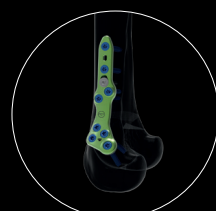
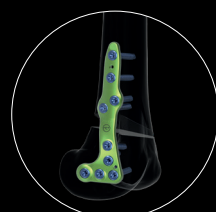
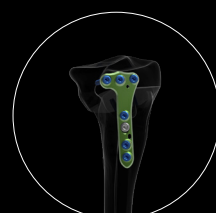
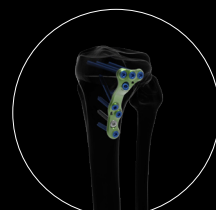
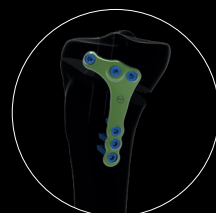
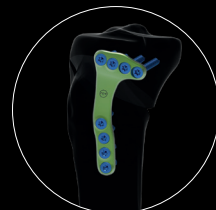
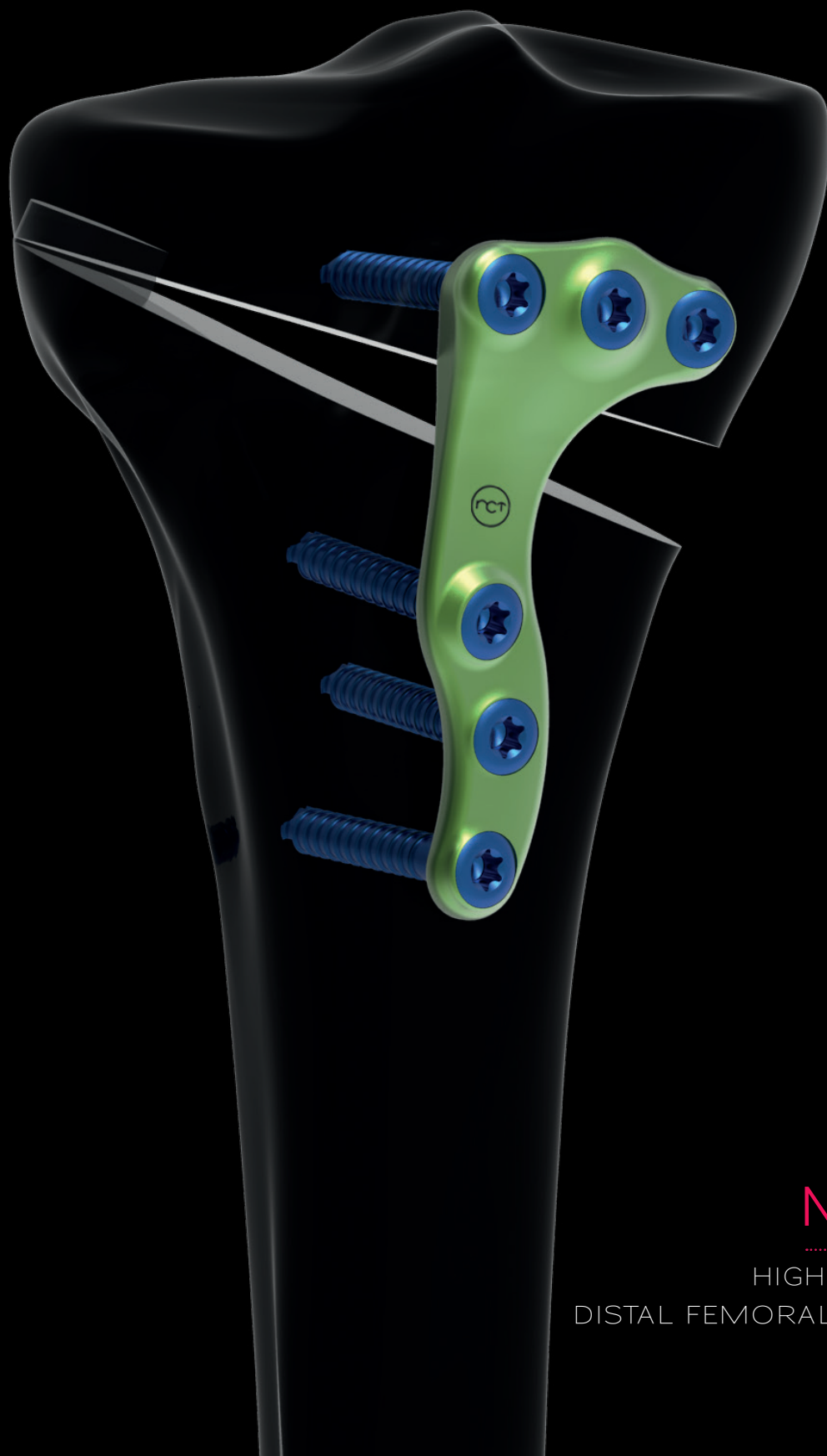




NEWCLIP
TECHNICS



ACTIVE
MOTION

HIGH TIBIAL OSTEOTOMY &
DISTAL FEMORAL OSTEOTOMY PLATES

SURGICAL TECHNIQUE

SUPRA OR TRANS-TUBERCLE TECHNIQUE

Example of the supra-tubercle surgical technique. The trans-tubercle follows the same steps.



4. The guide pins are then removed as well as the bone wedge.
A 2-mm drill bit or the 2.2mm k-wires can be used to create several controlled perforations in the posterior cortex, facilitating atraumatic closure of the osteotomy.
The knee is then gently brought into extension, closing the osteotomy. It is important to perform this maneuver carefully to minimize risk of fracturing the posterior cortex.

5. Position the plate onto the medial surface of the proximal tibia. It is important to ensure that the zone between the distal and proximal screws is located on the osteotomy site and that the proximal screws do not penetrate the joint.

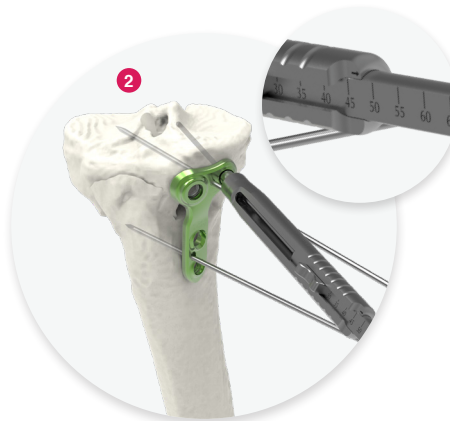
The plate can be temporarily held in position with two Ø2.2 mm pins (33.022.200)
The distal pin must be positioned in the distal part of the oblong pin hole.

6. Lock the Ø4.0 mm drill guide (ANC998) into the monoaxial hole above the osteotomy cut. Then, drill using the Ø4.0 mm drill bit (ANC211).

N.B: to help lock the drill guide in the plate, use the hexagonal part of the screwdriver (ANC975).



ANC975



7. Determine the screw length directly at the rear of the Ø4.0 mm drill guide (ANC998) (1), or with the length gauge (ANC210) (2). When using the length gauge (ANC210) in the epiphyseal part of the bone, please add 3 mm to the markings read.

Then, insert a Ø4.5 mm locking screw (ST4.5LxD-ST) using the screwdriver (ANC975). Final tightening of the screws must be performed by hand.



ANC975

N.B. 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 the screw again.



ANC120-US

8. Lock the Ø4.0 mm drill guide (ANC998) into the polyaxial hole. If necessary, adjust the drilling direction in order to avoid drilling through the tunnel.

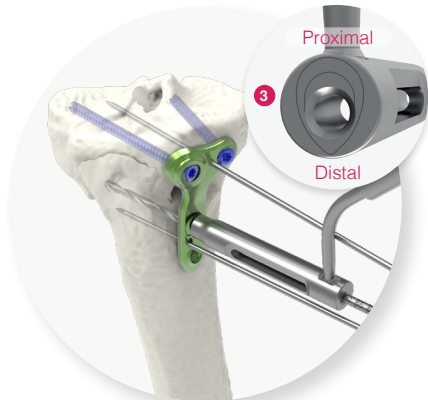
Before drilling, a Ø2.2 mm pin (33.022.200) can be inserted through the reductor of the drill guide (ANC1009).

Start drilling using the Ø4.0 mm drill bit (ANC211).

Repeat the step 7 to measure and insert the locking screw.

SURGICAL TECHNIQUE

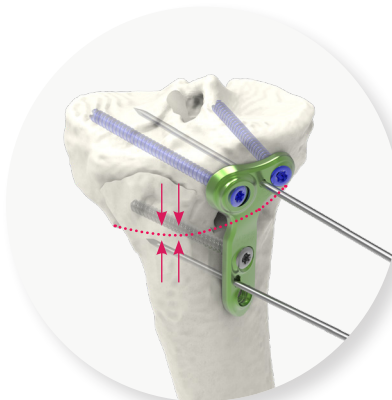
SUPRA OR TRANS-TUBERCLE TECHNIQUE



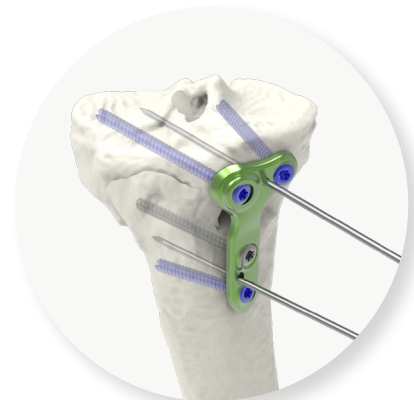
9. Drill into the **distal part of the oblong hole** using the dedicated drill guide (ANC1064) and the **Ø3.5 mm drill bit** (ANC1075). The orientation of the drill guide must be taken into account to allow compression (3). Determine the screw length directly on the drill at the rear of the drill guide or with the length gauge (ANC210).



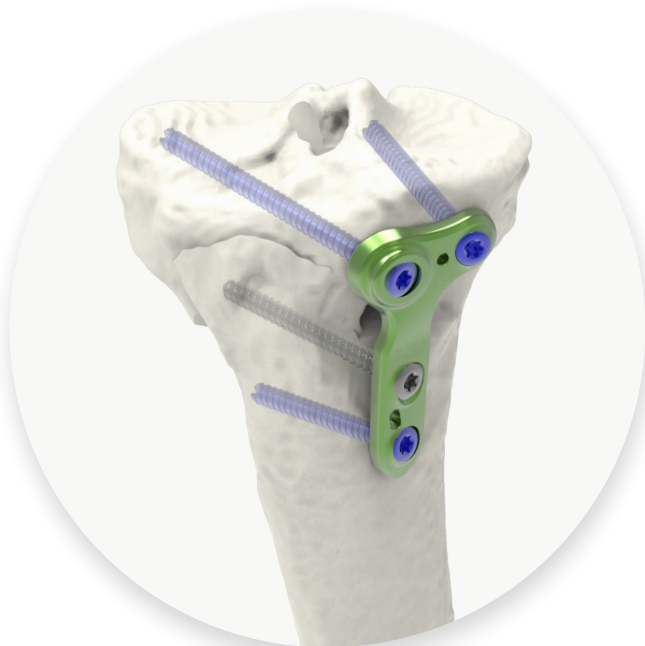
ANC210



10. Insert a Ø4.5 mm non-locking screw (CT4.5LxxD-ST) and perform the compression using the screwdriver (ANC975).



11. Repeat the same procedure as the steps 6 and 7 to insert the remaining Ø4.5 mm locking screw (ST4.5LxxD-ST) into the hole under the osteotomy cut. The pins can then be removed.



FINAL RESULT

For a supra-tubercle technique



FINAL RESULT

For a trans-tubercle technique

NEWCLIP TECHNICS

PA de la Lande Saint Martin
45 rue des Garottières
44115 Haute Goulaine, France
+33 (0)2 28 21 23 25
orders@newcliptechnics.com
www.newcliptechnics.com

NEWCLIP TECHNICS GERMANY

Newclip GmbH
Pröllstraße 11
D-86157 Augsburg, Germany
+49 (0)821 650 749 40
info@newclipgmbh.com
www.newclipgmbh.de

NEWCLIP TECHNICS USA

Newclip USA
642 Larkfield Center
Santa Rosa CA 95403, USA
+1 707 230 5078
customerservice@newclipusa.com
www.newclipusa.com

NEWCLIP TECHNICS AUSTRALIA

Newclip Australia
3B/11 Donkin Street
West End 4101, Australia
+61 (0)2 81 886 110
solutions@newclipaustralia.com
www.newcliptechnics.com

NEWCLIP TECHNICS JAPAN

Newclip Technics Japan K.K.
KKK Bldg. 502, 3-18-1 Asakusabashi
Taito-Ku, Tokyo, 111-0053, Japan
+81 (0)3 58 25 49 81
Fax: +81 (0)3 58 25 49 86
www.newcliptechnics.com

NEWCLIP TECHNICS IBERIA

Newclip Iberia
Calle Frederic Mompou, 4b
Sant Just Desvern, 08960 Barcelona, Spain
+34 938 299 526
contact@newclipiberia.com
www.newcliptechnics.com