

ACTIVMOTION

MEDIAL CLOSING WEDGE

DISTAL FEMORAL OSTEOTOMY



NEWCLIP
TECHNICS

INNOVATION MEANS MOTION

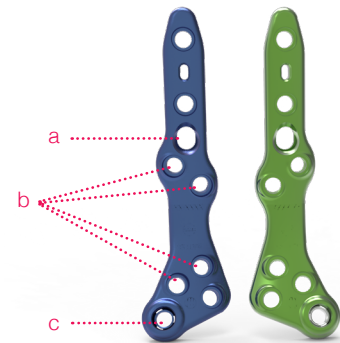
► **Indications:** The Activmotion range is intended for knee osteotomy in adults.

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.

TECHNICAL FEATURES

- **Anatomic asymmetrical implant** (green anodized for right plate and blue anodized for left plate).
- **1 ramp oblong hole** allowing for a simple and controlled compression (a)
- **Offset screw holes** on both sides of the osteotomy site improving the mechanical features of the assembly and preventing loss of angular correction (b),
- **7 monoaxial locking screws** (Oneclip®),
- **1 polyaxial locking screw** (DTS®) allowing to avoid the intercondylar notch, if necessary (c). Possible angulation of the screw before locking (25° locking range) thanks to the DTS® system.



REFERENCES

ACTIVMOTION INSTRUMENTS

Ref.	Description	Qty
ANC014-1	NCT Cutting guide – pièce 1	1
ANC014-2	NCT Cutting guide – pièce 2	1
ANC024	Handle for metallic wedge and cutting guide	2
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
ANC235	HTO Meary pliers	1
ANC312	3.0 mm quick coupling hexagonal screwdriver	1
ANC352	Ø6 mm US quick coupling handle	2
33.0222.150	Pin Ø2.2 L150 mm	3

MEDIAL CLOSING WEDGE DFO PLATE

Ref.	Description
JBTDM1-ST	Medial closing wedge DFO plate - Right - Size 1 - STERILE
JBTGM1-ST	Medial closing wedge DFO plate - Left - Size 1 - STERILE

Ø4.5 MM SCREWS

Ref.	Description
ST4.5Lxx-ST	DTS® self-tapping screw - Ø4.5 mm - STERILE From L24 to L27 (3 mm increments) From L30 mm to L90 mm (5 mm increments)
CT4.5Lxx-ST	Standard cortical screw - Ø4.5 mm - STERILE From L30 mm to 60 mm (5 mm increments)

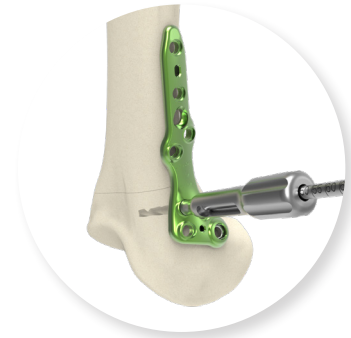
REMOVAL SET

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.

SURGICAL TECHNIQUE

Example with a JBTDm1 plate



1. Perform the osteotomy:

Start the first cut approximately at 5 mm above the patella groove. The cut should end around 10 mm from the lateral cortical bone.

Then perform the proximal 2nd cut:

- Set the chosen correction angle on the cutting guide (ANC014-1 / ANC014-2),
- Insert the blade of the cutting guide into the first cut
- Perform the second osteotomy in the cutting slot with an oscillating saw.

2. Remove the wedge and make sure that every residual bone fragments have been removed from the osteotomy.

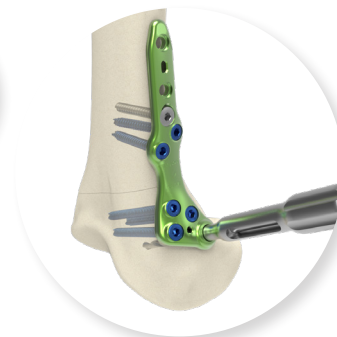
Then, carefully close the osteotomy by applying continuous pressure to the lateral lower limb while stabilizing the knee joint region.

3. Position the plate onto the medial surface of the distal femur. The polyaxial hole must be positioned around 1cm above the insertion of the medial collateral ligament. **It is important to ensure that the bridge area of the plate is located onto the osteotomy site and that the distal screws do not penetrate the joint.**

4. Lock the first Ø4.0 mm drill guide (ANC212) into the hole situated below the osteotomy cut, drill using the Ø4.0 mm drill bit (ANC211). Determine the screw length directly on the drill, at the rear of the Ø4.0 mm drill guide (ANC212).

To ease the insertion of the Ø4.5 mm locking screw, use the countersink (ANC120-US) to widen the first cortex previously drilled. If the insertion of the screw is difficult, remove the screw, countersink, and insert again the screw. Then, insert the Ø4.5 mm locking screw (ST4.5Lxx-ST) using the screwdriver (ANC119-SK). The final tightening of the screws must be performed by hand.

Repeat this procedure with the 2 other distal monoaxial holes.



5. Insert a Ø2.2 mm pin (33.0222.150) into the proximal part of the oblong hole for pin. Drill into the proximal part of the ramp oblong hole using the drill bit (ANC211) and determine the screw length with the length gauge (ANC210).

Insert a standard cortical screw (CT4.5Lxx-ST) and perform compression using the screwdriver (ANC119-SK). Then remove the Ø2.2 mm pin.

6. Proceed similarly to step 4 for the insertion of the Ø4.5 mm locking screws (ST4.5Lxx-ST) into the 2 holes situated above the osteotomy cut.

7. Lock the Ø4.0 mm drill guide (ANC212) into the polyaxial hole. If necessary, adjust the drilling direction in order to avoid the intercondylar notch. Start drilling using the Ø4.0 mm drill bit (ANC211). Determine the screw length directly on the drill, at the rear of the Ø4.0 mm drill guide (ANC212). To ease the insertion of the Ø4.5 mm locking screw (ST4.5Lxx-ST), use the countersink (ANC120-US) to widen the first cortex previously drilled. Then, insert the Ø4.5 mm locking screw (ST4.5Lxx-ST) using the screwdriver (ANC119-SK).

FINAL RESULT

8. Repeat the previous steps to insert the remaining Ø4.5 mm locking screws situated on the proximal part of the plate.

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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