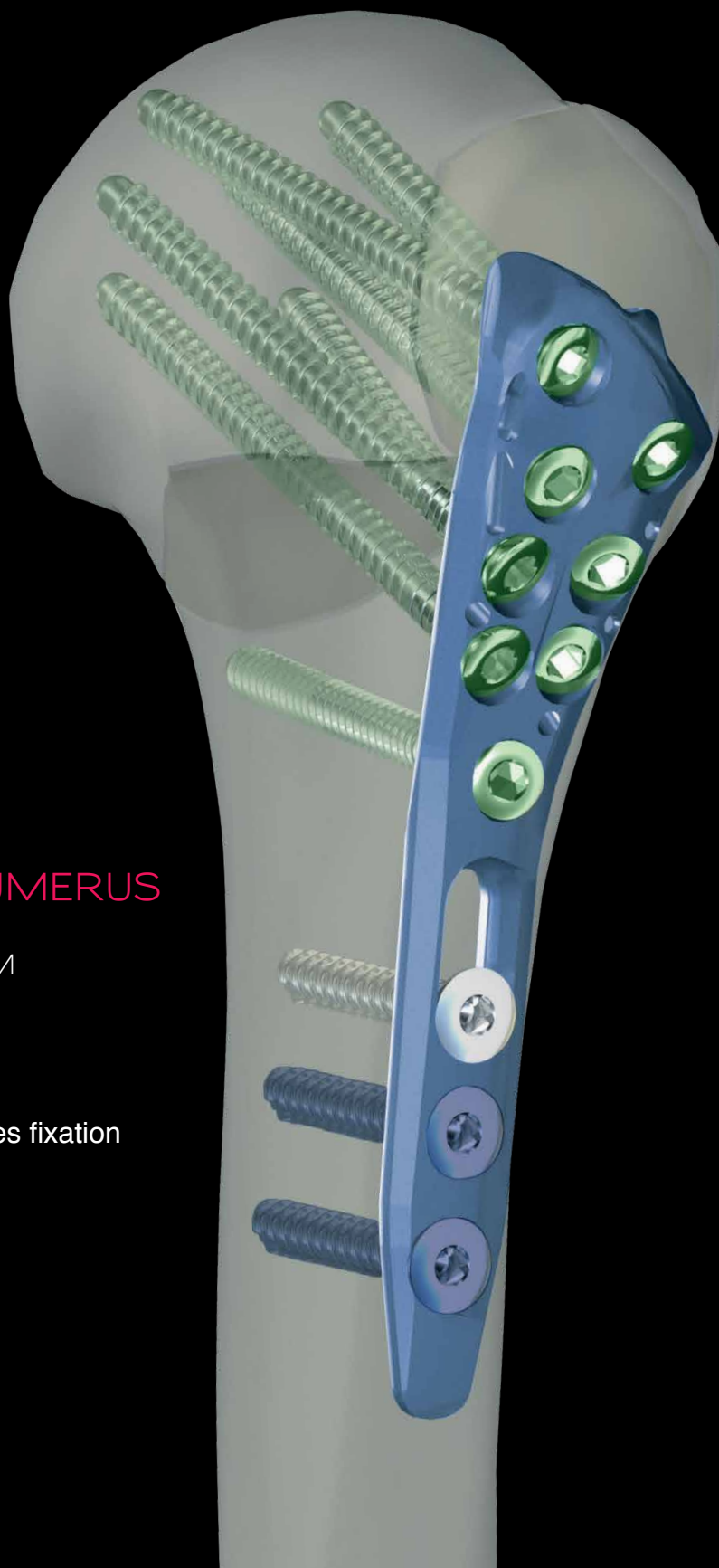




NEWCLIP-TECHNICS

INNOVATION MEANS MOTION



## ALIANS PROXIMAL HUMERUS

POLYAXIAL LOCKING SYSTEM

*DualTec System*®

- ▶ Polyaxiality of 25°
- ▶ Unique suture holes for soft tissues fixation
- ▶ Precontoured implant

# ALIANS PROXIMAL HUMERUS

**Indications:** The Alians Proximal Humerus range is intended for the fixation of fractures and fracture-dislocations, osteotomies, and non-unions of the proximal humerus.

**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 the correct insertion of the screws 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

### ANATOMICALLY SHAPED PLATE

→ IDEAL PLACEMENT OF THE PLATE

- 1.5 cm from the proximal edge of the greater tuberosity, avoiding any problem of impingement.
- Alongside the bicipital groove.

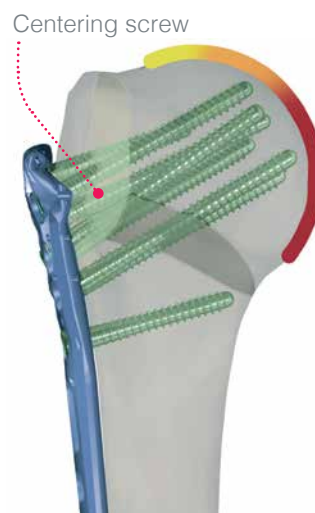


- Unique & easily accessible suture holes allowing for effective stabilization of the tuberosities.
- Optimized oblong hole length allowing for adjustment of plate height.

### SCREW FIXATION FEATURES

→ BLUNT-TIPPED SCREWS

- Limit protrusion through the articular surface.
- Allow to be as close as possible to the articular surface for a better construct.



Screw diameter: 4.5 mm  
Core diameter: 3.5 mm

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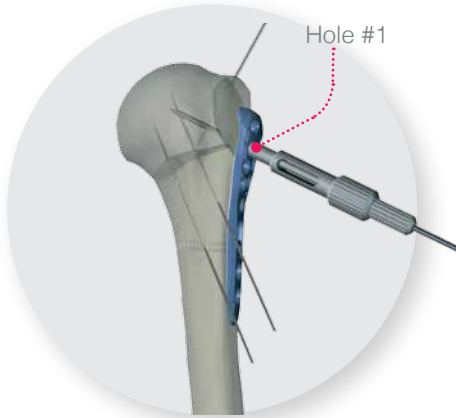
# TECHNICAL FEATURES

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## → DEDICATED CENTERING SCREW HOLE

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

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



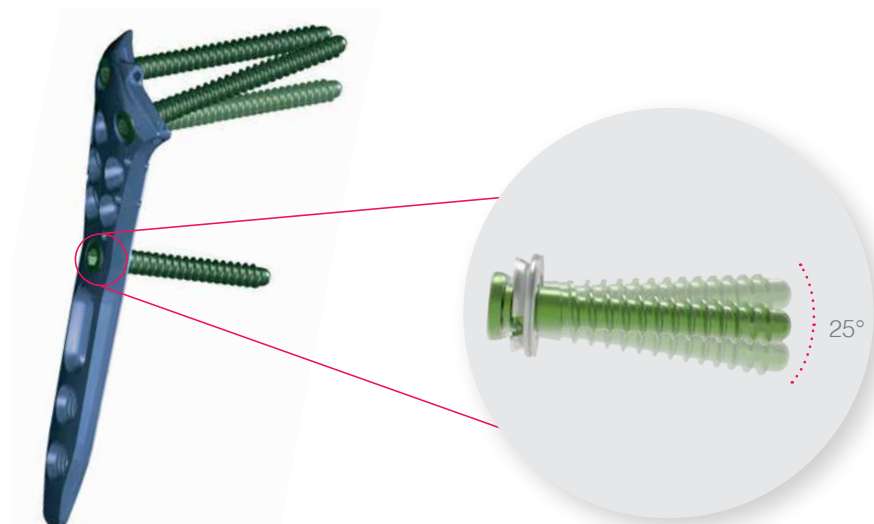
## → OPTIMIZED PROXIMAL SCREW POSITION

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



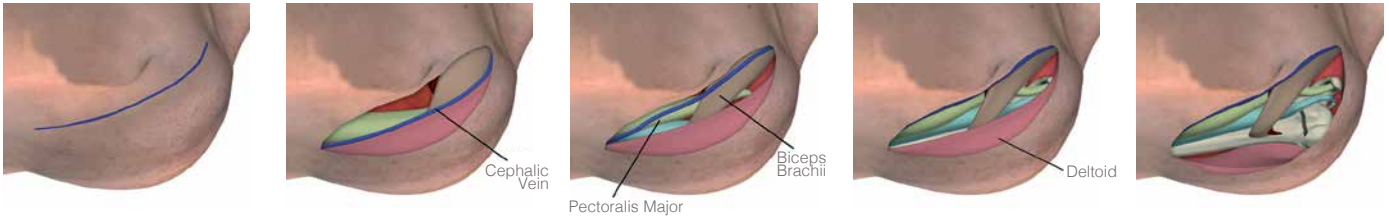
## → POLYAXIAL LOCKING SCREWS

Three variable angle locking screws allow to cope with every fracture pattern.



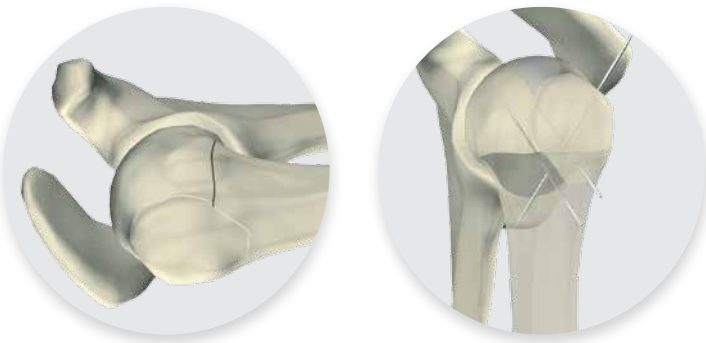
# SURGICAL TECHNIQUE

## STEP 1 SURGICAL APPROACH



The patient is placed in the beach-chair position.  
A deltopectoral approach, passing outside of the cephalic vein, is recommended.  
Retract the cephalic vein laterally and the pectoralis major medially.

## 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.

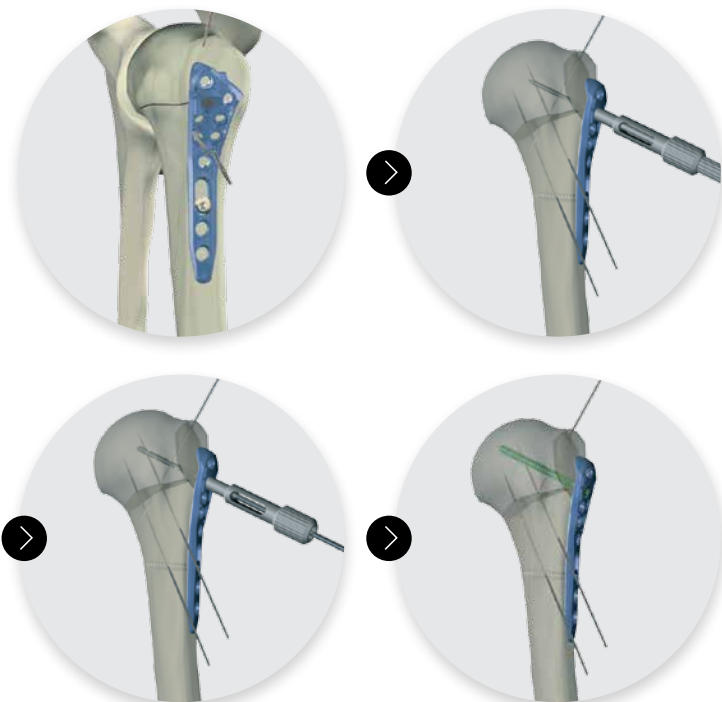
The greater tuberosity is anatomically reduced and pinned to the shaft.

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 to 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 with the C-arm.

Then drill at Ø3.5 mm (ANC132) through the drill guide (ANC131) and insert the first Ø4.5 mm locking screw (PT4.5Lxx).



ANC131

# SURGICAL TECHNIQUE

## → FIXED-ANGLE DIVERGENT SCREWS

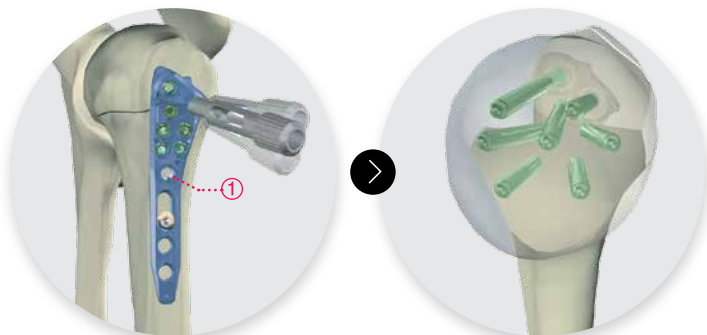


Use the Ø3.5 mm drill guide (ANC131) and drill 4 divergent Ø4.5 mm fixed-angle screws (PT4.5Lxx).

This precise screw pattern enhances resistance to varus forces.

Blunt-tipped screws limit protrusion through the articular surface.

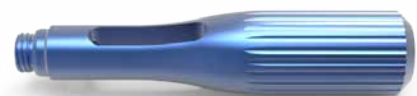
## → POLYAXIAL LOCKING SCREWS



Orientate and lock the first 2 proximal screws and the first metaphyseal screw (①) according to the fracture pattern.

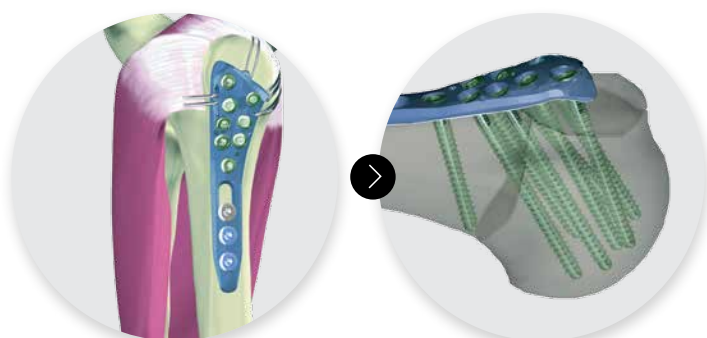
As the highest bone density is located in the inferior quadrants, every attempt should be made to keep the screws descending.

Use the Ø3.5 mm drill guide (ANC127) and place the remaining distal cortical screws, non locking (CT4.5Lxx) or locking (VT4.5Lxx) at the surgeon's preference.



ANC127

## STEP 4 SUTURE OF THE TUBEROSITIES AND C-ARM CONTROL

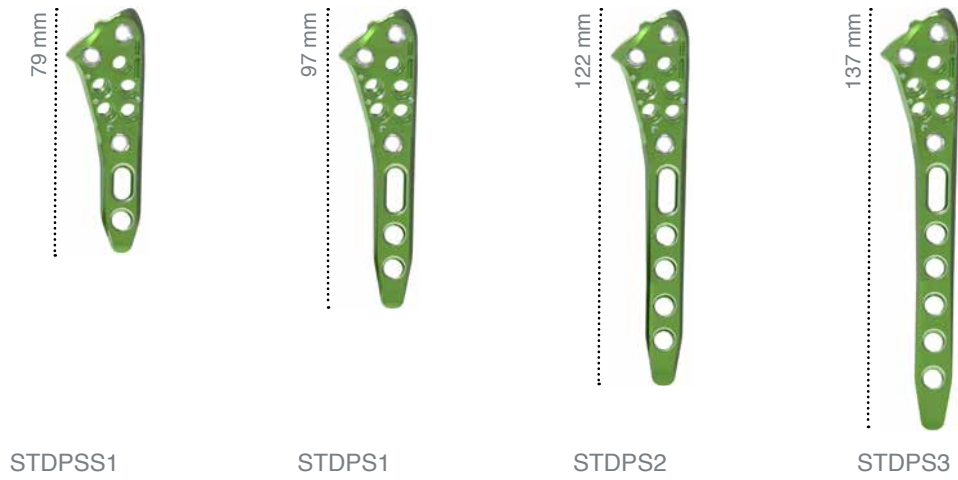


Repair and fasten the tuberosity to the plate through the suture holes.

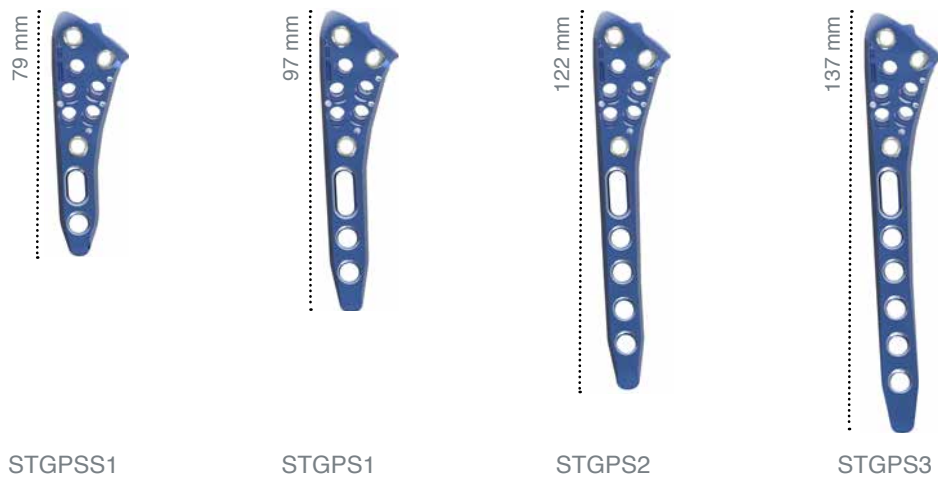
Assess the final reduction under fluoroscopy.

# IMPLANTS REFERENCES

## → RIGHT PLATES - GREEN ANODIZED



## → LEFT PLATES - BLUE ANODIZED



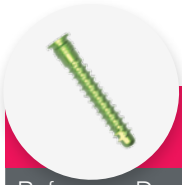
### ALIANS PROXIMAL HUMERUS PLATES

Ref.	Description
STDPSS1	Proximal humerus plate - Right - Size 1 - Short
STGPSS1	Proximal humerus plate - Left - Size 1 - Short
STDPS1	Proximal humerus plate - standard - Right - Size 1
STGPS1	Proximal humerus plate - standard - Left - Size 1
STDPS2	Proximal humerus plate - standard - Right - Size 2
STGPS2	Proximal humerus plate - standard - Left - Size 2
STDPS3	Proximal humerus plate - standard - Right - Size 3
STGPS3	Proximal humerus plate - standard - Left - Size 3

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



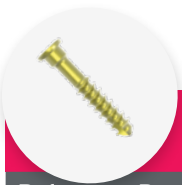
# IMPLANTS REFERENCES



Ø4.5 MM  
DTS® SCREWS\*

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

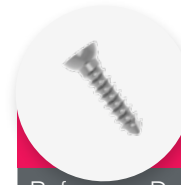
\* Green anodized



Ø4.5 MM  
NON LOCKED RETAINING SCREWS\*

Ref.	Description
QT4.5L32	Non locked retaining screws - Ø4.5 mm - L32 mm
QT4.5L36	Non locked retaining screws - Ø4.5 mm - L36 mm
QT4.5L40	Non locked retaining screws - Ø4.5 mm - L40 mm
QT4.5L44	Non locked retaining screws - Ø4.5 mm - L44 mm

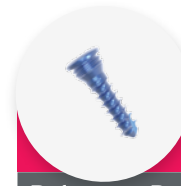
\* Golden anodized



Ø4.5 MM  
STANDARD CORTICAL SCREWS\*

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

\* Not anodized

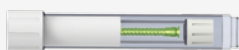


Ø4.5 MM  
LOCKING SELF-TAPPING CORTICAL SCREWS\*

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

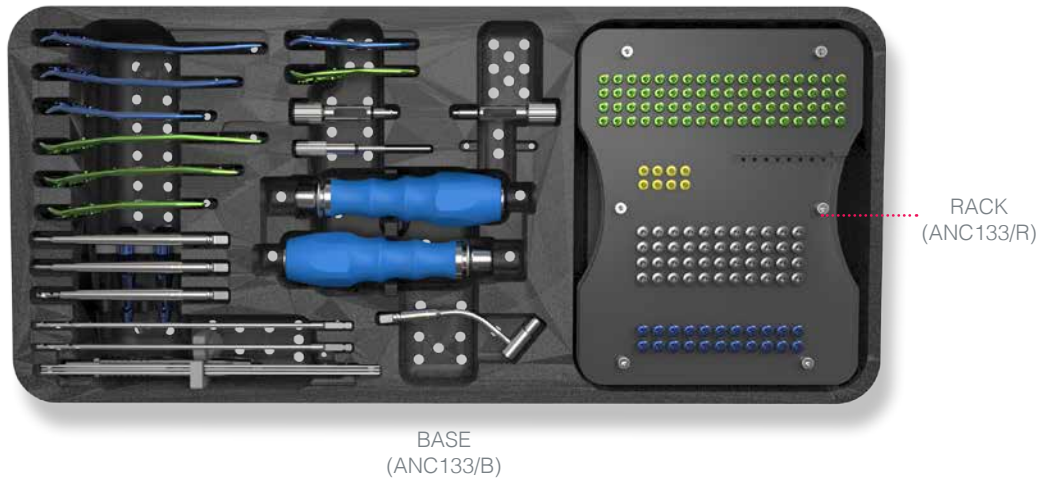
\* Blue anodized

## Remark:



Please note that all implants are also available in sterile packaging. The double tube packaging is handy and easy to use. An "ST" code is added at the end of the reference. e.g. "PT4.5L26-ST"

# INSTRUMENTS REFERENCES



INSTRUMENTS		
Ref.	Description	Qty
ANC119-US	3.0 mm quick coupling hexagonal screwdriver	2
ANC120-US	Ø4.2 mm reamer 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 locking cortical screws Ø4.5 mm	2
ANC129	Length gauge for Ø4.5 mm DTS® screws	1
ANC131	Ø3.5 mm drill guide for DTS® screws	2
ANC132	Ø3.5 mm quick coupling drill bit - L195 mm	2
ANC147	Reducer 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

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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