



NEWCLIP-TECHNICS

INNOVATION MEANS MOTION



ACTIV MOTION S DTO

DISTAL TIBIAL OSTEOTOMY

- ▶ Joint preservation
- ▶ Precontoured and smooth implants to preserve soft tissue
- ▶ Complete range for tibial varisation or valgisation and fibular osteotomy

ACTIVMOTION S DTO

Indications: The implants of the Activmotion DTO range are intended for bone reconstruction of the ankle joint in adults and adolescents including fixation of fractures and osteotomies of the ankle, distal tibia and fibula.

Contra-indications:

- 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

Varus deformation

MEDIAL OPENING PLATES



2 offset screws for better mechanical resistance.

2 step designs to optimize congruency of the plate according to the opening.

ANTEROLATERAL CLOSING PLATES



One ramp oblong hole allowing for a simple and controlled compression for closing

Valgus deformation

MEDIAL CLOSING PLATES



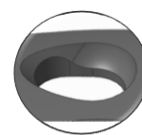
Size 1

Size 2



2 lengths : 2 or 3 proximal holes

One ramp oblong hole allowing for a simple and controlled compression for closing



Associated fibula osteotomy

FIBULA OSTEOTOMY PLATES



2 lengths to adapt to the osteotomy type



TECHNICAL FEATURES

→ Anatomical plates

> 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.

However in case of difficult anatomy the plates can be bent with the appropriate bending irons (ANC452) one time in one direction. Please refer to the IFU for bending precautions.

> Smooth implant edges especially on the medial plates to avoid soft tissue irritation,



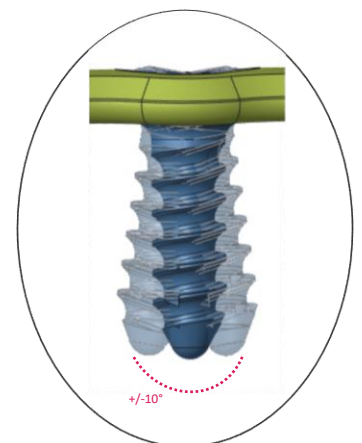
→ Fixations and screws features

> Ø3.5mm locking and non locking (compressive) screws from 12mm to 50mm (2mm inc)

> The screw head is minimally invasive and buried in the plate to minimize the risk of soft tissue irritation.

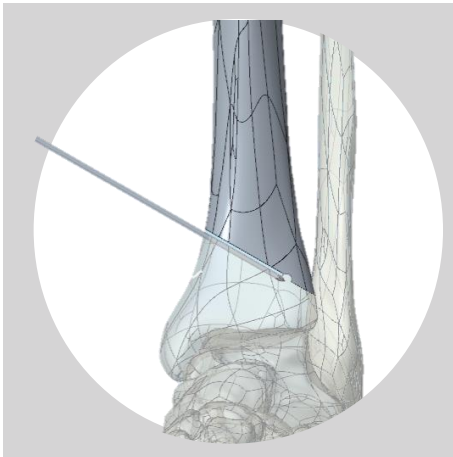
> Polyaxiality (+/-10°) of all the holes of the plate

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

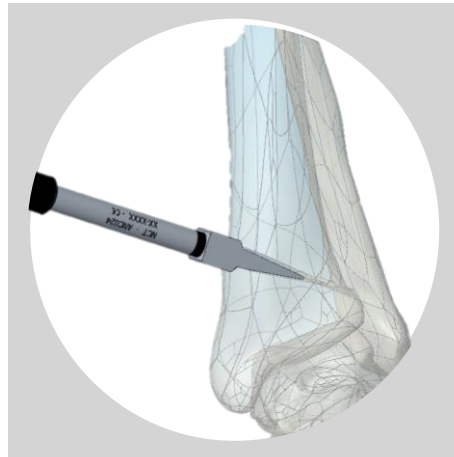


SURGICAL TECHNIQUE

MEDIAL OPENING OSTEOTOMY APPROACH



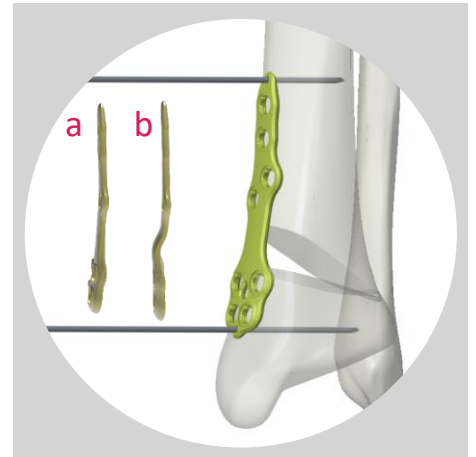
1 - Perform the cut and gradually open the osteotomy site until the desired opening is reached.



2 - Insert wedges of increasing sizes until finding the appropriate one (4-14 mm) while maintaining the lateral surface of the tibia.

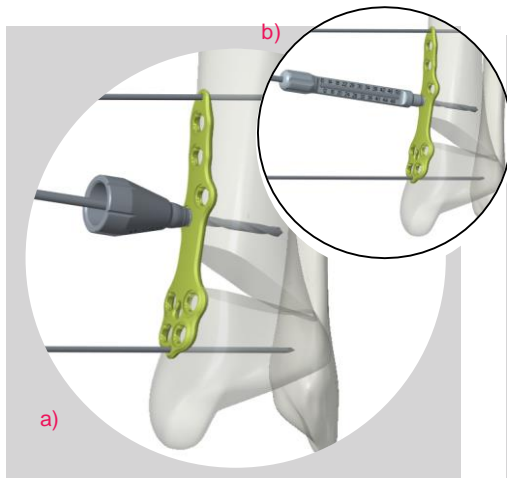
Once the appropriate wedge is inserted, the angular correction is maintained during osteosynthesis.

Alternatively, chisels or the meary pliers can be used to increase the size of the opening.



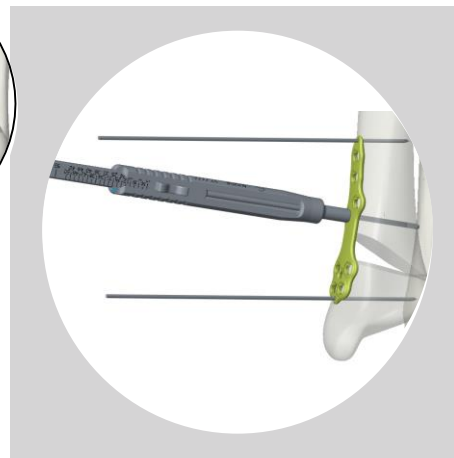
3 - Select the more appropriate plate shape to fit the bone. Position the plate by inserting two Ø 1.6 mm pins.

If needed, the plates can be bent with the appropriate bending irons (ANC452) **one time in one direction**.

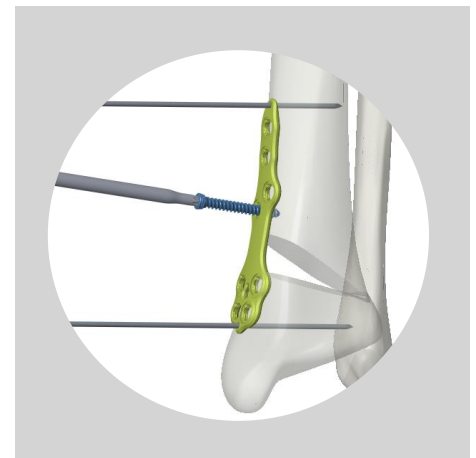


3.a - Drill using the Ø2.7 mm drill (ANC1099) through the polyaxial drill guide (ANC1067).

3.b - if a normoaxial hole is desired, drill using the Ø2.7 mm drill (ANC1099) through the guide gauge (ANC1094) and directly read the screw length.



4 - Measure the drilling depth using the length gauge (ANC1095).



5 - Insert a Ø3.5 mm locking screw (SAT3.5Lxx) using the T15 screwdriver (ANC1027).

Remark:

The surgical technique is the same for all the opening plates of the range.

FINAL RESULT

6 - Finalize the procedure by inserting the remaining Ø3.5 mm locking screws.



SURGICAL TECHNIQUE

ANTEROLATERAL OSTEOTOMY APPROACH



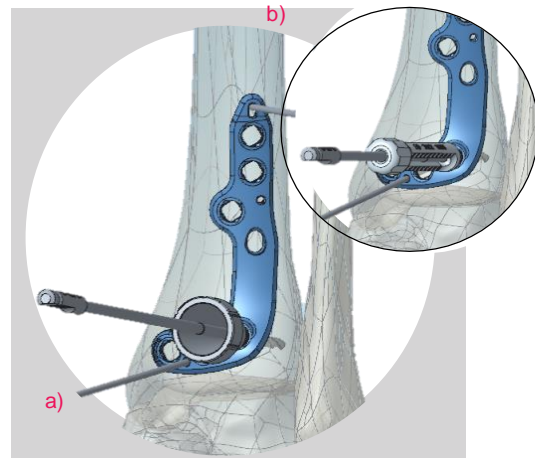
1 Perform the cuts and carefully close the osteotomy. The cutting guide (ANC014) can be used to perform the osteotomy.

Nota : The length of the saw blade must be at least 90mm.



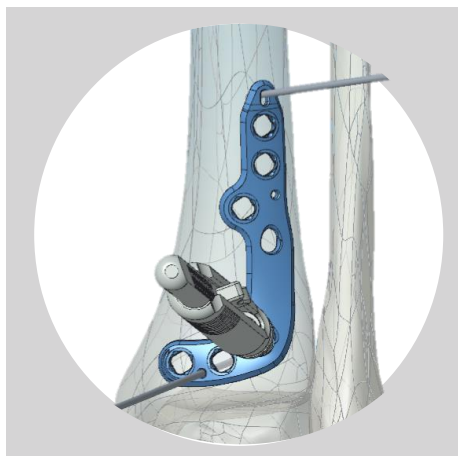
2 – Close the osteotomy and position the plate by inserting two Ø 1.6 mm pins into the **proximal part** of the oblong hole.

If needed the plates can be bent with the appropriate bending irons (ANC452) **one time in one direction**.



3.a - Drill using the Ø2.7 mm drill (ANC1099) through the polyaxial drill guide (ANC1067).

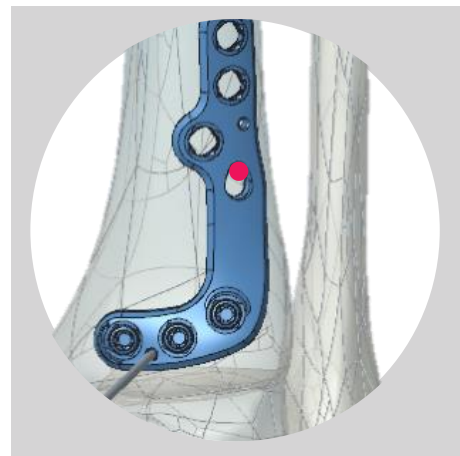
3.b – if a proximal hole is desired, drill using the Ø2.7 mm drill (ANC1099) through the guide gauge (ANC1094) and directly read the screw length.



4 - Measure the drilling depth using the length gauge (ANC1095).



5 - Insert a Ø3.5 mm locking screw (SAT3.5Lxx) using the T15 screwdriver (ANC1027) and do the same for the 2 other distal locking screws.



6 - Insert the screw in the ramp oblong hole above the osteotomy cut to generate compression.

Drill into the **proximal part of the ramp oblong** hole using the Ø2.7 mm drill (ANC1099). Determine the screw length directly on the drill guide or with the length gauge (ANC1095). Insert a Ø3.5 mm standard cortical screw (CAT3.5LxxD) and perform compression using the screwdriver (ANC1027).



FINAL RESULT

7 - Finalize the procedure by inserting the remaining Ø3.5 mm locking screws.

Remark:

The surgical technique is the same for all the closing plates of the range.

IMPLANTS REFERENCES

→ MEDIAL CLOSING PLATES



MEDIAL CLOSING PLATES	
Ref.	Description
ZBTSM1-ST	Medial closing wedge DTO plate – Symmetrical – Size 1 - STERILE
ZBTSM2-ST	Medial closing wedge DTO plate – Symmetrical – Size 2 – STERILE

→ ANTEROLATERAL CLOSING PLATES



ANTEROLATERAL CLOSING PLATES	
Ref.	Description
ZBTGB1-ST	Anterolateral closing wedge DTO plate – Left – Size 1 – STERILE
ZBTDB1-ST	Anterolateral closing wedge DTO plate – Right – Size 1 - STERILE

→ MEDIAL OPENING PLATE



MEDIAL OPENING PLATES	
Ref.	Description
ZATSM1-ST	Medial opening wedge DTO plate – Symmetrical – Size 1 - STERILE
ZATSM2-ST	Medial opening wedge DTO plate – Symmetrical – Size 2 - STERILE

→ FIBULA PLATE

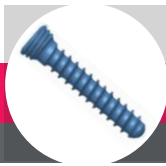


FIBULA PLATES	
Ref.	Description
FTPS1-ST	Straight plate for diaphyseal fibula - Symmetrical - Size 1 - STERILE
FTPS2-ST	Straight plate for diaphyseal fibula - Symmetrical - Size 2 - STERILE

IMPLANTS REFERENCES

→ Ø3.5 MM SCREWS

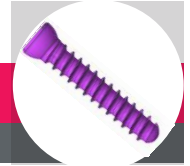
LOCKING SCREWS*



Ref.	Description
SAT3.5L12	Locking screw with conical head Ø3.5 mm – L12 mm
SAT3.5L14	Locking screw with conical head Ø3.5 mm – L14 mm
SAT3.5L16	Locking screw with conical head Ø3.5 mm – L16 mm
SAT3.5L18	Locking screw with conical head Ø3.5 mm – L18 mm
SAT3.5L20	Locking screw with conical head Ø3.5 mm – L20 mm
SAT3.5L22	Locking screw with conical head Ø3.5 mm – L22 mm
SAT3.5L24	Locking screw with conical head Ø3.5 mm – L24 mm
SAT3.5L26	Locking screw with conical head Ø3.5 mm – L26 mm
SAT3.5L28	Locking screw with conical head Ø3.5 mm – L28 mm
SAT3.5L30	Locking screw with conical head Ø3.5 mm – L30 mm
SAT3.5L32	Locking screw with conical head Ø3.5 mm – L32 mm
SAT3.5L34	Locking screw with conical head Ø3.5 mm – L34 mm
SAT3.5L36	Locking screw with conical head Ø3.5 mm – L36 mm
SAT3.5L38	Locking screw with conical head Ø3.5 mm – L38 mm
SAT3.5L40	Locking screw with conical head Ø3.5 mm – L40 mm
SAT3.5L42	Locking screw with conical head Ø3.5 mm – L42 mm
SAT3.5L44	Locking screw with conical head Ø3.5 mm – L44 mm
SAT3.5L46	Locking screw with conical head Ø3.5 mm – L46 mm
SAT3.5L48	Locking screw with conical head Ø3.5 mm – L48 mm
SAT3.5L50	Locking screw with conical head Ø3.5 mm – L50 mm

*blue anodized

STANDARD SCREWS*



Ref.	Description
CAT3.5L12D	Standard cortical screw Ø3.5 mm – L12 mm
CAT3.5L14D	Standard cortical screw Ø3.5 mm – L14 mm
CAT3.5L16D	Standard cortical screw Ø3.5 mm – L16 mm
CAT3.5L18D	Standard cortical screw Ø3.5 mm – L18 mm
CAT3.5L20D	Standard cortical screw Ø3.5 mm – L20 mm
CAT3.5L22D	Standard cortical screw Ø3.5 mm – L22 mm
CAT3.5L24D	Standard cortical screw Ø3.5 mm – L24 mm
CAT3.5L26D	Standard cortical screw Ø3.5 mm – L26 mm
CAT3.5L28D	Standard cortical screw Ø3.5 mm – L28 mm
CAT3.5L30D	Standard cortical screw Ø3.5 mm – L30 mm
CAT3.5L32D	Standard cortical screw Ø3.5 mm – L32 mm
CAT3.5L34D	Standard cortical screw Ø3.5 mm – L34 mm
CAT3.5L36D	Standard cortical screw Ø3.5 mm – L36 mm
CAT3.5L38D	Standard cortical screw Ø3.5 mm – L38 mm
CAT3.5L40D	Standard cortical screw Ø3.5 mm – L40 mm
CAT3.5L42D	Standard cortical screw Ø3.5 mm – L42 mm
CAT3.5L44D	Standard cortical screw Ø3.5 mm – L44 mm
CAT3.5L46D	Standard cortical screw Ø3.5 mm – L46 mm
CAT3.5L48D	Standard cortical screw Ø3.5 mm – L48 mm
CAT3.5L50D	Standard cortical screw Ø3.5 mm – L50 mm

*Fuschia anodized

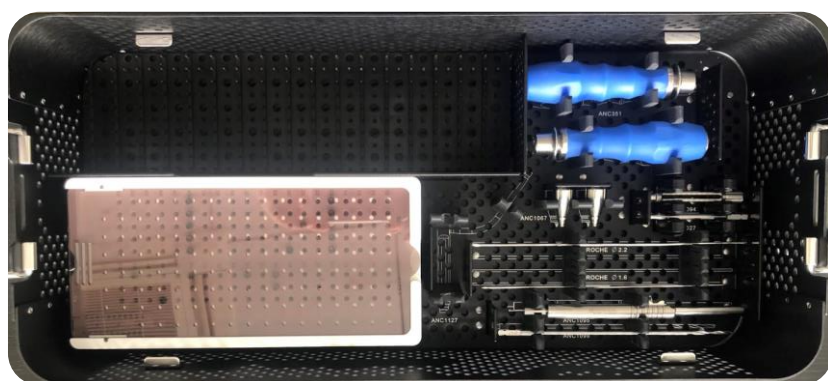
INSTRUMENTS REFERENCES

Ref.	Description	Qty
33.0216.150	Pin Ø1.6 L 150 mm	6
33.0222.200	Pin Ø2.2 L 200 mm	6
ANC014-1	NCT Cutting guide – piece 1	1
ANC014-2	NCT Cutting guide – piece 2	1
ANC024	Handle for metallic wedge and cutting guide	2
ANC351	Ø4.5 mm AO quick coupling handle - Size 2	2
ANC452	Bending iron	2
ANC621	Chisel Pauwels - 10*240 mm	1
ANC622	Chisel Pauwels - 25*240 mm	1
ANC628	Chisel Pauwels - 15*240 mm	1
ANC629	Chisel Pauwels - 20*240 mm	1
ANC1027	T15 AO quick coupling prehensor screwdriver	2
ANC990	Activmotion Meary pliers	1
ANC1066	Activmotion Meary pliers type 2 *	1
ANC1067	Ø2.7 Polyaxial drill guide - SAT3.5 hole	2
ANC1088	Metallic wedge for osteotomy - 4 mm high - Narrow	1
ANC1089	Metallic wedge for osteotomy - 6 mm high - Narrow	1
ANC1090	Metallic wedge for osteotomy - 8 mm high - Narrow	1

* Optional as a replacement of ANC990

INSTRUMENTS REFERENCES

Ref.	Description	Qty
ANC1091	Metallic wedge for osteotomy - 10 mm high - Narrow	1
ANC1092	Metallic wedge for osteotomy - 12 mm high - Narrow	1
ANC1093	Metallic wedge for osteotomy - 14 mm high - Narrow	1
ANC1094	Ø2.7 mm threaded guide gauge - SAT3.5 hole	2
ANC1095	Length gauge for Ø2.8 and Ø3.5mm screws	1
ANC1099	Ø2.7 mm quick coupling drill bit - L 180 mm	2
ANC1121-B	ACTIVMOTION S - DTO instrument set - Base	1
ANC1121-C	ACTIVMOTION S - DTO instrument set - Top	1
ANC1121-I	ACTIVMOTION S - DTO instrument set - Insert	1
ANC1121-R	ACTIVMOTION S - DTO instrument set – Screw tray	1



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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