

SURGICAL TECHNIQUE

All-in-One Staple



APTUS Foot

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For further information regarding the APTUS product line visit www.medartis.com

Introduction

Product Materials

Product	Material
Staples and K-wires	Stainless steel

Indications

APTUS All-in-One Staple

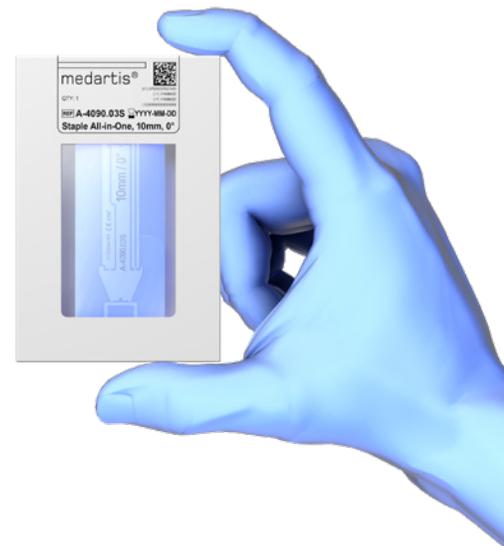
The APTUS All-in-One Staple is intended for use in osteotomies of metatarsals and phalanges.

Contraindications

- Preexisting or suspected infection at or near the implantation site
- Known allergies and/or hypersensitivity to implant materials
- Inferior or insufficient bone quality to securely anchor the implant
- Patients who are incapacitated and/or uncooperative during the treatment phase
- Growth plates are not to be blocked with implants

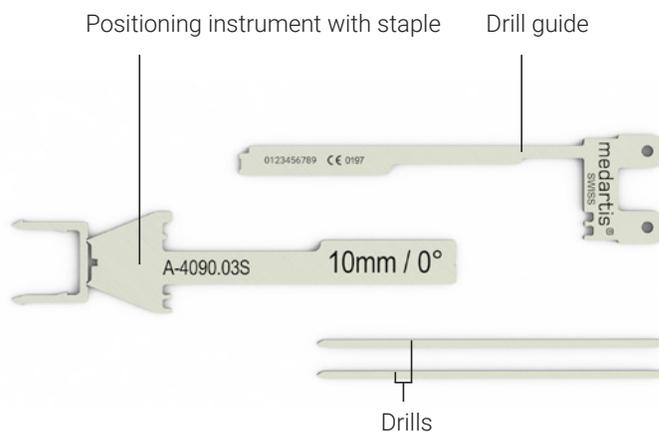


System Overview



Implant and Instruments

- Sterile staple kit with implant and all implant-specific instruments combined
- Two drills and the corresponding drill guide are included
- Positioning instrument



Implants

- Available in two widths (8 mm and 10 mm) and two angles (0° and 26°)
- Leg length 10 mm



Surgical Technique

Prior to Use

- Check the use-by date on the staple sterile packaging
- Inspect and verify the physical integrity of the packaging and do not use any product where the sterile packaging has been opened or damaged
- Confirm that the width and angle of the staple are per surgeon's request

Warning

Do not use damaged or expired sterile products.

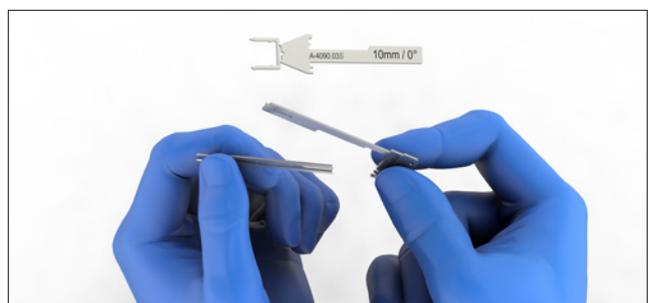
1. Preparing the staple

Remove the all-in-one staple from the sterile packaging following specific aseptic guidelines.

To detach the individual elements of the staple, hold the all-in-one staple at its ends. Make sure to grasp the positioning instrument and the staple by the corresponding junction points to prevent the staple from being detached prematurely.

Detach the two drills and the drill guide by applying slight opposite pressure against the positioning instrument.

Detach the drills from the drill guide in the same way.



2. Drilling

Drill the first hole through the drill guide using one of the detached drills. Leave the drill in the drill hole for fixation of the drill guide. Make sure that the osteotomy is completely closed, and the lateral cortex is intact, before drilling the second hole. With the second drill, drill the second hole parallel to the first drill hole through the drill guide. Due to the slightly wider distance of the drill holes in relation to the staple width, compression will be achieved during the insertion of the staple.

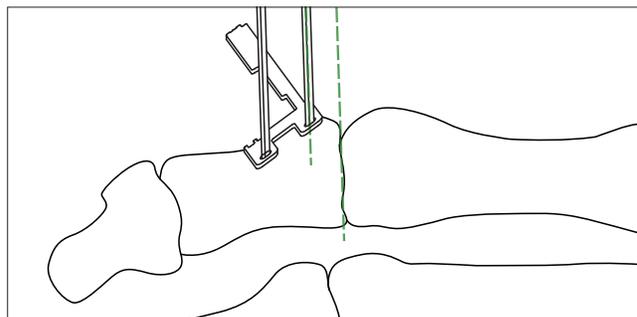
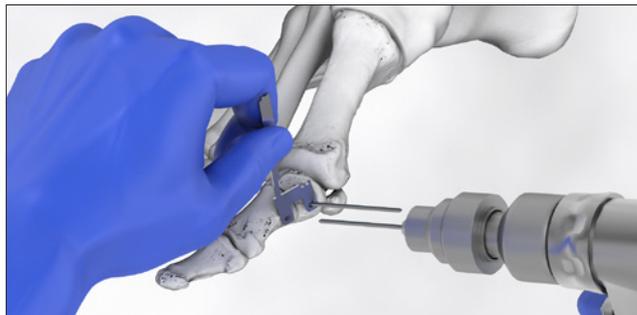
Warning

Ensure that adequate compression is achieved across the osteotomy.

As an alternative to the drills (1 x 1 mm), K-wires \varnothing 1.4 mm can be used.

Notice

With the 26° staples (A-4090.02S and A-4090.04S), pre-drilling must be carried out parallel to the joint surface.



3. Inserting the staple

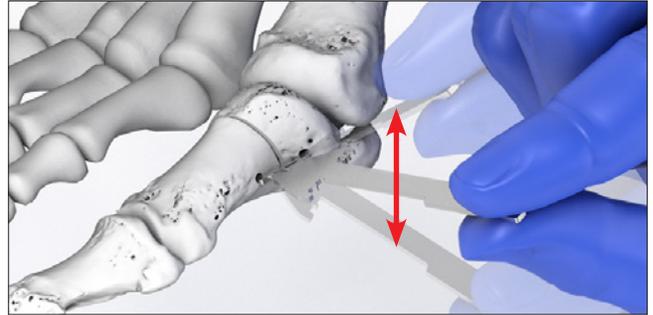
Remove the drill guide and the drills.



Insert the staple monocortically into the predrilled holes using the positioning instrument and if needed a small mallet.



Detach the positioning instrument from the staple by moving it slightly up and down



If the staple is not completely inserted, the positioning instrument acts as a tamp to correct the insertion depth of the staple using a small mallet. To do so, turn the positioning instrument by 90° to the staple and place it with the notch onto the staple.



Warning

Ensure the staple is completely inserted and resting on the bone. Irrigate and close in the standard manner.



Warning

In the case of osteoporotic bone, the staple should be detached from the positioning instrument before insertion and then inserted manually.

Explantation

Removing the staple

- Expose the site and the bridge of the staple
- If the implant is recessed, use a periosteal elevator to lift the staple bridge
- Using a forceps, grasp the center of the staple and remove
- If solidly connected to the bone, cut the center of the staple bridge and remove the two parts with a bone pliers

Implants and Instruments

Staples All-in-One

Material: Stainless steel (ASTM F139)
Staple thickness: 1.0 mm



A-4090.01S



A-4090.03S



A-4090.02S



A-4090.04S

Art. No.		Description (Width, Angle)	Pieces / Pkg
A-4090.01S	STERILE	08 mm, 0°	1
A-4090.02S	STERILE	08 mm, 26°	1
A-4090.03S	STERILE	10 mm, 0°	1
A-4090.04S	STERILE	10 mm, 26°	1

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