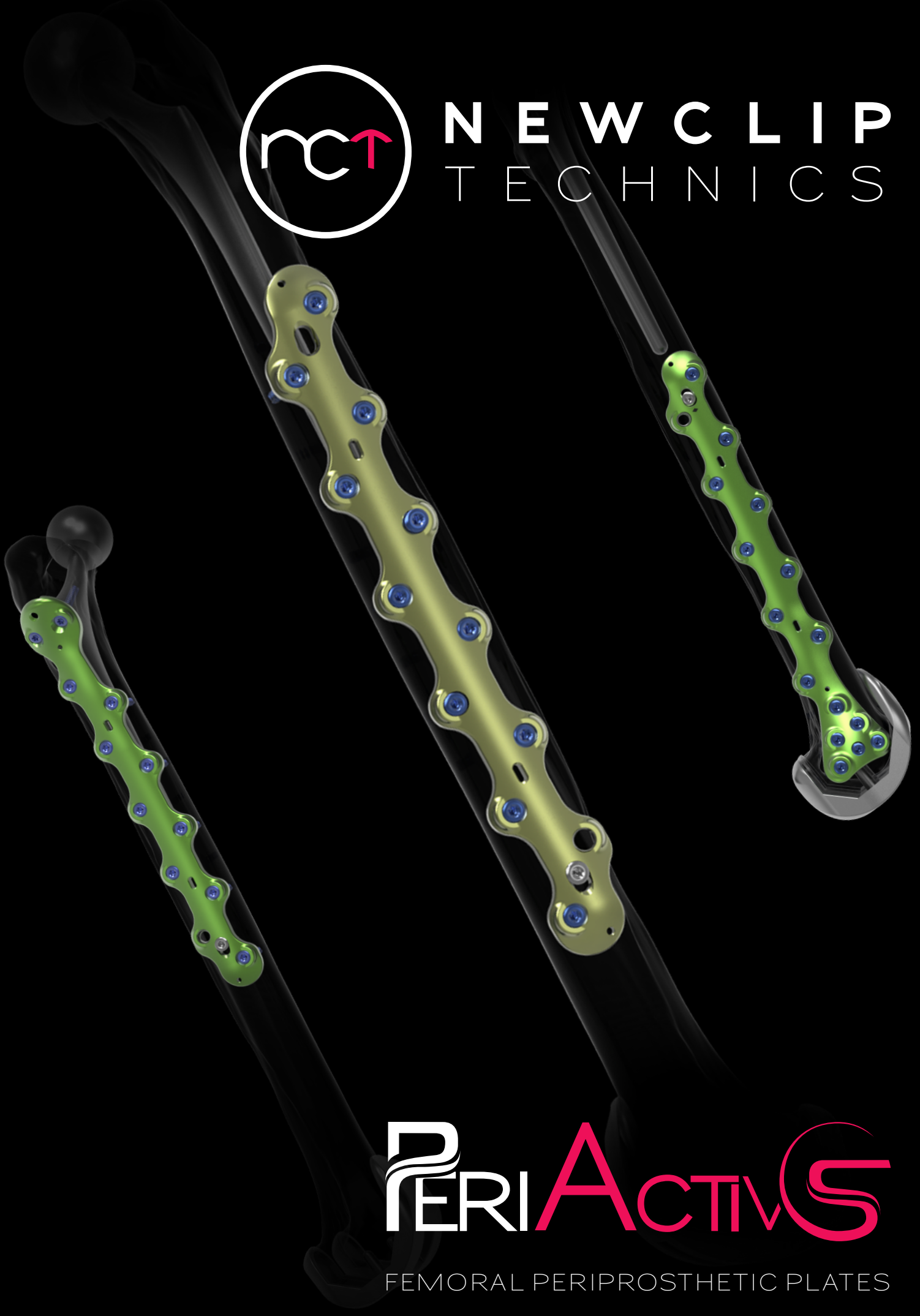
NEWCLIP TECHNICS



PERIACTIVS

FEMORAL PERIPROSTHETIC PLATES

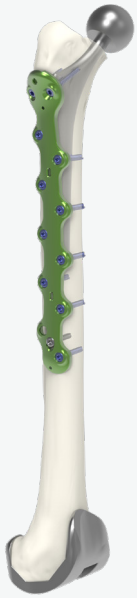
PERIACTIV S

Intended purpose: The implants of the PeriActiv S range are intended for osteosynthesis of femoral periprosthetic fractures in adults.

Contraindications:
- Pregnancy.
- Acute or chronic local or systemic infections.
- Allergy to one of the materials used or sensitivity to foreign bodies.

A DEDICATED RANGE OF PLATES

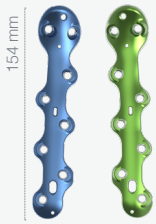
→ PROXIMAL PLATES



Ref: QTDP2D

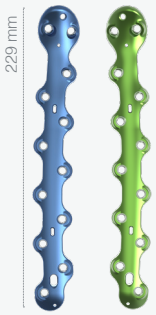
3 asymmetrical sizes available

6 holes



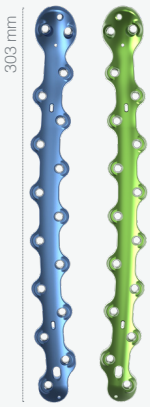
QTGP1D QTDP1D

10 holes



QTGP2D QTDP2D

14 holes



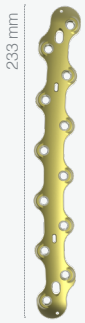
QTGP3D QTDP3D

→ DIAPHYSEAL PLATES

Ref: QTSM1D

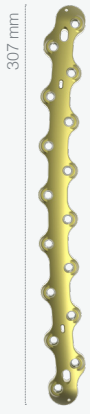
2 symmetrical sizes available

12 holes



QTSM1D

16 holes



QTSM3D

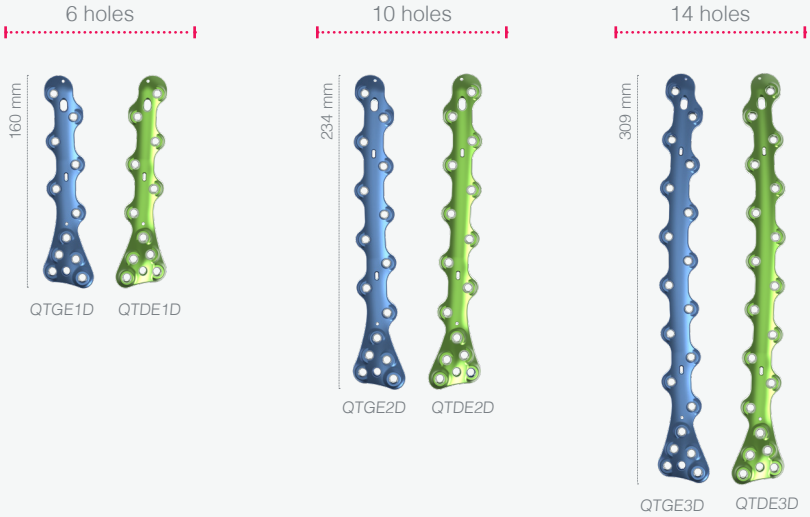
PERIACTIV S

A DEDICATED RANGE OF PLATES

→ DISTAL PLATES

Ref: QTDE2D

3 asymmetrical sizes available

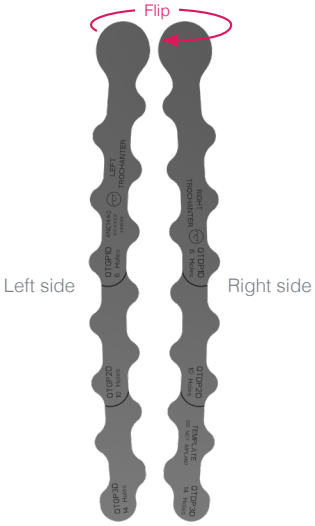


→ TEMPLATES FOR ALL THE PLATES

Templates have been designed to **determine quickly and simply the appropriate plate for each case.**

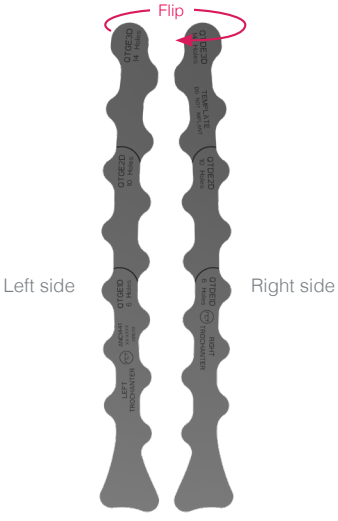
ANC1439: template for periprosthetic midshaft femur plates

1 template for all 2 diaphyseal plates



ANC1440: template for periprosthetic proximal femur plates

1 template for all 6 proximal plates
(one side for left plates, the other side for the right)



ANC1441: template for periprosthetic distal femur plates

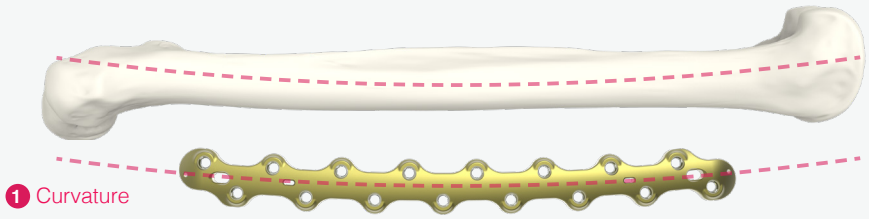
1 template for all 6 distal plates
(one side for left plates, the other side for the right)

TECHNICAL FEATURES

SYSTEM FEATURES

→ ANATOMICAL PLATE

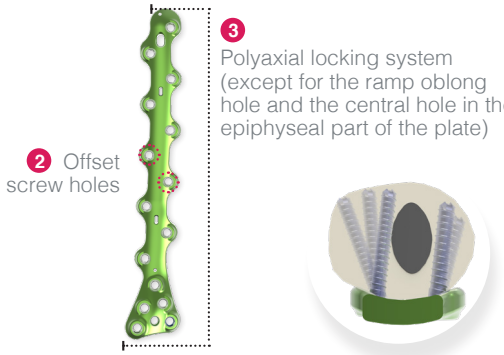
- **Specific design** and **Titanium alloy TA6V** implants for optimized mechanical resistance.
- **Anatomic implants** (yellow anodized for symmetrical plates, green anodized for right plates and blue anodized for left plates): curvature to fit most femoral shafts (1).



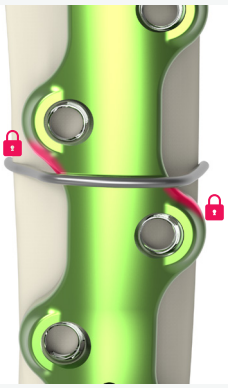
Ref: QTSM3D

→ PLATE FEATURES

- **Offset screw holes** (2) and **polyaxial locking system** (3) allowing to avoid the prosthesis stem along the **entire length of the femoral diaphysis**.

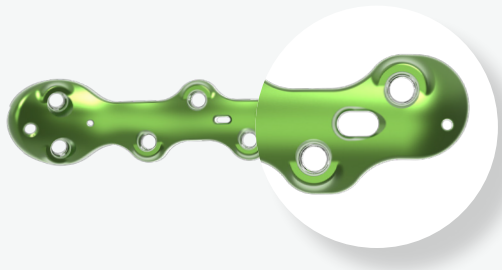


- Versatile implants **compatible** with Stainless steel, Titanium, Cobalt Chromium alloy or Polymer **cerclage cables:** specific design to allow **cerclage positioning** and **prevent translation**.

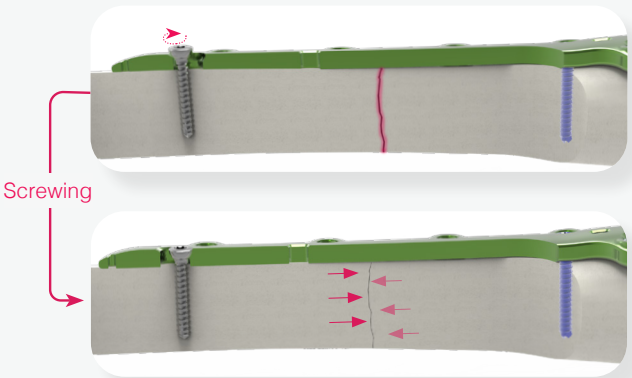


→ COMPRESSIVE RAMP OBLONG HOLE

The ramp oblong hole* allows a simple and controlled compression by the screw/plate interface.



*present on all plates

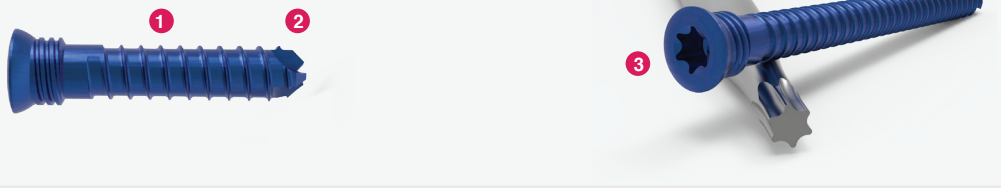


TECHNICAL FEATURES

FIXATION FEATURES

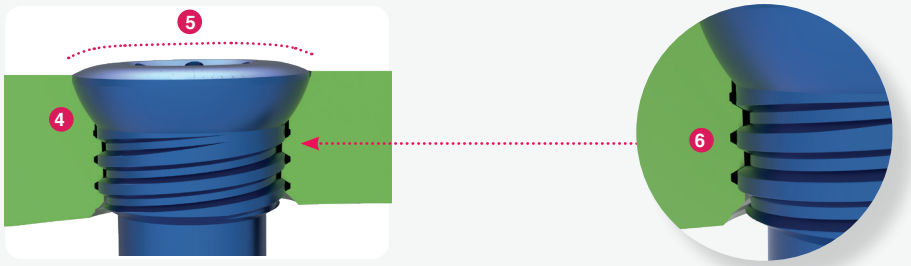
→ SCREW TECHNICAL FEATURES

- Ø4.5 mm reinforced core screws for optimized mechanical stability (1).
- Self-tapping systems to help for insertion (2).
- Hexalobular T20 (3).



→ LOCKING SYSTEM FEATURE

- **Low profile construct:**
  - The screw is stopped in the hole by its cap, insuring the locking (4).
  - The screw head is buried in the plate (5) to minimize the risk of soft tissue irritation.
  - Coaptation of both profiles when locking (6).
  - Plate and screws made from the same material: titanium alloy.



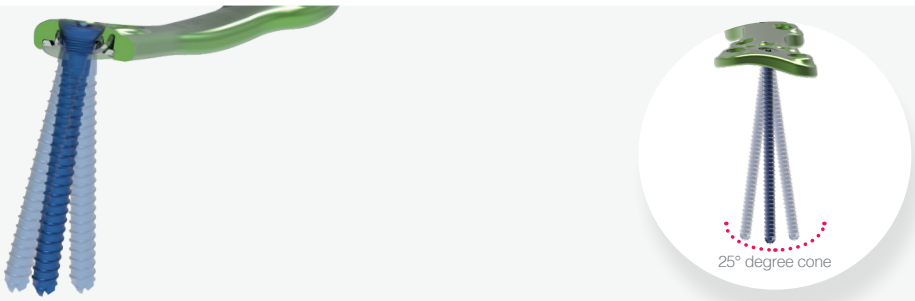
The threads under the screw head and inside the hole have the same characteristics

- **Monoaxial locking fixation**

  Oneclip®: patented design.

- **Polyaxial locking fixation**

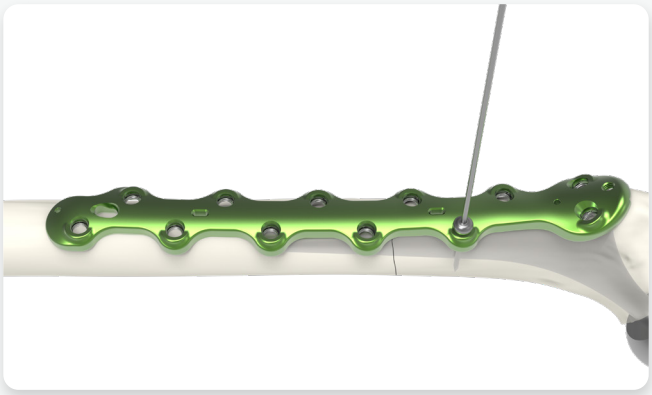
  The DTS system (patented design) allows the screw to lock into the plate while permitting an angulation of the screw.
  Newclip Technics plates combine both polyaxial and locking technologies to create a fixed-angle construct.
  Possible angulation of the screw before locking (25° locking range) thanks to the DTS® System to avoid the joint or a prosthesis.



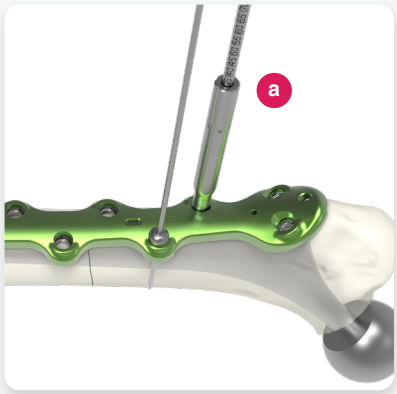
PROXIMAL PLATE (PAGE 1/2)

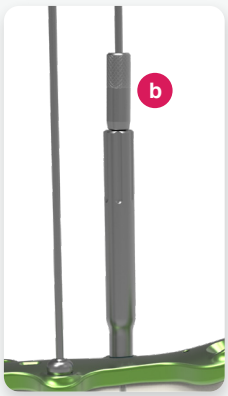
Example using the periprosthetic proximal femur size 2 plate (QTDP2D)

1. Position the plate onto the lateral surface of the proximal femur.



2. Stabilize the plate using the pins (ANC1442) and/or the olive pins (ANC1444).



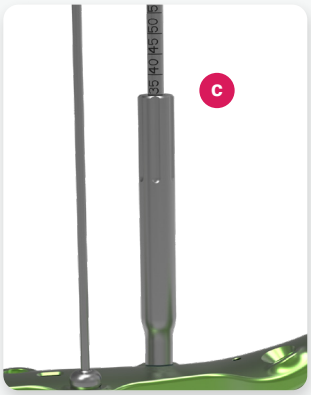


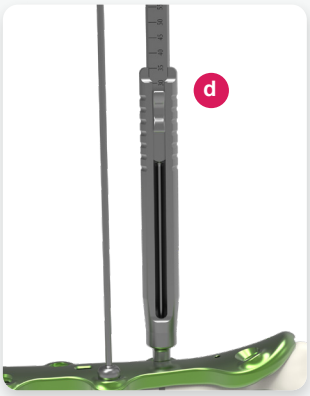
3. Lock the Ø4.0 mm drill guide (ANC998) into a polyaxial hole proximal to the fracture. If necessary, adjust the drilling direction in order to avoid the prosthesis stem. Start drilling using the Ø4.0 mm drill bit (ANC211) (a).

   Before drilling, the plate can be temporarily maintained in position with Ø2.2 mm pins (ANC1442) inserted through the reductor of the drill guide (ANC1009) (b).

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

ANC975



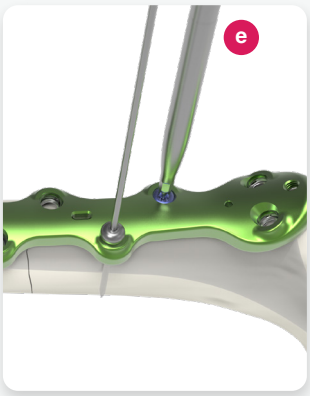


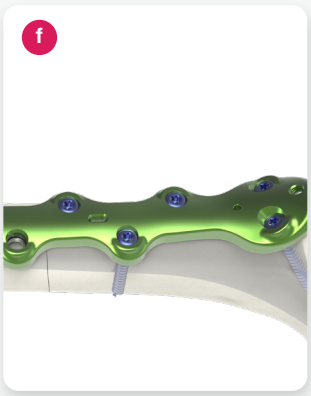
4. The screw length can be directly read on the drill at the rear of the drill guide (c) or thanks to the length gauge (ANC210) (d).

   When using the length gauge (ANC210) in the epiphyseal part of the bone, please add 3 mm to the markings read.

ANC210

PROXIMAL PLATE (PAGE 2/2)



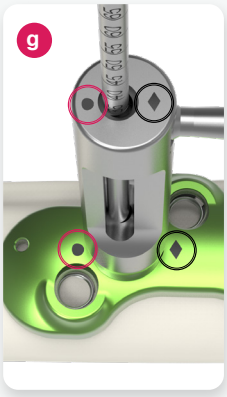


5. Insert and lock the Ø4.5 mm screw (ST4.5LxxD-ST) using the screwdriver (ANC975). Final tightening of the screws must be performed by hand (e).

   Proceed similarly for the insertion of the screws into the holes situated proximally to the fracture (f).

   N.B. *To ease the insertion of the screws, 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



6. If not already in position, insert a Ø2.2 mm pin (ANC1442) into the **distal part of the oblong hole for pin**. Drill into the **distal part of the ramp oblong hole** using the dedicated drill guide (ANC1443) and the Ø3.5 mm drill bit (ANC1075). The orientation of the drill guide must be taken into account to allow compression (g).

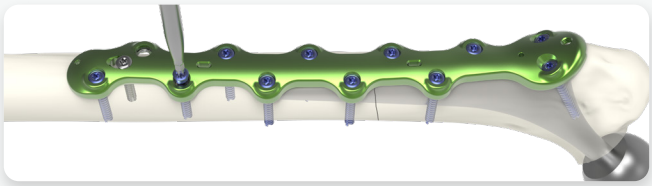
   Determine the screw length directly on the drill at the rear of the drill guide or with the length gauge (ANC210). When using the length gauge (ANC210) in the epiphyseal part of the bone, please add 3 mm to the markings read.

ANC210

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

ANC975

   Then remove the Ø2.2 mm pin.



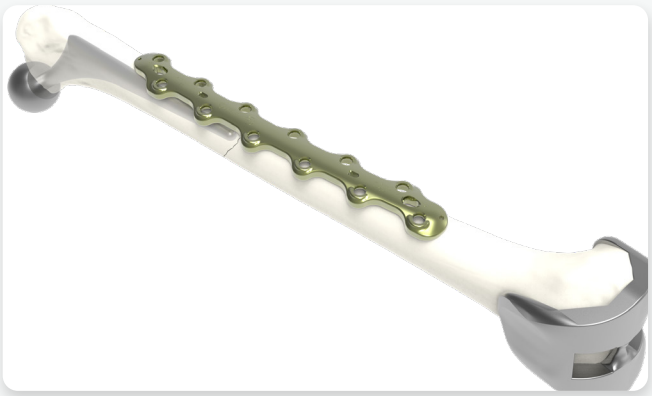
7. Repeat the same procedure as the steps 3, 4 and 5 for the insertion of the Ø4.5 mm locking screws (ST4.5LxxD-ST) into the remaining holes.

   WARNING: If the ramp oblong hole is used, insert only one of the two screws in the holes surrounding it, as a diagonal three hole pattern could create a stress riser in the bone.

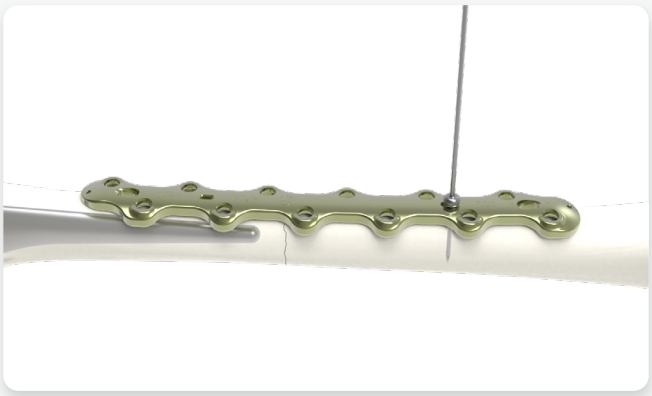
FINAL RESULT

DIAPHYSEAL PLATE (PAGE 1/2)

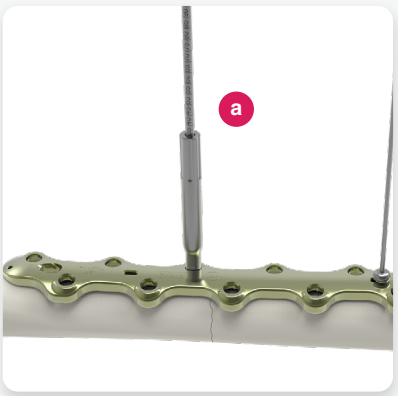
Example using the periprosthetic midshaft femur size 1 plate (QTSM1D)

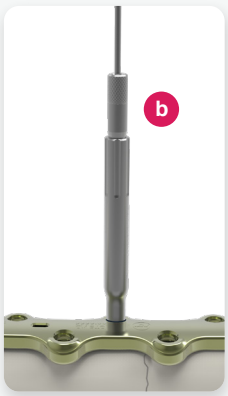


1. Position the plate onto the lateral surface of the femur.



2. Stabilize the plate using the pins (ANC1442) and/or the olive pins (ANC1444).



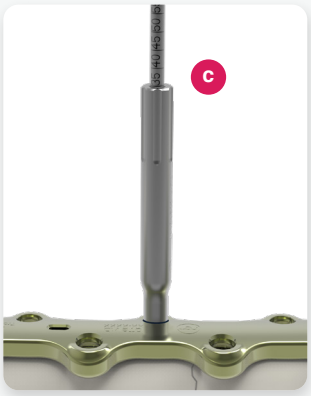


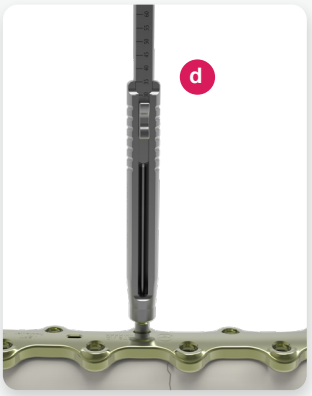
3. Lock the Ø4.0 mm drill guide (ANC998) into a polyaxial hole proximal to the fracture. If necessary, adjust the drilling direction in order to avoid the prosthesis stem. Start drilling using the Ø4.0 mm drill bit (ANC211) (a).

   Before drilling, the plate can be temporarily maintained in position with Ø2.2 mm pins (ANC1442) inserted through the reductor of the drill guide (ANC1009) (b).

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

ANC975



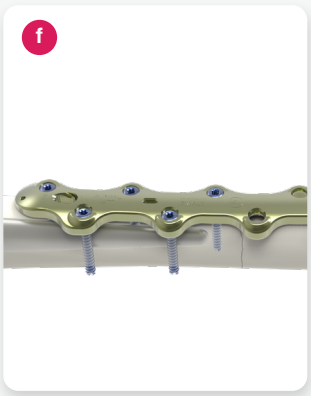


4. The screw length can be directly read on the drill at the rear of the drill guide (c) or thanks to the length gauge (ANC210) (d).

   When using the length gauge (ANC210) in the epiphyseal part of the bone, please add 3 mm to the markings read.

ANC210

DIAPHYSEAL PLATE (PAGE 2/2)

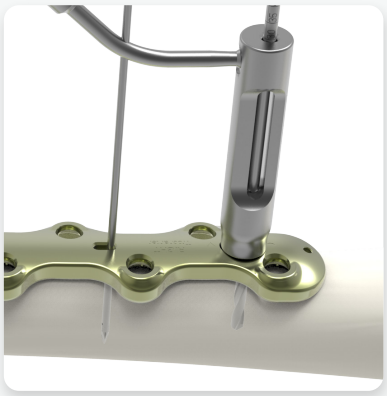


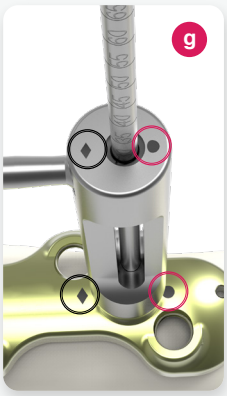
5. Insert and lock the Ø4.5 mm screw (ST4.5LxxD-ST) using the screwdriver (ANC975). Final tightening of the screws must be performed by hand (e).

   Proceed similarly for the insertion of the screws into the holes situated proximally to the fracture (f).

   N.B. *To ease the insertion of the screws, 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





6. If not already in position, insert a Ø2.2 mm pin (ANC1442) into the **distal part of the oblong hole for pin**. Drill into the **distal part of the ramp oblong hole** using the dedicated drill guide (ANC1443) and the Ø3.5 mm drill bit (ANC1075). The orientation of the drill guide must be taken into account to allow compression (g).

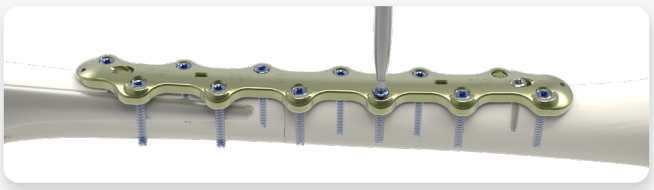
   Determine the screw length directly on the drill at the rear of the drill guide or with the length gauge (ANC210). When using the length gauge (ANC210) in the epiphyseal part of the bone, please add 3 mm to the markings read.

ANC210

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

ANC975

   Then remove the Ø2.2 mm pin.



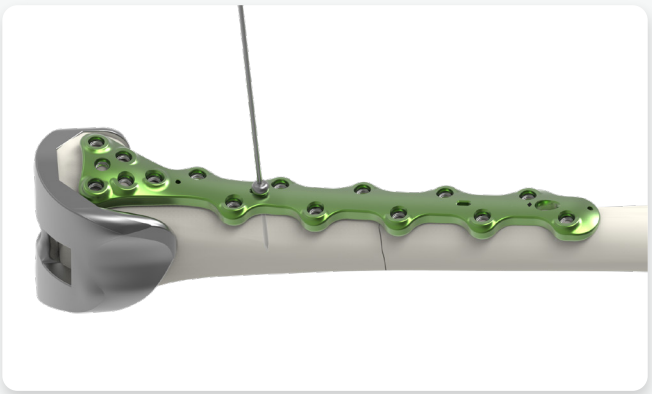
7. Repeat the same procedure as the steps 3, 4 and 5 for the insertion of the Ø4.5 mm locking screws (ST4.5LxxD-ST) into the remaining holes.

   WARNING: If the ramp oblong hole is used, insert only one of the two screws in the holes surrounding it, as a diagonal three hole pattern could create a stress riser in the bone.

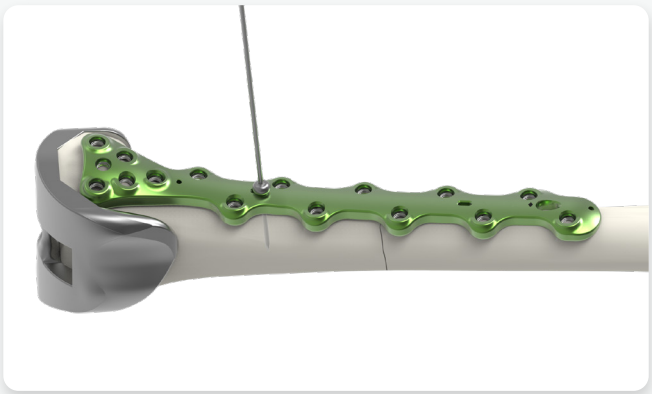
FINAL RESULT

DISTAL PLATE (PAGE 1/2)

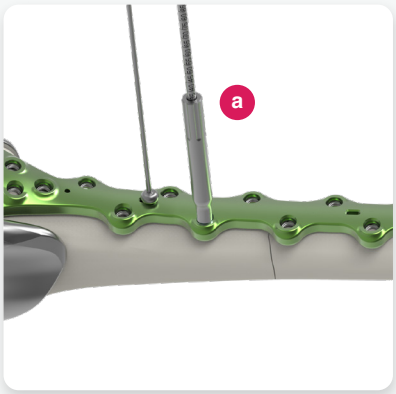
Example using the periprosthetic distal femur size 2 plate (QTDE2D)

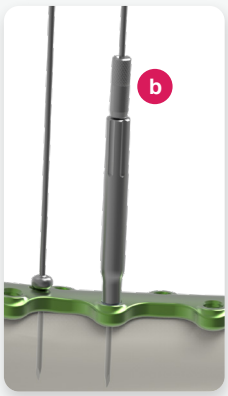


1. Position the plate onto the lateral surface of the distal femur.



2. Stabilize the plate using the pins (ANC1442) and/or the olive pins (ANC1444).



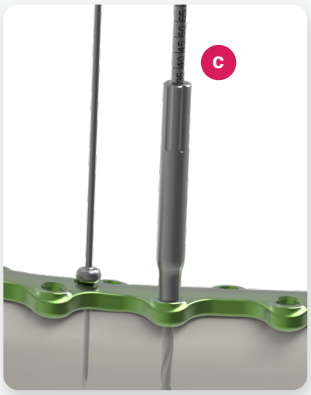


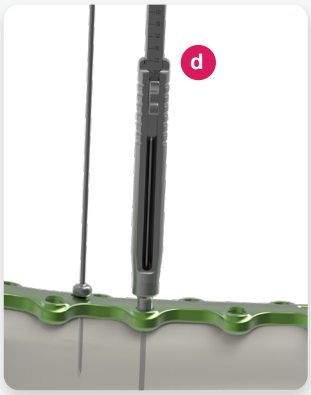
3. Lock the Ø4.0 mm drill guide (ANC998) into a polyaxial hole distal to the fracture. If necessary, adjust the drilling direction in order to avoid the prosthesis stem. Start drilling using the Ø4.0 mm drill bit (ANC211) (a).

   Before drilling, the plate can be temporarily maintained in position with Ø2.2 mm pins (ANC1442) inserted through the reductor of the drill guide (ANC1009) (b).

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

ANC975



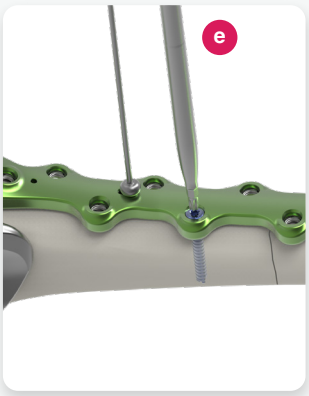


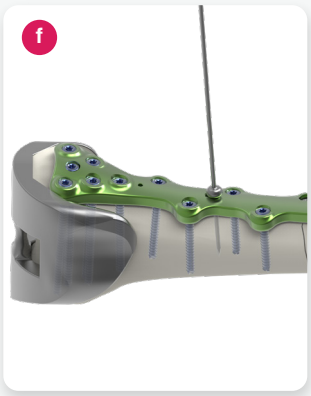
4. The screw length can be directly read on the drill at the rear of the drill guide (c) or thanks to the length gauge (ANC210) (d).

   When using the length gauge (ANC210) in the epiphyseal part of the bone, please add 3 mm to the markings read.

ANC210

DISTAL PLATE (PAGE 2/2)



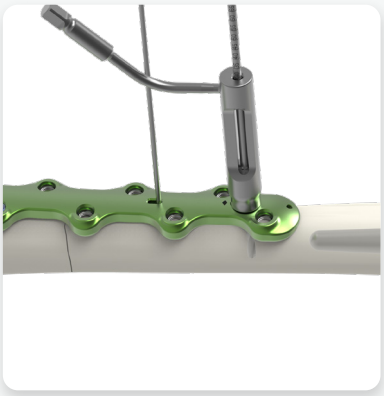


5. Insert and lock the Ø4.5 mm screw (ST4.5LxxD-ST) using the screwdriver (ANC975). Final tightening of the screws must be performed by hand (e).

   Proceed similarly for the insertion of the screws into the holes situated distally to the fracture. If necessary, adjust the drilling direction in order to avoid the prosthesis stem and the intercondylar notch. Note that the central hole in the epiphyseal part of the plate is monoaxial (f).

   N.B. *To ease the insertion of the screws, 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



6. If not already in position, insert a Ø2.2 mm pin (ANC1442) into the **proximal part of the oblong hole for pin**. Drill into the **proximal part of the ramp oblong hole** using the dedicated drill guide (ANC1443) and the Ø3.5 mm drill bit (ANC1075). The orientation of the drill guide must be taken into account to allow compression (g).

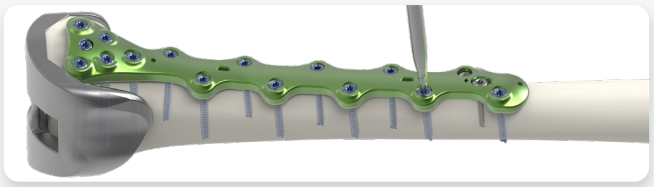
   Determine the screw length directly on the drill at the rear of the drill guide or with the length gauge (ANC210). When using the length gauge (ANC210) in the epiphyseal part of the bone, please add 3 mm to the markings read.

ANC210

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

ANC975

   Then remove the Ø2.2 mm pin.

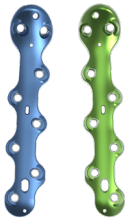


7. Repeat the same procedure as the steps 3, 4 and 5 for the insertion of the Ø4.5 mm locking screws (ST4.5LxxD-ST) into the remaining holes.

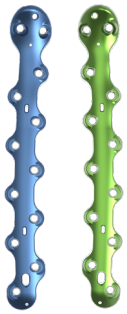
   WARNING: If the ramp oblong hole is used, insert only one of the two screws in the holes surrounding it, as a diagonal three hole pattern could create a stress riser in the bone.

FINAL RESULT

IMPLANT REFERENCES



QTxP1D-ST



QTxP2D-ST

QTxP3D-ST

PROXIMAL PLATES

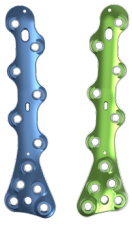
Ref.	Description
QTGP1D-ST	Periprosthetic proximal femur plate - Left - 6 holes - STERILE
QTDP1D-ST	Periprosthetic proximal femur plate - Right - 6 holes - STERILE
QTGP2D-ST	Periprosthetic proximal femur plate - Left - 10 holes - STERILE
QTDP2D-ST	Periprosthetic proximal femur plate - Right - 10 holes - STERILE
QTGP3D-ST	Periprosthetic proximal femur plate - Left - 14 holes - STERILE
QTDP3D-ST	Periprosthetic proximal femur plate - Right - 14 holes - STERILE

QTSM1D-ST

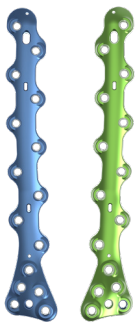
QTSM3D-ST

DIAPHYSEAL PLATES

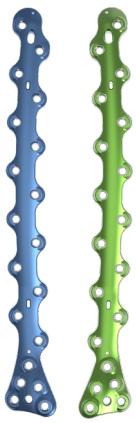
Ref.	Description
QTSM1D-ST	Periprosthetic midshaft femur plate - Symmetrical - 12 holes - STERILE
QTSM3D-ST	Periprosthetic midshaft femur plate - Symmetrical - 16 holes - STERILE



QTxE1D-ST



QTxE2D-ST



QTxE3D-ST

DISTAL PLATES

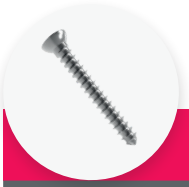
Ref.	Description
QTGE1D-ST	Periprosthetic distal femur plate - Left - 6 holes - STERILE
QTDE1D-ST	Periprosthetic distal femur plate - Right - 6 holes - STERILE
QTGE2D-ST	Periprosthetic distal femur plate - Left - 10 holes - STERILE
QTDE2D-ST	Periprosthetic distal femur plate - Right - 10 holes - STERILE
QTGE3D-ST	Periprosthetic distal femur plate - Left - 14 holes - STERILE
QTDE3D-ST	Periprosthetic distal femur plate - Right - 14 holes - STERILE

IMPLANT REFERENCES

Ø4.5 MM REINFORCED CORE LOCKING SCREWS*

Ref.	Description
ST4.5L15D-ST	Ø4.5 mm reinforced core locking screw - L15 mm - STERILE
ST4.5L18D-ST	Ø4.5 mm reinforced core locking screw - L18 mm - STERILE
ST4.5L21D-ST	Ø4.5 mm reinforced core locking screw - L21 mm - STERILE
ST4.5L24D-ST	Ø4.5 mm reinforced core locking screw - L24 mm - STERILE
ST4.5L27D-ST	Ø4.5 mm reinforced core locking screw - L27 mm - STERILE
ST4.5L30D-ST	Ø4.5 mm reinforced core locking screw - L30 mm - STERILE
ST4.5L35D-ST	Ø4.5 mm reinforced core locking screw - L35 mm - STERILE
ST4.5L40D-ST	Ø4.5 mm reinforced core locking screw - L40 mm - STERILE
ST4.5L45D-ST	Ø4.5 mm reinforced core locking screw - L45 mm - STERILE
ST4.5L50D-ST	Ø4.5 mm reinforced core locking screw - L50 mm - STERILE
ST4.5L55D-ST	Ø4.5 mm reinforced core locking screw - L55 mm - STERILE
ST4.5L60D-ST	Ø4.5 mm reinforced core locking screw - L60 mm - STERILE
ST4.5L65D-ST	Ø4.5 mm reinforced core locking screw - L65 mm - STERILE
ST4.5L70D-ST	Ø4.5 mm reinforced core locking screw - L70 mm - STERILE
ST4.5L75D-ST	Ø4.5 mm reinforced core locking screw - L75 mm - STERILE
ST4.5L80D-ST	Ø4.5 mm reinforced core locking screw - L80 mm - STERILE
ST4.5L85D-ST	Ø4.5 mm reinforced core locking screw - L85 mm - STERILE
ST4.5L90D-ST	Ø4.5 mm reinforced core locking screw - L90 mm - STERILE

* Blue anodized



Ø4.5 MM NON-LOCKING SCREWS*

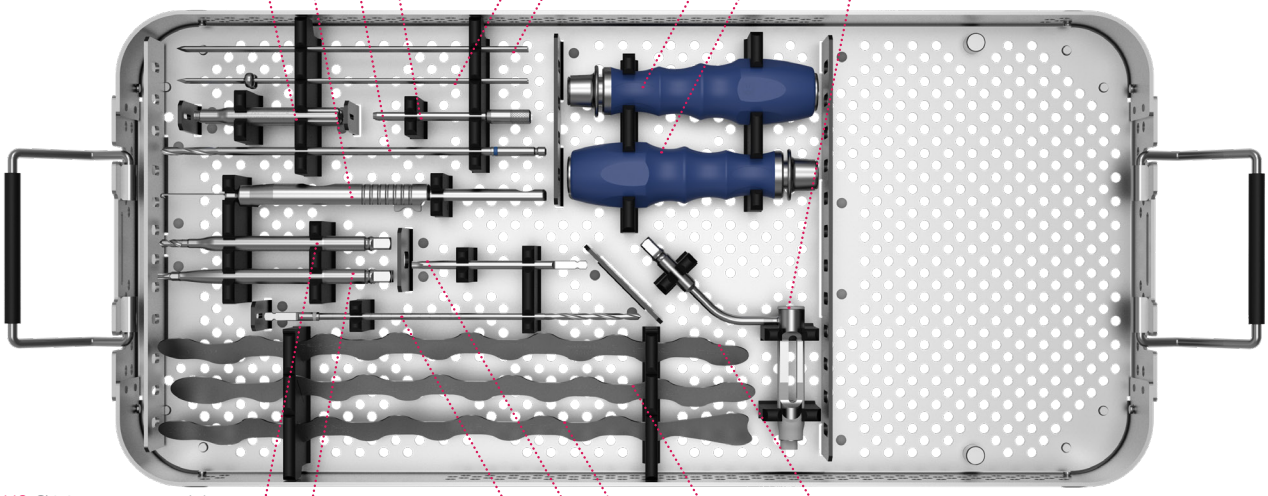
Ref.	Description
CT4.5L30D-ST	Ø4.5 mm non-locking screw - L30 mm - STERILE
CT4.5L35D-ST	Ø4.5 mm non-locking screw - L35 mm - STERILE
CT4.5L40D-ST	Ø4.5 mm non-locking screw - L40 mm - STERILE
CT4.5L45D-ST	Ø4.5 mm non-locking screw - L45 mm - STERILE
CT4.5L50D-ST	Ø4.5 mm non-locking screw - L50 mm - STERILE
CT4.5L55D-ST	Ø4.5 mm non-locking screw - L55 mm - STERILE
CT4.5L60D-ST	Ø4.5 mm non-locking screw - L60 mm - STERILE

* Non anodized

INSTRUMENT REFERENCES

INSTRUMENTS		
Ref.	Description	Qty
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
ANC352	Ø6 mm US quick coupling handle	2
ANC975	T20 screwdriver with US quick coupling system	2
ANC980	T20 screwdriver with AO quick coupling system	1
ANC1009	Reductor of drill guide for Ø2.2 mm pin	2
ANC1075	Ø3.5 mm quick coupling drill bit - L195 mm	1
ANC1439	Template for periprosthetic midshaft femur plate - Symmetrical - 12 / 16 holes (QTSMxD)	1
ANC1440	Template for periprosthetic proximal femur plate - Left & Right - 6 / 10 / 14 holes (QTxPxD)	1
ANC1441	Template for periprosthetic distal femur plate - Left & Right - 6 / 10 / 14 holes (QTxExD)	1
ANC1442	Pin Ø2.2 - L180 mm	6
ANC1443	Ø3.5 mm non threaded bent guide gauge	1
ANC1444	Olive pin Ø2.2 - L180 mm	2
ANC998	Ø4.0 mm threaded guide gauge for Ø4.5 mm screws	2

KIT DESCRIPTION



ANC1009 Reductor of drill guide for Ø2.2 mm pin (x2)

ANC211 Ø4.0 mm quick coupling drill bit (x2)

ANC210 Length gauge for Ø4.5 mm screws

ANC998 Ø4.0 mm threaded guide gauge for Ø4.5 mm screws (x2)

ANC120-US Ø4.2 mm countersink with US quick coupling system

ANC975 T20 screwdriver with US quick coupling system (x2)

ANC1444 Olive pin Ø2.2 - L180 mm (x2)

ANC1442 Pin Ø2.2 - L180 mm (x6)

ANC352 Ø6 mm US quick coupling handle (x2)

ANC1443 Ø3.5 mm non threaded bent guide gauge

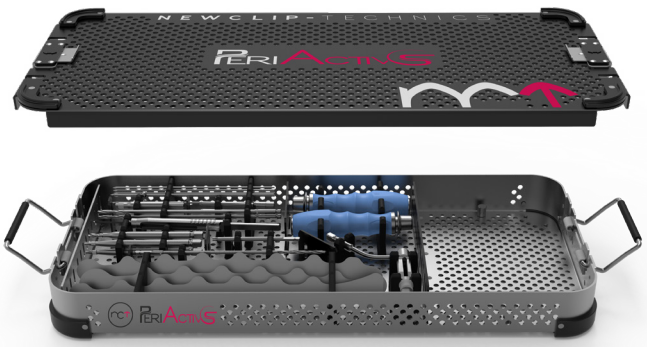
ANC1439 Template for periprosthetic midshaft femur plate - Symmetrical - 12 / 16 holes (QTSMxD)

ANC1440 Template for periprosthetic proximal femur plate - Left & Right - 6 / 10 / 14 holes (QTxPxD)

ANC1441 Template for periprosthetic distal femur plate - Left & Right - 6 / 10 / 14 holes (QTxExD)

ANC980 T20 screwdriver with AO quick coupling system

ANC1075 Ø3.5 mm quick coupling drill bit - L195 mm



Manufacturer: Newclip Technics - Brochure EN - Periactiv S - Ed.2 - 01/2023 - Medical devices: class IIb - CE1639 SGS BE

NEWCLIP TECHNICS

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
340 Tesconi Circle Suite A
Santa Rosa, CA 95401

+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

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