PRESERVATION
MEDIAL COLUMN PLATING SYSTEM
**Indications:** the implants of the Footmotion Plating System are intended for arthrodeses, fractures and osteotomies fixation and revision surgeries of the foot in adults.

**Contraindications:**
- Serious vascular deterioration, bone devitalization.
- Pregnancy.
- Acute or chronic, local or systemic infections.
- Lack of musculo-cutaneous cover, severe vascular deficiency affecting the concerned area.
- Insufficient bone quality preventing a good fixation of the implants into the bone.
- Muscular deficit, neurological deficiency or behavioral disorders which could submit the implant to abnormal mechanical strains.
- Allergy to one of the materials used or sensitivity to foreign bodies.
- Serious problems of non-compliance, mental or neurological disorders, failure to follow post operative care recommendations.
- Unstable physical and/or mental condition.

### A COMPREHENSIVE RANGE OF PLATES

**MEDIAL COLUMN PLATES**

- 2 sizes available
- Size 1: FRTGMV1
- Size 2: FRTGMV2
- Left plates
- Right plates

**DISTAL ARCH PLATES**

- 2 sizes available
- Size 1: FRTDMV1
- Size 2: FRTDMV2
- Left plates
- Right plates
**TECHNICAL FEATURES**

**PLATE FEATURES**

**L-SHAPED FOR HIGH MECHANICAL PROPERTIES**

- 68.96 mm$^3$ Moment of Inertia
- 11.64 mm$^3$ Moment of Inertia
- 17.46 mm long
- 2 mm thick
- x5.9 resistance

**MEDIAL COLUMN CONSTRUCT**

- Medio plantar positioning
- Lateral targeting
- Proximal grab of the talus

**TRANSARTICULAR SCREWS**

- Transarticular compressive screws
**TECHNICAL FEATURES**

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### ANATOMICAL 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.

- **Bendable plates**
  However, in the case of difficult bone anatomy, all the Preservation plates can be bent with the appropriate bending pliers (ANC578). The bending of these plates must be performed **once and in one direction only**. Please refer to the IFU for bending precautions.

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### FIXATION AND SCREW FEATURES

- **Ø3.5 mm locking and non locking** (compressive) screws, from 10 to 50 mm (2 mm incrementation).

  - **Locking screw (SAT3.5Lxx)**
  - **Non locking screw (CAT3.5LxxD)**

- **The screw head is buried into the plate** to minimize discomfort and risk of soft tissue irritation.

- **The hexalobe screw recess design** (T15) improves torque transmission and the ability to cope with the difficulty arising from screw insertion into the bone.
**SURGICAL TECHNIQUE**

**MEDIAL COLUMN APPROACH**

Surgical technique example using the size 2 medial column plate (FRTDMV2)

1. Perform a medial incision and prepare the joint surfaces using the surgeon’s preferred technique.

2. Maintain the medial column in position by using a Ø1.6 mm pin (33.0216.150). Select the most appropriate plate shape to fit the bone anatomy*. Then, check the correct positioning by inserting Ø1.2 mm pins (33.0212.120).

*If needed the plates can be bent with the appropriate bending irons (ANC578), once and in one direction only.

3. The order of screw insertion starts from the most distal hole to the most proximal one. Start by drilling the most distal hole, by using a Ø2.7 mm drill bit (ANC1099) through the Ø2.7 mm threaded guide gauge (ANC1094).

4. Insert a Ø3.5 mm locking screw (SAT3.5Lxx) using the T15 screwdriver (ANC1027). All the screws are inserted following the steps 3 and 4. The final tightening of the screws must be performed by hand.

5. Insert a Ø3.5 mm non locking screw (CAT3.5LxxD) in the 3rd hole to compress the 1st metatarsal to the cuneiform.

6. Insert Ø3.5 mm locking screws (SAT3.5Lxx) in the cuneiform part. A lateral grab can be done to increase the rigidity of the construct.

7. Insert a Ø3.5 mm non locking screw (CAT3.5LxxD) in the 7th hole to compress the forefoot part to the navicular.

**FINAL RESULT**

Finalize the procedure by inserting the remaining locking screws in the talus and the navicular parts.

The surgical technique is identical for the distal arch plate (without the talus part).
REFERENCES

→ PLATES

MEDIAL COLUMN PLATES

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRTGMV1</td>
<td>Medial column arthrodesis plate - Left - Size 1</td>
</tr>
<tr>
<td>FRTDMV1</td>
<td>Medial column arthrodesis plate - Right - Size 1</td>
</tr>
<tr>
<td>FRTGMV2</td>
<td>Medial column arthrodesis plate - Left - Size 2</td>
</tr>
<tr>
<td>FRTDMV2</td>
<td>Medial column arthrodesis plate - Right - Size 2</td>
</tr>
</tbody>
</table>

DISTAL ARCH PLATES

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FBTGMV1</td>
<td>Plate for distal arch arthrodesis - Left - Size 1</td>
</tr>
<tr>
<td>FBTDMV1</td>
<td>Plate for distal arch arthrodesis - Right - Size 1</td>
</tr>
<tr>
<td>FBTGMV2</td>
<td>Plate for distal arch arthrodesis - Left - Size 2</td>
</tr>
<tr>
<td>FBTDMV2</td>
<td>Plate for distal arch arthrodesis - Right - Size 2</td>
</tr>
</tbody>
</table>

→ SCREWS

LOCKING SCREWS*

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAT3.5Lxx</td>
<td>Locking screw with conical head - Ø3.5 mm - L10 to 50 mm (2 mm increments)</td>
</tr>
</tbody>
</table>

* Blue anodized

NON LOCKING SCREWS*

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT3.5LxxD</td>
<td>Standard cortical screw - Ø3.5 mm - L10 to 50 mm (2 mm increments)</td>
</tr>
</tbody>
</table>

* Fuschia anodized

Remark: please note that the “xx” in the references represent the length of the screw. Ex: the reference for the locking screw with conical head Ø3.5 mm - L10 mm is “SAT3.5L10”

→ INSTRUMENTS

INSTRUMENTS

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANC350</td>
<td>Ø4.5 mm AO quick coupling handle - Size 1</td>
<td>2</td>
</tr>
<tr>
<td>ANC578</td>
<td>Bending pliers</td>
<td>2</td>
</tr>
<tr>
<td>ANC642</td>
<td>Opening wedge osteotomy instrument</td>
<td>1</td>
</tr>
<tr>
<td>ANC1027</td>
<td>T15 AO quick coupling prehensor screwdriver</td>
<td>2</td>
</tr>
<tr>
<td>ANC1094</td>
<td>Ø2.7 mm threaded guide gauge - SAT3.5 hole</td>
<td>2</td>
</tr>
<tr>
<td>ANC1095</td>
<td>Length gauge for Ø2.6 and Ø3.5 mm screws</td>
<td>1</td>
</tr>
<tr>
<td>ANC1099</td>
<td>Ø2.7 mm quick coupling drill bit - L180 mm</td>
<td>2</td>
</tr>
<tr>
<td>33.0212.120</td>
<td>Pin Ø1.2 L120 mm</td>
<td>6</td>
</tr>
<tr>
<td>33.0216.150</td>
<td>Pin Ø1.6 L150 mm</td>
<td>8</td>
</tr>
</tbody>
</table>

REMOVAL KIT

If you have to remove Preservation implants, make sure to order the Newclip Technics removal instruments:
- ANC350: Ø4.5 mm AO quick coupling handle - Size 1
- ANC1027: T15 AO quick coupling prehensor screwdriver

Remark

All the implants are also available in a sterile version. An “-ST” is added to the end of the reference
Ex : “SAT3.5L10-ST”
The information presented in this brochure is intended to demonstrate a NEWCLIP TECHNICS product. Always refer to the package insert, product label and/or user instructions before using any NEWCLIP TECHNICS product. Surgeons must always rely on their own clinical judgment when deciding which products and techniques to use with their patients. Products may not be available in all markets. 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.
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Brochure EN - Preservation - Ed1 - 03/2021 - Medical device EC class IIb - CE 0539 9535 BE - Read labeling and instructions before use.

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