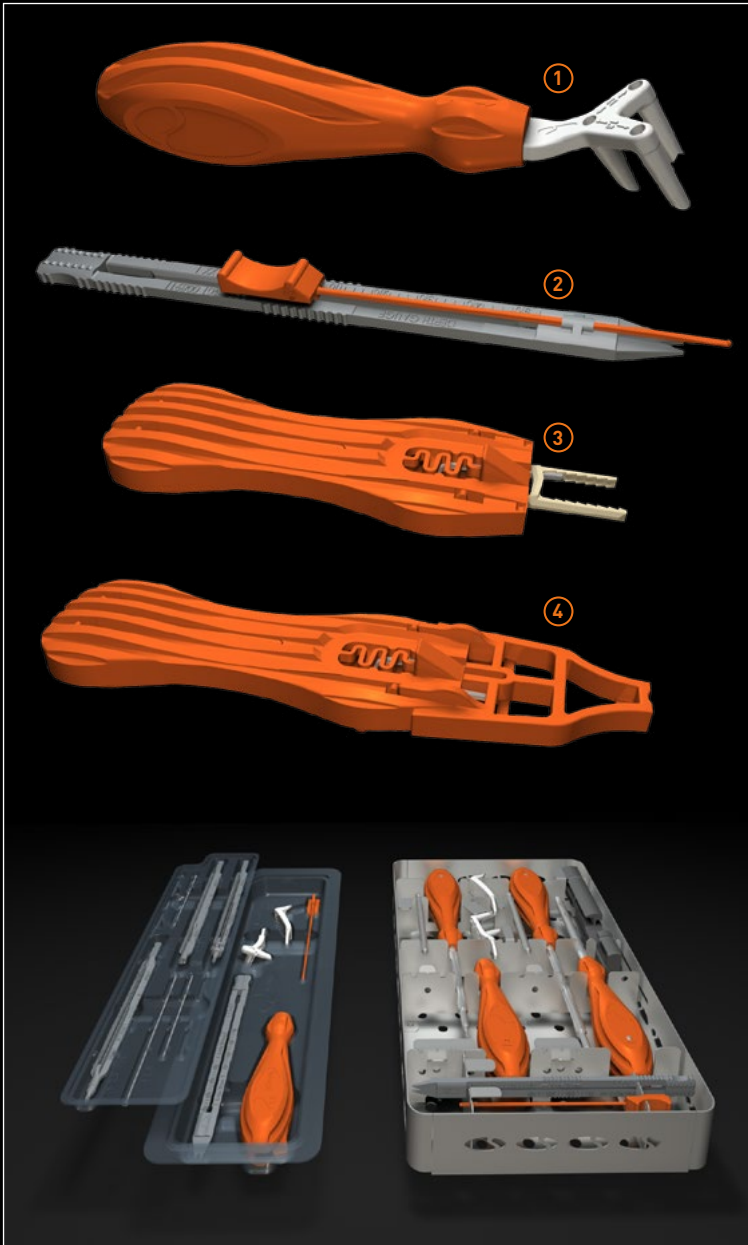
LOADING OF THE STAPLE

- ▶ The staple loading ① allows the legs to be positioned parallel to each other and thus to permit impaction. Loading the staple also releases the drilling wires for pre-drilling.



IMPLANTING

- ▶ Once the staple loaded on its inserter, it is yet ready to be implanted.
- ▶ It will be released thanks to the push-button. ①



INSTRUMENTATION

▶ The O.S.2® compression staple range is available with NeoSys® single use instrumentation or with re-usable instrumentation.

▶ DRILL GUIDE ①

The drill guide is included with the NEOSYS® instruments and fits the universal Handle. Drilling wires are supplied with each implant.

▶ DEPTH GAUGE ②

Allows measuring of leg length.

▶ INSERTER ③

The inserter is adapted to each staple width. It permits positioning and implanting of the staple with one hand only.

▶ IMPACTOR ④

The implant holder, once repositioned on the inserter can be used as an impactor.

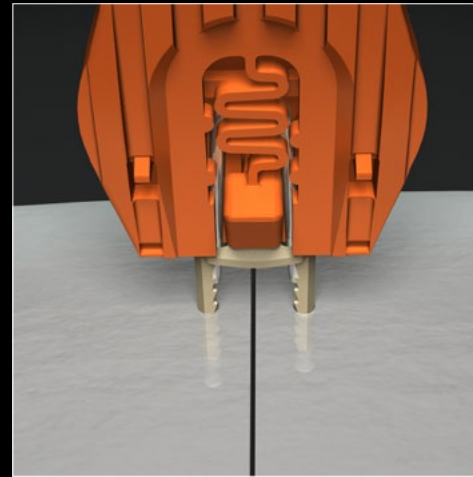
INDICATIONS

- ▶ The O.S.2® staples are indicated for fixation of arthrodeses, osteotomies and fractures in hand or foot surgery.
- ▶ The Staple size will be chosen according to its specific indication.

CONTRAINDICATIONS

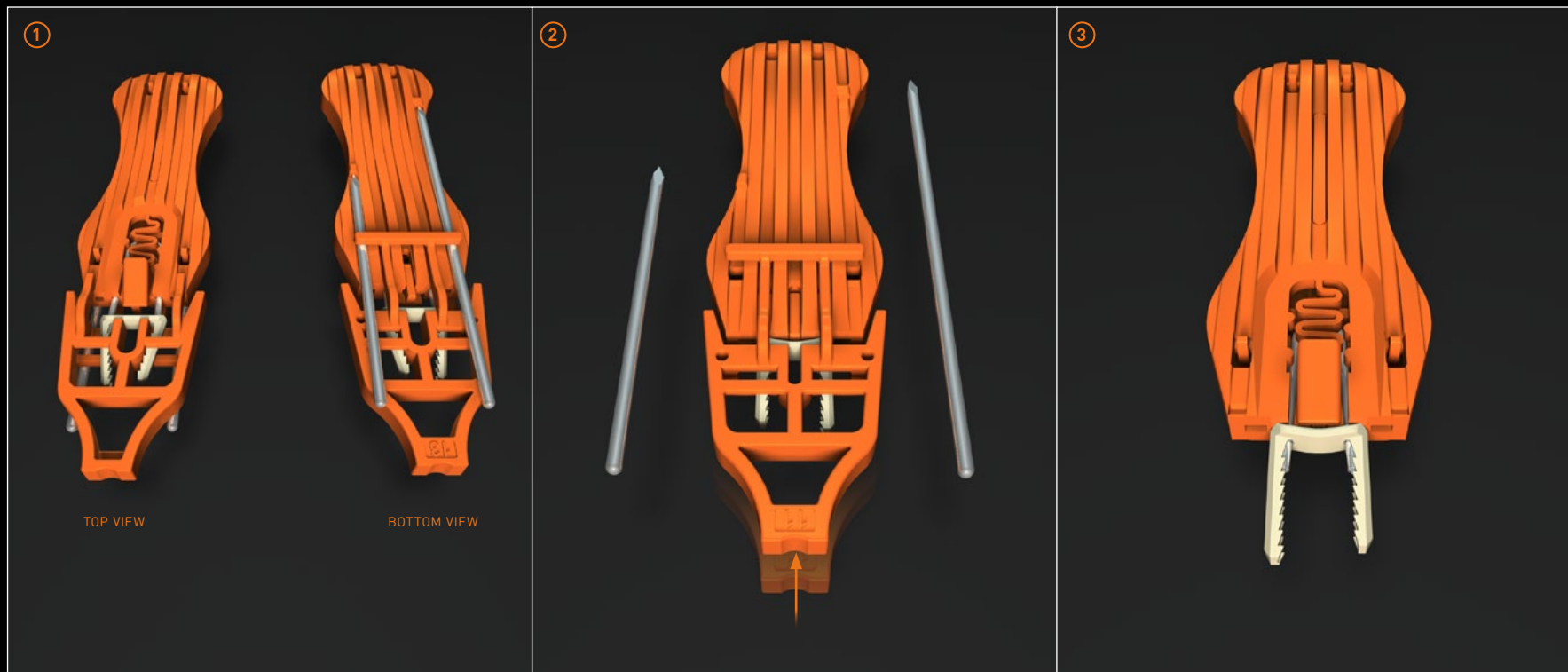
- ▶ The implant should not be implanted in patients who currently have or have had :
 - ▶ acute or chronic local inflammations, whether local or systemic
 - ▶ active infections
 - ▶ allergy or intolerance to foreign materials, whether suspected or known.
 - ▶ vascularisation disorders; a pathological condition of the soft tissues to be sutured to the bone, liable to undermine the rigidity of the fixation by the structure
 - ▶ bone deviation, severe osteoporosis, loss of bone mass
 - ▶ bone pathologies such as acute cystic developments or acute osteopenia that risk preventing proper drilling of a clean hole or compromising the rigidity of the fixation of the implant
 - ▶ the use of steroid derivatives, chemotherapy, ... etc.

OS2[®]-C STAPLE SURGICAL TECHNIQUE



In2Bones[®] as the manufacturer of this device, does not practice medicine and does not recommend this or any other surgical technique for use on a specific patient. The surgeon who performs any implant procedure is responsible for determining and using the appropriate techniques for implanting the device in each patient.

1 - STAPLE SETTINGS



- ▶ The OS2®-C staple is delivered sterile pre-assembled on its inserter with 2 drilling-wire of 2,5mm diam. (70 and 100mm) ①. The staple is protected inside the inserter.

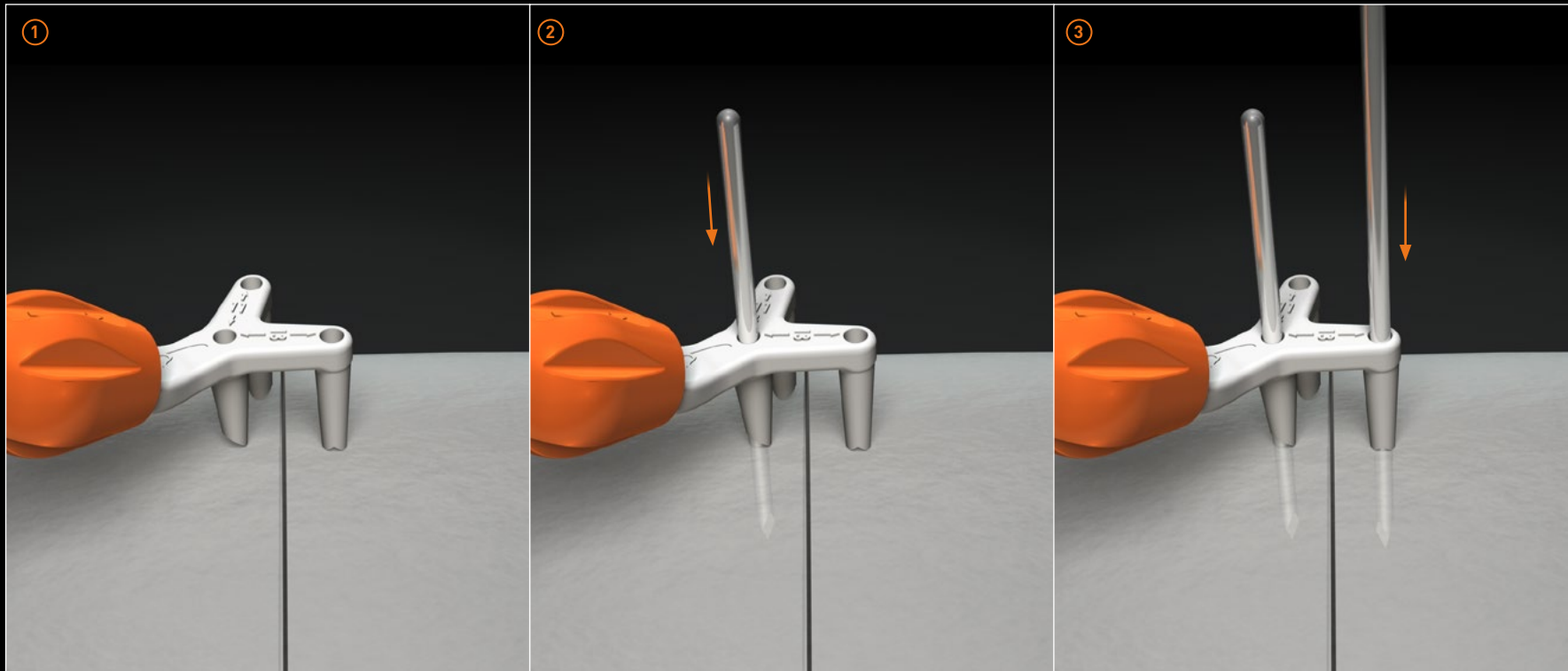
- ▶ Set-up

- ▶ Arm the inserter-staple by bringing the 2 pieces together.
- ▶ Thus the staple is set under compression and its legs are parallel (0°), the 2 drilling-wires are freed from the inserter and should be kept aside ②.

- ▶ Remove the Staple Holder-protector : the staple can now be implanted ③.

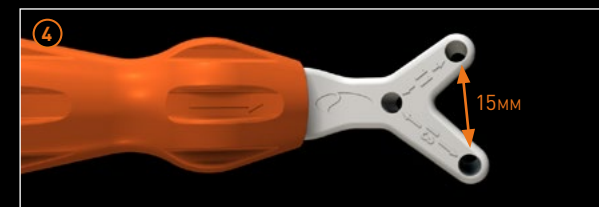
DO NOT DISCARD THE HOLDER - PROTECTOR
at this stage as it is used as impactor at the last stage of the procedure.

2 - BONE PREPARING

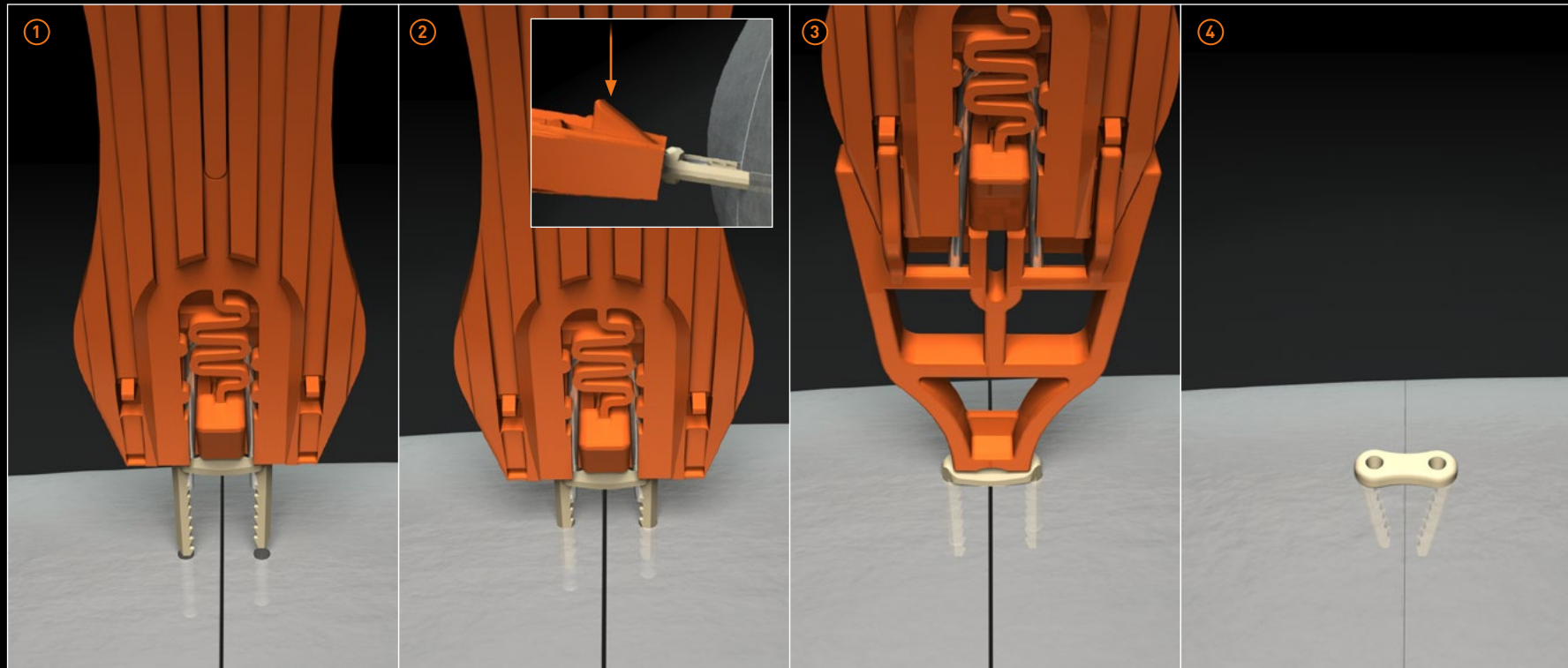


- ▶ Assemble the drill-guide on the Inserter (opposite to the staple) or on the Neosys® Handle should you be using the Neosys® single use instruments set.
- ▶ Place the guide on the bone bridging the osteotomy and select Staple size. The Osteotomy should at equal distance from the 2 drilling shafts ①.
- ▶ Use the 2,5mmDiam lg 70mm drilling-wire to drill the first leg of the staple ②.

- ▶ Leave the drilling-wire on site and drill the second hole using the 2,5mm diam. Lg 100mm drilling-wire ③.
- ▶ Should a 15mm interaxis staple be used, the 2 distal holes of the guide must be used ④.



3 - STAPLE IMPLANTING



▶ Implanting

- ▶ Guide the staple in the prepared holes. The leg length offset facilitates implantation ①.
- ▶ The 2 legs being inserted use the Inserter push-button to release the implant ②.
- ▶ The Staple protector can then be re-assembled on the inserter and used as an impactor to finalize staple insertion ③.

- ▶ Once released from the inserter the staple resumes to its original form; converging legs will provide desired compression ④.