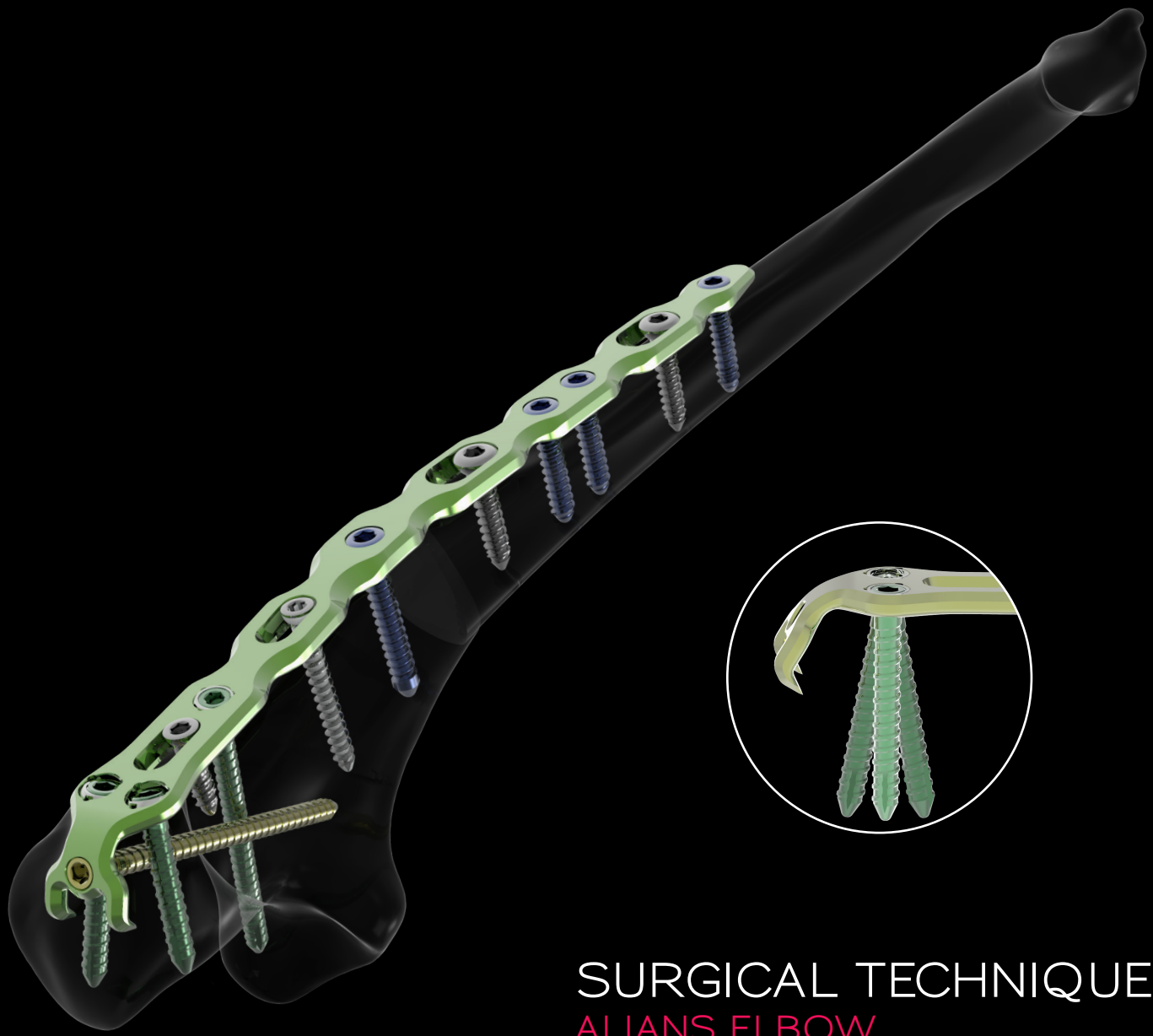
NEWCLIP-TECHNICS

INNOVATION MEANS MOTION



SURGICAL TECHNIQUE
ALIANS ELBOW
OLECRANON

- Narrow and standard plates
- Polyaxial locking technology
- Bendable precontoured implants

ALIANS ELBOW - OLECRANON

Indications: The implants of the ALIANS ELBOW are intended for the fixation of fractures and osteotomies of the proximal ulna in adults.
For complete indications of the ALIANS ELBOW range, please refer to the instructions for use.

Contra-indications:
- Serious vascular deterioration, bone devitalization.
- Pregnancy.
- Acute or chronic, local or systemic infections.
- Lack of musculo-cutaneous cover, severe vascular deficiency touching the focus.
- Insufficient bone quality preventing a good fixation of the screws into the bone.
- Muscular deficit, neurological deficiency or behavioural disorders which could submit the osteosynthesis to abnormal mechanical strains.
- Foreign body sensitivity or allergy to one of the materials used.
- Patients with mental or neurological conditions who are unwilling or incapable of following post-operative care instructions.
- Patients with poor physical condition and/or mental instability.

ALIANS ELBOW OLECRANON RANGE OF PLATES:

NARROW PLATE

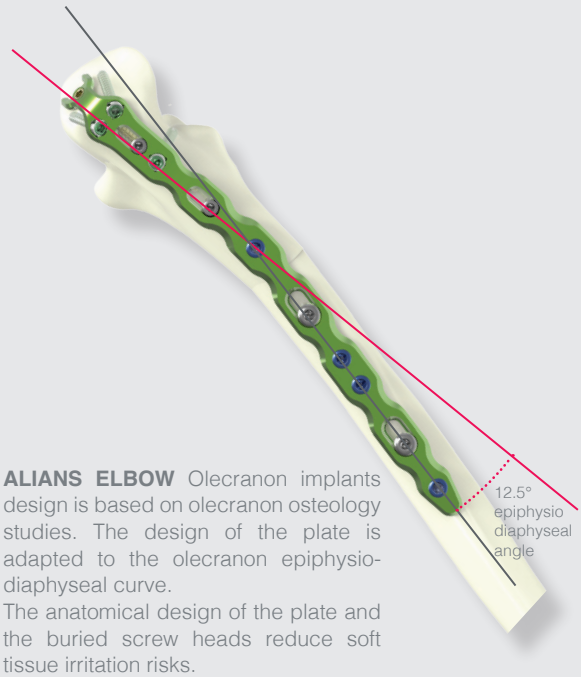
- Fractures of the olecranon,
- Osteotomies of the olecranon (due to malunions, non unions or distal humerus fractures).

STANDARD PLATES

- Fractures of the olecranon,
- Extra-articular fractures of the proximal ulna,
- Osteotomies of the proximal ulna (due to malunions, non-unions).

SURGICAL TECHNIQUE

PRECONTOURED IMPLANTS



ALIANS ELBOW Olecranon implants design is based on olecranon osteology studies. The design of the plate is adapted to the olecranon epiphysio-diaphyseal curve.
The anatomical design of the plate and the buried screw heads reduce soft tissue irritation risks.

BENDING OF THE PLATE

ALIANS ELBOW Olecranon range of plates offers bending areas. In certain cases, it is possible to bend the plate thanks to the bending irons (ANC452) following the instructions below:

> Bending is only possible in the areas intended for this purpose,
> A bendable area should be bent only once and in one direction,
> Bending should not be performed excessively,
> 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.

SURGICAL TECHNIQUE - NARROW PLATE

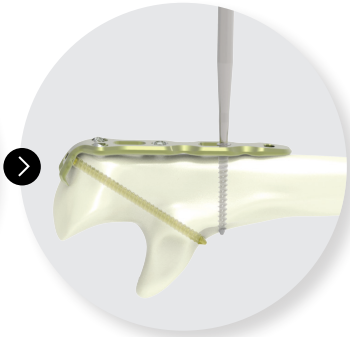
1. Position the plate on the olecranon process.

2. Drill (ANC498 – Ø2.3 mm) on the distal edge of the distal oblong hole and directly read the depth on the non threaded bent guide gauge (ANC493 - Ø2.3 mm).

3. Insert the cortical screw (CT2.8Lxx) into the distal oblong hole, using the screwdriver (ANC082E). Adjust the positioning of the plate using the oblong hole. If required, do not tighten the screw so as to allow for compression.

4. **"Home Run" screw positioning** Lock the threaded long guide gauge (ANC494 - Ø2.3 mm) into the Oneclip® hole and drill (ANC498 - Ø2.3 mm).

5. Insert a non-locking screw (RDT2.8Lxx) into the base of the coronoid process using the screwdriver (ANC082E), and generate proper compression, or insert a locking screw (TDT2.8Lxx) to maximize stability.



6. Tighten up the cortical screw (CT2.8Lxx) into the oblong hole so as to maintain compression.

7. **Proximal screws positioning:** Screw the threaded long guide gauge (ANC494 - Ø2.3 mm) into the first DTS2® hole. Position it until the desired angle is reached and lock it. Drill (ANC498 - Ø2.3 mm). *NB: The proximal polyaxial screws must be directed toward the tip of the olecranon and placed at diverging angles, to avoid conflict with the "Home Run" screw.*

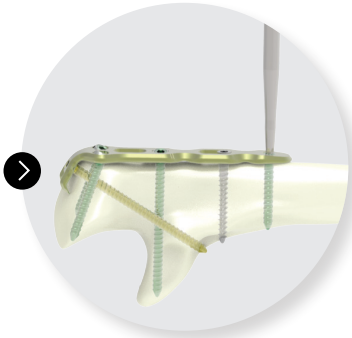
8. Insert a locking screw (TDT2.8Lxx) and tighten it using the screwdriver (ANC082E).

9. Repeat this procedure with the second proximal screw.

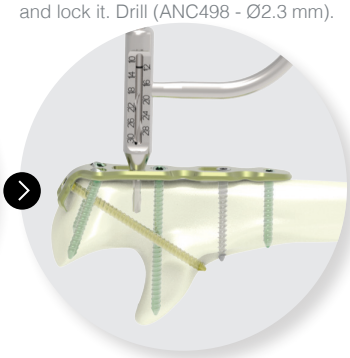
10. **Coronoid screw positioning** Screw the threaded long guide gauge (ANC494 - Ø2.3 mm) into the DTS2® hole. Position it until the desired angle is reached (and so as to avoid conflict with the "Home Run" screw in any way) and lock it. Drill (ANC498 - Ø2.3 mm).

11. Insert the locking screw (TDT2.8Lxx) and lock it completely using the screwdriver (ANC082E).

12. Lock the threaded long guide gauge (ANC494 - Ø2.3 mm) into the last distal Oneclip® hole of the plate and drill (ANC498 - Ø2.3 mm).



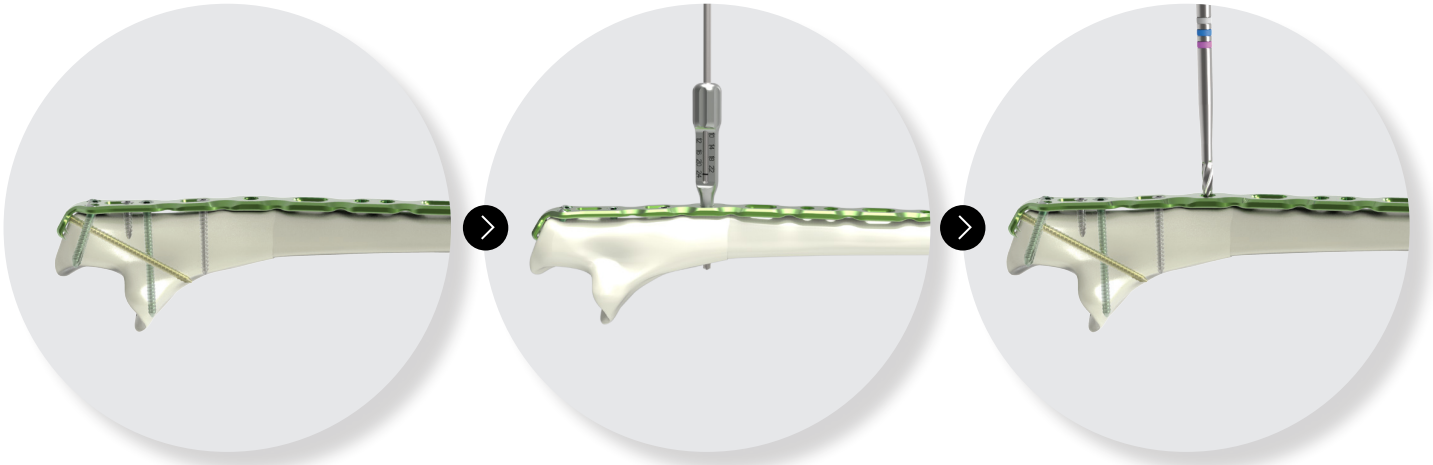
13. Insert a locking screw (TDT2.8Lxx) using the screwdriver (ANC082E). *NB: In the case of a bicortical fixation, the drilling depth can be checked on the length gauge (ANC102L).*



14. If the fracture line allows it, finalize the construct by inserting the last cortical screw (CT2.8Lxx).

FINAL RESULT

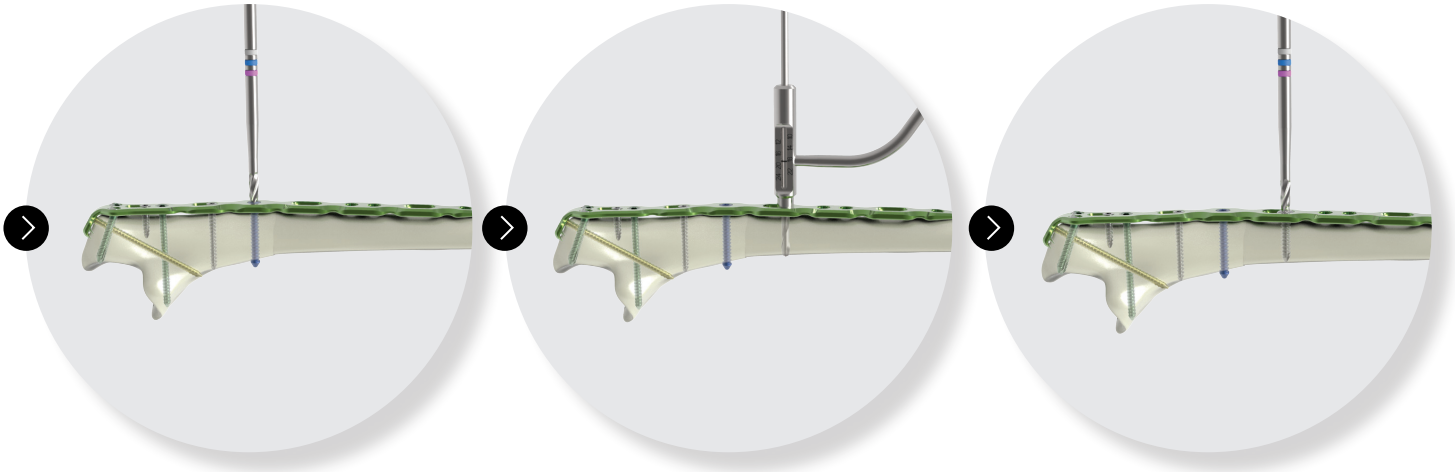
SURGICAL TECHNIQUE - STANDARD PLATES



1. Follow the surgical technique of the ALIANS ELBOW Olecranon narrow plate step by step until #11.

2. Lock the threaded guide gauge (ANC186 - Ø2.7 mm). Drill (ANC089C - Ø2.7 mm) and directly read the drilling depth on the guide gauge.

3. To make the insertion of the Ø3.5 mm locking screws (SOT3.5Lxx) easier, widen the drilling made in the first cortex using the countersink part of the 2-in-1 instrument (ANC083C).



4. Insert the Ø3.5 mm locking screw (SOT3.5Lxx) thanks to the screwdriver part of the 2-in-1 instrument (ANC083C).
Repeat these procedures (cf: steps #2, #3 and #4) for all the Ø3.5 mm locking screws (SOT3.5Lxx) or non-locking screws (QOT3.5Lxx).

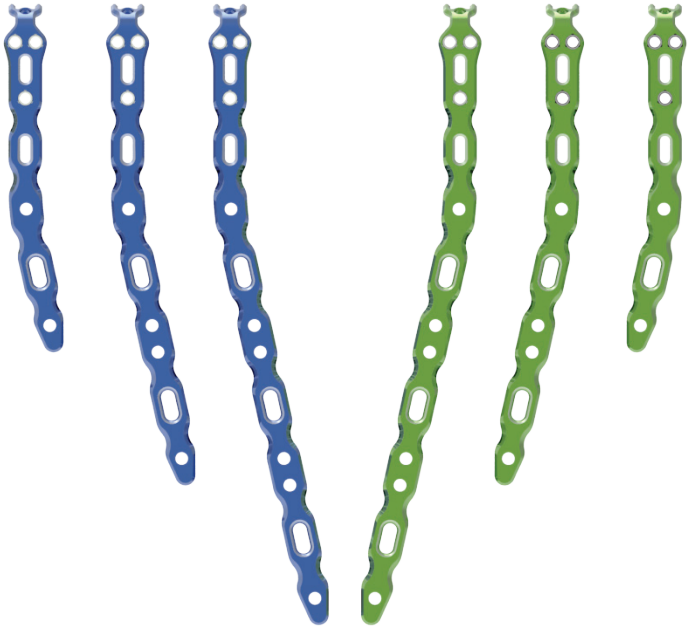
5. Drill (ANC089C - Ø2.7 mm) and directly read the drilling depth on the non threaded bent guide gauge (ANC191 - Ø2.7 mm).
NB: In the case of a bicortical fixation, the drilling depth can be checked on the length gauge (ANC124L).

6. Insert the Ø3.5 mm cortical screw (CT3.5Lxx) thanks to the screwdriver part of the 2-in-1 instrument (ANC083C).
Repeat these procedures (cf: steps #5 and #6) for all the Ø3.5 mm cortical screws (CT3.5Lxx).

FINAL RESULT

IMPLANTS REFERENCES

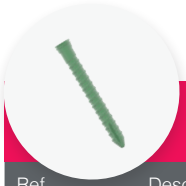
ALIANS ELBOW - OLECRANON NARROW PLATE	
Ref.	Description
HTSPN1	Olecranon plate - Symmetrical - Narrow head - 7 holes - L64 mm



ALIANS ELBOW - OLECRANON STANDARD PLATES	
Ref.	Description
HTGPS1	Olecranon plate - Left - Size 1 - 9 holes - L102 mm
HTDPS1	Olecranon plate - Right - Size 1 - 9 holes - L102 mm
HTGPS2	Olecranon plate - Left - Size 2 - 12 holes - L141 mm
HTDPS2	Olecranon plate - Right - Size 2 - 12 holes - L141 mm
HTGPS3	Olecranon plate - Left - Size 3 - 15 holes - L182 mm
HTDPS3	Olecranon plate - Right - Size 3 - 15 holes - L182 mm

IMPLANTS REFERENCES

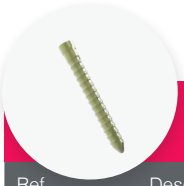
→ Ø2.8 MM SCREWS



REINFORCED CORE LOCKING SCREWS*

Ref.	Description
TDT2.8L10	Reinforced core polyaxial locking screw - Ø2.8 mm - L10 mm
TDT2.8L12	Reinforced core polyaxial locking screw - Ø2.8 mm - L12 mm
TDT2.8L14	Reinforced core polyaxial locking screw - Ø2.8 mm - L14 mm
TDT2.8L16	Reinforced core polyaxial locking screw - Ø2.8 mm - L16 mm
TDT2.8L18	Reinforced core polyaxial locking screw - Ø2.8 mm - L18 mm
TDT2.8L20	Reinforced core polyaxial locking screw - Ø2.8 mm - L20 mm
TDT2.8L22	Reinforced core polyaxial locking screw - Ø2.8 mm - L22 mm
TDT2.8L24	Reinforced core polyaxial locking screw - Ø2.8 mm - L24 mm
TDT2.8L26	Reinforced core polyaxial locking screw - Ø2.8 mm - L26 mm
TDT2.8L28	Reinforced core polyaxial locking screw - Ø2.8 mm - L28 mm
TDT2.8L30	Reinforced core polyaxial locking screw - Ø2.8 mm - L30 mm
TDT2.8L32	Reinforced core polyaxial locking screw - Ø2.8 mm - L32 mm
TDT2.8L34	Reinforced core polyaxial locking screw - Ø2.8 mm - L34 mm
TDT2.8L36	Reinforced core polyaxial locking screw - Ø2.8 mm - L36 mm
TDT2.8L38	Reinforced core polyaxial locking screw - Ø2.8 mm - L38 mm
TDT2.8L40	Reinforced core polyaxial locking screw - Ø2.8 mm - L40 mm
TDT2.8L45	Reinforced core polyaxial locking screw - Ø2.8 mm - L45 mm
TDT2.8L50	Reinforced core polyaxial locking screw - Ø2.8 mm - L50 mm
TDT2.8L55	Reinforced core polyaxial locking screw - Ø2.8 mm - L55 mm
TDT2.8L60	Reinforced core polyaxial locking screw - Ø2.8 mm - L60 mm

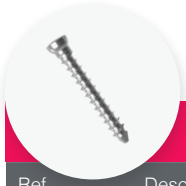
** Green anodized.*



REINFORCED CORE NON LOCKING SCREWS*

Ref.	Description
RDT2.8L10	Reinforced core polyaxial non locking screw - Ø2.8 mm - L10 mm
RDT2.8L12	Reinforced core polyaxial non locking screw - Ø2.8 mm - L12 mm
RDT2.8L14	Reinforced core polyaxial non locking screw - Ø2.8 mm - L14 mm
RDT2.8L16	Reinforced core polyaxial non locking screw - Ø2.8 mm - L16 mm
RDT2.8L18	Reinforced core polyaxial non locking screw - Ø2.8 mm - L18 mm
RDT2.8L20	Reinforced core polyaxial non locking screw - Ø2.8 mm - L20 mm
RDT2.8L22	Reinforced core polyaxial non locking screw - Ø2.8 mm - L22 mm
RDT2.8L24	Reinforced core polyaxial non locking screw - Ø2.8 mm - L24 mm
RDT2.8L26	Reinforced core polyaxial non locking screw - Ø2.8 mm - L26 mm
RDT2.8L28	Reinforced core polyaxial non locking screw - Ø2.8 mm - L28 mm
RDT2.8L30	Reinforced core polyaxial non locking screw - Ø2.8 mm - L30 mm
RDT2.8L32	Reinforced core polyaxial non locking screw - Ø2.8 mm - L32 mm
RDT2.8L34	Reinforced core polyaxial non locking screw - Ø2.8 mm - L34 mm
RDT2.8L36	Reinforced core polyaxial non locking screw - Ø2.8 mm - L36 mm
RDT2.8L38	Reinforced core polyaxial non locking screw - Ø2.8 mm - L38 mm
RDT2.8L40	Reinforced core polyaxial non locking screw - Ø2.8 mm - L40 mm
RDT2.8L45	Reinforced core polyaxial non locking screw - Ø2.8 mm - L45 mm
RDT2.8L50	Reinforced core polyaxial non locking screw - Ø2.8 mm - L50 mm
RDT2.8L55	Reinforced core polyaxial non locking screw - Ø2.8 mm - L55 mm
RDT2.8L60	Reinforced core polyaxial non locking screw - Ø2.8 mm - L60 mm

** Golden anodized.*



STANDARD CORTICAL SCREWS*

Ref.	Description
CT2.8L12	Standard cortical screw - Ø2.8 mm - L12 mm
CT2.8L14	Standard cortical screw - Ø2.8 mm - L14 mm
CT2.8L16	Standard cortical screw - Ø2.8 mm - L16 mm
CT2.8L18	Standard cortical screw - Ø2.8 mm - L18 mm
CT2.8L20	Standard cortical screw - Ø2.8 mm - L20 mm
CT2.8L22	Standard cortical screw - Ø2.8 mm - L22 mm
CT2.8L24	Standard cortical screw - Ø2.8 mm - L24 mm
CT2.8L26	Standard cortical screw - Ø2.8 mm - L26 mm
CT2.8L28	Standard cortical screw - Ø2.8 mm - L28 mm
CT2.8L30	Standard cortical screw - Ø2.8 mm - L30 mm

** Not anodized or pink anodized for sterile screws.*

Remark:

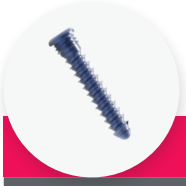
Please note that all implants are also available in sterile packaging.

The tube packaging is handy and easy to use.

An “ST” code is added at the end of the reference, e.g. “TDT2.8L12-ST”.

IMPLANTS REFERENCES

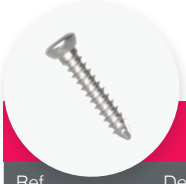
→ Ø3.5 MM SCREWS



LOCKING SCREWS*

Ref.	Description
SOT3.5L10	Locking screw - Ø3.5 mm - L10 mm
SOT3.5L12	Locking screw - Ø3.5 mm - L12 mm
SOT3.5L14	Locking screw - Ø3.5 mm - L14 mm
SOT3.5L16	Locking screw - Ø3.5 mm - L16 mm
SOT3.5L18	Locking screw - Ø3.5 mm - L18 mm
SOT3.5L20	Locking screw - Ø3.5 mm - L20 mm
SOT3.5L22	Locking screw - Ø3.5 mm - L22 mm
SOT3.5L24	Locking screw - Ø3.5 mm - L24 mm
SOT3.5L26	Locking screw - Ø3.5 mm - L26 mm
SOT3.5L28	Locking screw - Ø3.5 mm - L28 mm
SOT3.5L30	Locking screw - Ø3.5 mm - L30 mm
SOT3.5L32	Locking screw - Ø3.5 mm - L32 mm
SOT3.5L34	Locking screw - Ø3.5 mm - L34 mm
SOT3.5L36	Locking screw - Ø3.5 mm - L36 mm
SOT3.5L38	Locking screw - Ø3.5 mm - L38 mm
SOT3.5L40	Locking screw - Ø3.5 mm - L40 mm
SOT3.5L45	Locking screw - Ø3.5 mm - L45 mm
SOT3.5L50	Locking screw - Ø3.5 mm - L50 mm
SOT3.5L55	Locking screw - Ø3.5 mm - L55 mm
SOT3.5L60	Locking screw - Ø3.5 mm - L60 mm

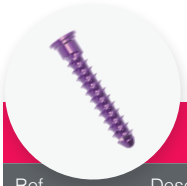
** Blue anodized.*



STANDARD CORTICAL SCREWS*

Ref	Description
CT3.5L10	Standard cortical screw - Ø3.5 mm - L10 mm
CT3.5L12	Standard cortical screw - Ø3.5 mm - L12 mm
CT3.5L14	Standard cortical screw - Ø3.5 mm - L14 mm
CT3.5L16	Standard cortical screw - Ø3.5 mm - L16 mm
CT3.5L18	Standard cortical screw - Ø3.5 mm - L18 mm
CT3.5L20	Standard cortical screw - Ø3.5 mm - L20 mm
CT3.5L22	Standard cortical screw - Ø3.5 mm - L22 mm
CT3.5L24	Standard cortical screw - Ø3.5 mm - L24 mm
CT3.5L26	Standard cortical screw - Ø3.5 mm - L26 mm
CT3.5L28	Standard cortical screw - Ø3.5 mm - L28 mm
CT3.5L30	Standard cortical screw - Ø3.5 mm - L30 mm
CT3.5L32	Standard cortical screw - Ø3.5 mm - L32 mm
CT3.5L34	Standard cortical screw - Ø3.5 mm - L34 mm
CT3.5L36	Standard cortical screw - Ø3.5 mm - L36 mm
CT3.5L38	Standard cortical screw - Ø3.5 mm - L38 mm
CT3.5L40	Standard cortical screw - Ø3.5 mm - L40 mm

** Not anodized or light blue anodized for sterile screws.*



NON LOCKING SCREWS*

Ref.	Description
QOT3.5L10	Non locking screw - Ø3.5mm - L10 mm
QOT3.5L12	Non locking screw - Ø3.5mm - L12 mm
QOT3.5L14	Non locking screw - Ø3.5mm - L14 mm
QOT3.5L16	Non locking screw - Ø3.5mm - L16 mm
QOT3.5L18	Non locking screw - Ø3.5mm - L18 mm
QOT3.5L20	Non locking screw - Ø3.5mm - L20 mm
QOT3.5L22	Non locking screw - Ø3.5mm - L22 mm
QOT3.5L24	Non locking screw - Ø3.5mm - L24 mm
QOT3.5L26	Non locking screw - Ø3.5mm - L26 mm
QOT3.5L28	Non locking screw - Ø3.5mm - L28 mm
QOT3.5L30	Non locking screw - Ø3.5mm - L30 mm
QOT3.5L32	Non locking screw - Ø3.5mm - L32 mm
QOT3.5L34	Non locking screw - Ø3.5mm - L34 mm
QOT3.5L36	Non locking screw - Ø3.5mm - L36 mm
QOT3.5L38	Non locking screw - Ø3.5mm - L38 mm
QOT3.5L40	Non locking screw - Ø3.5mm - L40 mm
QOT3.5L45	Non locking screw - Ø3.5mm - L45 mm
QOT3.5L50	Non locking screw - Ø3.5mm - L50 mm
QOT3.5L55	Non locking screw - Ø3.5mm - L55 mm
QOT3.5L60	Non locking screw - Ø3.5mm - L60 mm

** Fuchsia anodized.*

Remark:

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

The tube packaging is handy and easy to use.

An “ST” code is added at the end of the reference, e.g. “SOT3.5L16-ST”.

INSTRUMENTS REFERENCES

ALIANS ELBOW - OLECRANON INSTRUMENTS		
Ref.	Description	Qty
ANC082E	2.0 mm quick coupling hexagonal prehensor screwdriver	2
ANC083C	2 in 1 : 2.5 mm hexagonal prehensor screwdriver - Ø3.5 mm countersink	3
ANC089C	Ø2.7 mm quick coupling drill bit - L 125 mm	1
ANC102L	Length gauge for Ø2.8 mm screws - Measures 10 - 60 mm	1
ANC103	2.0 mm hexagonal non prehensor screwdriver	1
ANC107	2.5 mm quick coupling hexagonal non prehensor screwdriver	1
ANC124L	Length gauge for Ø3.5 mm screws - Measures 10 - 60 mm	1
ANC186	Ø2.7 mm threaded guide gauge for Ø3.5 mm screws	1
ANC191	Ø2.7 mm non threaded bent guide gauge for Ø3.5 mm screws	1
ANC344	24 cm Verbrugge forceps	1

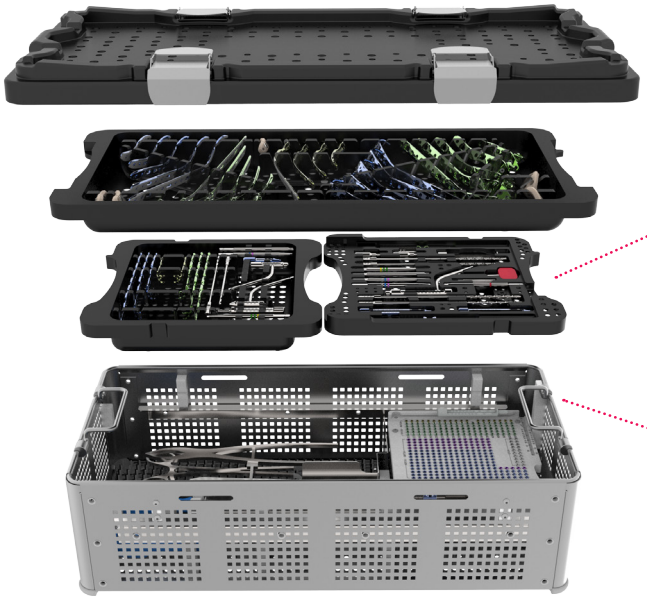
ALIANS ELBOW - OLECRANON INSTRUMENTS		
Ref.	Description	Qty
ANC345	200 mm reduction forceps	1
ANC348	235 mm reduction forceps	1
ANC350	Ø4.5 mm AO quick coupling handle - Size 1	1
ANC351	Ø4.5 mm AO quick coupling handle - Size 2	1
ANC452	Bending iron	2
ANC463	Ø3.5 mm quick coupling countersink	2
ANC493	Ø2.3 mm non threaded bent guide gauge for Ø2.8 mm screws	1
ANC494	Ø2.3 mm threaded long guide gauge for Ø2.8 mm screws	1
ANC498	Ø2.3 mm quick coupling drill bit - L 150 mm	1
33.0216.210	Pin Ø1.6 L210 mm	5
33.0220.210	Pin Ø2.0 L210 mm	5

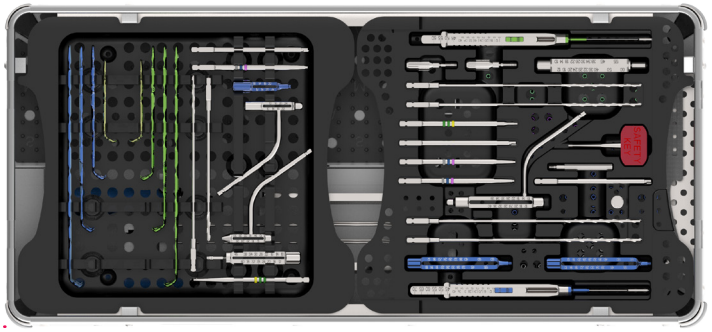
REMOVAL KIT

If you have to remove ALIANS ELBOW olecranon implants, make sure to order the **Newclip Technics removal set** which includes the following instruments:
- ANC082E or ANC103: Screwdriver for Ø2.8 mm screws,
- ANC107 or ANC016: Screwdriver for Ø3.5 mm screws,
- ANC351: Ø4.5 mm AO quick coupling handle - Size 2.

→ SET DESCRIPTION: ALIANS ELBOW - OLECRANON SPECIFIC TRAYS

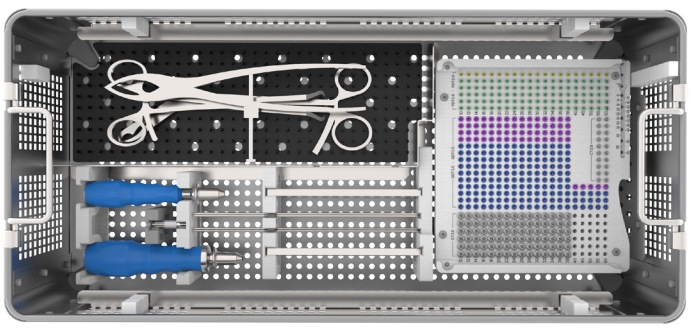
ALIANS ELBOW SET





ANC296/I2: OLECRANON IMPLANTS AND INSTRUMENTS TRAY

ANC296/I1: INSTRUMENTS TRAY



ANC296/B : BASE

ANC296/R : SCREWS RACK

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TO EN - Alians Elbow/Olecranon - Ed1 - 10/2015 - Medical device EC: class IIb - US Class: II - CE 0120 SGS UK - Read labeling and instructions before use.