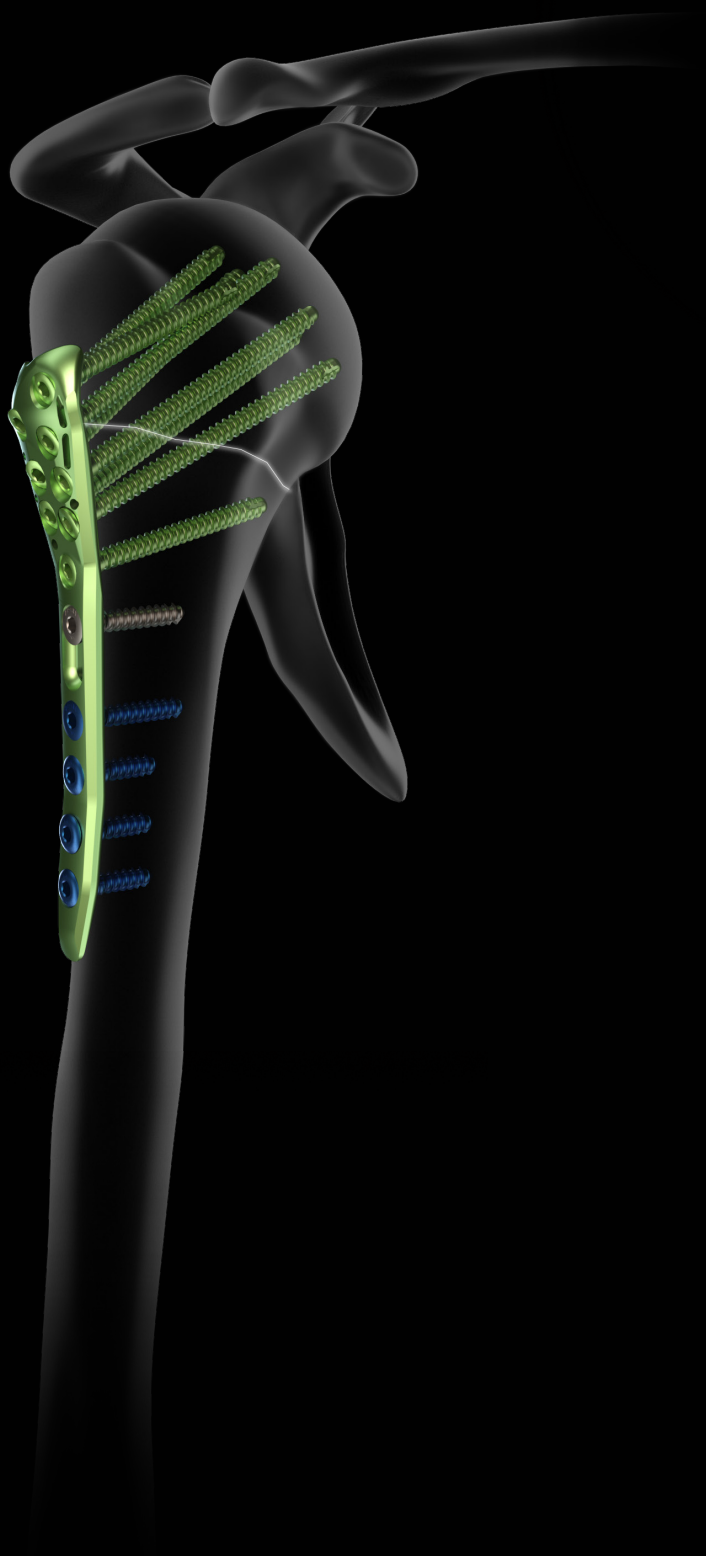
ALIANS PROXIMAL HUMERUS.



PROXIMAL HUMERUS
PLATING SYSTEM

ALIANS PROXIMAL HUMERUS

Intended purpose: the implants of the Alians Proximal Humerus range are intended for osteosynthesis of fractures and fractures dislocations, osteotomies and non-unions of the proximal humerus in adults.

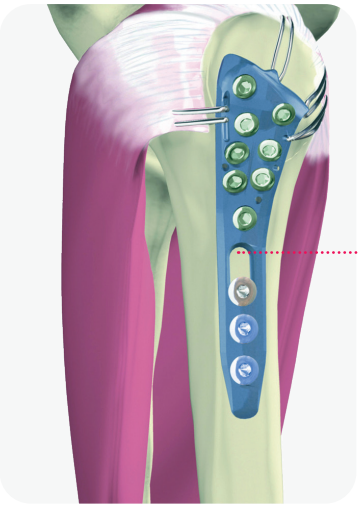
Contra-indications:
- Pregnancy.
- Acute or chronic local or systemic infections.
- Allergy to one of the materials used or sensitivity to foreign bodies.

TECHNICAL FEATURES

ANATOMICALLY SHAPED PLATE

→ POSITIONING OF THE PLATE

- 1.5 cm from the proximal edge of the greater tuberosity.
- Alongside the bicipital groove.

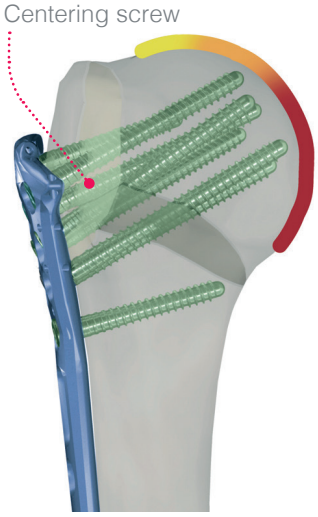


- Suture holes designed for use before or after fracture reduction.
- Oblong hole length allowing for adjustment of the plates height.

SCREW FIXATION FEATURES

→ BLUNT-TIPPED SCREWS

- Allow to be as close as possible to the articular surface.

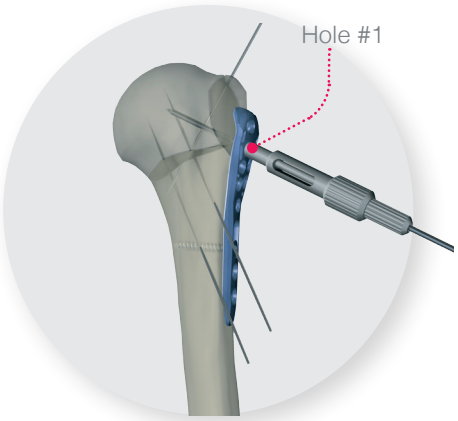


Screw diameter: 4.5 mm
Core diameter: 3.5 mm

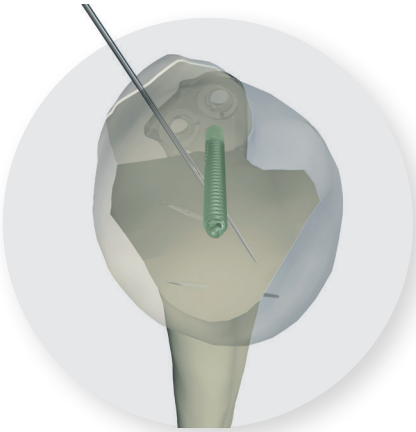
TECHNICAL FEATURES

SCREW FIXATION FEATURES

→ DEDICATED CENTERING SCREW HOLE

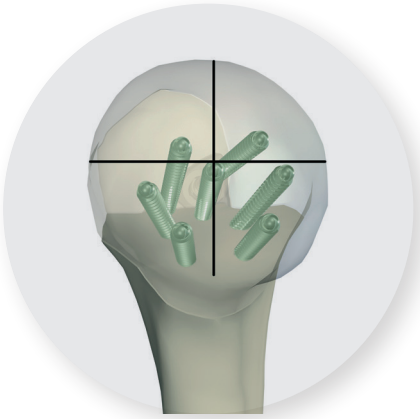


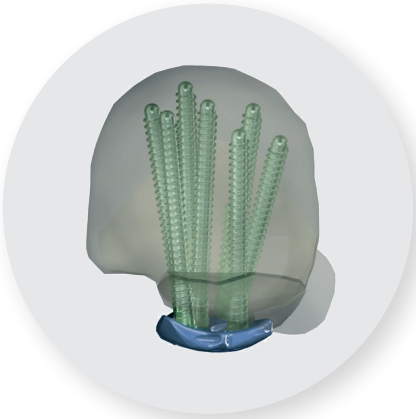
The drill guide (ANC131) and reductor (ANC147), with the Ø2.0 mm pin (33.0220.210), allow placement of a centering screw in the humeral head (hole marked #1).



The centering screw determines the plate positioning and the fixed-angle screw placement.

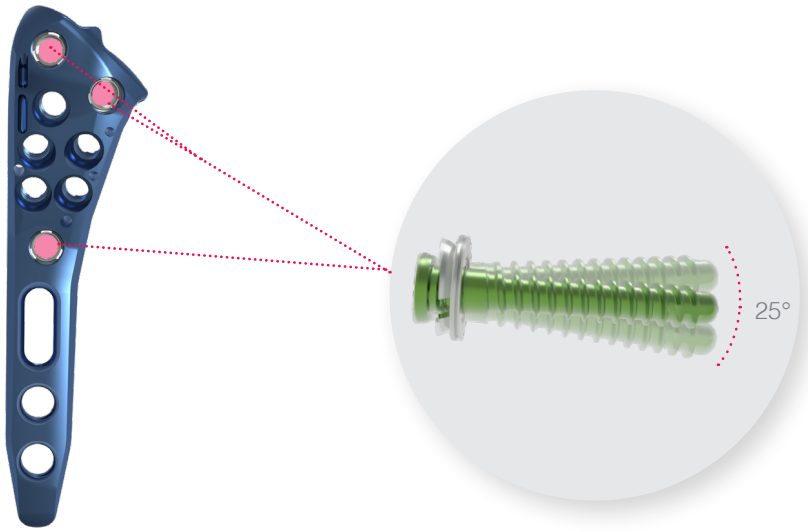
→ PROXIMAL SCREW POSITION





Divergent fixed-angle screws (targeting the inferior quadrants) and polyaxial locking screws allowing for position in the humeral head.

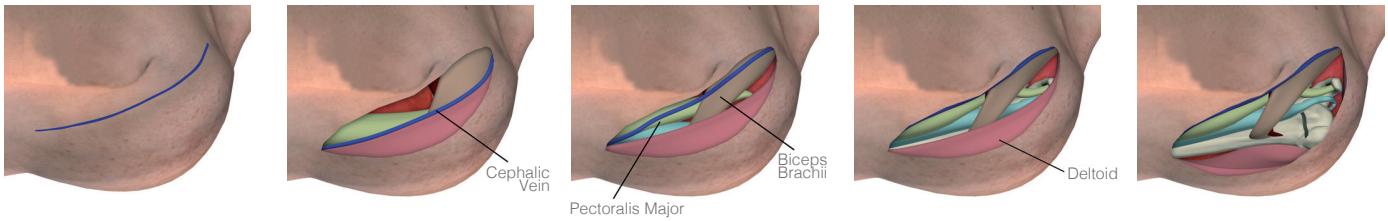
→ POLYAXIAL LOCKING SCREWS



Three variable angle locking screws.

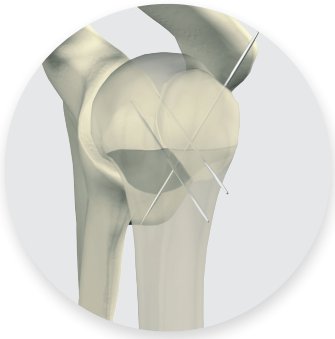
SURGICAL TECHNIQUE

STEP 1 SURGICAL APPROACH



The patient is placed in the beach-chair position.
A deltopectoral approach, passing outside of the cephalic vein, is recommended.

STEP 2 FRACTURE REDUCTION



Reduce the fracture through traction and manipulation and provisionally stabilize the fracture fragments with pins (33.0220.210).

In valgus fracture patterns, the head must be elevated prior to provisional fixation.

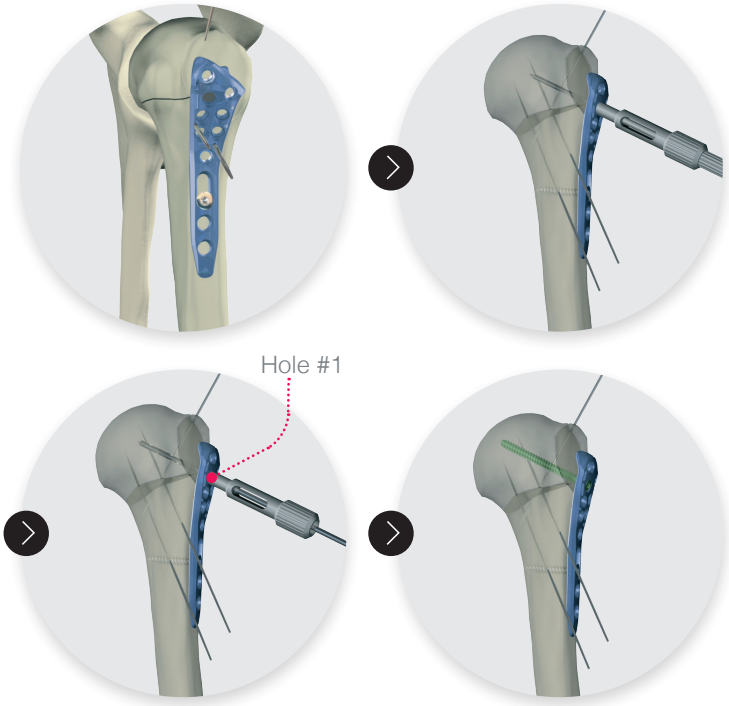
The greater tuberosity is anatomically reduced and pinned to the shaft.

This is facilitated by manipulating the tuberosity with sutures placed through the substance of the infraspinatus. These sutures will later be used as supplemental fixation when they are secured to the plate.

Image intensification is necessary to confirm reduction.

STEP 3 OSTEOSYNTHESIS PROCEDURE

→ CENTERING SCREW



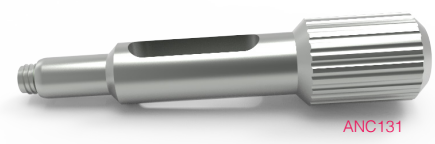
Place the plate alongside the bicipital groove and approximately 1.5 cm distal from the top of the greater tuberosity.

Insert a Ø4.5 mm cortical screw (CT4.5Lxx) into the oblong hole and fasten the plate to the shaft. Provisionally secure the plate to the bone with Ø2.0 mm pins (33.0220.210).

Insert the drill guide (ANC131) with its reductor (ANC147) through hole #1. Insert a Ø2.0 mm pin (33.0220.210) to target the center of the humeral head.

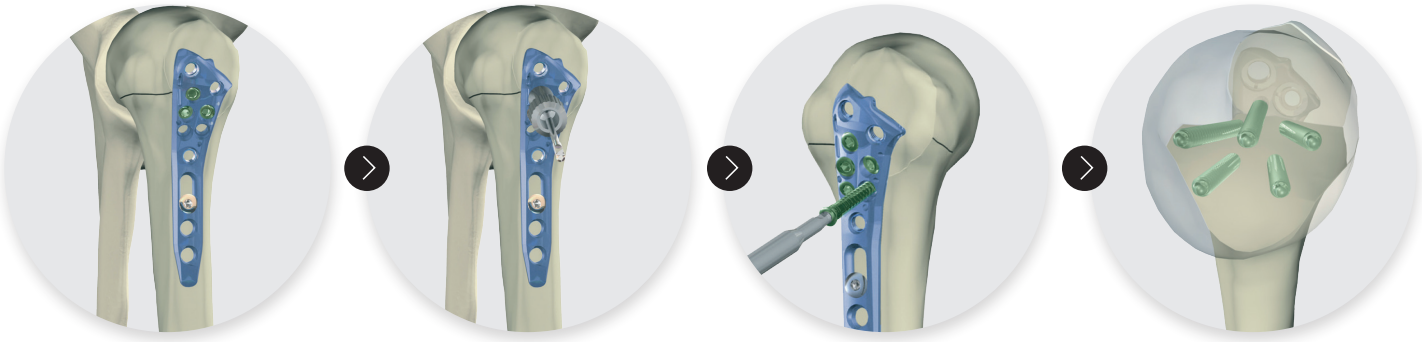
Check position and trajectory under fluoroscopy.

Remove the reductor and then drill using the Ø3.5 mm drill bit (ANC132) through the drill guide (ANC131). Determine the screw length directly at the rear of the drill guide (ANC131), or with the length gauge (ANC129). Insert the first Ø4.5 mm locking screw (PT4.5Lxx).



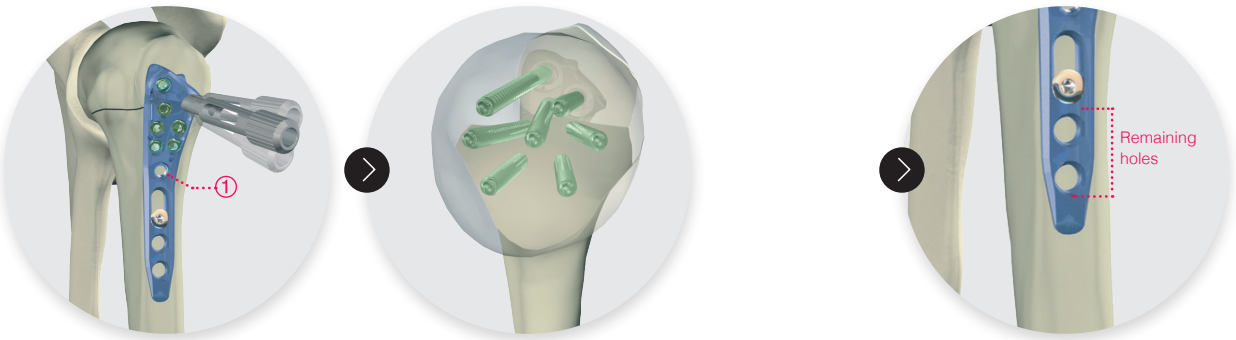
STEP 3 OSTEOSYNTHESIS PROCEDURE

→ FIXED-ANGLE DIVERGENT SCREWS



Use the Ø3.5 mm drill (ANC132) and drill guide (ANC131) in the 4 remaining monoaxial holes. Insert 4 divergent Ø4.5 mm fixed-angle screws (PT4.5Lxx).

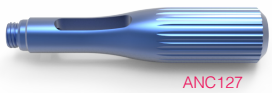
→ POLYAXIAL LOCKING SCREWS



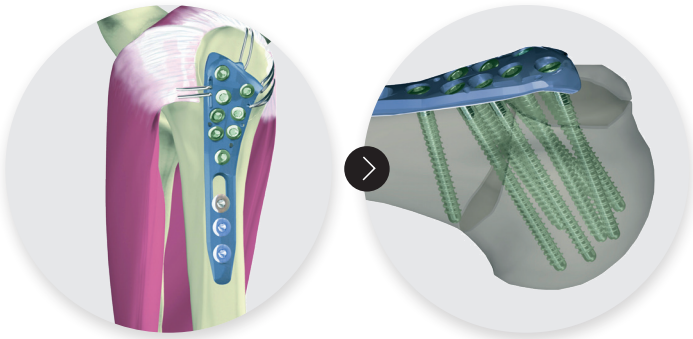
Orientate and lock the first 2 proximal screws and the first metaphyseal screw (①) according to the fracture pattern, using the Ø3.5 mm drill guide (ANC131).

As the highest bone density is located in the inferior quadrants, every attempt should be made to keep the screws descending.

For the remaining holes, use the Ø3.5 mm drill guide (ANC127) and place the remaining distal, non locking (CT4.5Lxx) or locking (VT4.5Lxx) screws at the surgeon's discretion.



STEP 4 SUTURE OF THE TUBEROSITIES

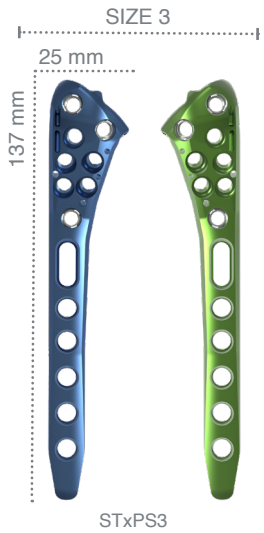


Repair and fasten the tuberosity to the plate through the suture holes.

Assess the final reduction under fluoroscopy.

Suture holes for soft tissue fixation are compatible with Ø2.0 mm needles.

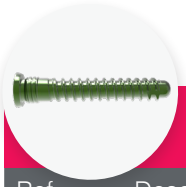
IMPLANT REFERENCES



ALIANS PROXIMAL HUMERUS PLATES	
Ref.	Description
STGPSS1	Proximal humerus plate - Left - Size 1 - Short
STDPSS1	Proximal humerus plate - Right - Size 1 - Short
STGPS1	Proximal humerus plate - Left - Size 1
STDPS1	Proximal humerus plate - Right - Size 1
STGPS2	Proximal humerus plate - Left - Size 2
STDPS2	Proximal humerus plate - Right - Size 2
STGPS3	Proximal humerus plate - Left - Size 3
STDPS3	Proximal humerus plate - Right - Size 3
STGPS4-ST*	Proximal humerus plate - Left - Size 4 - STERILE
STDPS4-ST*	Proximal humerus plate - Right - Size 4 - STERILE
STGPS5-ST*	Proximal humerus plate - Left - Size 5 - STERILE
STDPS5-ST*	Proximal humerus plate - Right - Size 5 - STERILE

** Only available in sterile version on demand.*

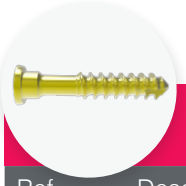
IMPLANT REFERENCES



Ø4.5 MM
DTS® SCREWS*

Ref.	Description
PT4.5L26	Ø4.5 mm DTS locking screw - L26 mm
PT4.5L28	Ø4.5 mm DTS locking screw - L28 mm
PT4.5L30	Ø4.5 mm DTS locking screw - L30 mm
PT4.5L32	Ø4.5 mm DTS locking screw - L32 mm
PT4.5L34	Ø4.5 mm DTS locking screw - L34 mm
PT4.5L36	Ø4.5 mm DTS locking screw - L36 mm
PT4.5L38	Ø4.5 mm DTS locking screw - L38 mm
PT4.5L40	Ø4.5 mm DTS locking screw - L40 mm
PT4.5L42	Ø4.5 mm DTS locking screw - L42 mm
PT4.5L44	Ø4.5 mm DTS locking screw - L44 mm
PT4.5L46	Ø4.5 mm DTS locking screw - L46 mm
PT4.5L48	Ø4.5 mm DTS locking screw - L48 mm
PT4.5L50	Ø4.5 mm DTS locking screw - L50 mm
PT4.5L52	Ø4.5 mm DTS locking screw - L52 mm
PT4.5L54	Ø4.5 mm DTS locking screw - L54 mm
PT4.5L56	Ø4.5 mm DTS locking screw - L56 mm
PT4.5L58	Ø4.5 mm DTS locking screw - L58 mm
PT4.5L60	Ø4.5 mm DTS locking screw - L60 mm

* Green anodized

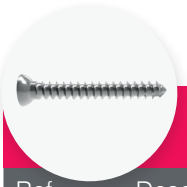


Ø4.5 MM
NON LOCKED RETAINING SCREWS* (1)

Ref.	Description
QT4.5L32	Ø4.5 mm lag screw - L32 mm
QT4.5L36	Ø4.5 mm lag screw - L36 mm
QT4.5L40	Ø4.5 mm lag screw - L40 mm
QT4.5L44	Ø4.5 mm lag screw - L44 mm

* Golden anodized

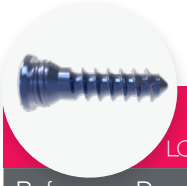
(1) Only used in intraoperative situation for reduction before the insertion of a locking screw (PT4.5Lxx).



Ø4.5 MM
NON LOCKING SCREWS*

Ref.	Description
CT4.5L20	Ø4.5 mm non-locking screw - L20 mm
CT4.5L22	Ø4.5 mm non-locking screw - L22 mm
CT4.5L24	Ø4.5 mm non-locking screw - L24 mm
CT4.5L26	Ø4.5 mm non-locking screw - L26 mm
CT4.5L28	Ø4.5 mm non-locking screw - L28 mm
CT4.5L30	Ø4.5 mm non-locking screw - L30 mm
CT4.5L32	Ø4.5 mm non-locking screw - L32 mm
CT4.5L34	Ø4.5 mm non-locking screw - L34 mm
CT4.5L36	Ø4.5 mm non-locking screw - L36 mm
CT4.5L38	Ø4.5 mm non-locking screw - L38 mm
CT4.5L40	Ø4.5 mm non-locking screw - L40 mm

* Not anodized

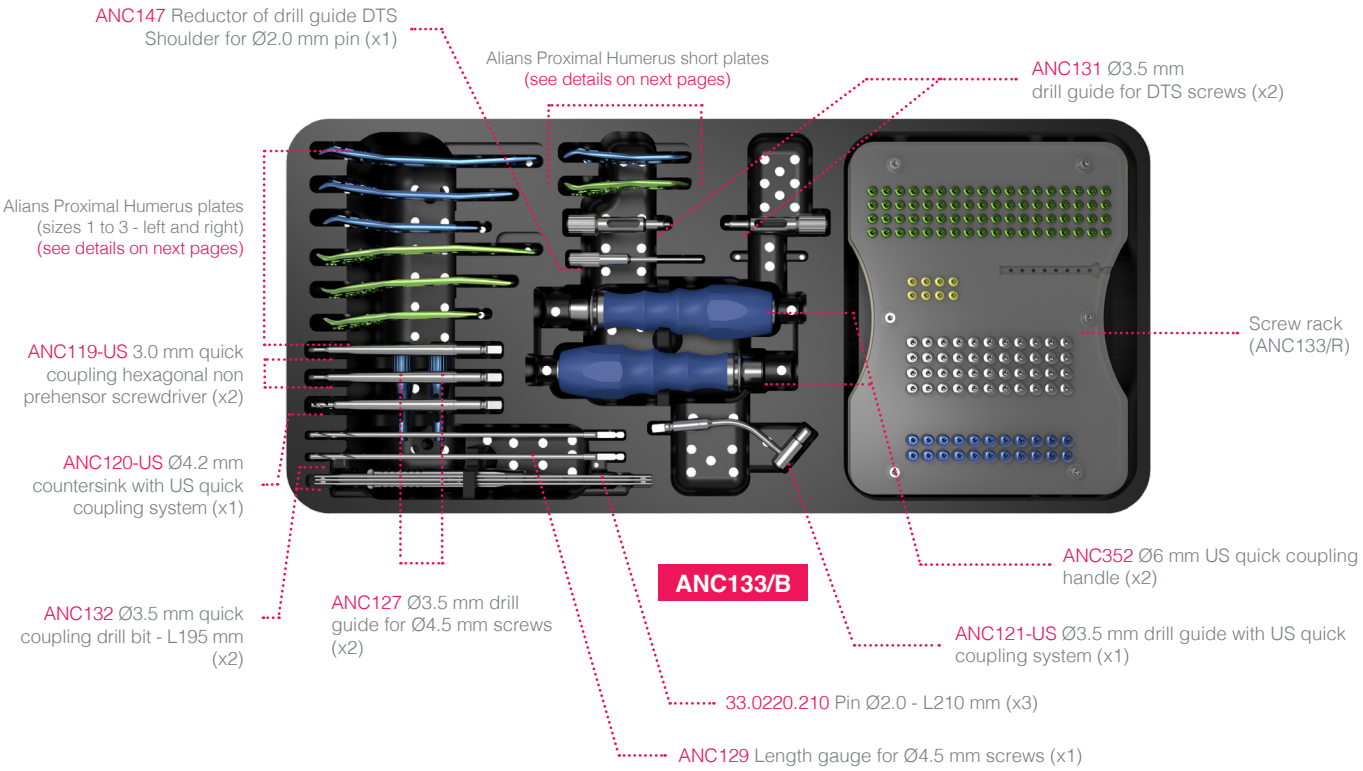


Ø4.5 MM
LOCKING SELF-TAPPING CORTICAL SCREWS*

Ref.	Description
VT4.5L20	Ø4.5 mm locking cortical screw - L20 mm
VT4.5L22	Ø4.5 mm locking cortical screw - L22 mm
VT4.5L24	Ø4.5 mm locking cortical screw - L24 mm
VT4.5L26	Ø4.5 mm locking cortical screw - L26 mm
VT4.5L28	Ø4.5 mm locking cortical screw - L28 mm
VT4.5L30	Ø4.5 mm locking cortical screw - L30 mm
VT4.5L32	Ø4.5 mm locking cortical screw - L32 mm
VT4.5L34	Ø4.5 mm locking cortical screw - L34 mm
VT4.5L36	Ø4.5 mm locking cortical screw - L36 mm
VT4.5L38	Ø4.5 mm locking cortical screw - L38 mm
VT4.5L40	Ø4.5 mm locking cortical screw - L40 mm

* Blue anodized

INSTRUMENT REFERENCES



INSTRUMENTS		
Ref.	Description	Qty
ANC119-US	3.0 mm quick coupling hexagonal prehensor screwdriver	2
ANC120-US	Ø4.2 mm countersink with US quick coupling system	1
ANC121-US	Ø3.5 mm drill guide with US quick coupling system	1
ANC127	Ø3.5 mm drill guide for Ø4.5 mm screws	2
ANC129	Length gauge for Ø4.5 mm screws	1
ANC131	Ø3.5 mm drill guide for DTS® screws	2
ANC132	Ø3.5 mm quick coupling drill bit - L195 mm	2
ANC147	Reductor of drill guide DTS Shoulder for Ø2.0 mm pin	1
ANC352	Ø6 mm US quick coupling handle	2
33.0220.210	Pin Ø2.0 L210 mm	3

REMOVAL SET

If you have to remove Alians Proximal Humerus implants, make sure to order the Newclip Technics removal set which includes the following instruments:

- ANC119-US: 3.0 mm quick coupling hexagonal screwdriver for Ø4.5 mm screws
- ANC352: Ø6 mm US quick coupling handle

Manufacturer: Newclip Technics - Brochure EN - Alians proximal humerus - Ed.17 - 02/2025 - Medical devices: class IIb - CE1639 SGS BE - Read labelling and instructions before the use of Newclip Technics medical devices. These products must be handled and/or implanted by trained and qualified staff who have read the instructions before use. Non-contractual pictures.
Newclip Technics - 45 rue des Garottières - 44115 Haute Goulaine, France. Our subsidiaries: Newclip USA - Newclip Australia - Newclip GMBH - Newclip Japan - Newclip Iberia - Newclip Belgium - Nexcmip Italia

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