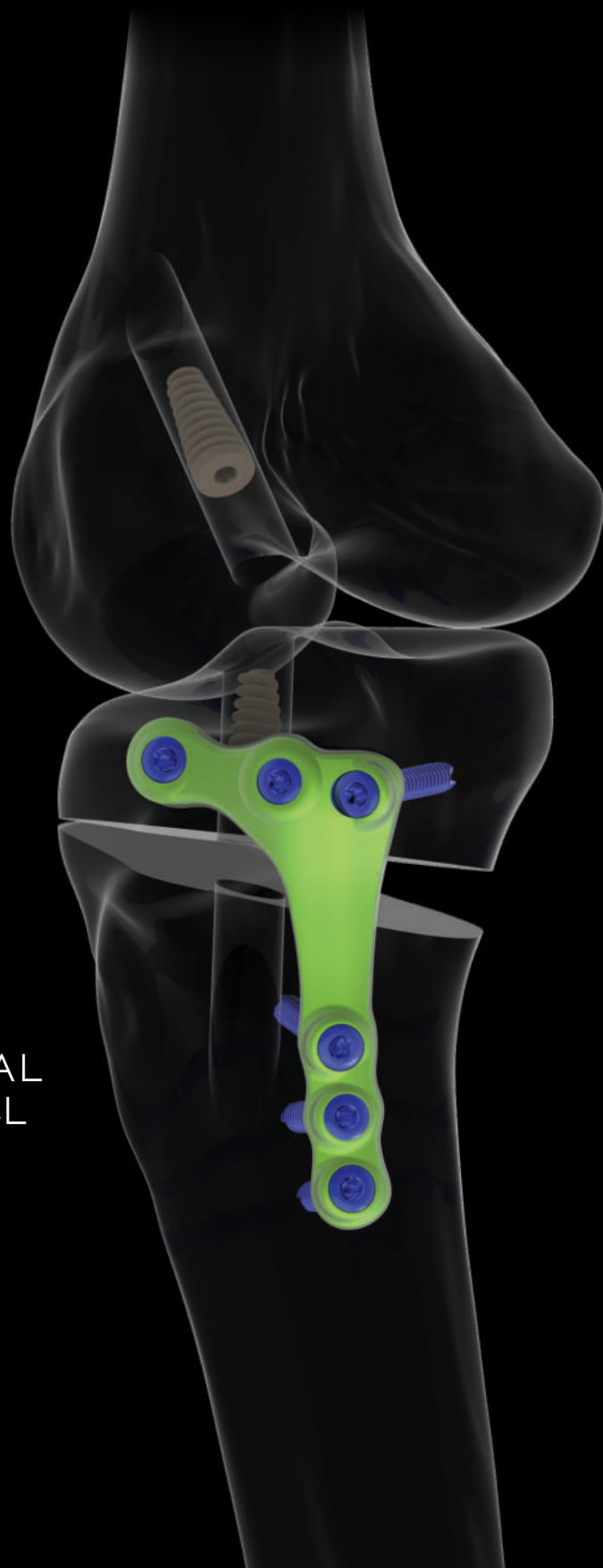
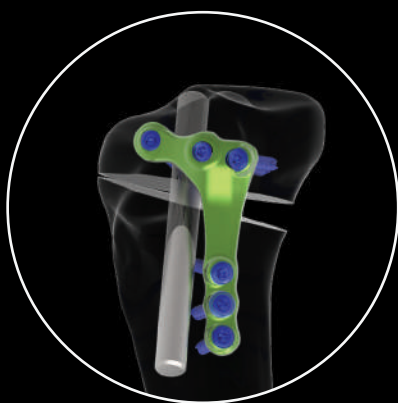
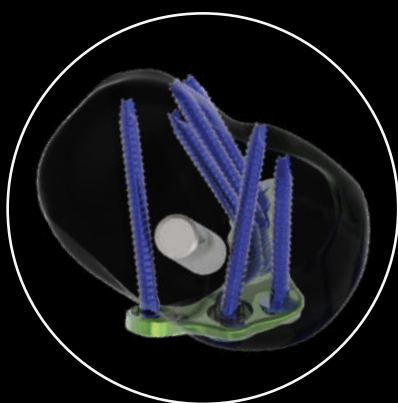




NEWCLIP-TECHNICS

INNOVATION MEANS MOTION



ACTIVMOTION LIGAMENTO PLATE FOR OPENING WEDGE TIBIAL OSTEOTOMY COMBINED WITH ACL RECONSTRUCTION

POLYAXIAL LOCKING FIXATION
DUALTEC SYSTEM®

- Design allowing two surgical procedures to be done at the same time
- Design and positioning adapted to the knee biomechanics

ACTIVMOTION LIGAMENTO

Indications:

The ACTIVMOTION range is indicated for knee osteotomy 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.

PLATE FOR OPENING WEDGE HIGH TIBIAL OSTEOTOMY

→ TECHNICAL FEATURES

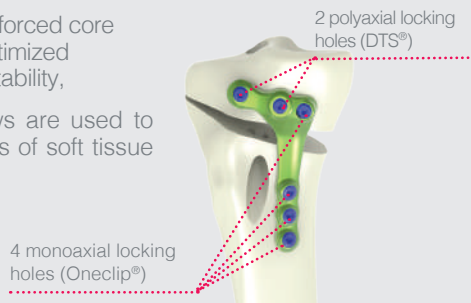
- **Anatomic asymmetrical implant** (green anodized for right side, blue anodized for left side),
- To prevent any risk of damaging the tunnel, the plate's upper part is optimized for ACL reconstruction,
- **6 locking screws**, including 2 **polyaxial** screws to avoid conflicts with the ACL tunnel,
- Material: **Titanium** alloy (TA6V).



FIXATION

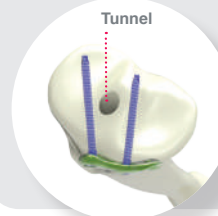
→ TECHNICAL FEATURES

- Ø4.5 mm reinforced core screws for optimized mechanical stability,
- Buried screws are used to minimize risks of soft tissue irritation.



→ POLYAXIAL LOCKING SYSTEM

Possible angulation of the screw before locking (25° locking range) thanks to the DTS® system.

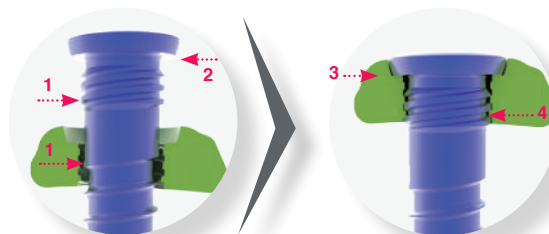


2 polyaxial locking holes (DTS®) are located in the proximal part on either side of the ACL tunnel to avoid damaging the graft.

→ SELF-LOCKING SYSTEM

• Features:

- The threaded sections under the screw head and inside the hole have the **same characteristics** (1):
 - Cylindrical internal thread profile,
 - Cylindrical external thread profile,
- Screw head cap(2),
- Plate and screws made from the same material: titanium alloy.



• Results :

• Low profile construct:

- The screw head reaches a mechanical stop in the slot, insuring the locking (3),
- The screw head is buried in the plate,
- Coaptation of both profiles when locking (4).

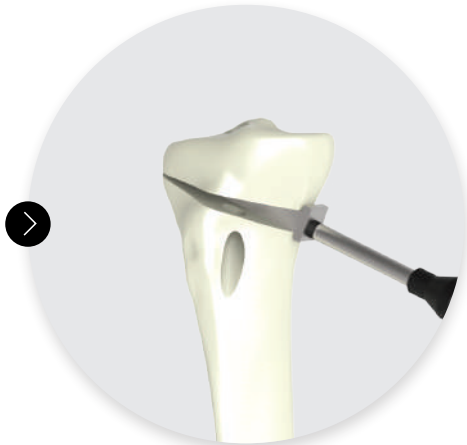
INSTRUMENTATION

- A single instrument set for the whole ACTIVMOTION range,
- One type of screw (Ø4.5 mm) and one drill bit diameter (Ø4.0 mm) for simple and safe implant fitting,
- Metallic osteotomy wedges for progressive accurate and safe opening of the osteotomy site.

SURGICAL TECHNIQUE

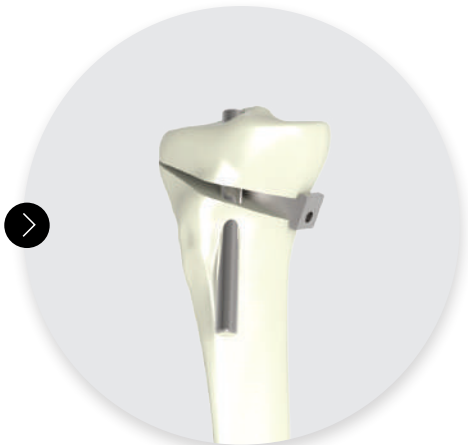


1. Perform the ACL tunnel following the surgeon's surgical technique.

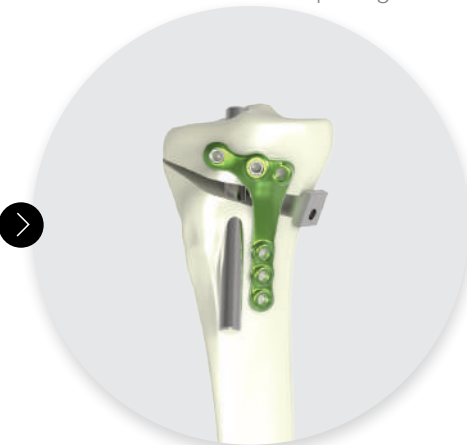


2. Perform the osteotomy cut.
Insert wedges of increasing sizes until finding the appropriate one (6 -16 mm) while maintaining the lateral surface of the tibia. Once the appropriate wedge is inserted, the angular correction is maintained during osteosynthesis.

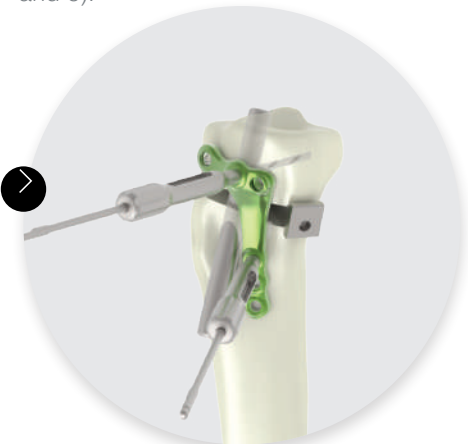
Alternatively, the Meary pliers can be used to increase the size of the opening.



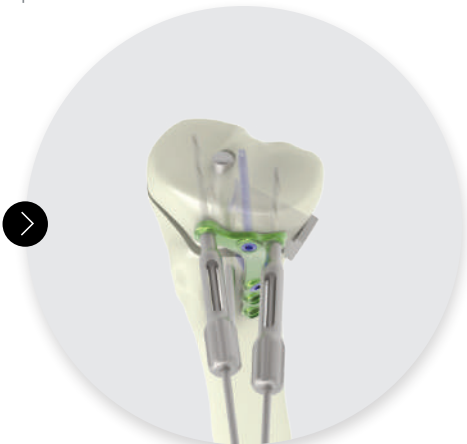
3. Insert the spacer (Ø8 mm - ANC649 or Ø10 mm - ANC601) in order to preserve the tunnel during the insertion of the proximal polyaxial screws (see steps 5 and 6).



4. Position the plate: the diaphyseal part of the implant should run alongside the anterior tibial tuberosity, the anterior and medial proximal polyaxial holes are positioned on either side of the tunnel.



5. Insert the screws located on both sides of the osteotomy site.
Drill with a Ø4.0 mm drill bit (ANC211) using the drill guide (ANC212).
To avoid drilling through the tunnel, use the polyaxiality for the placement of the screw into the proximal medial hole.



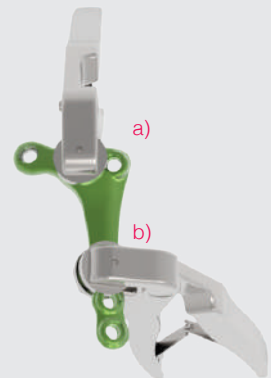
6. Once the first two Ø4.5 mm screws (ST4.5Lxx-ST) have been inserted, repeat the procedure with the other two proximal screws. To avoid drilling through the tunnel, use the polyaxiality for the placement of the screw into the proximal anterior hole. The final tightening of the screws must be performed by hand.

BENDING THE PLATE

1. Bending should only be performed on the metaphyseal part of the plate between:

- the medial polyaxial hole (a.)
- the first diaphyseal hole (b.)

The positioning of the bending pliers must be as accurate as possible so that the ergonomic qualities of the plate are not altered.



2. Each bendable area should be bent **only once and in one direction**.

3. Bending should not be excessive.

4. The holes must be protected so as to avoid damaging the fixation. The oval-shaped distortion of the holes when bending the plate into shape is a particular risk.

FINAL RESULT



Complete the procedure by inserting the last two distal screws and removing the metallic wedge and the spacer.

IMPLANTS REFERENCES



Ø4.5 MM DTS® SELF TAPPING SCREWS

Ref.	Description
ST4.5L30-ST	DTS® self-tapping screw - Ø4.5 mm - L30 mm - STERILE
ST4.5L35-ST	DTS® self-tapping screw - Ø4.5 mm - L35 mm - STERILE
ST4.5L40-ST	DTS® self-tapping screw - Ø4.5 mm - L40 mm - STERILE
ST4.5L45-ST	DTS® self-tapping screw - Ø4.5 mm - L45 mm - STERILE
ST4.5L50-ST	DTS® self-tapping screw - Ø4.5 mm - L50 mm - STERILE
ST4.5L55-ST	DTS® self-tapping screw - Ø4.5 mm - L55 mm - STERILE
ST4.5L60-ST	DTS® self-tapping screw - Ø4.5 mm - L60 mm - STERILE
ST4.5L65-ST	DTS® self-tapping screw - Ø4.5 mm - L65 mm - STERILE
ST4.5L70-ST	DTS® self-tapping screw - Ø4.5 mm - L70 mm - STERILE
ST4.5L75-ST	DTS® self-tapping screw - Ø4.5 mm - L75 mm - STERILE
ST4.5L80-ST	DTS® self-tapping screw - Ø4.5 mm - L80 mm - STERILE
ST4.5L85-ST	DTS® self-tapping screw - Ø4.5 mm - L85 mm - STERILE
ST4.5L90-ST	DTS® self-tapping screw - Ø4.5 mm - L90 mm - STERILE

PLATES

Ref.	Description
ALTDP1-ST	Medial opening wedge HTO plate with ACL replacement - Right - STERILE
ALTGP1-ST	Medial opening wedge HTO plate with ACL replacement - Left - STERILE

INSTRUMENTS REFERENCES

INSTRUMENTS

Ref.	Description	Qty
ANC019	Metallic wedge for knee osteotomy - 6 mm	1
ANC020	Metallic wedge for knee osteotomy - 8 mm	1
ANC021	Metallic wedge for knee osteotomy - 10 mm	1
ANC022	Metallic wedge for knee osteotomy - 12 mm	1
ANC023	Metallic wedge for knee osteotomy - 14 mm	1
ANC024	Handle for metallic wedge and cutting guide	2
ANC025	Metallic wedge for knee osteotomy - 16 mm	1
ANC119-SK	3.0 mm quick coupling hexagonal non prehensor screwdriver	2
ANC120-US	Ø4.2 mm countersink with US quick coupling system	1
ANC210	Length gauge for Ø4.5 mm screws	1
ANC211	Ø4.0 mm quick coupling drill bit	2
ANC212	Ø4.0 mm DTS® TRAUMA drill guide	2
ANC990	Activmotion Meary pliers	1
ANC312	3.0 mm quick coupling hexagonal screwdriver	1
ANC352	Ø6 mm US quick coupling handle	2
ANC601	Spacer Ø10 mm for HTO with ACL replacement	1
ANC649	Spacer Ø8 mm for HTO with ACL replacement	1
33.0222.150	Pin Ø2.2 L150 mm	3

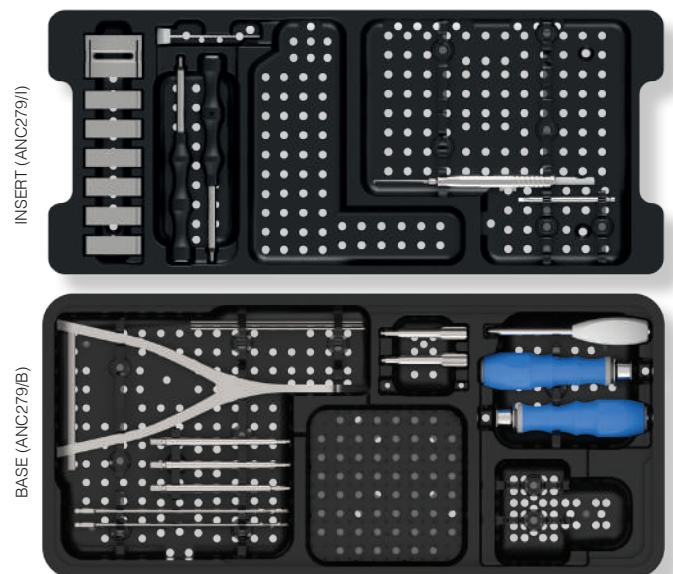
OPTIONAL INSTRUMENTS

Ref.	Description	Qty
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

REMOVAL KIT

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

- ANC119-SK: 3.0 mm quick coupling hexagonal non prehensor screwdriver,
- ANC312: 3.0 mm quick coupling hexagonal screwdriver,
- ANC352: Ø6 mm US quick coupling handle.



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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