

NEWCLIP-TECHNICS







- Distal humerus and olecranon plating system
- Polyaxial locking technology
- Precontoured implants

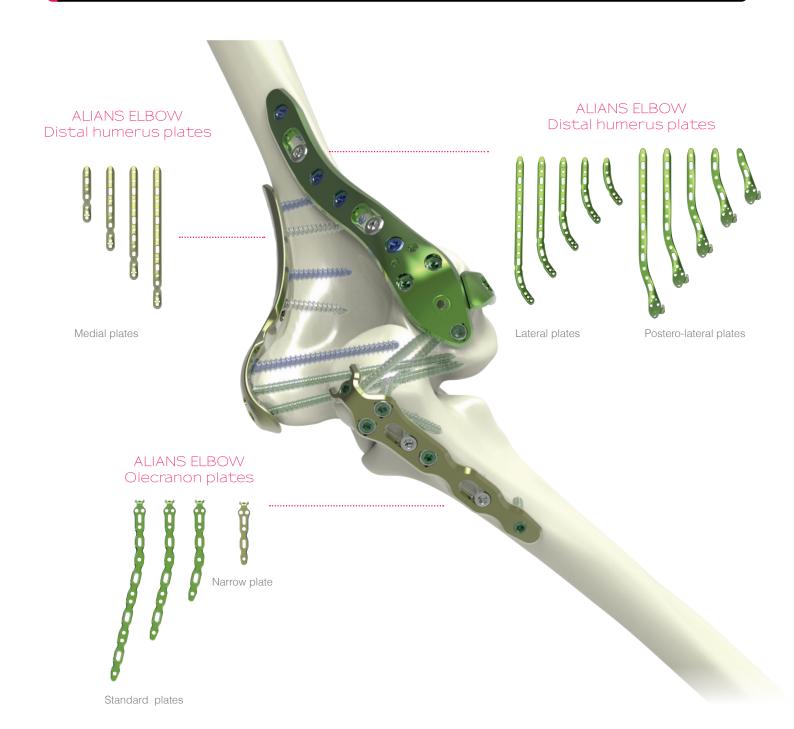
ALIANS FIBOW

Indications: ALIANS ELBOW implants are dedicated to the fixation of fractures and osteotomies of the distal humerus and proximal ulna in adults.

Contra-indications:

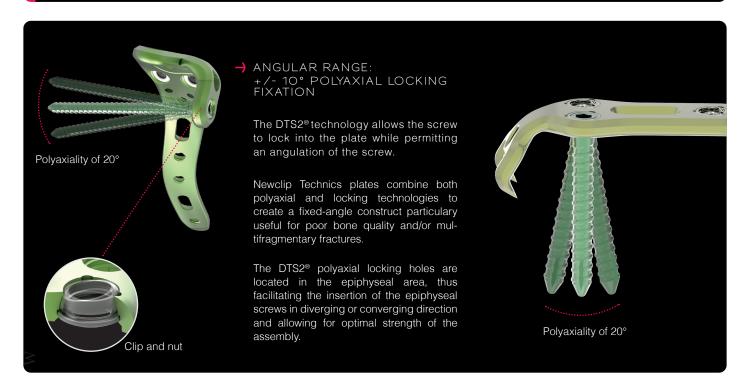
- Severe vascular damage, bone devitalisation.
- Pregnancy.
- Acute or chronic, local or systemic infections.
- Lack of musculo-cutaneous cover, severe vascular deficiency touching the focus.
- Insufficient bone quality preventing a good fixation of the screws into the bone.
- Muscular deficit, neurological 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 RANGE



FIXATIONS : TECHNICAL FEATURES

ANGULAR RANGE: +/- 10° POLYAXIAL LOCKING RANGE

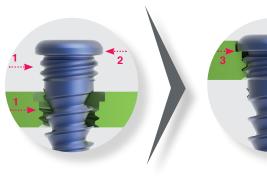


MONOAXIAL LOCKING SYSTEM

→ FEATURES

- The threaded sections under the screw head and inside the hole have strictly the same characteristics (1):
 - Cylindrical internal thread profile,
 Cylindrical external thread profile,
- Screw head cap (2),
- Plate and screw made from the same material: titanium alloy.

→ RESULTS





- The buried screw head thanks to the cap in the slot insuring the locking, (3),
- The screw head is buried in the plate.
- Construct limiting cold welding risks for improved removal properties:

locking screws (SOT3.5Lxx) and Ø3.5

mm non locking screws (QOT3.5Lxx).

- A perfect coaptation of both profiles when locking (4).

FIXATION SYSTEM

DTS2® polyaxial holes for Ø2.8 mm locking screws (TDT2.8Lxx) and Ø2.8 mm non locking screws (RDT2.8Lxx).

(CT2.8Lxx).

cortical compression screws

Oneclip® monoaxial hole for Ø2.8 mm locking screws (TDT2.8Lxx) and Ø2.8 mm non locking screws (RDT2.8Lxx).



cortical compression screws

(CT3.5Lxx).

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DISTAL HUMERUS PLATES

PRECONTOURED IMPLANTS

The design of ALIANS ELBOW Distal humerus implants is the result of a proprietary state-of-the-art mapping technology to establish the maximum congruence between the plate and the bone.

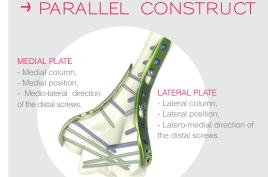


PLATE BENDING

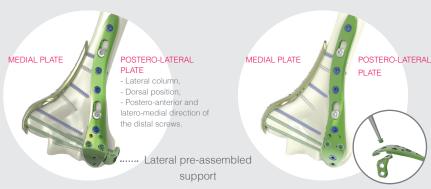
Some plates from **ALIANS ELBOW** range (distal humerus and olecranon plates) offer bending areas. In certain cases, it is possible to bend the plate thanks to the bending irons (ANC452) following the instructions below:

- > 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.

3 TYPES OF CONSTRUCT



→ PERPENDICULAR CONSTRUCTS



Fixation with lateral support

In the case of a perpendicular construct, the lateral support enables the insertion of 2 additional polyaxial long screws, from the lateral to the medial column of the distal humerus for extra stability and strength of the fixation.

Fixation without lateral support

Distal humerus postero-lateral plates can be fitted to several types of fracture. In the case of partial articular fractures of the capitellum or very small humeri if the lateral support exceeds over the lateral epicondyl, it is possible to remove the lateral support. In this case, a Ø3.5 mm locking screw can be inserted in the cleared hole.

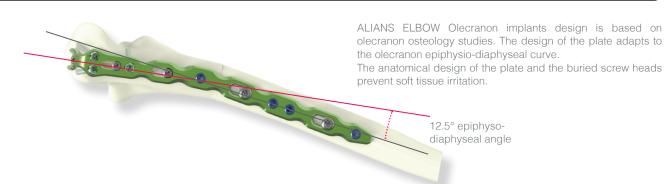
POLYAXIAL LOCKING FIXATION



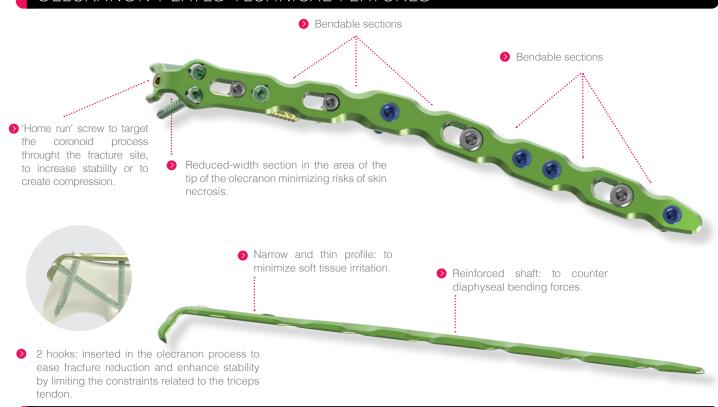
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OLECRANON PLATES

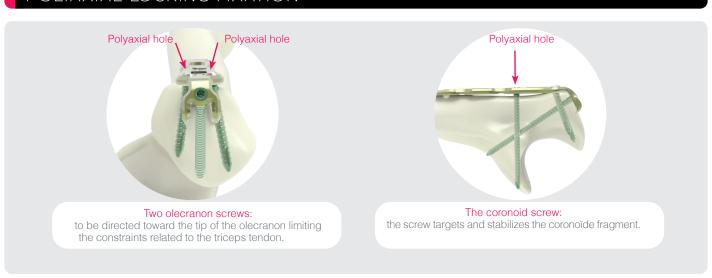
PRECONTOURED IMPLANTS



OLECRANON PLATES TECHNICAL FEATURES

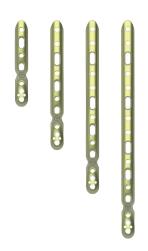


POLYAXIAL LOCKING FIXATION

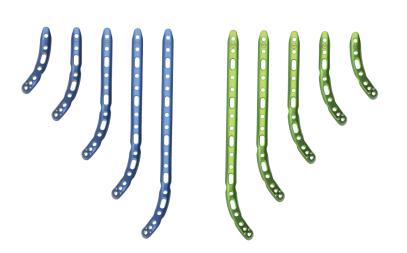


IMPLANTS REFERENCES

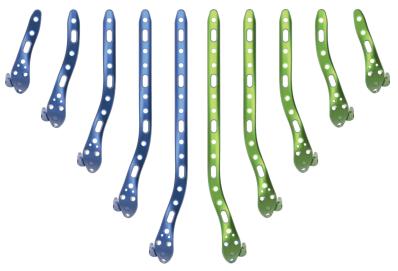
-) DISTAL HUMERUS PLATES



MEDIAL PLATES			
Ref.	Description		
NTSM1	Distal humerus medial plate - Symmetrical - Size 1 - 7 holes - L74 mm		
NTSM2	Distal humerus medial plate - Symmetrical - Size 2 - 10 holes - L111 mm		
NTSM3	Distal humerus medial plate - Symmetrical - Size 3 - 13 holes - L148 mm		
NTSM4	Distal humerus medial plate - Symmetrical - Size 4 - 16 holes - L186 mm		



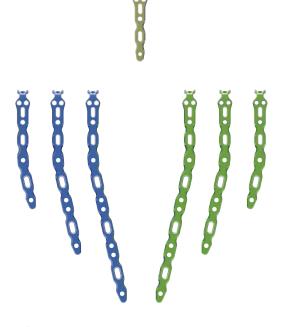
LATERAL PLATES			
Ref.	Description		
NTGL1	Distal humerus lateral plate - Left - Size 1 - 7 holes - L67 mm		
NTDL1	Distal humerus lateral plate - Right - Size 1 - 7 holes - L67 mm		
NTGL2	Distal humerus lateral plate - Left - Size 2 - 9 holes - L93 mm		
NTDL2	Distal humerus lateral plate - Right - Size 2 - 9 holes - L93 mm		
NTGL3	Distal humerus lateral plate - Left - Size 3 -12 holes - L131 mm		
NTDL3	Distal humerus lateral plate - Right - Size 3 - 12 holes - L131 mm		
NTGL4	Distal humerus lateral plate - Left - Size 4 - 15 holes - L169 mm		
NTDL4	Distal humerus lateral plate - Right - Size 4 - 15 holes - L169 mm		
NTGL5	Distal humerus lateral plate - Left - Size 5 - 18 holes - L207 mm		
NTDL5	Distal humerus lateral plate - Right - Size 5 - 18 holes - L207 mm		



POSTERO-LATERAL PLATES			
Ref.	Description		
NTGQ1	Distal humerus postero-lateral plate - Left - Size 1 - 9 holes - L71 mm		
NTDQ1	Distal humerus postero-lateral plate - Right - Size 1 - 9 holes - L71 mm		
NTGQ2	Distal humerus postero-lateral plate - Left - Size 2 - 11 holes - L99 mm		
NTDQ2	Distal humerus postero-lateral plate - Right - Size 2 - 11 holes - L99 mm		
NTGQ3	Distal humerus postero-lateral plate - Left - Size 3 - 14 holes - L137 mm		
NTDQ3	Distal humerus postero-lateral plate - Right - Size 3 - 14 holes - L137 mm		
NTGQ4	Distal humerus postero-lateral plate - Left - Size 4 - 17 holes - L175 mm		
NTDQ4	Distal humerus postero-lateral plate - Right - Size 4 - 17 holes - L175 mm		
NTGQ5	Distal humerus postero-lateral plate - Left - Size 5 - 20 holes - L213 mm		
NTDQ5	Distal humerus postero-lateral plate - Right - Size 5 - 20 holes - L213 mm		

IMPLANTS REFERENCES

-) OLECRANON PLATES



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

	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

→ Ø2.8 MM SCREWS







*Non anodized or pink anodized for sterile screws

→ Ø3.5 MM SCREWS





CORTICAL SCREWS*

Description

Ø3.5 mm standard cortical screws
Length: From 10 mm to 40 mm
(2 mm increments)

*Non anodized or light blue 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. "SOT3.5L16-ST".

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INSTRUMENTS REFERENCES

	ALIANS ELBOW INSTRUMENTS	
Ref.	Description	Qty
ANC082E	2.0 mm quick coupling hexagonal prehensor screwdriver	2
ANC083C	2.5 mm quick coupling hexagonal prehensor screwdriver	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
ANC160	Handle for fast drilling guide	1
ANC186	Ø2.7 mm guide gauge for Ø3.5 mm locking screws	1
ANC191	Ø2.7 mm QC guide gauge for Ø3.5 mm non locking screws	1
ANC256E	Ø2.7 mm quick coupling drill bit - L 180 mm	2
ANC259E	Ø2.7 mm guide gauge for Ø3.5 mm locking screws Measures 10 - 60 mm	2
ANC261E	$\ensuremath{\text{\emptyset}}2.7$ mm guide gauge for $\ensuremath{\text{\emptyset}}3.5$ mm non locking screws - Measures 10 - 60 mm	1
ANC287	Ø2.3 mm quick coupling drill bit - L 180 mm	2
ANC305	Ø2.3 mm DTS2 drill guide	2
ANC306	Ø2.3 mm guide gauge	1
ANC309	Ø1.7 mm guide for Ø1.6 mm K-wire	1
ANC313	Fast drilling guide for distal humerus medial plates (NTSMx)	1

	ALIANS ELBOW INSTRUMENTS	
Ref.	Description	Qty
ANC314	Fast drilling guide for distal humerus lateral plates - Left side (NTGLx)	1
ANC315	Fast drilling guide for distal humerus lateral plates - Right side (NTDLx)	1
ANC316	Fast drilling guide for distal humerus posterolateral plates - Left side (NTGQx)	1
ANC317	Fast drilling guide for distal humerus posterolateral plates - Right side (NTDQx)	1
ANC344	Verbrugge forceps 240 mm	1
ANC345	Reduction forceps 200 mm	1
ANC348	Reduction forceps 235 mm	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 reamer	2
ANC493	Ø2.3 guide gauge for Ø2.8 screws	1
ANC494	Ø2.3 guide gauge for DTS2 screws	1
ANC498	Ø2.3 mm quick coupling drill bit - L 150 mm	1
33.0216.210	K-wire Ø1.6 L210 mm	5
33.0220.210	K-wire Ø2.0 L210 mm	5

REMOVAL KIT

If you have to remove ALIANS ELBOW implants (distal humerus or 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



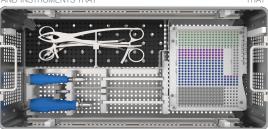


ANC296/I3: DISTAL HUMERUS IMPLANTS TRAY



AND INSTRUMENTS TRAV

ANC296/I1:INSTRUMENT



ANC296/B: BASE

ANC296/R: SCREW RACK

The information presented in this brochure is intended to demonstrate a NEWCLIP TECHNICS product. Always refer to the package insert, product label and/or user instructions before using any NEWCLIP TECHNICS product. Surgeons must always rely on their own clinical judgment when deciding which products and techniques to use with their patients. Products may not be available in all markets. Product availability is subject to the regulatory or medical practices that govern individual markets. Please contact your NEWCLIP TECHNICS representative if you have questions about the availability of NEWCLIP TECHNICS products in your area.



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