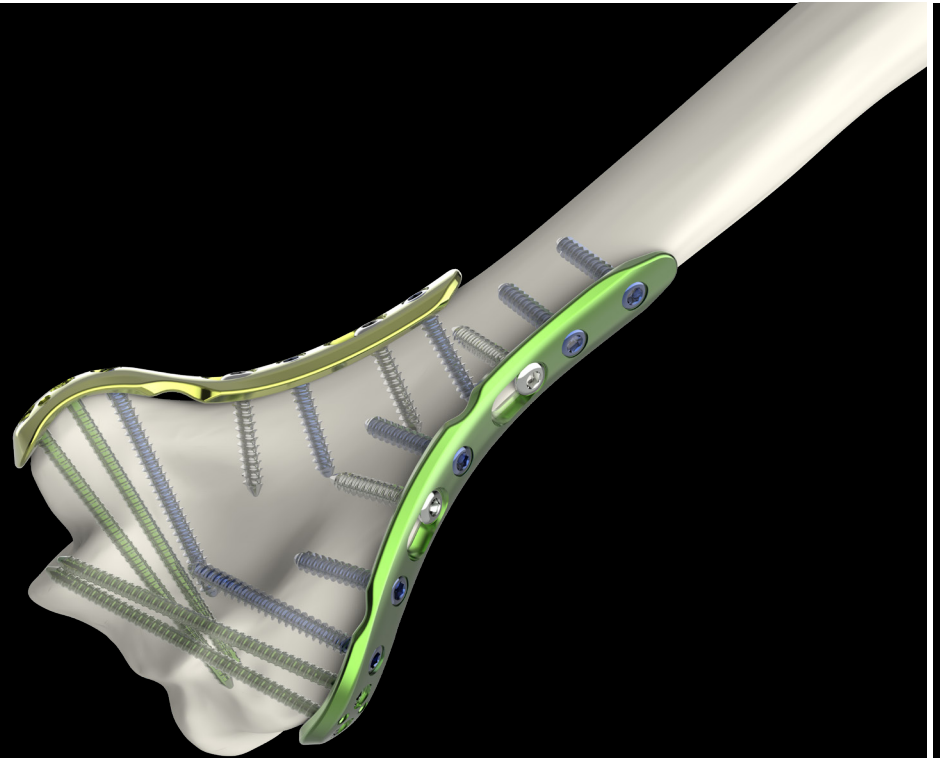




NEWCLIP  
TECHNICS



SURGICAL TECHNIQUE

ALIANS ELBOW

DISTAL HUMERUS

# FIXATION TECHNIQUE

## STAGE 1 : FIXATION OF THE MEDIAL PLATE



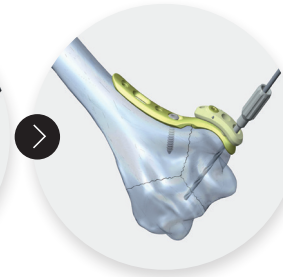
Lock the Fast Guide onto the medial plate. Adjust the position of the plate using the slotted hole.



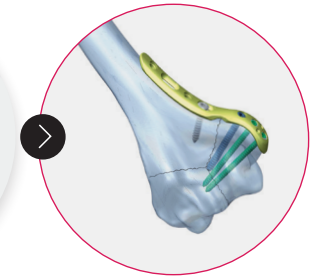
When monoaxial screwing is possible, insert the guide gauge in the Fast Guide, drill using a  $\varnothing 2.3$  mm drill bit, and directly check the depth of the drilling on the graduations of the guide gauge.



Insert the  $\varnothing 2.8$  mm distal screws through the Fast Guide.



**Polyaxial technique :** The distal holes allow for polyaxial screw placement if necessary. For this purpose, screw the polyaxial drill guide into the plate hole, position it as appropriate, lock it and drill using the  $\varnothing 2.3$  mm drill bit. This method does not require the removal of the Fast Guide.

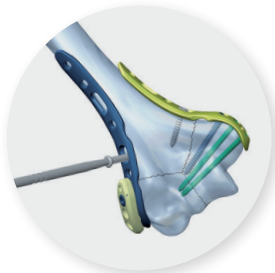


Remove the Fast Guide if need be, drill using the  $\varnothing 2.7$  mm drill bit and insert the last  $\varnothing 3.5$  mm distal screw.

## STAGE 2 : FIXATION OF THE LATERAL OR POSTERO-LATERAL PLATE

### OPTION 1 : PARALLEL FIXATION USING THE LATERAL PLATE

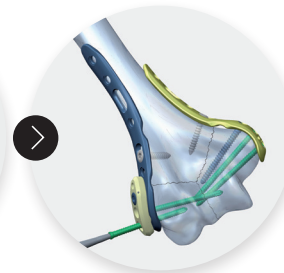
#### → FIXATION OF THE LATERAL PLATE



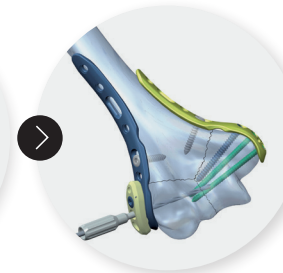
Lock the Fast Guide onto the lateral plate. Adjust the position of the plate using the slotted hole.



When monoaxial screwing is possible, insert the guide gauge in the Fast Guide, drill using the  $\varnothing 2.3$  mm drill bit, and directly check the depth of the drilling on the graduations of the guide gauge.



Insert the  $\varnothing 2.8$  mm distal screws through the Fast Guide.



**Polyaxial technique :** The distal holes allow for polyaxial screw placement if necessary. For this purpose, screw the polyaxial drill guide into the plate hole, position it as appropriate, lock it and drill using the  $\varnothing 2.3$  mm drill bit. This method does not require the removal of the Fast Guide.



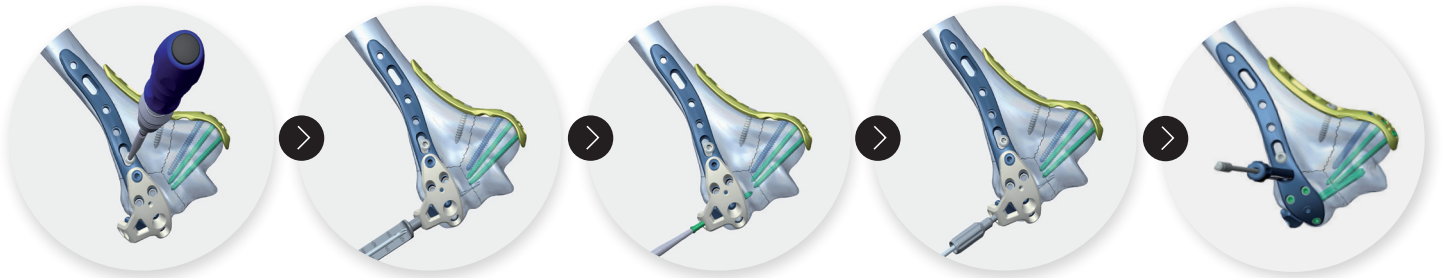
Remove the Fast Guide if need be, drill using the  $\varnothing 2.7$  mm drill bit and insert the last  $\varnothing 3.5$  mm distal screw. Complete the fixation by inserting all the remaining  $\varnothing 3.5$  mm diaphyseal screws.

#### FINAL RESULT



## OPTION 2 : PERPENDICULAR FIXATION USING THE POSTERO-LATERAL PLATE

### → FIXATION OF THE POSTERO-LATERAL PLATE



Lock the Fast Guide onto the postero-lateral plate. Adjust the position of the plate using the slotted hole.

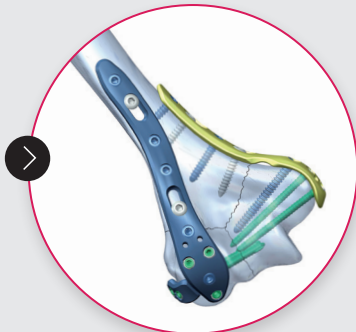
When monoaxial screwing is possible, insert the guide gauge in the Fast Guide, drill using the  $\text{\O}2.3$  mm drill bit, and directly check the depth of the drilling on the graduations of the guide gauge.

Insert the  $\text{\O}2.8$  mm distal screws through the Fast Guide.

**Polyaxial technique :** The distal holes allow for polyaxial screw placement if necessary. For this purpose, screw the polyaxial drill guide into the plate hole, position it as appropriate, lock it and drill using the  $\text{\O}2.3$  mm drill bit. This method does not require the removal of the Fast Guide.

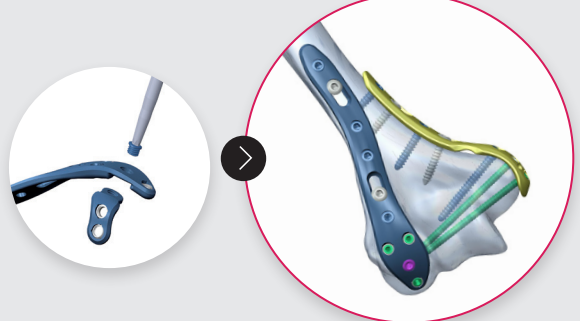
Remove the Fast Guide if need be, drill using the  $\text{\O}2.7$  mm drill bit and insert the last  $\text{\O}3.5$  mm distal screw. Complete the fixation by inserting all the remaining  $\text{\O}3.5$  mm diaphyseal screws.

#### FINAL RESULT WITH LATERAL SUPPORT



**Removable lateral support :** in the case of a perpendicular fixation, the lateral support enables the insertion of 2 additional polyaxial screws, from the lateral to the medial column of the distal humerus.

#### FINAL RESULT WITHOUT LATERAL SUPPORT

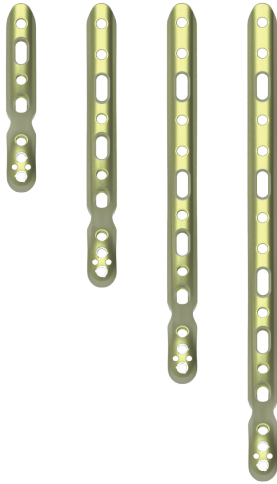


The ALIANS ELBOW postero-lateral plate can be fitted to several types of fracture. It is possible to remove the lateral support. In this case, a non-locking  $\text{\O}3.5$  mm screw can be inserted in the cleared hole.

#### REMARKS

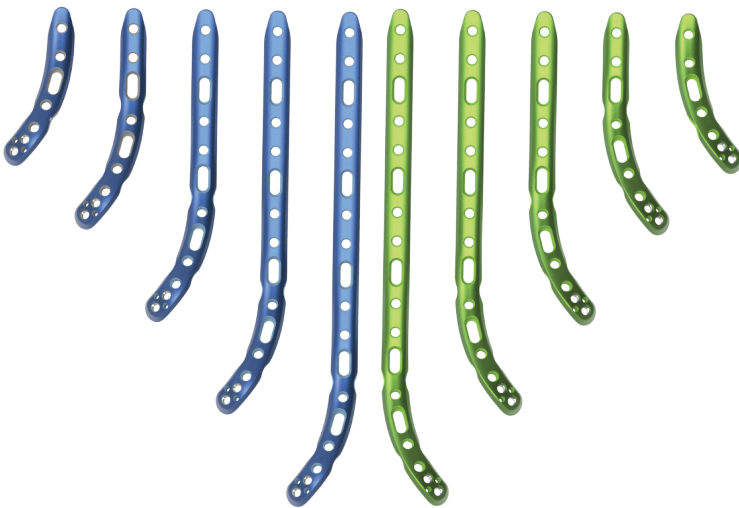
- In the described method, the procedure begins with the fixation of the medial plate, followed by the lateral or postero-lateral plates. However, the fixation order may be reversed.
- The monoaxial fixation technique of the  $\text{\O}2.8$  mm epiphyseal screws requires screw length of less than 45 mm.

# IMPLANT REFERENCES



## MEDIAL PLATES

Ref.	Description
NTSM1	Distal humeral medial plate - Size 1 - Symmetrical - 7 holes - L 77 mm
NTSM2	Distal humeral medial plate - Size 2 - Symmetrical - 10 holes - L 111 mm
NTSM3	Distal humeral medial plate - Size 3 - Symmetrical - 13 holes - L 149 mm
NTSM4	Distal humeral medial plate - Size 4 - Symmetrical - 16 holes - L 186 mm



## LATERAL PLATES

Ref.	Description
NTGL1	Distal humeral lateral plate - Size 1 - Left - 7 holes - L 72 mm
NTDL1	Distal humeral lateral plate - Size 1 - Right - 7 holes - L 72 mm
NTGL2	Distal humeral lateral plate - Size 2 - Left - 9 holes - L 93 mm
NTDL2	Distal humeral lateral plate - Size 2 - Right - 9 holes - L 93 mm
NTGL3	Distal humeral lateral plate - Size 3 - Left - 12 holes - L 131 mm
NTDL3	Distal humeral lateral plate - Size 3 - Right - 12 holes - L 131 mm
NTGL4	Distal humeral lateral plate - Size 4 - Left - 15 holes - L 169 mm
NTDL4	Distal humeral lateral plate - Size 4 - Right - 15 holes - L 169 mm
NTGL5	Distal humeral lateral plate - Size 5 - Left - 18 holes - L 207 mm
NTDL5	Distal humeral lateral plate - Size 5 - Right - 18 holes - L 207 mm

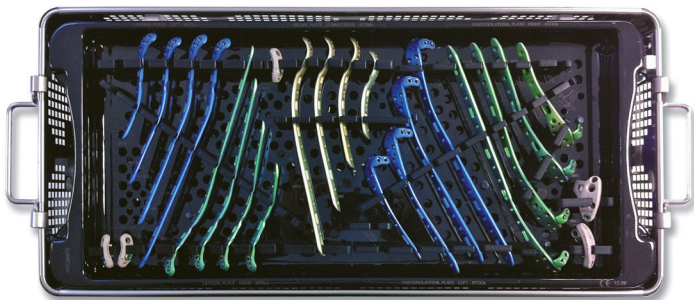


## POSTERO-LATERAL PLATES

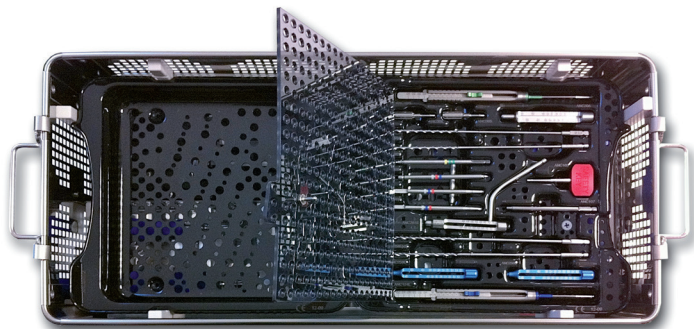
Ref.	Description
NTGQ1	Distal humeral postero-lateral plate - Size 1 - Left - 9 holes - L 74 mm
NTDQ1	Distal humeral postero-lateral plate - Size 1 - Right - 9 holes - L 74 mm
NTGQ2	Distal humeral postero-lateral plate - Size 2 - Left - 11 holes - L 100 mm
NTDQ2	Distal humeral postero-lateral plate - Size 2 - Right - 11 holes - L 100 mm
NTGQ3	Distal humeral postero-lateral plate - Size 3 - Left - 14 holes - L 137 mm
NTDQ3	Distal humeral postero-lateral plate - Size 3 - Right - 14 holes - L 137 mm
NTGQ4	Distal humeral postero-lateral plate - Size 4 - Left - 17 holes - L 175 mm
NTDQ4	Distal humeral postero-lateral plate - Size 4 - Right - 17 holes - L 175 mm
NTGQ5	Distal humeral postero-lateral plate - Size 5 - Left - 20 holes - L 213 mm
NTDQ5	Distal humeral postero-lateral plate - Size 5 - Right - 20 holes - L 213 mm



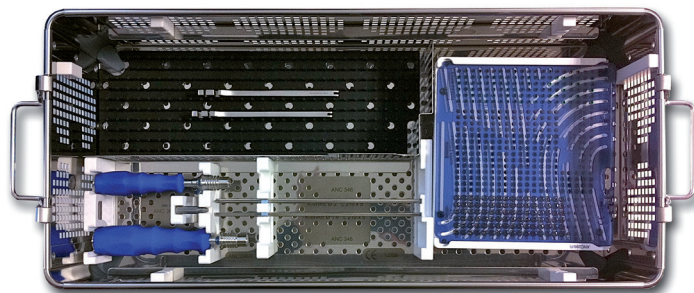
# INSTRUMENTS REFERENCES



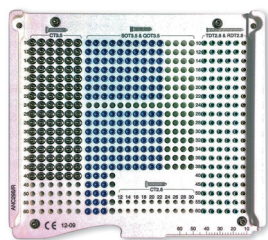
ANC296/13 : IMPLANT SET



ANC296/11 : INSTRUMENT SET



ANC296/B : BASE



ANC296/R : SCREW RACK

## INSTRUMENTS

Ref.	Description	Qty
ANC082E	Hex screwdriver 2.0 mm	1
ANC083C	Hex screwdriver 2.5 mm	2
ANC102L	Depth gauge for DTS2 screws - long length	1
ANC103	Hex safety key 2.0 mm	1
ANC107	Hex safety key 2.5 mm	1
ANC124L	Depth gauge for Ø3.5 mm screws - long length	1
ANC160	Prehensor for fast guide	1
ANC256E	Drill bit Ø2.7mm - L180 mm	2
ANC259E	Guide gauge Ø2.7 mm for locking screws - long length	2
ANC261E	Guide gauge Ø2.7 mm for non-locking screws - long length	1
ANC287	Drill bit Ø2.3 mm - L180 mm	2
ANC305	DTS2 drill guide Ø2.3 mm	2
ANC306	Guide gauge Ø2.3 mm for non-locking screws	1
ANC309	Obturator for drill guide Ø2.3 mm	1
ANC313	Fast Guide for NTSMx plates	1
ANC314	Fast Guide for NTGLx plates	1
ANC315	Fast Guide for NTDLx plates	1
ANC316	Fast Guide for NTGQx plates	1
ANC317	Fast Guide for NTDQx plates	1
33.0216.210	Pins Ø1.6 L 210 mm	5
33.0220.210	Pins Ø2.0 L 210 mm	5
ANC350	Handle AO Ø4.5 mm - size 1	1
ANC351	Handle AO Ø4.5 mm - size 2	1
ANC452	Bending iron	2
ANC463	Hand countersink Ø3.5 mm	1

## REMOVAL KIT

If you have to remove ALIANS ELBOW DISTAL HUMERUS implants, make sure to order the Newclip Technics removal set which includes the following instruments :

- ANC103 for Ø2.8 mm screws
- ANC107 or ANCO16 for Ø3.5 mm screws
- ANC350 : Ø4.5 mm AO quick coupling handle - Size 1



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INNOVATION MEANS MOTION

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