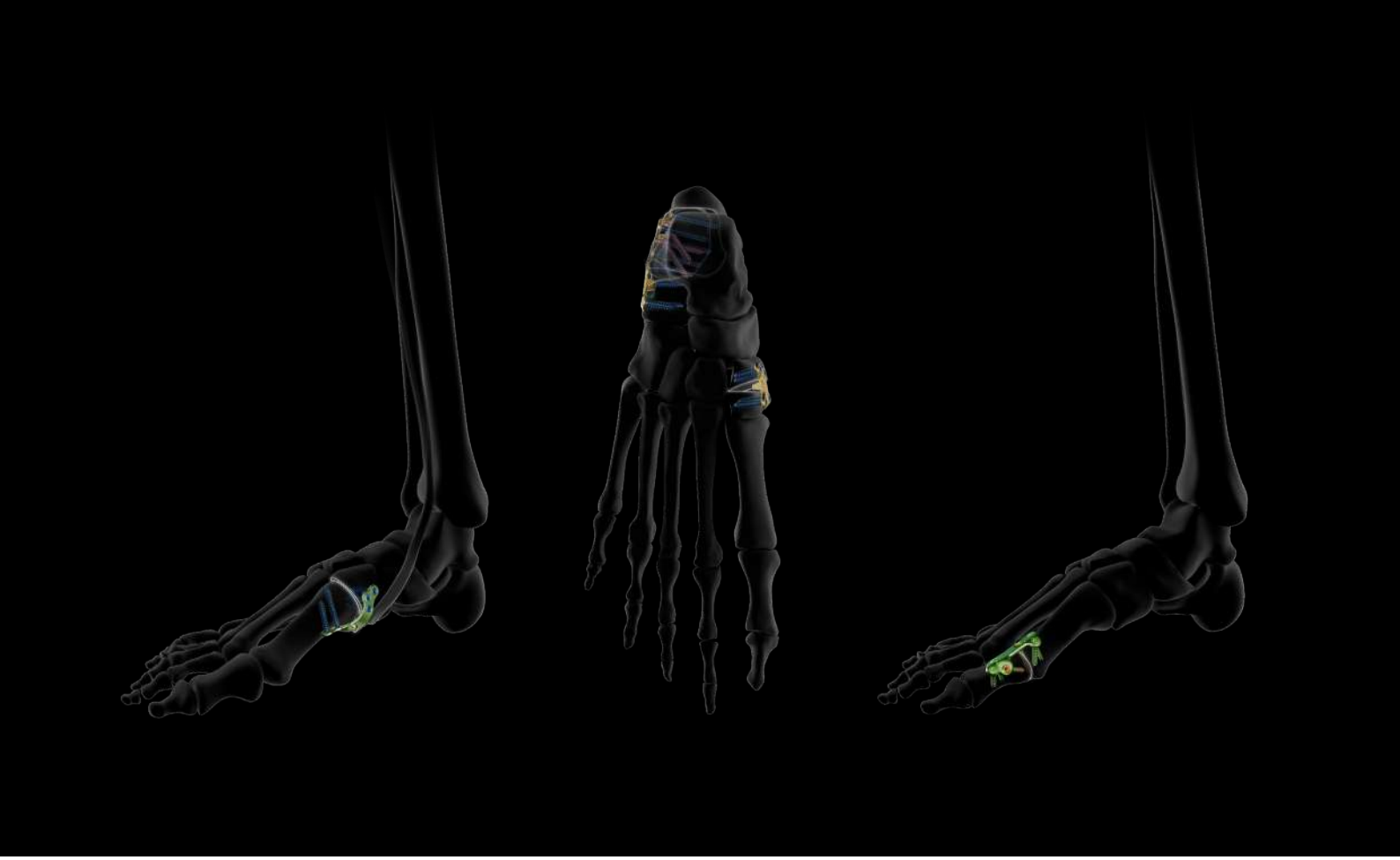
# FOOTMOTION PLATING SYSTEM.



GLOBAL FOOT
PLATING SOLUTION



# Footmotion plating system.

## RANGE DEDICATED TO FOREFOOT, MIDFOOT & REARFOOT SURGERY

**Intended purpose:**

The implants of the Footmotion Plating System are intended for arthrodeses, fractures and osteotomies fixation and revision surgeries of the foot in adults.

**Contraindications:**

- Pregnancy.
- Acute or chronic local or systemic infections.
- Allergy to one of the materials used or sensitivity to foreign bodies.

# Table of contents.

FOOTMOTION PLATING SYSTEM RANGE. 4

TECHNICAL FEATURES. 6

A COMPREHENSIVE RANGE OF PLATES. 8

SURGICAL TECHNIQUE. 17

- 1ST METATARSOPHALANGEAL ARTHRODESIS PLATES (PAGE 1/3) 17
- MINI INVASIVE BUNION OSTEOTOMY PLATES (PAGE 1/2) 20
- PLANTAR LAPIDUS ARTHRODESIS PLATES (PAGE 1/2) 22
- MEDIO-PLANTAR LAPIDUS ARTHRODESIS PLATES (PAGE 1/2) 24
- LISFRANC ARTHRODESIS PLATES 26
- TALO-NAVICULAR ARTHRODESIS PLATES 27
- CALCANEAL DISPLACEMENT OSTEOTOMY PLATES 29

IMPLANTS REFERENCES. 30

INSTRUMENTS REFERENCES. 34

CONTAINER REFERENCES. 36

OPTIONAL INSTRUMENTS REFERENCES. 37

# Footmotion Plating System range.

## EACH PLATE CAN BE USED WITH A PSI GUIDE

### 1ST METATARSOPHALANGEAL ARTHRODESIS PLATES (1)

Examples of application: hallux rigidus, severe hallux valgus, polyarthritis

Standard



Narrow



Revision



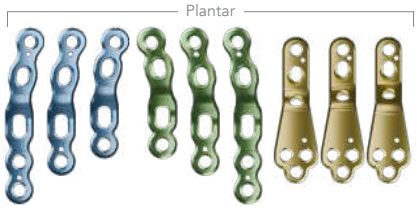
### LAPIDUS ARTHRODESIS PLATES (2)

Examples of application: hallux valgus, osteoarthritis, functional deformity

Medio-plantar



Plantar



Dorso-medial



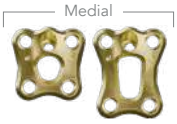
### TALO-NAVICULAR ARTHRODESES PLATES (3)

Examples of application: osteoarthritis, high arched foot, equinovarus, flatfoot, traumatic after-effects

Dorsal



Medial



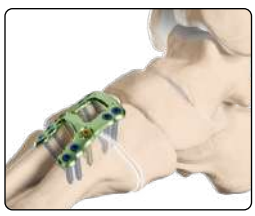
### DORSAL LISFRANC ARTHRODESES PLATES (4)

Examples of application: osteoarthritis, fracture, Lisfranc joint dislocation; fracture/dislocation after-effects



### MEDIAL LISFRANC ARTHRODESES PLATES

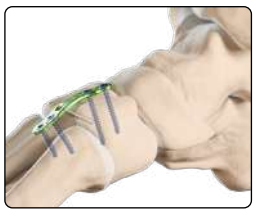
Examples of application: structural instability, fracture/dislocation



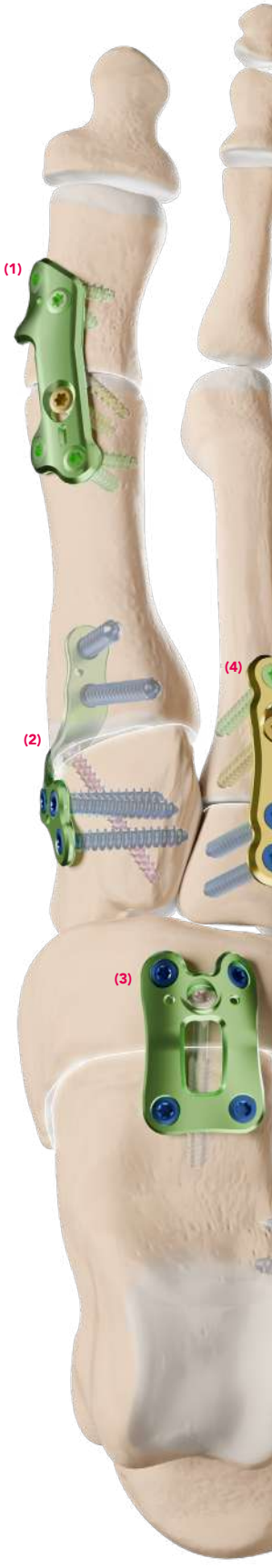


### ISOLATED LISFRANC ARTHRODESIS PLATES

Examples of application: osteoarthritis, fracture, Lisfranc joint dislocation, fracture/dislocation after-effects










## MINI INVASIVE BUNION OSTEOTOMY PLATES

Example of application: hallux valgus





## CALCANEAL DISPLACEMENT OSTEOTOMY PLATES

Examples of application: osteoarthritis, flatfoot and cavus foot





## COTTON OSTEOTOMY PLATES

Examples of application: plantar flexion osteotomy, osteotomy of the medial cuneiform





## OPENING BASE WEDGE OSTEOTOMY PLATES

Example of application: severe hallux valgus





## EVANS OSTEOTOMY PLATES [5]

Examples of application: flatfoot, calcaneocuboid (CC) joint arthrodesis





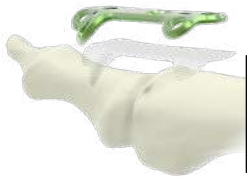
## STRAIGHT PLATES



# Technical features.

## PRECONTOURED IMPLANTS

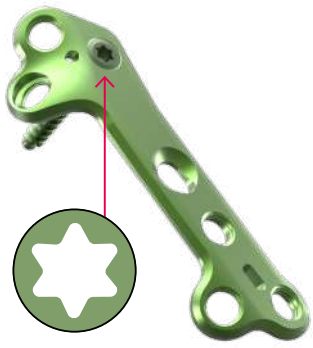
- The design of these implants is the result of a proprietary state-of-the-art mapping technology to establish the maximum congruence between the plate and the bone.



*Low profile implants 1.4 to 1.7 mm*

## ADAPTABLE FIXATION AND SCREW FEATURES

- **One type of locking hole for two screw diameters:** Ø2.8 mm and Ø3.5 mm.
- **Locking** (SLT2.8Lxx and SLT3.5Lxx) and **non-locking screws** (RLT2.8Lxx and RLT3.5Lxx) are available in two diameters. **Lag screws** are available in one diameter: Ø3.5 mm (QLT3.5Lxx).
- **Hexalobular screw recess design (T8).**



*FMTDD3*



*Ø2.8 mm locking screw (SLT2.8Lxx)*



*Ø3.5 mm locking screw (SLT3.5Lxx)*



*Ø3.5 mm lag screw (QLT3.5Lxx)*



*Ø2.8 mm non-locking screw (RLT2.8Lxx)*

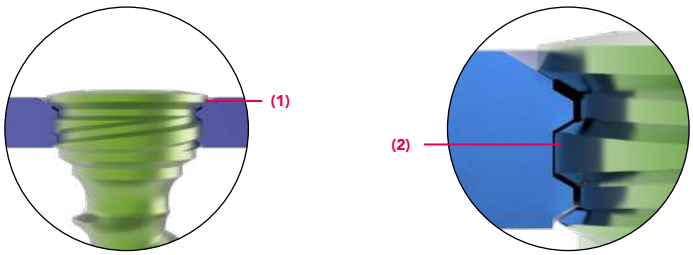


*Ø3.5 mm non-locking screw (RLT3.5Lxx)*

# LOCKING SYSTEM

## FEATURES

- The screw head(1) is stopped in the hole by its cap, ensuring the locking.
- Plate and screws are all made of titanium.
- The threads under the screw head and inside the hole have strictly the same geometrical characteristics(2).

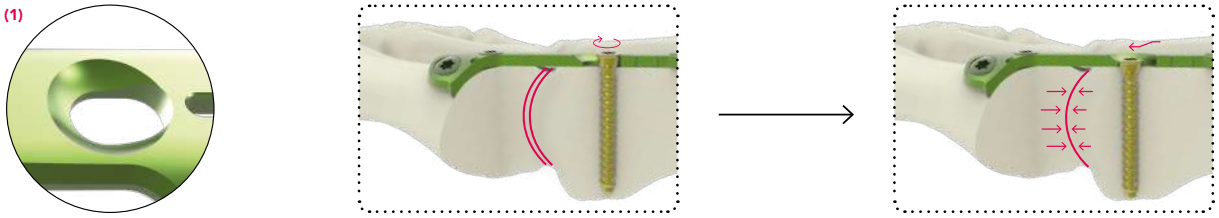



# COMPRESSIVE SYSTEM

## RAMP OBLONG HOLE

- Ramp oblong holes allowing a guided axial compression by using the screw/plate interface(1).

**Warning:** Only Ø2.8 mm non-locking screws (RLT2.8Lxx) can be used for the ramp oblong hole.




Compression of the joint up to 1.5 mm

# A comprehensive range of plates.

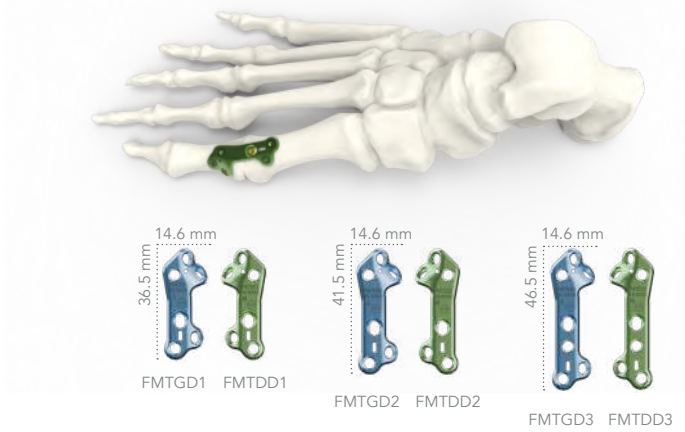
## PLATES FOR 1ST METATARSOPHALANGEAL ARTHRODESIS

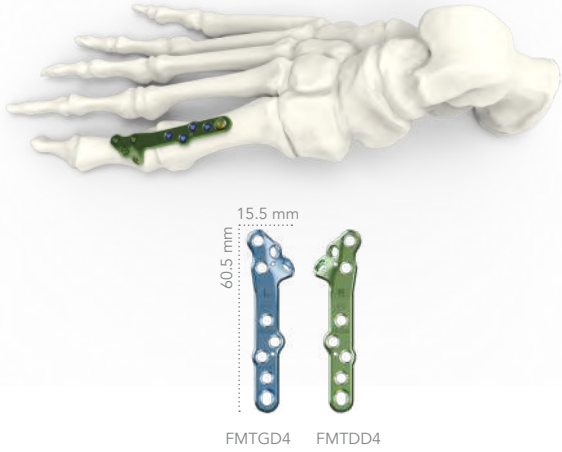
Examples of application: hallux valgus, severe hallux valgus, polyarthritis.
See page 17 for the detailed surgical technique.

### 1ST MTP ARTHRODESIS PLATES

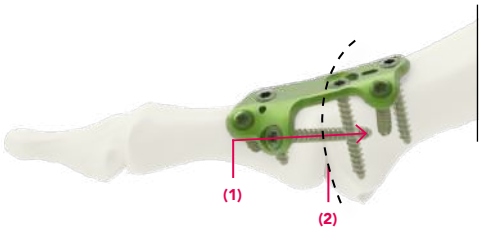
### 1ST MTP ARTHRODESIS REVISION PLATES

**STANDARD PLATES WITH TRANSARTICULAR SCREW**



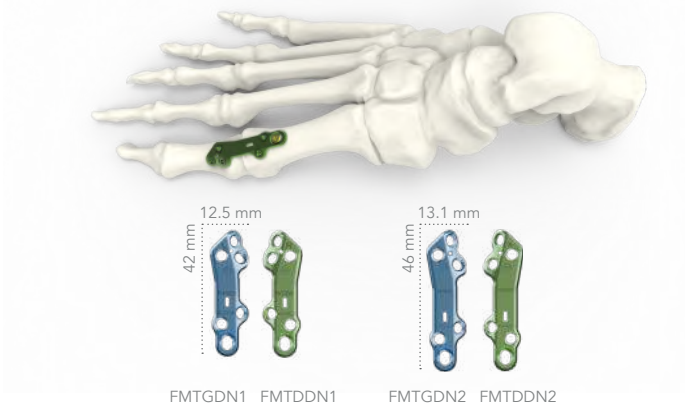

- **Hole for the transarticular screw[1]:** a transarticular screw crossing the 1st MTP joint[2] goes through the plate.




### 1ST MTP ARTHRODESIS PLATES

### 1ST MTP ARTHRODESIS REVISION PLATES

**NARROW PLATES WITHOUT TRANSARTICULAR SCREW**







**NB:** When using a plate without the transarticular screw, another screw (ref. H1.25QT3.5Lxx-ST or H1.4QT4.0Lxx-ST) can be inserted across the plantar aspect of the joint, outside of the plate. Please refer to Initial S range for further details.

## CLINICAL CASE

Example of surgery using a plate for 1st metatarsophalangeal arthrodesis with transarticular screw.



Left foot showing a 1st MTP osteoarthritis



The solution: plate for 1st MTP arthrodesis with transarticular screw (ref: FMTGD1)



2 months post operative x-ray

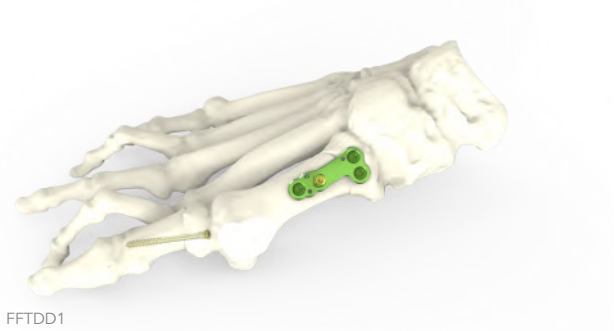
# PLATES FOR MINI INVASIVE BUNION OSTEOTOMY

Example of application: hallux valgus.
See page 20 for the detailed surgical technique.

## TECHNICAL FEATURES

- Unique design dedicated to bunion metatarsal osteotomies for severe hallux valgus.
- External guide for minimally invasive surgery.
- Transfixation screw crossing the cut allowing compression.





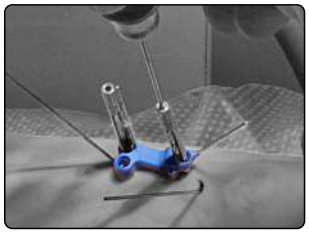
FFTDD1




FFTGD1 FFTDD1



ANC1057 ANC1058







# PLATES FOR OPENING BASE WEDGE METATARSAL OSTEOTOMY

Examples of application: severe hallux valgus, flatfoot

## TECHNICAL FEATURES

- A wedge is integrated into the plate: the wedge size depends on the correction angle. 3 sizes are available: 3, 4, 5 mm and 1 neutral plate.
- Low profile plate: 1.4 mm thick.
- Converging proximal screws.
- **3-in-1 dedicated instrument:** distraction, compression and osteotomies.



ANC642



FOTSM3



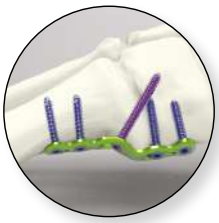

FOTSM0 FOTSM3 FOTSM4 FOTSM5

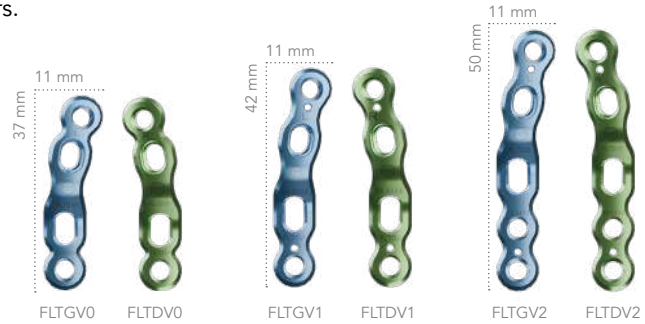
# PLATES FOR PLANTAR LAPIDUS ARTHRODESIS

Examples of application: hallux valgus, osteoarthritis, functional deformity.
See page 22 for the detailed surgical technique.

## TECHNICAL FEATURES

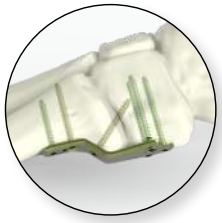
- **Full range of precontoured and anatomical plantar implants:**
  - **The narrow plates for plantar lapidus** are made of grade 2 titanium for an adaptation to first tarsometatarsal (TMT1) joint anatomies when using bending pliers.

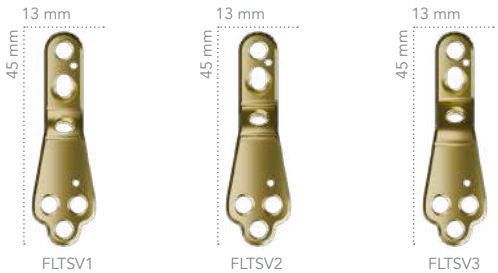





FLTGV0 FLTDV0 FLTGV1 FLTDV1 FLTGV2 FLTDV2

  - **The standard plates for plantar lapidus** are made of grade 5 titanium and have 3 offsets (3, 5, 7 mm).

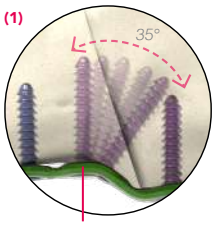




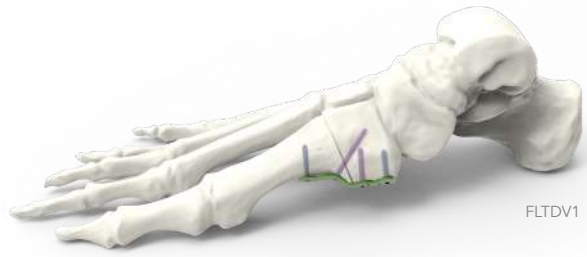

FLTSV1 FLTSV2 FLTSV3

- **Plantar positioning of the plate** allows immediate weight-bearing.
- **Transarticular screw angulation up to 35°**[(1)].
- **3.5 mm single diameter fixation for the narrow plates:**
  - 2 oblong holes for Ø3.5 mm non-locking screws:
    - Distal oblong hole for screw angulation up to 35°,
    - Oblong holes positioning allows to avoid conflicts between screws.
  - 2 or 3 locking holes for Ø3.5 mm locking screws.

(1)




Transarticular screw



FLTDV1

## CLINICAL CASE: NARROW PLATE FOR PLANTAR LAPIDUS ARTHRODESIS

Hallux valgus and ligamentous hyperlaxity.





# PLATES FOR MEDIO-PLANTAR LAPIDUS ARTHRODESIS

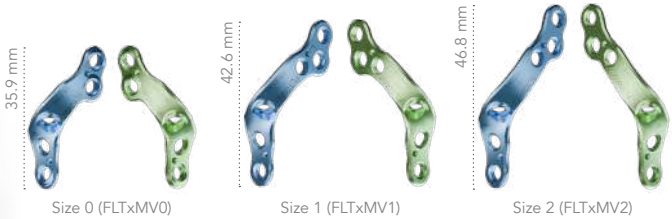
Examples of application: severe hallux valgus and ligament hyperlaxity.
See page 24 for the detailed surgical technique.

## TECHNICAL FEATURES

- **Medio-plantar positioning of the plate.**
  - Avoids the tibialis anterior tendon insertion minimizing the risk of impingement.
  - Direct access to the cuneiform holes through a medial approach.
  - The transarticular screw is inserted through the joint providing compression.



FLTDMV1




Size 0 (FLTxMV0) Size 1 (FLTxMV1) Size 2 (FLTxMV2)







# PLATE FOR DORSO-MEDIAL LAPIDUS ARTHRODESIS

Examples of application: osteoarthritis, functional deformity

## TECHNICAL FEATURES

- Precontoured implant.
- Thickness of 1.6 mm.
- Transarticular screw.



FLTSM1




FLTSM1



# PLATES FOR DORSAL LISFRANC ARTHRODESES

Examples of application: osteoarthritis, fracture, Lisfranc joint dislocation, fracture/dislocation after-effects

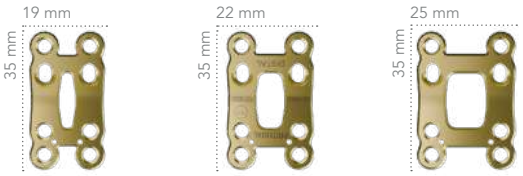
## TECHNICAL FEATURES

- Two possible constructs: C2-C3-M2-M3 or C3-cuboid-M3-M4 arthrodeses.
- Solutions for midfoot arthrodese.
- 10° cuneo-metatarsal sagittal angle.
- Compression thanks to the ramp oblong holes.





FDTSDW1



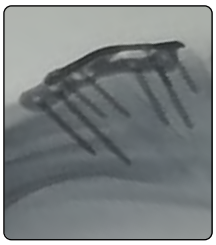

FDTSDN1 FDTSDS1 FDTSDW1

# PLATES FOR MEDIAL LISFRANC ARTHRODESES

Examples of application: structural instability, fracture/dislocation

## TECHNICAL FEATURES

- Converging screws.
- 10° cuneo-metatarsal sagittal angle.
- 10° intermetatarsal angle.
- Compression thanks to the ramp oblong holes.





FETDD1




FETGD1 FETDD1

# PLATES FOR ISOLATED LISFRANC ARTHRODESIS

Examples of application: osteoarthritis, fracture, Lisfranc joint dislocation, fracture/dislocation after-effects.
See page 26 for the detailed surgical technique.

## TECHNICAL FEATURES

- Comprehensive range of plates adapted to various shapes of cuneiform.
- Converging screws.
- Positioning on several rays: TMT2 or TMT3 arthrodesis.
- Dorso-plantar transarticular screw crossing the joint and the plate for compression.
- Two types of transarticular screws:
  - Lag screw (QLT3.5Lxx-ST)[1]
  - Positioning screw (RLT3.5Lxx)[2]




FUTSD1

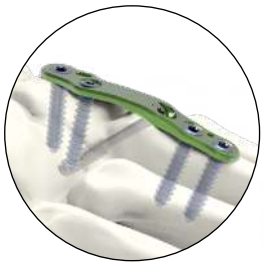



FUTGD1 FUTDD1

(1)



QLT3.5Lxx-ST



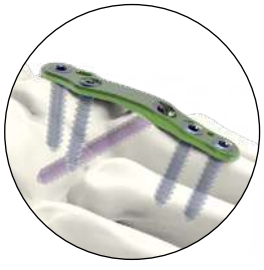




(2)



RLT3.5Lxx





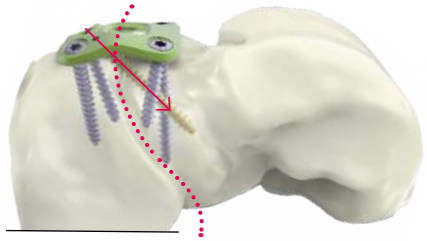


# PLATES FOR TALO-NAVICULAR ARTHRODESIS

Examples of application: arthrosis, flatfoot.
See page 27 for the detailed surgical technique.

## TECHNICAL FEATURES

- Converging screws.
- Transarticular screw allowing compression.



FTTDD2



QLT3.5Lxx-ST



- Two types of plates:
  - Dorsal approach: between the extensor hallucis longus and the tibialis anterior tendon.



FTTDD2




FTTGD1 FTTDD1




FTTGD2 FTTDD2

  - Medial approach: between the tibialis anterior tendon and the tibialis posterior tendon.



FTTSM2




FTTSM1



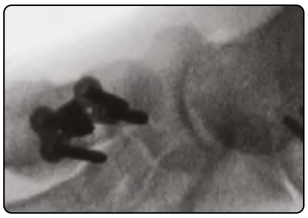

FTTSM2

# PLATES FOR COTTON OSTEOTOMY

Example of application: plantar flexion osteotomy of the medial cuneiform

## TECHNICAL FEATURES

- **Precontoured plates** respecting the 1st cuneiform anatomy.
- **Converging screws**.
- **Two types of plates:**
    - Plates with wedge for osteotomy (4.5, 5.5, 6.5 mm).
    - Plate without wedge for graft addition.





FCTSM5.5





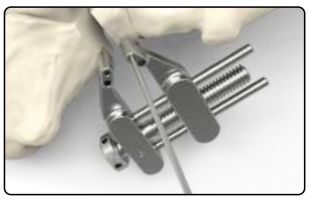

# PLATES FOR EVANS OSTEOTOMY

Examples of application: flatfoot, calcaneocuboid (cc) joint arthrodesis

## TECHNICAL FEATURES

- **Precontoured plates** respecting:
    - The calcaneal anatomy,
    - The calcaneocuboid joint.
- **Converging screws.**
- **Two types of plates:**
    - Plates with wedge for osteotomies (6, 8, 10 mm),
    - Plate without wedge for graft addition and CC joint fusion.
- **3-in-1 dedicated instrument:** distraction, compression and osteotomies.





ANC642



FVTSL8



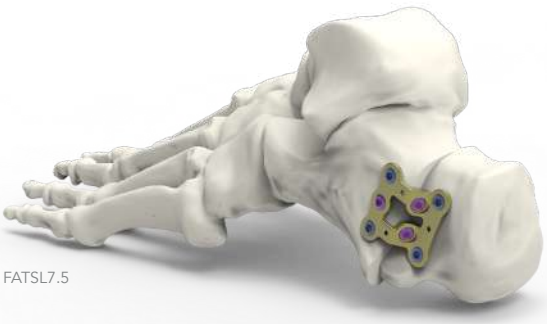


# PLATES FOR CALCANEAL DISPLACEMENT OSTEOTOMY

Examples of application: flatfoot, osteoarthritis, cavus foot.
See page 29 for the detailed surgical technique.

## TECHNICAL FEATURES

- A calcaneal displacement of 5, 7.5 or 10 mm **maintained by the step-design of the plate.**
- **A central window** allowing a better visualization of the osteotomy site.
- **A non-locking central screw** allowing the calcaneal shift without a specific instrumentation.
- **Two transfixation screws** allowing the compression between the two bone fragments.



FATSL7.5






FATSL5




FATSL7.5




FATSL10

# STRAIGHT PLATES FOR VARIOUS APPLICATIONS

## TECHNICAL FEATURES

The Footmotion Plating System set offers a complete range of compressive straight plates designed for treatment of fractures, osteotomies and fusions for small bones and bone fragments of the foot.

- From 2 to 7 holes (from 20 mm to 45 mm).
- Compression thanks to ramp oblong hole.
- Bendable plates for several constructs.
- 1.5 mm thick.




FUTS1




FUTS2




FUTS3




FUTS4




FUTS5




FUTS6

# Surgical technique.

## 1ST METATARSOPHALANGEAL ARTHRODESIS PLATES (PAGE 1/3)

Example using the 1st MTP arthrodesis plate - Standard - Right - Size 1 (FMTDD1).

### JOINT SURFACES PREPARATION



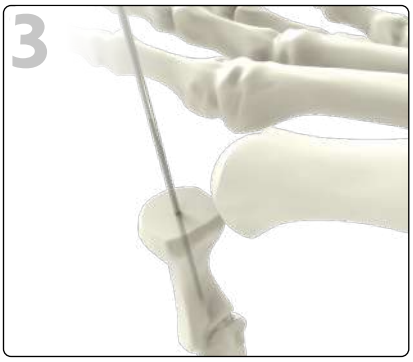

Dislocate the joint to expose the head of the first metatarsal and the base of the proximal phalanx.




Insert the Ø1.6 mm pin (33.0216.150) through the head of the first metatarsal into the medullary cavity.

To determine the appropriate reaming size, insert the convex reamers successively along the pin. Progressively, reduce the diameter until the cartilage surfaces have been removed.

Remove the reamer and pin.




Expose the base of the phalanx and insert the Ø1.6 mm pin (33.0216.100) to achieve proper alignment with the diaphysis.




Take a concave reamer with the **same diameter** as the convex reamer (determined at step 2). Insert it along the pin and perform reaming until the cartilage surfaces have been removed.

Remove the reamer and the pin.

### INSTRUMENTATION: CONVEX AND CONCAVE REAMERS

Convex and concave reamers are used respectively to prepare the surfaces of the head of the first metatarsal and the base of the phalanx to ensure an optimized congruity of the joint.



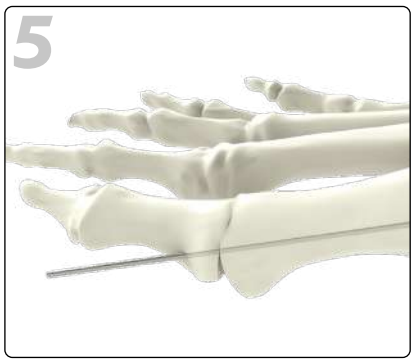
Reamers are available in 4 diameters:




Convex reamers Concave reamers

# 1ST METATARSOPHALANGEAL ARTHRODESIS PLATES (PAGE 2/3)

## POSITIONING OF THE PLATE



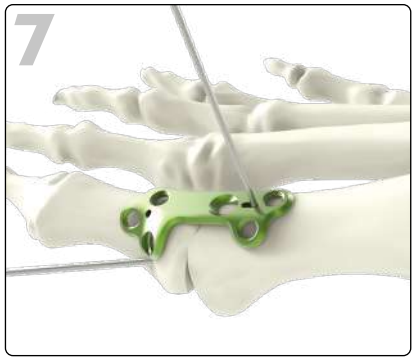

Position the joint in the desired direction and stabilize it using a Ø1.6 mm pin (33.0216.150).




Choose the plate corresponding to the desired correction (three sizes available).

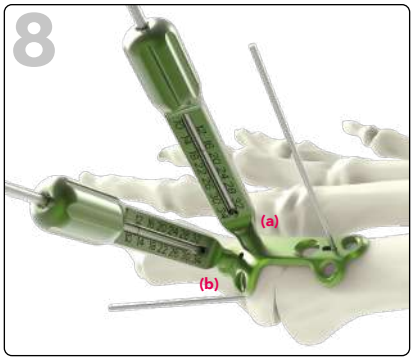
**NB:** The plates of the Footmotion Plating System are precontoured.
If necessary, they can be bent to be adapted to the arthrodesis to perform.

## FIXATION OF THE PLATE




Position the plate and stabilize it temporarily by inserting a Ø1.2 mm pin (33.0212.070) into the dedicated oblong hole.

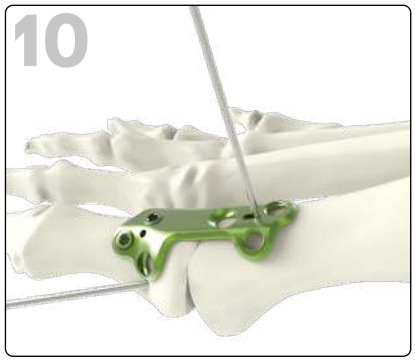
**NB:** It is also possible to position the plate and stabilize it temporarily using Ø1.2 mm pin (33.0212.070) through the dedicated distal hole.




Lock the two threaded guide gauges (ANC576) in the two distal holes. Insert the drill bit (ANC590) in the first hole (a) in order to stabilize the plate, and keep it in place. Drill (ANC590) through the second hole (b). Determine the appropriate screw length using the threaded guide gauge (ANC576).




Insert a locking screw (SLT2.8Lxx) with the screwdriver (ANC575).




After determining the screw length required, remove the drill bit and the guide gauge from the first hole and insert a locking screw (SLT2.8Lxx) using the screwdriver (ANC575).

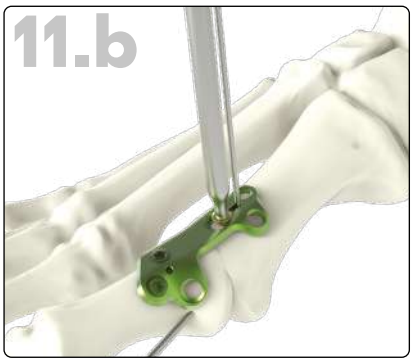
# 1ST METATARSOPHALANGEAL ARTHRODESIS PLATES (PAGE 3/3)

## COMPRESSION OF THE JOINT

OPTION 1: Compression using the ramp oblong hole.




Drill (ANC590) into the most proximal part of the ramp oblong hole, and directly read the depth on the non-threaded bent guide gauge (ANC586).




Insert a Ø2.8 mm non-locking screw (RLT2.8Lxx) then perform compression using the screwdriver (ANC575) (see page 7).



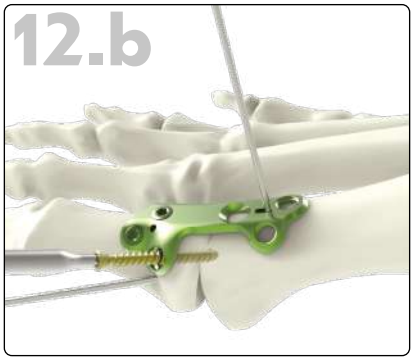

Insert in the proximal part, the two Ø2.8 mm locking screws (SLT2.8Lxx) into the remaining holes following the steps 8 & 9.

Finalize by inserting a Ø2.8 mm non-locking screw (RLT2.8Lxx) into the hole for the transfixation screw in the distal part.

OPTION 2: Compression using the transfixation screw.




Drill through the hole designed for the transfixation screw and through the metatarsophalangeal joint, using a Ø2.0 mm drill bit (ANC590) and the threaded guide gauge (ANC576). To produce the lag effect, drill through the base of the phalanx using a Ø3.0 mm drill bit (ANC611).




Insert a Ø2.8 mm non-locking screw (RLT2.8Lxx) using the screwdriver (ANC575).




Complete the construct by inserting in the proximal part:

- A Ø2.8 mm non-locking screw (RLT2.8Lxx) into the distal part of the ramp oblong hole, so as to avoid additional compression.
- Two Ø2.8 mm locking screws (SLT2.8Lxx) into the two remaining proximal holes.

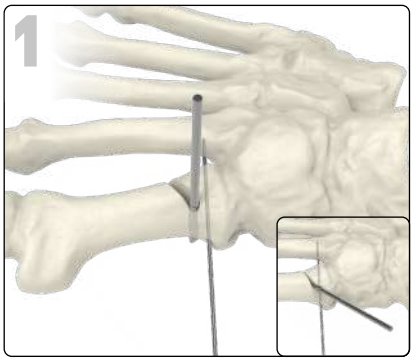
**Warning:** Final tightening of the screws must be performed by hand.

## FINAL RESULT.

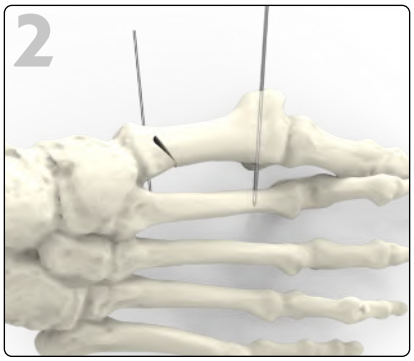


# MINI INVASIVE BUNION OSTEOTOMY PLATES (PAGE 1/2)

Example using the Metatarsal basal closing wedge plate - Right - Size 1 (FFTDD1).



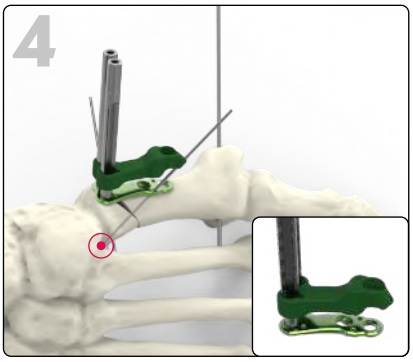

Insert a Ø1.6 mm L100 mm pin (33.0216.100) from the 1st metatarsal to the 2nd one, as proximal as possible. Then, create a percutaneous cut by using a shannon burr. The entry point should be on the dorsal part of the 1st metatarsal and the cut has to be lateral.



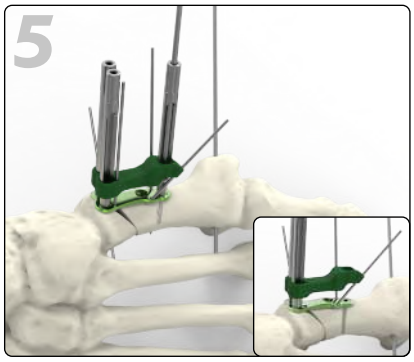

Hold the closing with a Ø1.6 mm L150 mm pin (33.0216.150) targeting the 2nd metatarsal to achieve a lateral closing of the 1st metatarsal.




Using the plate as a template, position the two incisions.

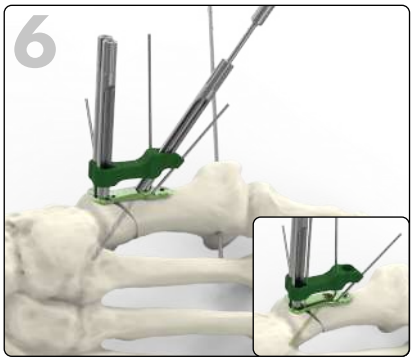



Assemble the guide to the plate with the two proximal drill guides. Insert the plate through the proximal incision. Then, insert the oblique pin to verify the good positioning. The Ø1.2 mm L120 mm pin (33.0212.120) must target the proximal lateral part of the 1st metatarsal.



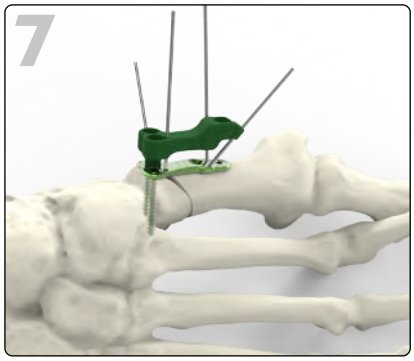

In the most distal hole of the plate, perform the drilling by using the drill through the guide.

Insert a Ø2.8 mm locking screw (SLT2.8Lxx) using the T8 screwdriver (ANC575).

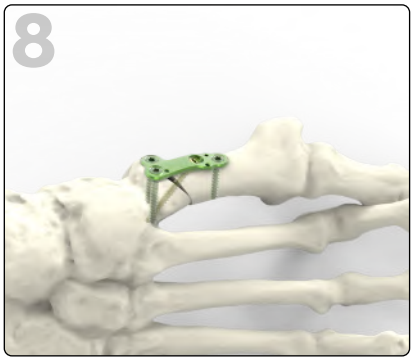



Using the same technique as step 5, insert a Ø2.8 mm non-locking screw (RLT2.8Lxx) in the transfixation hole.

# MINI INVASIVE BUNION OSTEOTOMY PLATES (PAGE 2/2)




Fill the last two holes with Ø2.8 mm locking screws (SLT2.8Lxx) following the step 5.

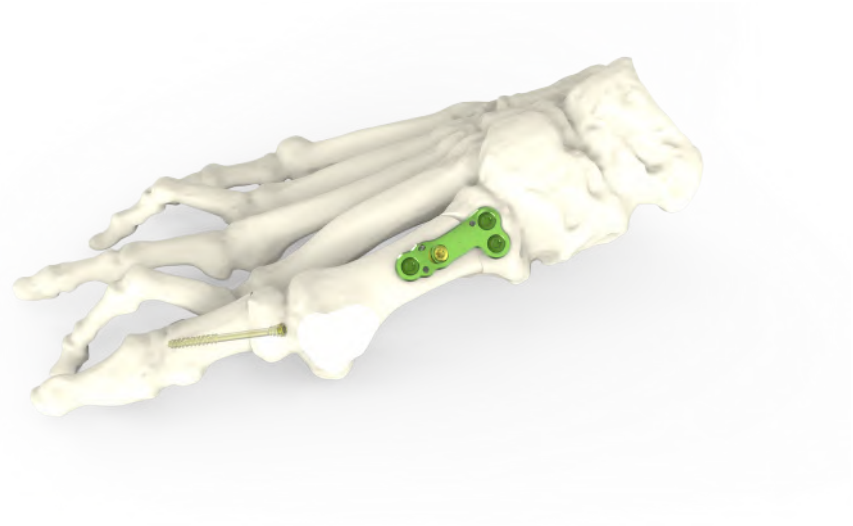


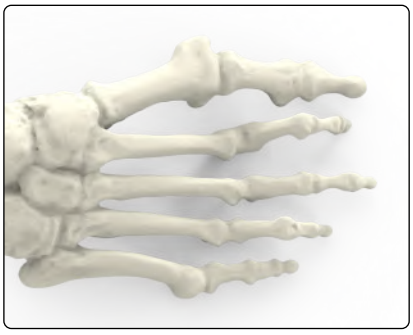

Then, remove the pins and instrument.

Following the surgeons preferences, perform the exostosectomy and the akin procedure.

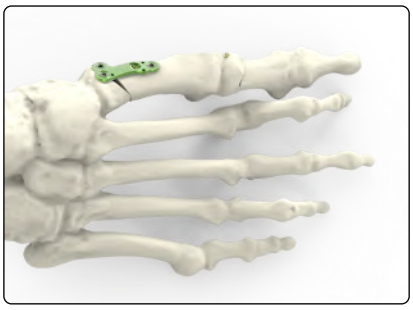
**Warning:** Final tightening of the screws must be performed by hand.

## FINAL RESULT.





Before



After

# PLANTAR LAPIDUS ARTHRODESIS PLATES (PAGE 1/2)

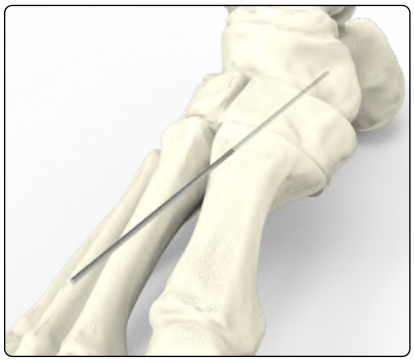
Example using the Plantar Lapidus arthrodesis plate - Narrow - Right - Size 1 (FLTDV1).

## OPTIONAL STEPS

Ø4.0 mm compressive cannulated screw insertion before plate positioning allowing the compression of the joint. (H1.4QT4.0Lxx-ST)



Resect the joint following the usual technique.

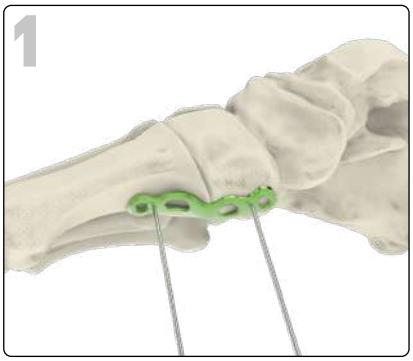


Insert the guiding pin (33.0213.120) transversaly from the 1st metatarsal to the cuneiform. Then, introduce the Ø2.9 mm cannulated drill bit (ANC414) onto the guiding pin and drill. To ease the screw insertion, use the Ø6.0 mm countersink (ANC845) to prepare the cortex.

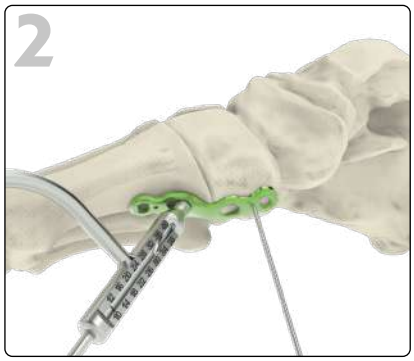


Insert the Ø4.0 mm compressive cannulated screw (H1.4QT4.0Lxx-ST) using the cannulated screwdriver (ANC388). Then, remove the pin.

**N.B.:** Ø4.0 mm self-compressive cannulated screw can also be used following the same surgical technique. (H1.4IFT4.0Lxx-ST) Make sure to use the Ø2.9 mm countersink (ANC664) instead.

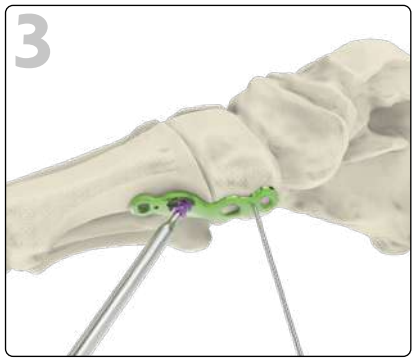



Position plantarly the plate on the TMT1 joint with Ø1.2 mm pins (33.0212.070). The middle of the plate must be placed over the TMT1 joint.



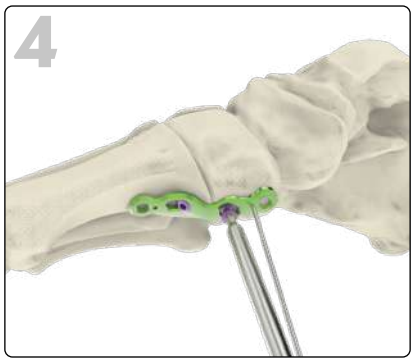

In the distal oblong hole, perform the drilling (ANC591) using the non threaded bent guide gauge (ANC841) or the threaded guide gauge (ANC577). Read the drilling depth on the guide gauge.

It is possible to check the depth with the length gauge (ANC589).

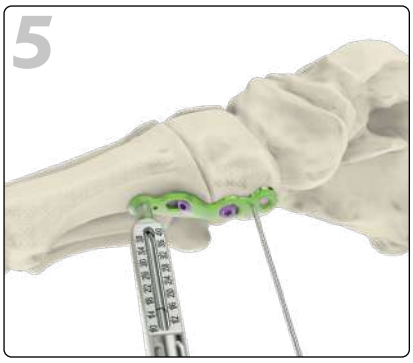



Insert a Ø3.5 mm non-locking screw (RLT3.5Lxx) using the T8 quick coupling screwdriver (ANC575).

# PLANTAR LAPIDUS ARTHRODESIS PLATES (PAGE 2/2)

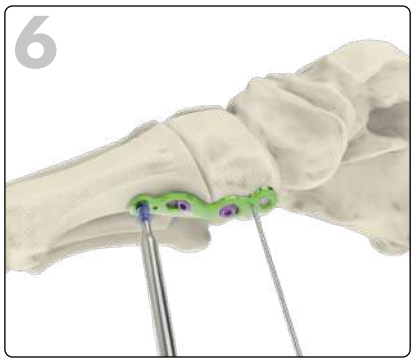



In the proximal oblong hole, repeat the steps 2 and 3 for the Ø3.5 mm non-locking screw (RLT3.5Lxx) insertion.




In the most distal hole, perform the drilling (ANC591) using the Ø2.7 mm threaded guide gauge (ANC577). Read the drilling depth on the threaded guide gauge.

It is possible to check the depth with the length gauge (ANC589).



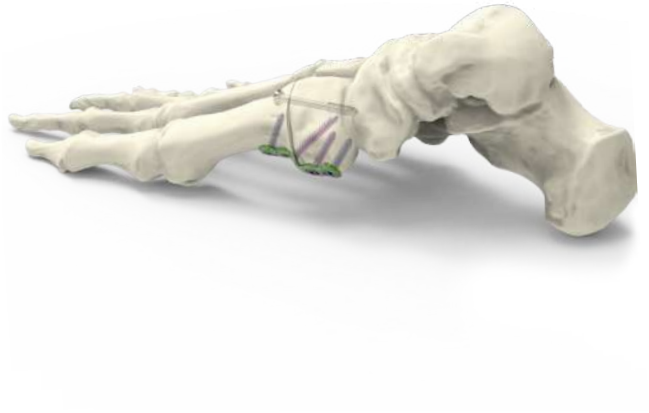

Insert a Ø3.5 mm locking screw (SLT3.5Lxx) using the T8 quick coupling screwdriver (ANC575).




In the most proximal hole, repeat the steps 5 and 6 for the Ø3.5 mm locking screw (SLT3.5Lxx) insertion.

**Warning:** Final tightening of the screws must be performed by hand.

## FINAL RESULT.



# MEDIO-PLANTAR LAPIDUS ARTHRODESIS PLATES (PAGE 1/2)

Example using the Medio-plantar Lapidus arthrodesis plate - Right - Size 1 (FLTDMV1).

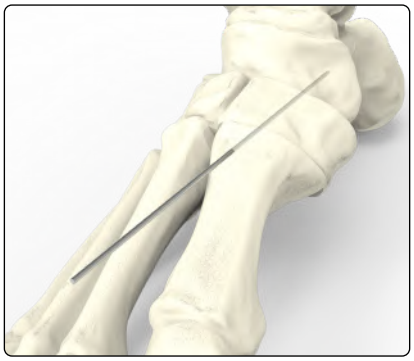
## OPTIONAL STEPS

Ø4.0 mm compressive cannulated screw insertion before plate positioning allowing the compression of the joint. (H1.4QT4.0Lxx-ST)





Resect the joint following the usual technique.

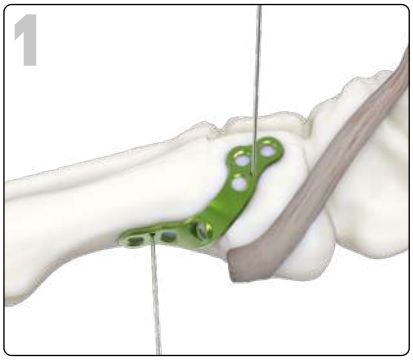


Insert the guiding pin (33.0213.120) transversaly from the 1st metatarsal to the cuneiform. Then, introduce the Ø2.9 mm cannulated drill bit (ANC414) onto the guiding pin and drill. To ease the screw insertion, use the Ø6.0 mm countersink (ANC845) to prepare the cortex.

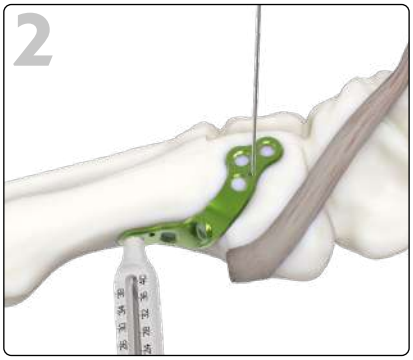


Insert the Ø4.0 mm compressive cannulated screw (H1.4QT4.0Lxx-ST) using the cannulated screwdriver (ANC388). Then, remove the pin.

**N.B.:** Ø4.0 mm self-compressive cannulated screw can also be used following the same surgical technique. (H1.4IFT4.0Lxx-ST)  Make sure to use the Ø2.9 mm countersink (ANC664) instead.

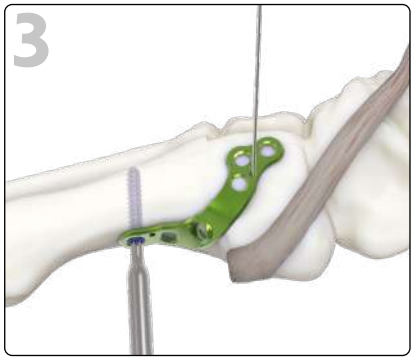



Position the plate on the TMT1 joint with Ø1.2 mm pins (33.0212.070).



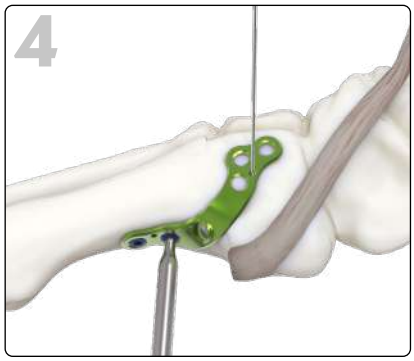

In the most distal locking hole, perform the drilling (ANC591) using the Ø2.7 mm threaded guide gauge (ANC577). Read the drilling depth on the guide gauge.

It is possible to determine the length with the length gauge (ANC589).

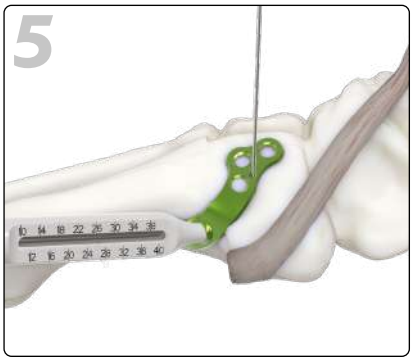



Insert a Ø3.5 mm locking screw (SLT3.5Lxx) using the T8 quick coupling screwdriver (ANC575).

# MEDIO-PLANTAR LAPIDUS ARTHRODESIS PLATES (PAGE 2/2)




Repeat the steps 2 and 3 for the second distal locking hole.

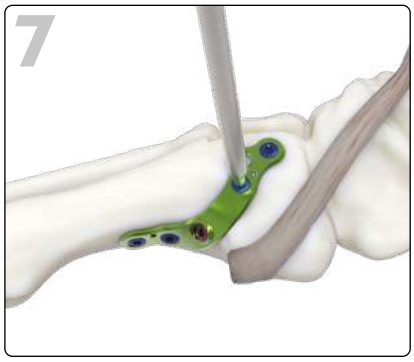



In the transarticular hole, perform the drilling (ANC591) using the threaded guide gauge (ANC577). Read the drilling depth on the threaded guide gauge.

It is possible to determine the length with the length gauge (ANC589).




Remove the Ø1.2 mm pin. Insert a Ø3.5 mm non-locking screw (RLT3.5Lxx) using the T8 quick coupling screwdriver (ANC575).




In the proximal locking holes, repeat the steps 2 and 3 for the Ø3.5 mm remaining locking screws (SLT3.5Lxx).

**Warning:** Final tightening of the screws must be performed by hand.

## FINAL RESULT.



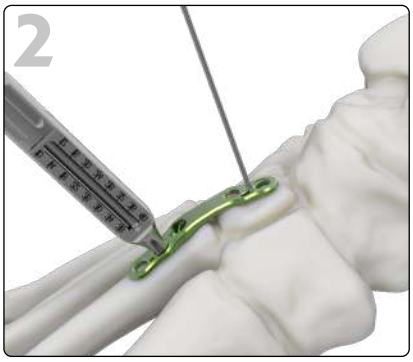
# LISFRANC ARTHRODESIS PLATES

Example using the Isolated Lisfranc arthrodesis plate - Right - Size 1 (FUTDD1).




Resect the joint following the usual technique.

Position dorsally the plate on the TMT joint with Ø1.2 mm pins (33.0212.070). The proximal pin has to be in the proximal part of the pin oblong hole to allow compression.

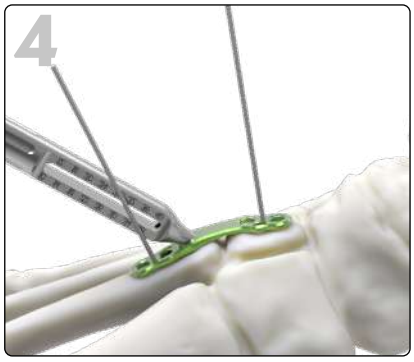



In the second last proximal hole of the metatarsal, perform the drilling (ANC591) using the Ø2.7 mm threaded guide gauge (ANC577). Read the drilling depth on the threaded guide gauge.

It is possible to determine the depth with the length gauge (ANC589).

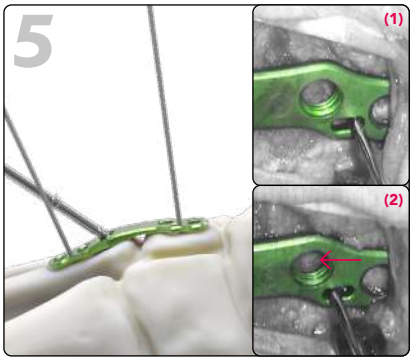



Insert a Ø3.5 mm locking screw (SLT3.5Lxx) using the T8 quick coupling screwdriver (ANC575).




In the transarticular hole, perform the drilling (ANC591) using the Ø2.7 mm threaded guide gauge (ANC577). Read the drilling depth on the threaded guide gauge.

It is possible to determine the depth with the length gauge (ANC589).




Insert a Ø3.5 mm lag screw (QLT3.5Lxx-ST) using the T8 quick coupling screwdriver (ANC575) to perform the compression. The proximal pin(1) will move distally(2) in the pin oblong hole reflecting the compression on the arthrodesis area.

Then, remove the pins.




In the most distal hole and the most proximal hole, repeat the steps 3 and 4.




Finalize the construct by following steps 3 and 4 for the last hole.

**Warning:** Final tightening of the screws must be performed by hand.

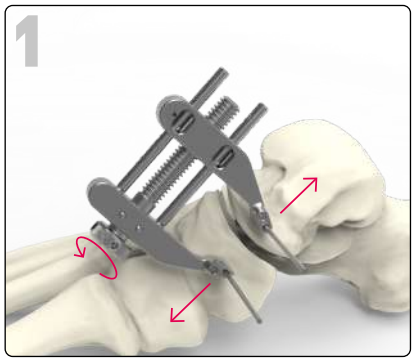
## FINAL RESULT.

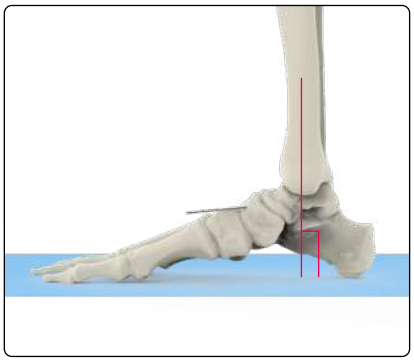


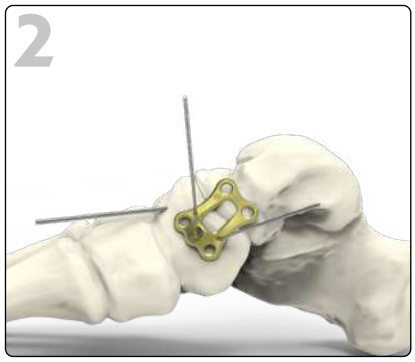
# TALO-NAVICULAR ARTHRODESIS PLATES (PAGE 1/2)

Example using the Medial Talo-Navicular arthrodesis plate - Symmetrical - Size 2 (FTTSM2).
The Dorsal Talo-Navicular arthrodesis plates follow the same steps.

The incision is made approximately 5 mm above the tibialis posterior tendon.
**Warning:** The incision for the dorsal talo-navicular arthrodesis plate is made between the tibialis anterior tendon and the extensor hallucis longus.



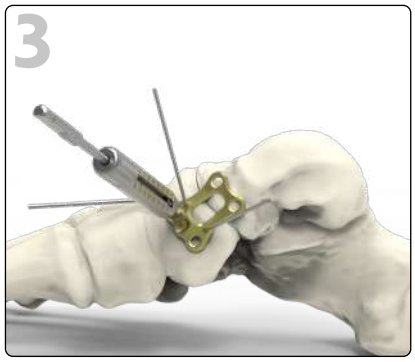



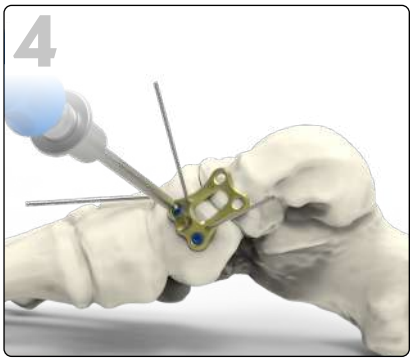


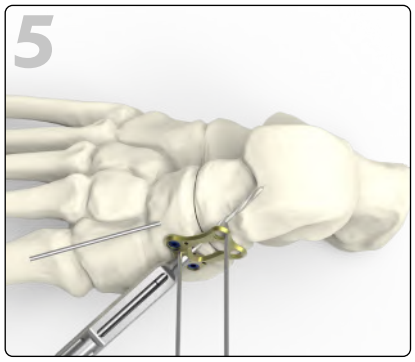

**TN joint exposure and preparation:**
Using the opening wedge instrument (ANC642), distract the surface.Then, prepare the joint (a curved curette or a curved lambotte is advised). It is recommended to position the foot support normal to the tibial axis.

Temporarily fix the talo-navicular joint using a Ø1.6 mm pin (33.0216.150).

Position the plate on the medial side of the talo-navicular joint and insert two Ø1.2 mm pins (33.0212.070) in the navicular part.



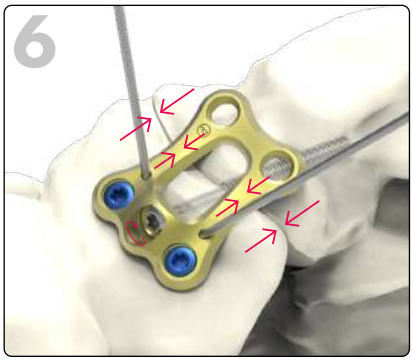

Fix the Ø2.7 mm threaded guide gauge for Ø3.5 mm screws (ANC577) in the two locking holes in the navicular part. Drill using the Ø2.7 mm quick coupling drill bit (ANC591) and measure the necessary screw length.

**NB:** The depth can also be determined by using the length gauge (ANC589).

Insert two Ø3.5 mm locking screws (SLT3.5Lxx) using the T8 screwdriver (ANC575).

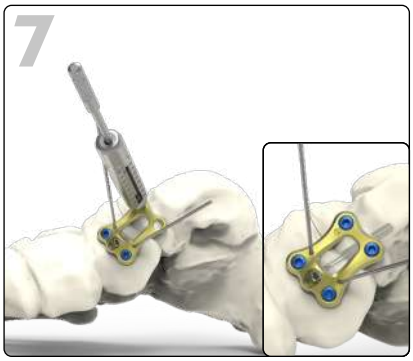
Fix the Ø2.7 mm threaded guide gauge for Ø3.5 mm screws (ANC577) in the transarticular hole. Drill and measure.

# TALO-NAVICULAR ARTHRODESIS PLATES (PAGE 2/2)




Insert one Ø3.5 mm lag screw (QLT3.5Lxx-ST) using the T8 screwdriver (ANC575).

**NB:** Remove the Ø1.6 mm pin before achieving the compression.




Fix the Ø2.7 mm threaded guide gauge for Ø3.5 mm screws (ANC577) in the two locking holes in the talus part. Drill and measure.

Then, insert the two last screws (SLT3.5Lxx) and remove the pins.

**Warning:** Final tightening of the screws must be performed by hand.

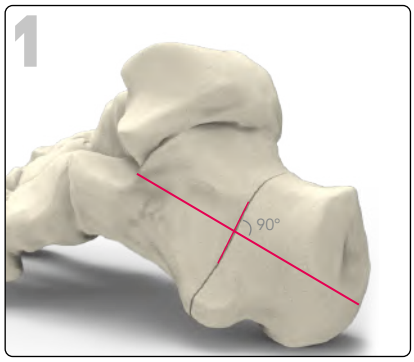
# FINAL RESULTS.



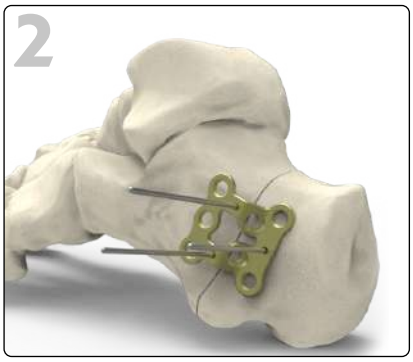


# CALCANEAL DISPLACEMENT OSTEOTOMY PLATES

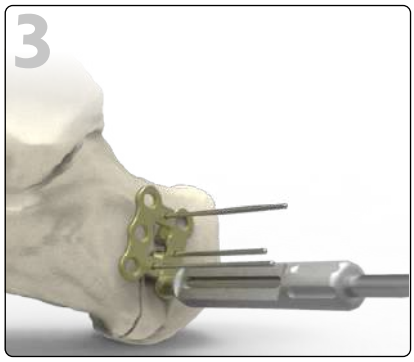
Example using the Calcaneal displacement osteotomy plate - Symmetrical - 7.5 mm (FATSL7.5).



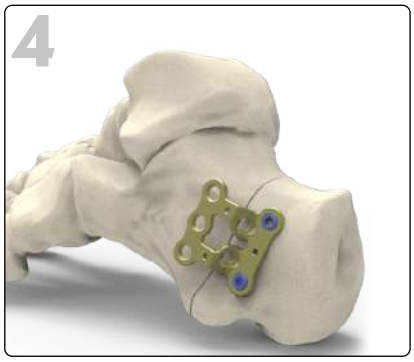

Perform the cut perpendicular to the long axis of the calcaneus.



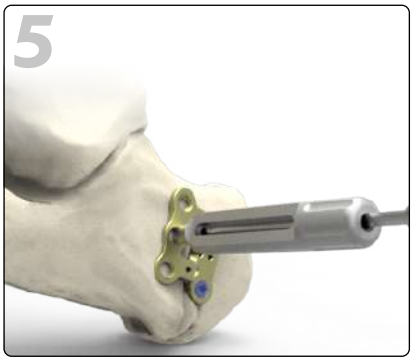

Position the plate and stabilize it temporarily by inserting three Ø1.2 mm pins (33.0212.070) into the dedicated holes:
- two in the osteotomy site,
- one in the posterior part of the calcaneus.



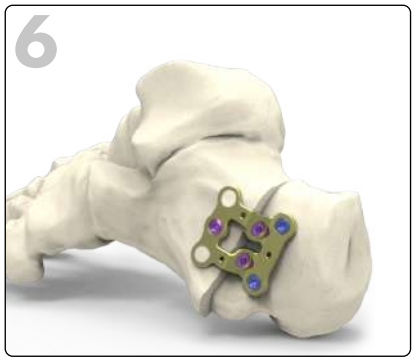

Lock the threaded guide gauge (ANC577) in one of the posterior holes. Drill (ANC591), then directly measure the drilling depth on the threaded guide gauge. Insert a Ø3.5 mm locking screw (SLT3.5Lxx) with the T8 screwdriver (ANC575).



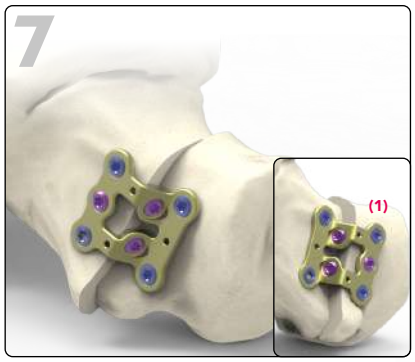

Insert the second locking screw to complete the posterior fixation and remove the pins.




Lock the threaded guide gauge (ANC577) in the central anterior hole. Drill (ANC591), then measure directly the drilling depth on the threaded guide gauge. **Subtract the offset of the plate to determine the length of the screw to use.** Then insert a **Ø3.5 mm non-locking screw (RLT3.5Lxx)** with the T8 screwdriver (ANC575) until the complete shifting.



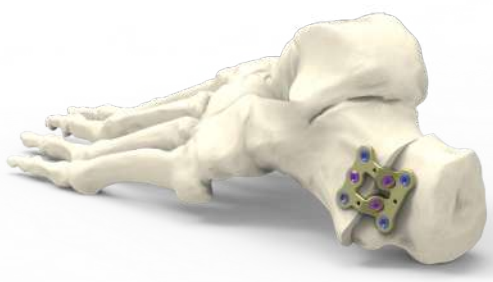

Complete the construct by inserting the two non-locking transfixation screws (RLT3.5Lxx) located in the offset, to achieve the compression between the two bone fragments.




To finalize the anterior fixation, insert the two anterior locking screws (SLT3.5Lxx).

**For lateral displacement,** turn the plate at 180°, fix the anterior part and then the posterior part of the plate.[(1)]

## FINAL RESULT.



# Implants references.

**Remark:** Please note that all implants are also available in sterile packaging. An 'ST' code is added at the end of the reference.
Ex : «FMTGD1-ST» «SLT2.8L10-ST»

## 1st MTP arthrodesis plates

| Ref. | Description | Length |
|---|---|---|
| FMTGD1 | 1st MTP arthrodesis plate - Standard - Left - Size 1 | L36.5 mm |
| FMTDD1 | 1st MTP arthrodesis plate - Standard - Right - Size 1 | L36.5 mm |
| FMTGD2 | 1st MTP arthrodesis plate - Standard - Left - Size 2 | L41.5 mm |
| FMTDD2 | 1st MTP arthrodesis plate - Standard - Right - Size 2 | L41.5 mm |
| FMTGD3 | 1st MTP arthrodesis plate - Standard - Left - Size 3 | L46.5 mm |
| FMTDD3 | 1st MTP arthrodesis plate - Standard - Right - Size " | L46.5 mm |




## 1st MTP arthrodesis plates Narrow

| Ref. | Description | Length |
|---|---|---|
| FMTGDN1 | 1st MTP arthrodesis plate - Narrow - Left - Size 1 | L42 mm |
| FMTDDN1 | 1st MTP arthrodesis plate - Narrow - Right - Size 1 | L42 mm |
| FMTGDN2 | 1st MTP arthrodesis plate - Narrow - Left - Size 2 | L46 mm |
| FMTDDN2 | 1st MTP arthrodesis plate - Narrow - Right - Size 2 | L46 mm |




## 1st MTP arthrodesis plates Revision

| Ref. | Description | Length |
|---|---|---|
| FMTGDN4 | 1st MTP arthrodesis plate - Narrow - Left - Size 4 | L60.5 mm |
| FMTDDN4 | 1st MTP arthrodesis plate - Narrow - Right - Size 4 | L60.5 mm |
| FMTGD4 | 1st MTP arthrodesis plate - Standard - Left - Size 4 | L60.5 mm |
| FMTDD4 | 1st MTP arthrodesis plate - Standard - Right - Size 4 | L60.5 mm |




## Metatarsal basal closing wedge plates

| Ref. | Description | Length |
|---|---|---|
| FFTGD1 | Metatarsal basal closing wedge plate - Left - Size 1 | L29 mm |
| FFTDD1 | Metatarsal basal closing wedge plate - Right - Size 1 | L29 mm |




## Metatarsal basal opening wedge osteotomy plates

| Ref. | Description | Length |
|---|---|---|
| FOTSM0 | Metatarsal basal opening wedge osteotomy plate - Symmetrical - 0 mm | L28 mm |
| FOTSM3 | Metatarsal basal opening wedge osteotomy plate - Symmetrical - 3 mm | L28 mm |
| FOTSM4 | Metatarsal basal opening wedge osteotomy plate - Symmetrical - 4 mm | L28 mm |
| FOTSM5 | Metatarsal basal opening wedge osteotomy plate - Symmetrical - 5 mm | L28 mm |



## Plantar Lapidus arthrodesis plates

| Ref. | Description | Length |
|---|---|---|
| FLTSV1 | Plantar Lapidus arthrodesis plate - Symmetrical - Size 1 - 3 mm | L45 mm |
| FLTSV2 | Plantar Lapidus arthrodesis plate - Symmetrical - Size 2 - 5 mm | L45 mm |
| FLTSV3 | Plantar Lapidus arthrodesis plate - Symmetrical - Size 3 - 7 mm | L45 mm |



FLTSV1 FLTSV2 FLTSV3

## Plantar Lapidus arthrodesis plates - Narrow

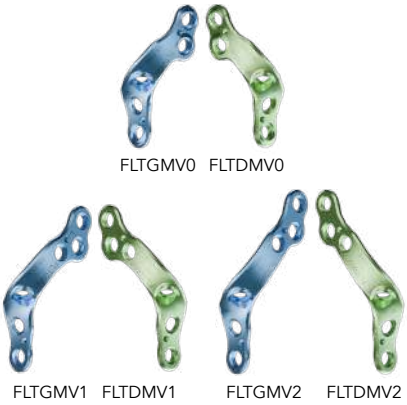
| Ref. | Description | Length |
|---|---|---|
| FLTGV0 | Plantar Lapidus arthrodesis plate - Narrow - Left - Size 0 | L37 mm |
| FLTDV0 | Plantar Lapidus arthrodesis plate - Narrow - Right - Size 0 | L37 mm |
| FLTGV1 | Plantar Lapidus arthrodesis plate - Narrow - Left - Size 1 | L42 mm |
| FLTDV1 | Plantar Lapidus arthrodesis plate - Narrow - Right - Size 1 | L42 mm |
| FLTGV2 | Plantar Lapidus arthrodesis plate - Narrow - Left - Size 2 | L50 mm |
| FLTDV2 | Plantar Lapidus arthrodesis plate - Narrow - Right - Size 2 | L50 mm |



FLTGV0 FLTDV0 FLTGV1 FLTDV1 FLTGV2 FLTDV2

## Medio-plantar Lapidus arthrodesis plates

| Ref. | Description | Length |
|---|---|---|
| FLTGMV0 | Medio-plantar Lapidus arthrodesis plate - Left - Size 0 | L36 mm |
| FLTDMV0 | Medio-plantar Lapidus arthrodesis plate - Right - Size 0 | L36 mm |
| FLTGMV1 | Medio-plantar Lapidus arthrodesis plate - Left - Size 1 | L43 mm |
| FLTDMV1 | Medio-plantar Lapidus arthrodesis plate - Right - Size 1 | L43 mm |
| FLTGMV2 | Medio-plantar Lapidus arthrodesis plate - Left - Size 2 | L47 mm |
| FLTDMV2 | Medio-plantar Lapidus arthrodesis plate - Right - Size 2 | L47 mm |



FLTGMV0 FLTDMV0

FLTGMV1 FLTDMV1 FLTGMV2 FLTDMV2

## Dorso-medial Lapidus arthrodesis plate

| Ref. | Description | Length |
|---|---|---|
| FLTSM1 | Dorso-medial Lapidus arthrodesis plate - Symmetrical - Size 1 | L50 mm |



FLTSM1

## Dorsal Lisfranc arthrodeses plates

| Ref. | Description | Width |
|---|---|---|
| FDTSDN1 | Dorsal Lisfranc arthrodesis plate - Narrow - Symmetrical - Size 1 | L19 mm |
| FDTSDS1 | Dorsal Lisfranc arthrodesis plate - Standard - Symmetrical - Size 1 | L22 mm |
| FDTSDW1 | Dorsal Lisfranc arthrodesis plate - Wide - Symmetrical - Size 1 | L25 mm |



FDTSDN1 FDTSDS1 FDTSDW1

## Medial Lisfranc arthrodeses plates

| Ref. | Description | Length |
|---|---|---|
| FETGD1 | Medial Lisfranc arthrodesis plate - Left - Size 1 | L53 mm |
| FETDD1 | Medial Lisfranc arthrodesis plate - Right - Size 1 | L53 mm |



FETGD1 FETDD1

## Isolated Lisfranc arthrodesis plates

| Ref. | Description | Length |
|---|---|---|
| FUTGD1 | Isolated Lisfranc arthrodesis plate - Left - Size 1 | L43 mm |
| FUTDD1 | Isolated Lisfranc arthrodesis plate - Right - Size 1 | L43 mm |
| FUTSD1 | Isolated Lisfranc arthrodesis plate - Symmetrical - Size 1 | L38 mm |




## Talo-navicular arthrodesis plates

| Ref. | Description | Length |
|---|---|---|
| FTTGD1 | Dorsal Talo-Navicular arthrodesis plate - Left - Size 1 | L22 mm |
| FTTDD1 | Dorsal Talo-Navicular arthrodesis plate - Right - Size 1 | L22 mm |
| FTTGD2 | Dorsal Talo-Navicular arthrodesis plate - Left - Size 2 | L28 mm |
| FTTDD2 | Dorsal Talo-Navicular arthrodesis plate - Right - Size 2 | L28 mm |
| FTTSM1 | Medial Talo-Navicular arthrodesis plate - Symmetrical - Size 1 | L21 mm |
| FTTSM2 | Medial Talo-Navicular arthrodesis plate - Symmetrical - Size 2 | L26 mm |




## Cotton osteotomy plates

| Ref. | Description | Length |
|---|---|---|
| FCTSM0 | Cotton osteotomy plate - Symmetrical - 0 mm | L24 mm |
| FCTSM4.5 | Cotton osteotomy plate - Symmetrical - 4.5 mm | L22 mm |
| FCTSM5.5 | Cotton osteotomy plate - Symmetrical - 5.5 mm | L23 mm |
| FCTSM6.5 | Cotton osteotomy plate - Symmetrical - 6.5 mm | L24 mm |




## Evans osteotomy plates

| Ref. | Description | Length |
|---|---|---|
| FVTSL0 | Evans osteotomy plate - Symmetrical - 0 mm | L30 mm |
| FVTSL6 | Evans osteotomy plate - Symmetrical - 6 mm | L26 mm |
| FVTSL8 | Evans osteotomy plate - Symmetrical - 8 mm | L28 mm |
| FVTSL10 | Evans osteotomy plate - Symmetrical - 10 mm | L30 mm |



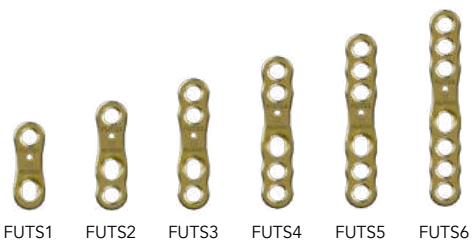

## Calcaneal displacement osteotomy plates

| Ref. | Description | Width |
|---|---|---|
| FATSL5 | Calcaneal displacement osteotomy plate - Symmetrical - 5 mm | L21.5 mm |
| FATSL7.5 | Calcaneal displacement osteotomy plate - Symmetrical - 7.5 mm | L21.5 mm |
| FATSL10 | Calcaneal displacement osteotomy plate - Symmetrical - 10 mm | L21.5 mm |




## Straight plates

| Ref. | Description | Length |
|---|---|---|
| FUTS1 | Straight plate - Symmetrical - Size 1 - 2 holes | L20 mm |
| FUTS2 | Straight plate - Symmetrical - Size 2 - 3 holes | L25 mm |
| FUTS3 | Straight plate - Symmetrical - Size 3 - 4 holes | L30 mm |
| FUTS4 | Straight plate - Symmetrical - Size 4 - 5 holes | L35 mm |
| FUTS5 | Straight plate - Symmetrical - Size 5 - 6 holes | L40 mm |
| FUTS6 | Straight plate - Symmetrical - Size 6 - 7 holes | L45 mm |



## Ø2.8 mm locking screws*

| Ref. | Description |
|---|---|
| SLT2.8L10 to SLT2.8L34 | Ø2.8 mm locking screw - L10 to L34 mm (2 mm incrementation) |

*Green anodized



## Ø2.8 mm non-locking screws*

| Ref. | Description |
|---|---|
| RLT2.8L10 to RLT2.8L34 | Ø2.8 mm non-locking screw - L10 to L34 mm (2 mm incrementation) |

*Golden anodized



## Ø3.5 mm locking screws*

| Ref. | Description |
|---|---|
| SLT3.5L10 to SLT3.5L40 | Ø3.5 mm locking screw - L10 to L40 mm (2 mm incrementation) |

*Blue anodized



## Ø3.5 mm non-locking screws*

| Ref. | Description |
|---|---|
| RLT3.5L10 to RLT3.5L40 | Ø3.5 mm non-locking screw - L10 to L40 mm (2 mm incrementation) |

*Fuchsia anodized



## Ø3.5 mm lag crews*

| Ref. | Description |
|---|---|
| QLT3.5L20-ST to QLT3.5L40-ST | Ø3.5 mm lag screw - L20 to L40 mm - STERILE (2 mm incrementation) |

*Not anodized. Available only in sterile packaging.



## Optional implants - Ø4.0 mm screws and washer*

| Ref. | Description |
|---|---|
| H1.4QT4.0L26-ST to H1.4QT4.0L48-ST | Ø4.0 mm compressive screw - cannula Ø1.4 - short thread - STERILE (2 mm incrementation) |
| H1.4IFT4.0L26-ST to H1.4IFT4.0L48-ST | Ø4.0 mm self-compressive screw - cannula Ø1.4 - short thread - STERILE (2 mm incrementation) |
| WASH-T4-ST | Compression washer for Ø4.0 mm compressive screws - STERILE |

* Not anodized. Available only in sterile packaging.





### REMOVAL SET

If you have to remove Footmotion plating system implants, make sure to order the **Newclip Technics removal set** which includes the following instruments:

- ANC042: Mini set - Base
- ANC350: Ø4.5 mm AO quick coupling handle - Size 1
- ANC575: T8 quick coupling screwdriver

To remove any of the Footmotion Plating System plates, first loosen all the screws without completely removing them (this prevents rotation of the plate when removing the last screw). Finally, completely remove all screws and the plate.

# Instruments references.

## Footmotion plating system kit instrumentation

| # | Ref. | Description | Qty |
|---|---|---|---|
| 01 | ANC350 | Ø4.5 mm AO quick coupling handle - Size 1 | 2 |
| 02 | ANC575 | T8 quick coupling screwdriver | 2 |
| 03 | ANC576 | Ø2.0 mm threaded guide gauge for Ø2.8 mm screws | 2 |
| 04 | ANC577 | Ø2.7 mm threaded guide gauge for Ø3.5 mm screws | 2 |
| 05 | ANC578 | Bending plier | 2 |
| 06 | ANC586 | Ø2.0 mm non threaded bent guide gauge for Ø2.8 mm screws | 1 |
| 07 | ANC589 | Length gauge for Ø2.8 and Ø3.5 mm screws | 1 |
| 08 | ANC590 | Ø2.0 mm quick coupling drill bit - L125 mm | 2 |
| 09 | ANC591 | Ø2.7 mm quick coupling drill bit - L125 mm | 2 |
| 10 | ANC611 | Ø3.0 mm quick coupling drill bit - L125 mm | 1 |
| 11 | ANC621 | Chisel Pauwels - 10*240 mm | 1 |
| 12 | ANC642 | Opening wedge osteotomy instrument | 1 |
| 13 | 33.0212.070 | Pin Ø1.2 - L70 mm | 5 |
| 14 | 33.0216.100 | Pin Ø1.2 - L100 mm | 5 |
| 15 | 33.0216.150 | Pin Ø1.2 - L150 mm | 5 |
| 16 | D11432M* | Small closed WIRE DISTRACTOR Ø1.6 and Ø2.5 | 1 |

* Optional

Manufacturer: OURY-GUYE et Fils
MDD Class: I
Notified body: SGS Belgium NV - CE1629

## MTP arthrodesis module instrumentation

| # | Ref. | Description | Qty |
|---|---|---|---|
| 17 | ANC567 | Ø16 mm convex reamer | 1 |
| 18 | ANC568 | Ø16 mm concave reamer | 1 |
| 19 | ANC569 | Ø18 mm convex reamer | 1 |
| 20 | ANC570 | Ø18 mm concave reamer | 1 |
| 21 | ANC571 | Ø20 mm convex reamer | 1 |
| 22 | ANC572 | Ø20 mm concave reamer | 1 |
| 23 | ANC573 | Ø22 mm convex reamer | 1 |
| 24 | ANC574 | Ø22 mm concave reamer | 1 |

## Lapidus arthrodesis module instrumentation

| # | Ref. | Description | Qty |
|---|---|---|---|
| | | **PLANTAR NARROW INSTRUMENTATION** | |
| 25 | ANC841 | Ø2.7 mm non threaded bent guide gauge for Ø3.5 mm screws | 1 |
| 26 | ANC861 | Ø2.7 mm cannulated bending drill guide | 2 |
| | | **Ø4.0 MM SCREWS INSTRUMENTATION** | |
| 27 | ANC388 | 2.5 mm quick coupling hexagonal non prehensor screwdriver - cannula Ø1.4 mm | 1 |
| 28 | ANC414 | Ø2.9 mm drill bit - cannula 1.4 mm - L 125 mm - AO Ø4.5 mm quick coupling | 1 |
| 29 | ANC427 | Length gauge for pin Ø1.3 mm - L 120 mm | 1 |
| 30 | ANC664 | Ø2.9 mm countersink - cannula Ø1.4 mm - AO quick coupling | 1 |
| 31 | ANC665 | Ø1.4 mm pin guide | 1 |
| 32 | ANC845 | Ø6.0 mm countersink - cannula Ø1.4 mm | 1 |
| 33 | 33.0213.120 | Pin Ø1.3 - L120 mm | 6 |

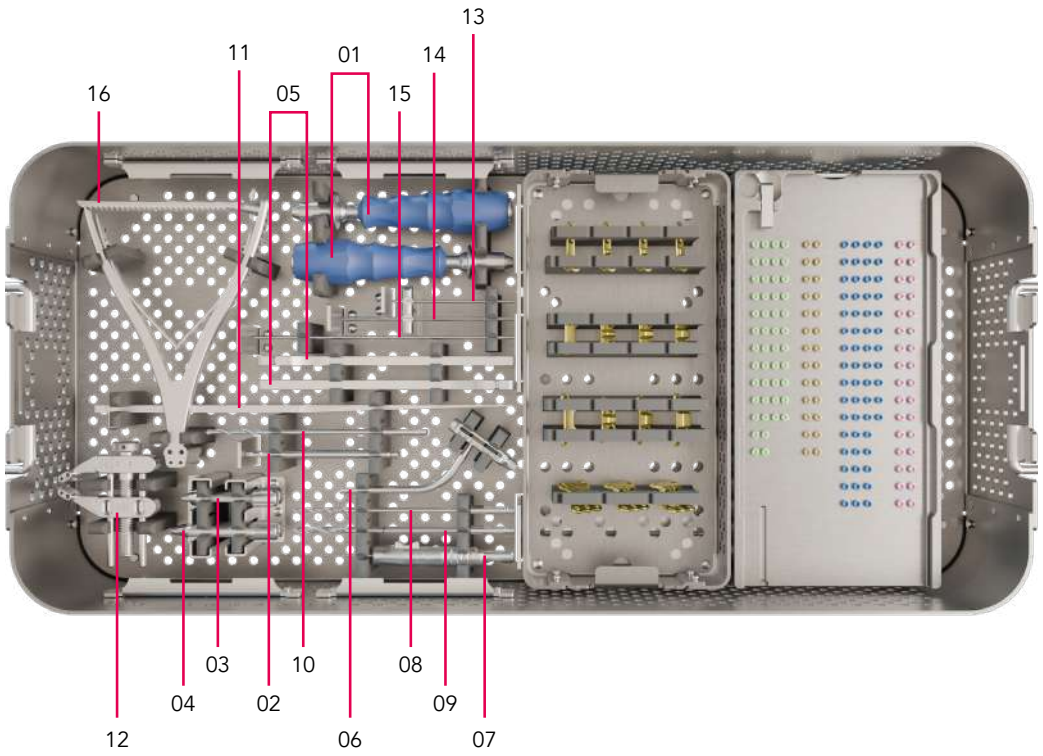
## PLATE BENDING

The plates of the Footmotion Plating System can be bent using the appropriate bending pliers (ANC578) and by following these instructions:

- Bending is only possible in the areas intended for this purpose,
- A bendable area must be bent only once and in one direction,
- Bending must not be performed excessively,
- The holes must be protected so as to avoid damaging the fixation.

Please refer to the IFU for bending precautions.

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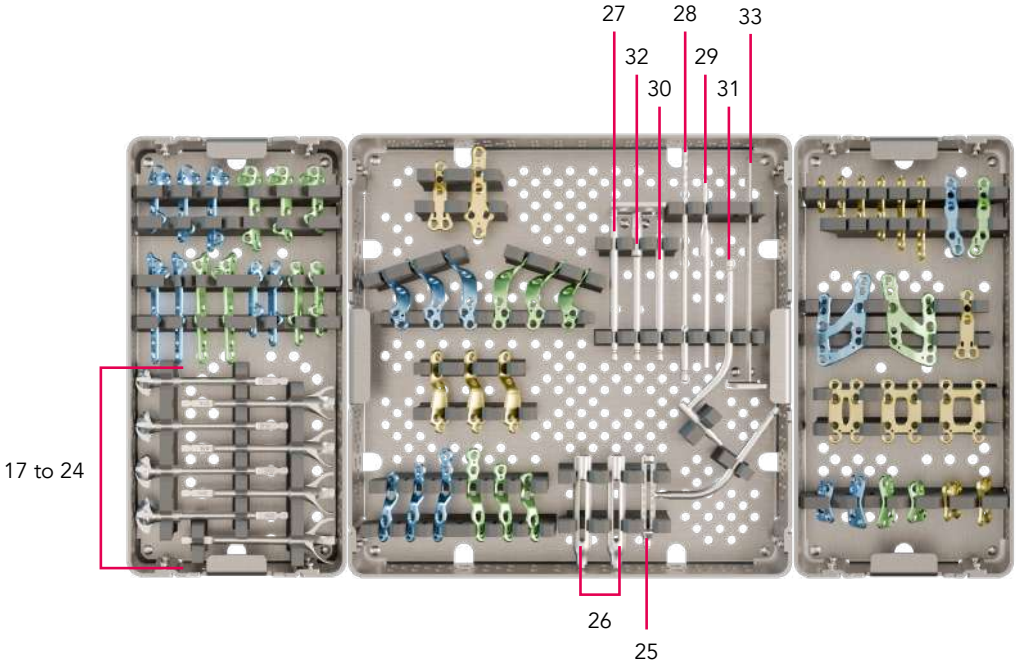
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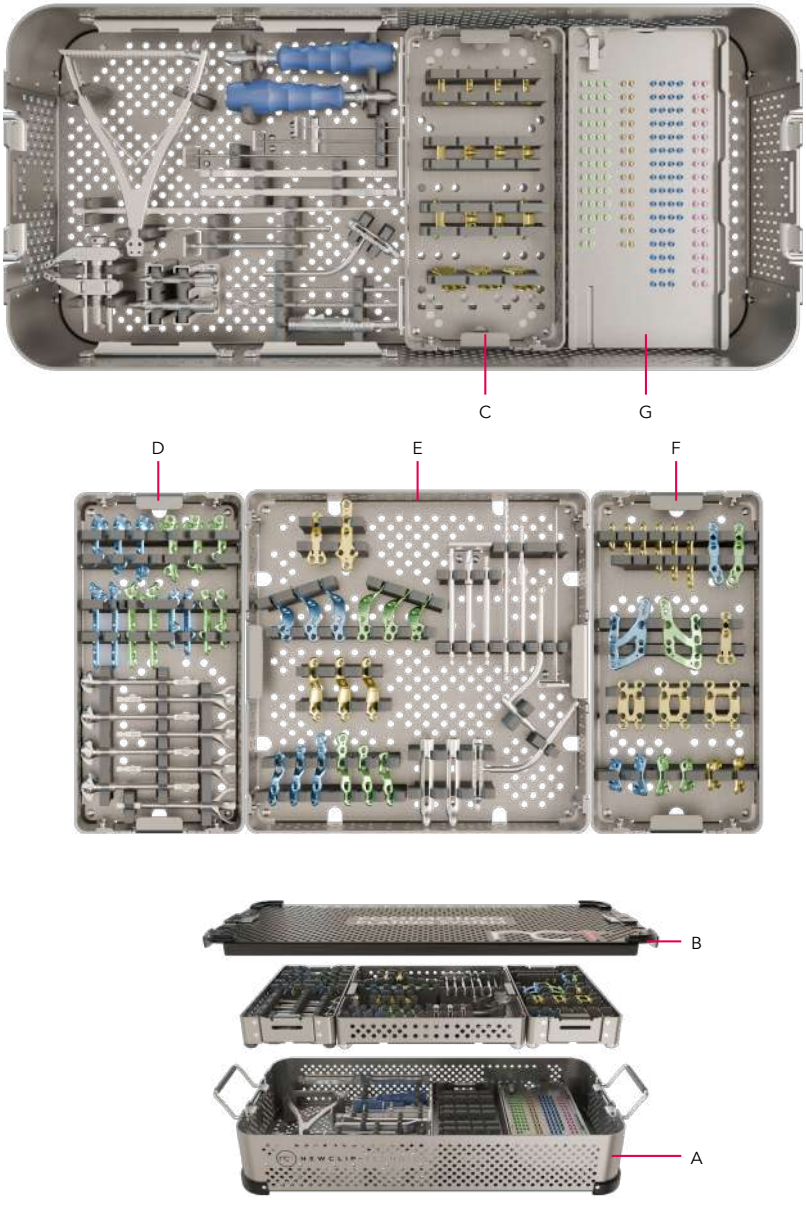
# Container references.

| # | Ref. | Description | Qty |
|---|---|---|---|
| A | ANC1833/B | Footmotion Plating System set - Base | 1 |
| B | ANC1833/C | Footmotion Plating System set - Lid | 1 |
| C | ANC1833/M1 | Footmotion Plating System set - Module 1 - Flatfoot osteotomy | 1 |
| D | ANC1833/M2 | Footmotion Plating System set - Module 2 - MTP arthrodesis | 1 |
| E | ANC1833/M3 | Footmotion Plating System set - Module 3 - Lapidus arthrodesis | 1 |
| F | ANC1833/M4 | Footmotion Plating System set - Module 4 - Lisfranc arthrodesis | 1 |
| G | ANC1833/R | Footmotion Plating System set - Screw rack | 1 |



# Optional instruments references.

## Optional sterile instruments

| Ref. | Description |
|---|---|
| ANC590-ST | Ø2.0 mm quick coupling drill bit - L 125 mm - STERILE |
| ANC591-ST | Ø2.7 mm quick coupling drill bit - L 125 mm - STERILE |
| ANC926-ST | Olive pin Ø1.2 - L70 mm - STERILE |
| 33.0212.070-ST | Pin Ø1.2 - L70 mm - STERILE |
| 33.0216.100-ST | Pin Ø1.6 - L100 mm - STERILE |
| 33.0216.150-ST | Pin Ø1.6 - L150 mm - STERILE |

## PSI Options

| Ref. | Description | Qty |
|---|---|---|
| ANC863 | Ø1.9 mm pin for cutting guide - L15 mm | 4 |
| ANC880 | Ø1.9 mm pin for cutting guide - L30 mm | 4 |
| ANC1113 | Patient specific cutting guide for foot osteotomy | 1 |
| ANC1219 | Ø2.6 mm pin for cutting guide - L30 mm | 4 |
| ANC1220 | Ø2.6 mm pin for cutting guide - L15 mm | 4 |
| ANC1349 | Ø1.2 mm - L10 mm holding plot | 3 |
| ANC1350 | Ø2.2 mm - L10 mm holding plot | 3 |
| ANC1771 | Ø1.6 mm holding plot | 3 |
| 33.0216.150 | Pin Ø1.6 - L150 mm | 4 |
| 33.0222.120 | Pin Ø2.2 - L200 mm | 4 |

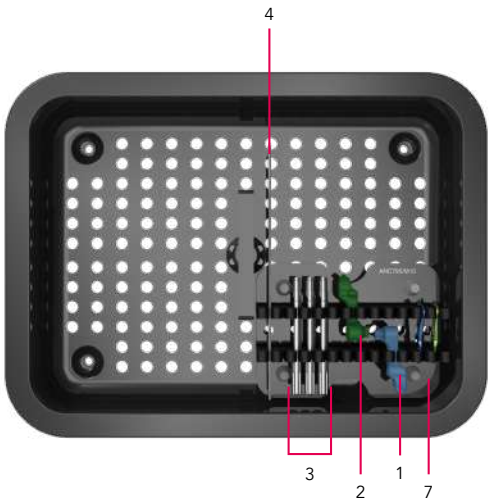
## Optional instruments: MIBO kit

| # | Ref. | Description | Qty |
|---|---|---|---|
| 1 | ANC1057 | MIS guide for metatarsal basal closing wedge osteotomy plate - Left | 1 |
| 2 | ANC1058 | MIS guide for metatarsal basal closing wedge osteotomy plate - Right | 1 |
| 3 | ANC1059 | Ø2.0 mm threaded guide gauge for Ø2.8 mm screws - MIS MIBO | 3 |
| 4 | 33.0212.120 | Pin Ø1.2 - L120 mm | 5 |
| 5 | ANC791/B | Footmotion Plating System - Options set - Base | 1 |
| 6 | ANC791/C2 | Footmotion Plating System - MIBO set - Lid | 1 |
| 7 | ANC795/M10 | Set - Module - 13 slots | 1 |



### Compatible with patient specific cutting guides (PSI)

Please refer to the brochure FPS PSI and contact your NEWCLIP TECHNICS representative if you have questions about the availability of NEWCLIP TECHNICS products in your area.







This information is intended to demonstrate the Newclip Technics portfolio of medical devices. Always refer to the package insert, product label and/or user instructions including cleaning and sterilization before using any Newclip Technics product.These products must be handled and/or implanted by trained and qualified staff who have read the instructions before use. A surgeon must always rely on her or his own professional clinical judgement when deciding whether to use a particular product when treating a particular patient. Product availability is subject to the regulatory or medical practices that govern individual markets. Please contact your Newclip Technics representative if you have questions about the availability of Newclip Technics products in your area.

Manufacturer: Newclip Technics - Brochure EN - Footmotion Plating System - Ed.14 - 11/2026 - Medical devices: class IIb - CE1639 SGS BE - Read labelling and instructions before the use of Newclip Technics medical devices. These products must be handled and/or implanted by trained and qualified staff who have read the instructions before use. Non-contractual pictures.
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