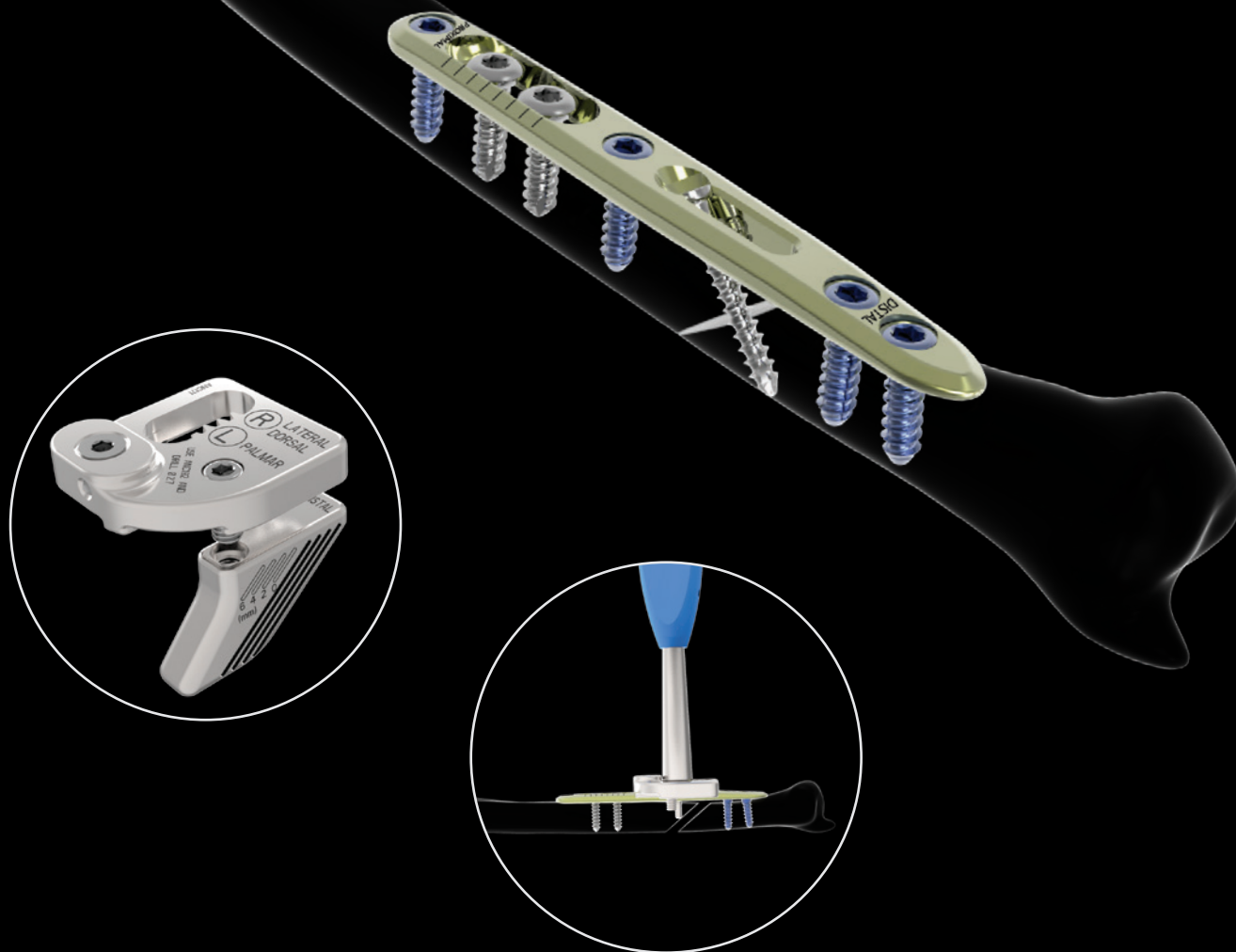




NEWCLIP-TECHNICS

INNOVATION MEANS MOTION



## ALIANS FOREARM FOREARM/CUTTING AND COMPRESSION DEVICE

MONOAXIAL LOCKING SYSTEM  
*ONECLIP*®

- ▶ Ulnar shortening osteotomy plate
- ▶ Rack-and-pinion compression device
- ▶ Ø2.8 mm interfragmentary cortical screw
- ▶ Low-profile locking forearm plates

# ALIANS FOREARM

The ALIANS FOREARM range of plates includes two types of plates designed for orthopaedic surgery and trauma treatment of forearm fractures:



## ▶ ALIANS MIDSHAFT

Locking plates for forearm shaft fractures



## ▶ ALIANS ULNA

Locking plate for ulnar shortening osteotomy

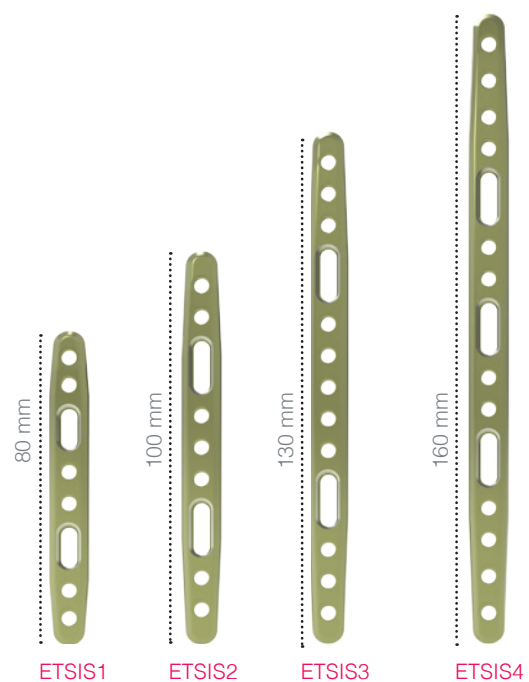
## ALIANS MIDSHAFT

### → TRAUMA INDICATIONS

- ▶ Fixation of forearm shaft fractures
- ▶ Fixation of forearm shaft non-unions

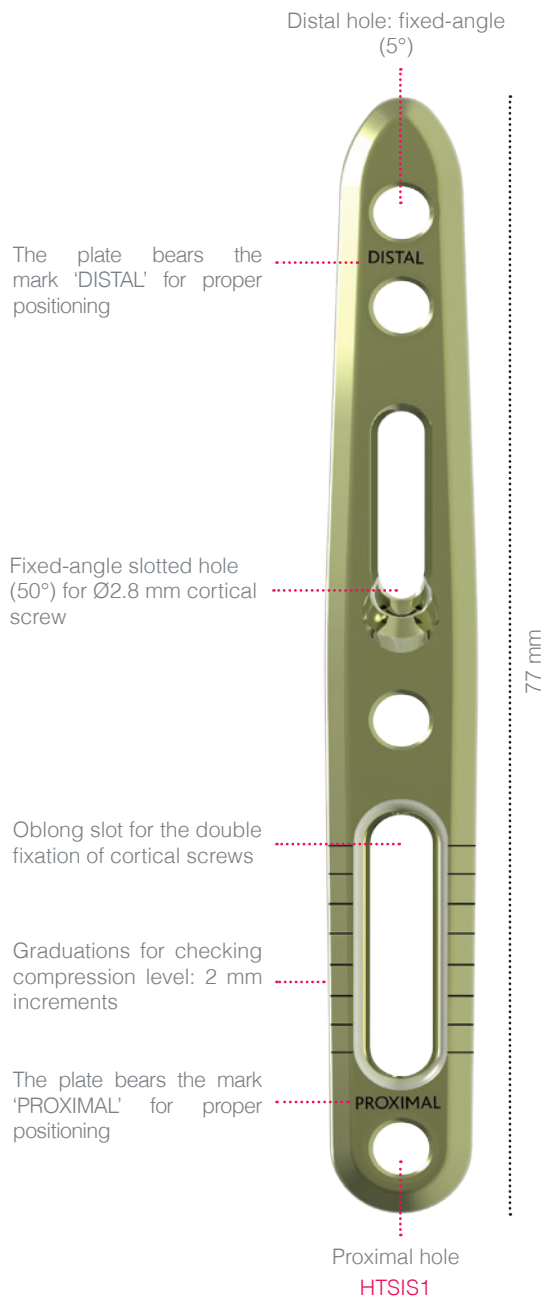
### → TECHNICAL FEATURES

- ▶ **Ø3.5mm monoaxial fixation:**
  - Cortical screw (CT3.5Lxx)
  - Locking screw (SOT3.5Lxx)
  - Non-locking screw (QOT3.5Lxx)
- ▶ **4 plates** with 8, 9, 13 or 15 holes
- ▶ **Symmetrical plates**



# ALIANS FOREARM

## ALIANS ULNA



### → INDICATION FOR SCHEDULED SURGERY

- Ulnar shortening osteotomy

### → TECHNICAL FEATURES

- **Anatomically contoured implant:** the edges and tips of the implant are rounded to minimize soft tissue irritation.
- **Symmetrical plate**
- **Marks** appearing on the implant:
  - Proximal and distal ends
  - Graduations for checking compression level

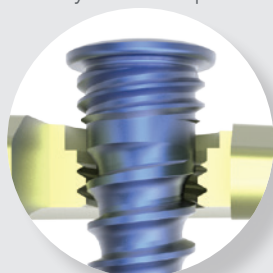
### → MONOAXIAL FIXATION

- Ø3.5 mm cortical screw for proximal oblong slot (CT3.5Lxx)
- Ø3.5 mm locking screw (SOT3.5Lxx)
- Ø2.8 mm cortical screw for pre-angled central hole (CT2.8Lxx)

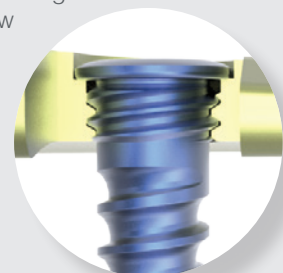
## SELF-LOCKING SYSTEM

The threaded sections under the screw head and inside the hole have strictly the same profile:

- Cylindrical internal thread profile.
- Cylindrical external thread profile.



- Perfect coaptation of both profiles when locking.
- Minimum distortion or damage of the threaded section under the screw head.



The specific features of the Newclip Technics locking screws make the removal of implants easier.

# ALIANS ULNA : CUTTING AND COMPRESSION DEVICE

## COMPONENTS

- **2 blocks** (ANC171 and ANC172) to choose the side of the resection (right or left) and the approach (lateral, dorsal or palmar/volar)
  - A written indication of the corresponding side / approach: depending on the chosen side, these indications help determine the appropriate block and assemble the cutting and compression device.
  - A rack-and-pinion system allowing for optimal compression of the osteotomy sites.

- **2 cutting guides** (ANC171/1 and ANC171/2) enabling 0 to 6 mm resection.
  - Each cutting guide bears the mark "DISTAL" for appropriate positioning on the block.

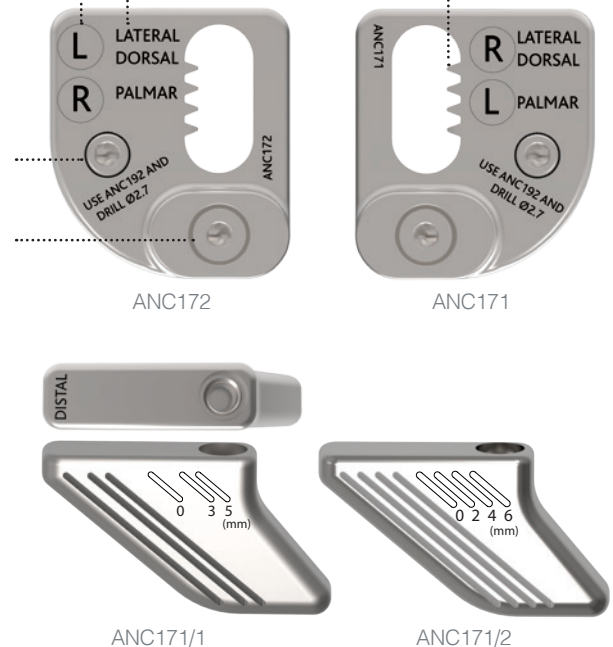
The block should be chosen according to :

- The side: right or left
- The selected approach: lateral, dorsal or palmar (volar)

Rack-and-pinion system

Block – cutting guide fixation screws

Block – Alians Ulna plate fixation screws



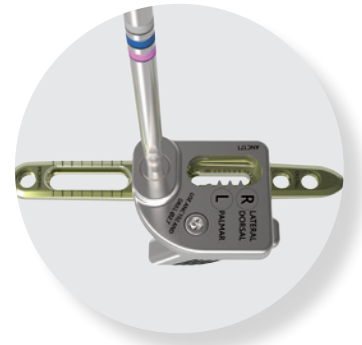
## ASSEMBLING



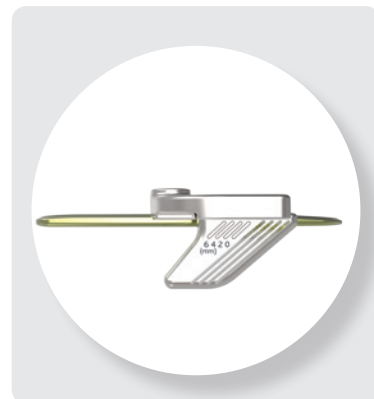
1. Choose one of the two blocks (ANC171 or ANC172) depending on the operated side (left or right) and selected approach (lateral, dorsal or palmar/volar).

The illustration opposite presents a palmar/volar approach on a left ulna. Choose the appropriate cutting guide (ANC171/1 or ANC171/2) depending on the resection to be performed.

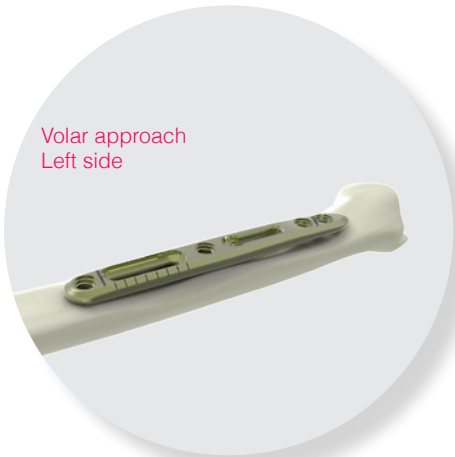
Insert the cutting guide into the block and fasten it using the pre-assembled screw provided.



2. To perform the resection, adjust and secure the cutting and compression device to the plate. Introduce and tighten the screw of the block into the appropriate hole of the plate using the ANC083C screwdriver.



# ALIANS ULNA : SURGICAL TECHNIQUE



1. Position the plate on the most distal part of the ulna making sure that the "distal-proximal" marks are correctly matched. The approach used and positioning of the plate may be lateral, dorsal or palmar (volar).



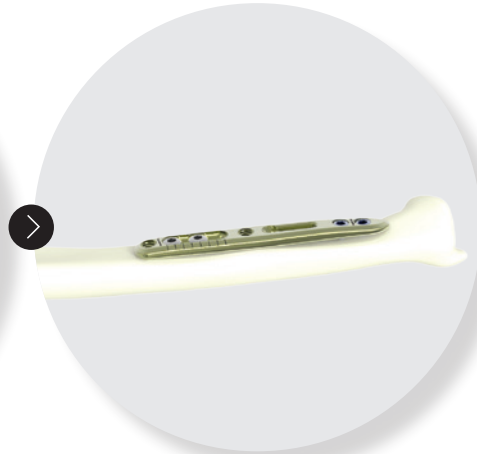
2. Adjust and secure the plate onto the distal part of the ulna using two locking screws (SOT3.5Lxx). For this purpose, drill (ANC089C) and directly read the drilling depth on the guide gauge (ANC186).



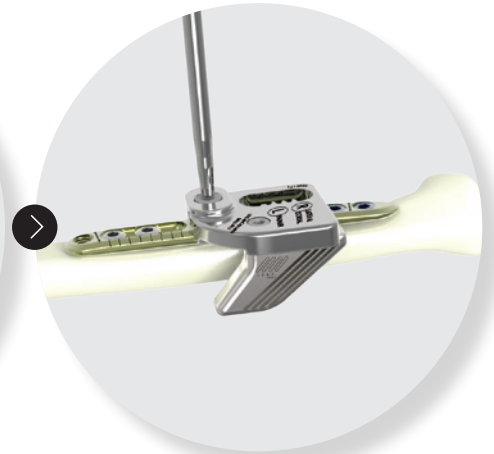
3. To make the insertion of the SOT3.5Lxx locking screws easier, widen the drilling made in the first cortex using the hand reamer (ANC463). Repeat these procedures with the second locking screw. Insert the appropriate screws. *Remark: perform reaming for the insertion of the two following locking screws (see step 15).*



4. Position the double guide gauge (ANC319) on the proximal oblong slot. Check the positioning of the double guide gauge thanks to the "PROXIMAL" and "DISTAL" marks. Perform the two drillings (ANC089C) successively, then insert the 2 cortical screws (CT3.5Lxx) using a bicortical fixation method and tighten them.



4bis. The 2 cortical screws (CT3.5Lxx) help keep both proximal and distal parts perfectly aligned after the resection has been performed.



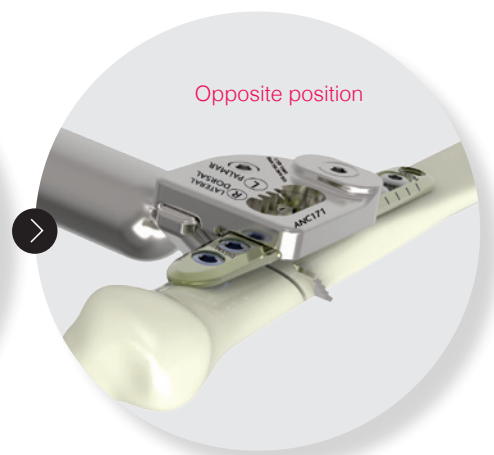
5. Assemble the cutting and compression device (block + cutting guide) and fix it onto the plate (see § "Assembling").



6. Screw the drill guide (ANC192) onto the block and perform bicortical drilling (ANC089C) to enable the subsequent insertion of the handle for compression.

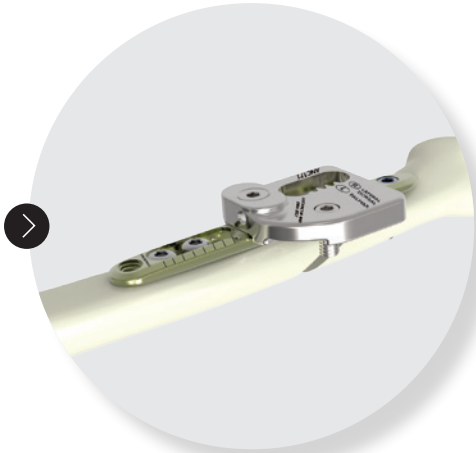


7. Perform the two cuts necessary for the ulnar shortening osteotomy using the cutting guide :  
- at graduation 0  
- at the graduation corresponding to the required resection.

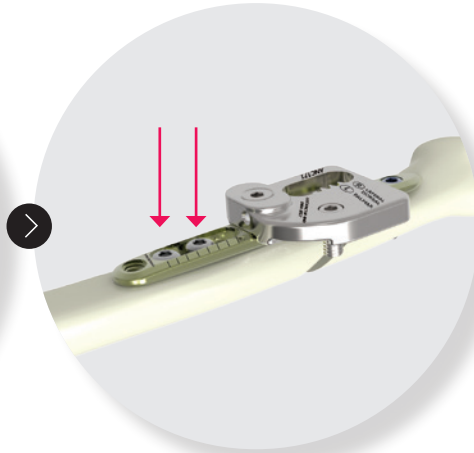


8. The resection is thus made by two oblique saw cuts.

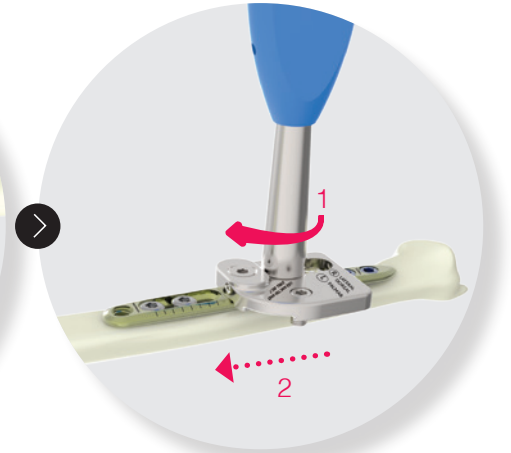
# ALIANS ULNA : SURGICAL TECHNIQUE



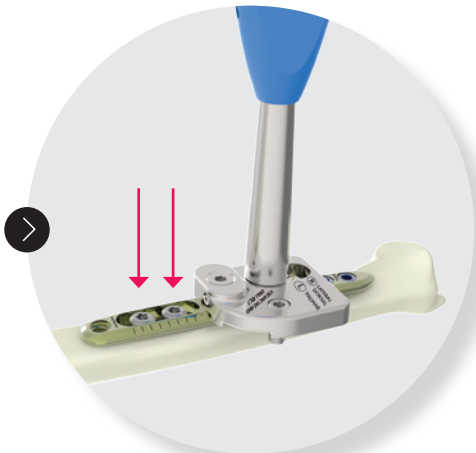
9. Remove the cutting guide to pull out the resected bone fragment.



10. Slightly loosen the two cortical screws (CT3.5Lxx) in the oblong slot so that the plate may be slid.



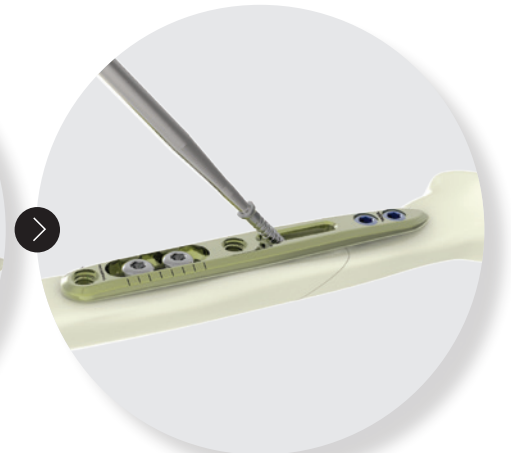
11. Insert the handle for compression (ANC170) through the drilling performed at step 6, and into the rack-and-pinion section of the block. Rotate the instrument (1) to perform compression of the osteotomy site (2).



12. While maintaining the compression, tighten up the cortical screws (CT3.5Lxx) into the proximal oblong slot. Compression level can be checked thanks to the graduations.



13. To maintain the compression, insert the  $\varnothing 2.8$  mm cortical screw (CT2.8Lxx) in the pre-angled hole. For this purpose, drill (ANC088) then directly read the drilling depth on the guide gauge (ANC450).



14. Insert the CT2.8Lxx cortical screw using the appropriate screwdriver (ANC082).



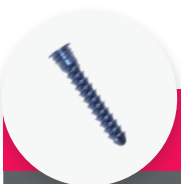
15. Complete the procedure by inserting the last 2 locking screws (SOT3.5Lxx) into the proximal part of the plate. Do not forget to use the reamer ANC463 after the drill.



# IMPLANTS REFERENCES

## ALIANS ULNA PLATE

Ref.	Description
HTSIS1	Symmetrical osteotomy plate for Ulna - Size 1



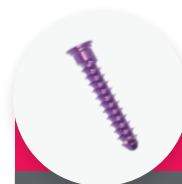
### Ø3.5 mm LOCKING SCREWS\*

Ref.	Description
SOT3.5L10	Ø3.5 mm locking screw - L10 mm
SOT3.5L12	Ø3.5 mm locking screw - L12 mm
SOT3.5L14	Ø3.5 mm locking screw - L14 mm
SOT3.5L16	Ø3.5 mm locking screw - L16 mm
SOT3.5L18	Ø3.5 mm locking screw - L18 mm
SOT3.5L20	Ø3.5 mm locking screw - L20 mm
SOT3.5L22	Ø3.5 mm locking screw - L22 mm
SOT3.5L24	Ø3.5 mm locking screw - L24 mm
SOT3.5L26	Ø3.5 mm locking screw - L26 mm

\* Blue anodized

## ALIANS MIDSHAFT PLATES

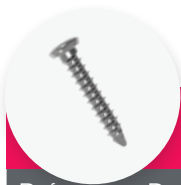
Ref.	Description
ETSIS1	Forearm locking plate - Size 1 – 80 mm
ETSIS2	Forearm locking plate - Size 2 – 100 mm
ETSIS3	Forearm locking plate - Size 3 – 130 mm
ETSIS4	Forearm locking plate - Size 4 – 160 mm



### Ø3.5 mm NON LOCKING SCREWS\*

Ref.	Description
QOT3.5L10	Ø3.5 mm non locking screw - L10 mm
QOT3.5L12	Ø3.5 mm non locking screw - L12 mm
QOT3.5L14	Ø3.5 mm non locking screw - L14 mm
QOT3.5L16	Ø3.5 mm non locking screw - L16 mm
QOT3.5L18	Ø3.5 mm non locking screw - L18 mm
QOT3.5L20	Ø3.5 mm non locking screw - L20 mm
QOT3.5L22	Ø3.5 mm non locking screw - L22 mm
QOT3.5L24	Ø3.5 mm non locking screw - L24 mm
QOT3.5L26	Ø3.5 mm non locking screw - L26 mm

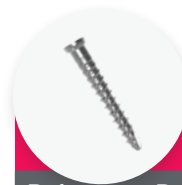
\* Pink anodized



### Ø3.5 mm CORTICAL SCREWS\*

Ref.	Description
CT3.5L10	Ø3.5 mm cortical screw - L10 mm
CT3.5L12	Ø3.5 mm cortical screw - L12 mm
CT3.5L14	Ø3.5 mm cortical screw - L14 mm
CT3.5L16	Ø3.5 mm cortical screw - L16 mm
CT3.5L18	Ø3.5 mm cortical screw - L18 mm
CT3.5L20	Ø3.5 mm cortical screw - L20 mm
CT3.5L22	Ø3.5 mm cortical screw - L22 mm
CT3.5L24	Ø3.5 mm cortical screw - L24 mm
CT3.5L26	Ø3.5 mm cortical screw - L26 mm

\* Non-anodized



### Ø2.8 mm CORTICAL SCREWS\* for ALIANS ULNA only

Ref.	Description
CT2.8L16	Ø2.8 mm cortical screw - L16 mm
CT2.8L18	Ø2.8 mm cortical screw - L18 mm
CT2.8L20	Ø2.8 mm cortical screw - L20 mm
CT2.8L22	Ø2.8 mm cortical screw - L22 mm
CT2.8L24	Ø2.8 mm cortical screw - L24 mm

\* Non anodized.  
Sterile screws are pink anodized.

#### Remark:



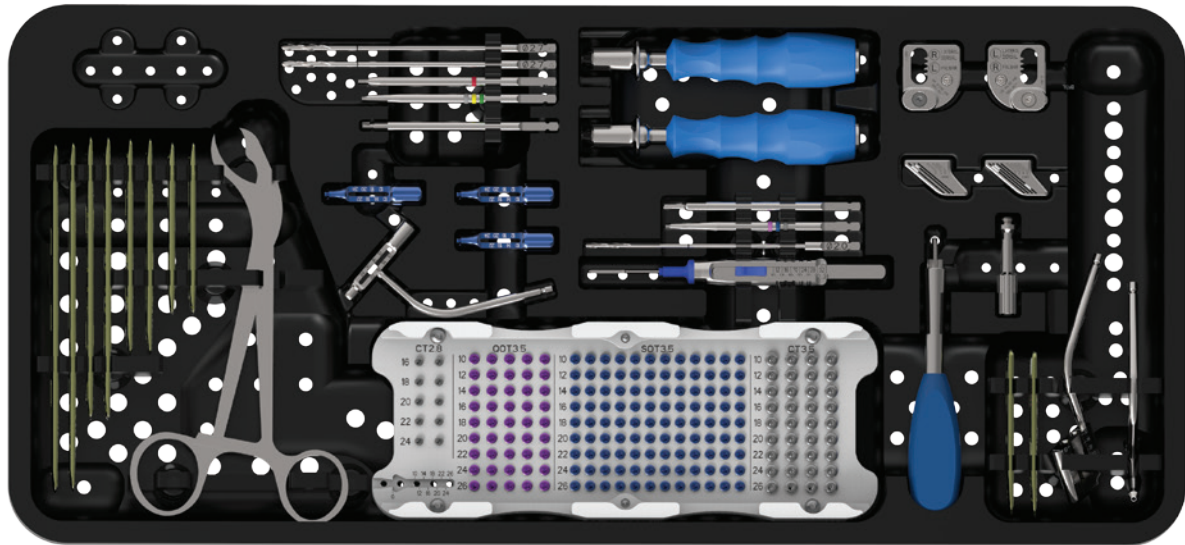
Please note that all implants are also available in sterile packaging.

For screws, the Sosafe tube packaging is handy and easy to use.

An 'ST' code is added at the end of the reference.

Ex : « CT3.5L10-ST »

# INSTRUMENTS REFERENCES



INSTRUMENTS		
Ref.	Description	Qty
ANC082	● Quick coupling 2.0 mm hexagonal prehensor screwdriver	1
ANC083C	Quick coupling 2.5 mm hexagonal prehensor screwdriver	1
ANC084	● Ø2.7 mm quick coupling reamer	1
ANC088	● Ø2.0 mm quick coupling drill bit - L125 mm	1
ANC089C	Ø2.5 mm quick coupling drill bit - L125 mm	2
ANC107	Ø2.5 mm quick coupling hexagonal non-prehensor screwdriver	1
ANC124	Length gauge for Ø3.5 mm cortical screws	1
ANC170	● Ø2.7 mm handle for Ulna cutting and compression device	1
ANC171	● Left block for Ulna plate	1
ANC171/1	● Cutting guide - 3-5 mm	1
ANC171/2	● Cutting guide - 2-4-6 mm	1
ANC172	● Right block for Ulna plate	1
ANC186	Ø2.7 mm guide gauge for Ø3.5 mm locking screws	3
ANC191	● Ø2.7 mm guide gauge for Ø3.5 mm cortical screws	1
ANC192	● Ø2.7 mm drill guide for Ulna	1
ANC251	Verbrugge forceps - 18 cm	2
ANC319	● Ø2.7 mm double guide gauge for Ø3.5 mm cortical screws – Ulna	1
ANC350	Ø4.5 mm AO quick coupling handle - Size 1	2
ANC450	● Non locking guide gauge for Ø2.8 mm cortical screws	1
ANC463	Ø3.5 mm quick coupling reamer	1

- Instruments for Alians Ulna only.
- Instruments for Alians Midshaft only.

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