

ALIANS ELBOW - DISTAL HUMERUS Y PLATES

Indications: The implants of the Alians Elbow range are dedicated to the fixation of fractures and osteotomies of the distal humerus and proximal ulna in adults

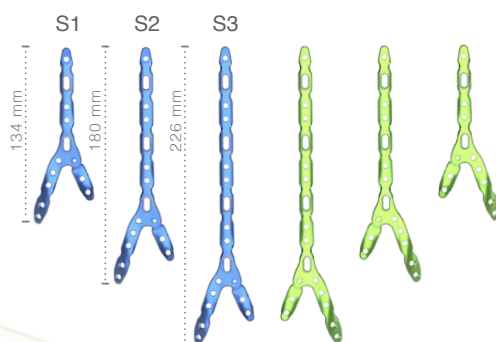
Contre-indications:

- 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

► A comprehensive range of plates:

- Plates available in 3 sizes
- Green anodized for right plates and blue anodized for left plates.



BENDING PLATES

Plates from **Alians Elbow - Distal humerus Y plates** range offer bending sections. In certain cases, it is possible to bend the plate thanks to the bending irons (ANC650 and ANC651) following the instructions below:

- > Bending is only possible in the sections intended for this purpose,
- > A bendable section 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.

► Precontoured implant

► Bendable sections (a)

► Single diameter fixation: Ø3.5 mm

- Cortical screws (CT3.5Lxx),
- Locking screws (SOT3.5Lxx),
- Non locking screws (QOT3.5Lxx).

► Lateral fixation (b) and medial fixation (c): If necessary it is possible to remove the medial support thanks to the screwdriver (ANC082E).



ALIANS ELBOW - DISTAL HUMERUS Y PLATES REFERENCES

| Y PLATES | |
|----------|--|
| Ref. | Description |
| NTGY1 | Y plate for distal humeral fracture - Left - Size 1 |
| NTDY1 | Y plate for distal humeral fracture - Right - Size 1 |
| NTGY2 | Y plate for distal humeral fracture - Left - Size 2 |
| NTDY2 | Y plate for distal humeral fracture - Right - Size 2 |
| NTGY3 | Y plate for distal humeral fracture - Left - Size 3 |
| NTDY3 | Y plate for distal humeral fracture - Right - Size 3 |

SCREWS (available in the ALIANS ELBOW kit)

| Ref. | Description |
|-------------|--|
| CT3.5Lxx* | Standard cortical screw - Ø3.5 mm Length: from 10 mm to 40 mm (2 mm increments) |
| SOT3.5Lxx** | Locking screw - Ø3.5 mm Length: from 10 mm to 60 mm (2 mm increments from 10 to 40 mm) (5 mm increments from 40 to 60 mm) |

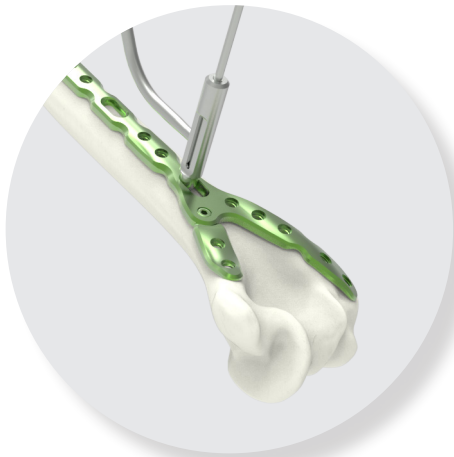
*Non anodized or light blue anodized for sterile screws.

**Blue anodized.

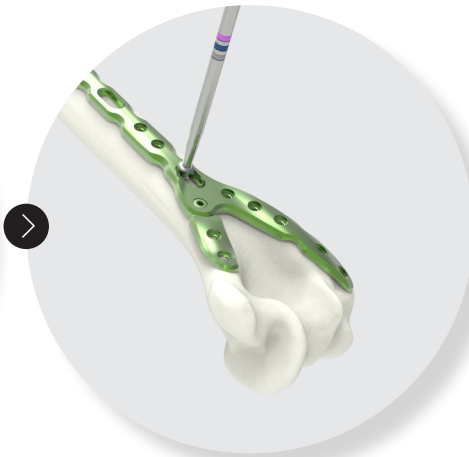
| INSTRUMENTS | | |
|-------------|---|-----|
| Ref. | Description | Qty |
| ANC083C | 2 in 1 : 2.5 mm hexagonal prehensor screwdriver - Ø3.5 mm countersink | 1 |
| ANC089C | Ø2.7 mm quick coupling drill bit - L 125 mm | 1 |
| ANC124L | Length gauge for Ø3.5 mm screw - Measures 10 - 60 mm | 1 |
| ANC186 | 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 |
| 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 |
| ANC650 | Bending iron 1 | 1 |
| ANC651 | Bending iron 2 | 1 |
| 33.0216.210 | Pin Ø1.6 L210 mm | 5 |
| 33.0220.210 | Pin Ø2.0 L210 mm | 5 |

NB : The Alians Elbow - distal humerus Y plates is available as complement to the Alians Elbow kit, on request. The Alians Elbow - distal humerus Y plates cannot be sold separately.

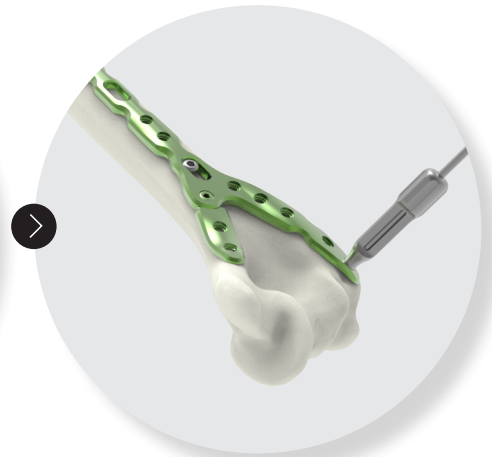
SURGICALE TECHNIQUE



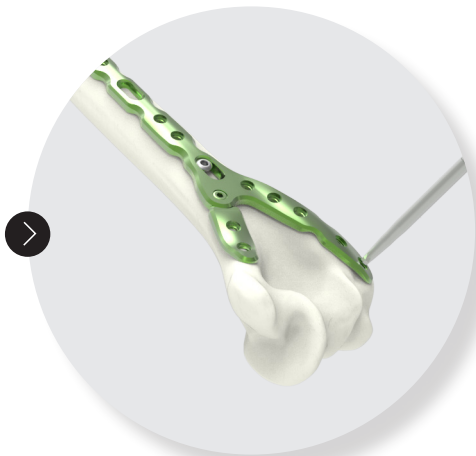
1. Drill (Ø2.7 mm) (ANC089C). The screw length can be directly read on the Ø2.7 mm non threaded bent guide gauge (ANC191).



2. Insert a Ø3.5 mm cortical screw (CT3.5Lxx) in the most distal oblong hole using the screwdriver part of the 2 in 1 instrument (ANC083C). For optimal positioning, slide the plate using the oblong hole and tighten the cortical screw (CT3.5Lxx).

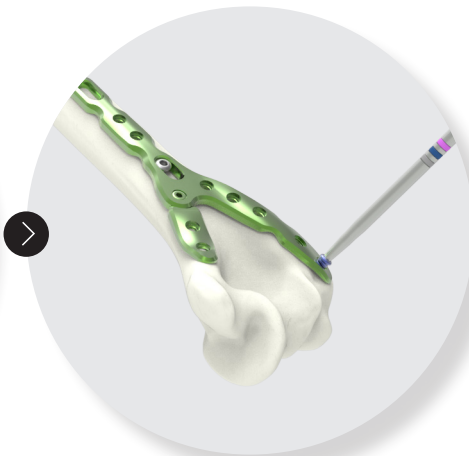


3. Drill (ANC089C) using the threaded guide gauge for Ø3.5 mm screws (ANC186) in the most distal hole of the lateral column. The screw length can be directly read on the threaded guide gauge (ANC186).

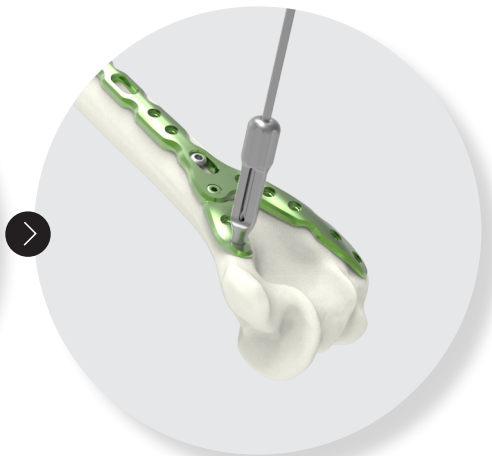


4. To ease the insertion of the Ø3.5 mm locking screws (SOT3.5Lxx), use the reamer part of the 2 in 1 instrument (ANC083C) to widen the first cortex previously drilled.

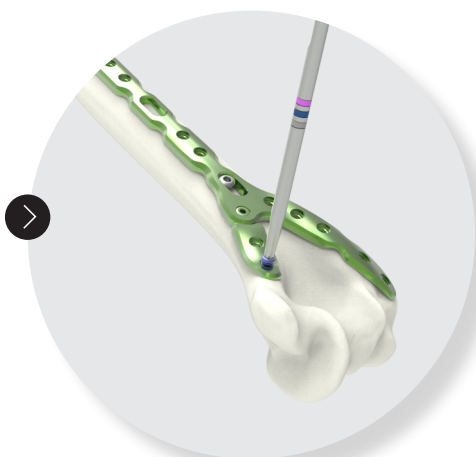
Remark: Use the reamer part of the 2 in 1 instrument (ANC083C) for the insertion of Ø3.5 mm locking screws (SOT3.5Lxx) and Ø3.5 mm non locking screws (QOT3.5Lxx).



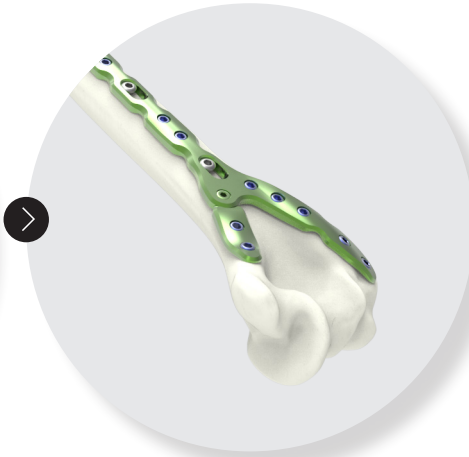
5. Insert a Ø3.5 mm locking screw (SOT3.5Lxx) using the screwdriver part of the 2 in 1 instrument (ANC083C).



6. Proceed similarly for the medial fixation. Drill (ANC089C) using the threaded guide gauge for Ø3.5 mm screws (ANC186) in the most distal hole of the medial column. The screw length can be directly read on the threaded guide gauge (ANC186).



7. Insert a Ø3.5 mm locking screw (SOT3.5Lxx) using the screwdriver part of the 2 in 1 instrument (ANC083C).



8. Complete the construct by inserting the remaining Ø3.5 mm screws.



FINAL RESULT



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