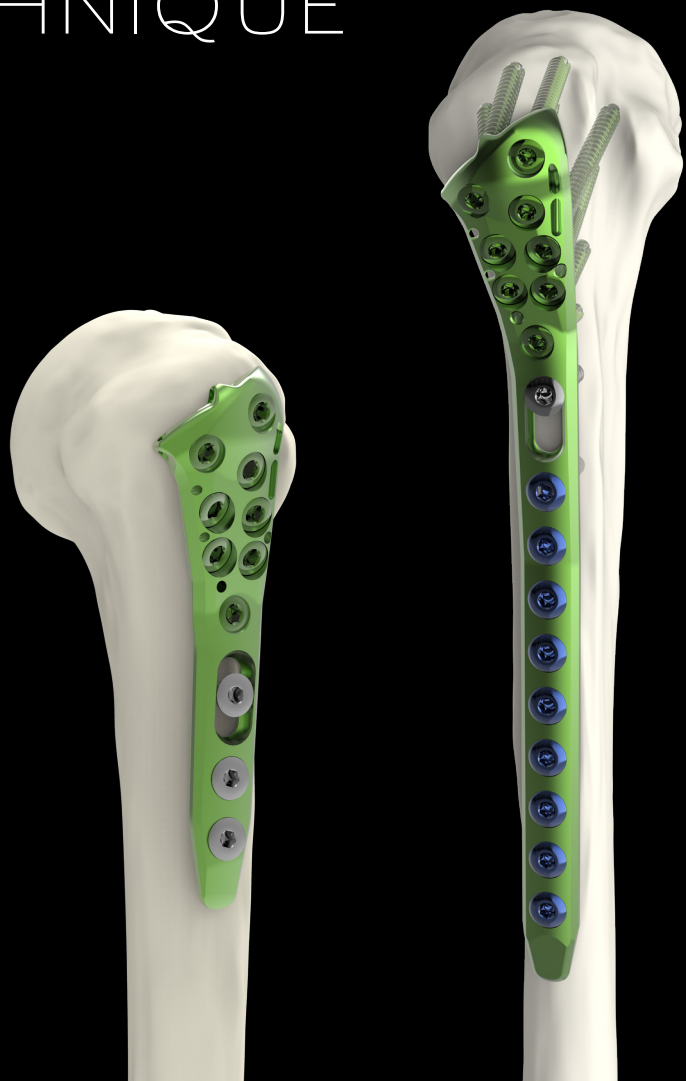




NEWCLIP
TECHNICS

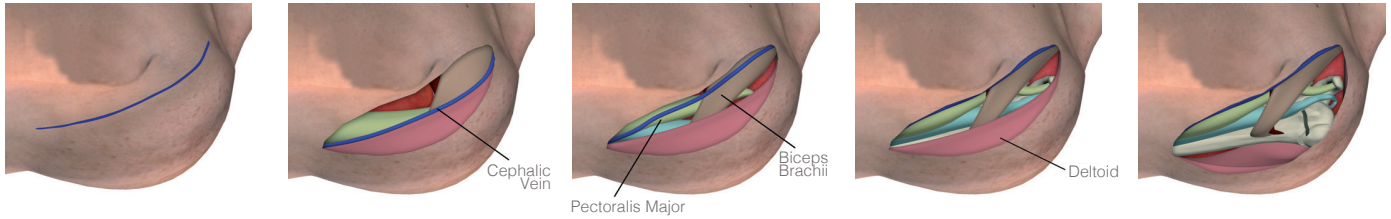
SURGICAL TECHNIQUE



ALIANS
PROXIMAL HUMERUS

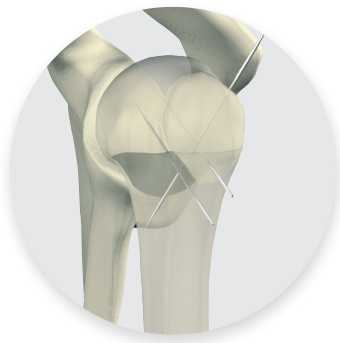
SURGICAL TECHNIQUE

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.

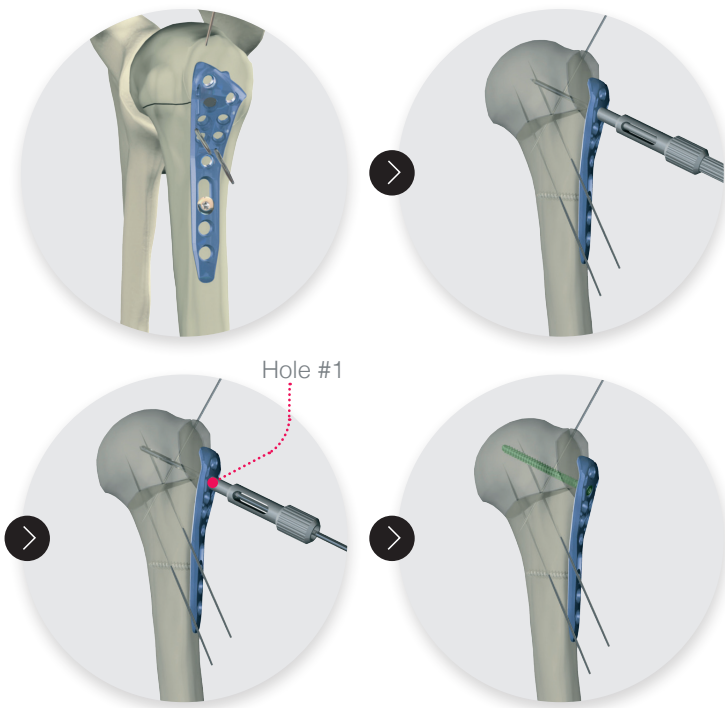
The greater tuberosity is anatomically reduced and pinned to the shaft.

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

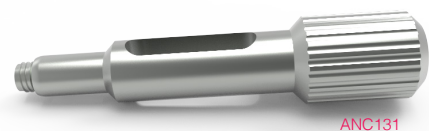


Place the plate alongside the bicipital groove and approximately 1.5 cm distal from the top of the greater tuberosity.

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.

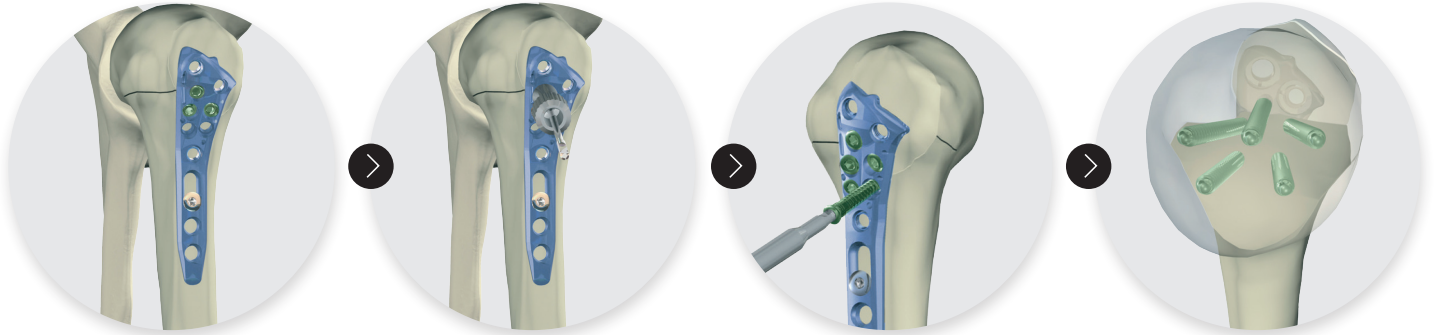
Remove the reductor and then drill using the Ø3.5 mm drill bit (ANC132) through the drill guide (ANC131) and insert the first Ø4.5 mm locking screw (PT4.5Lxx).



SURGICAL TECHNIQUE

STEP 3 OSTEOSYNTHESIS PROCEDURE

→ FIXED-ANGLE DIVERGENT SCREWS

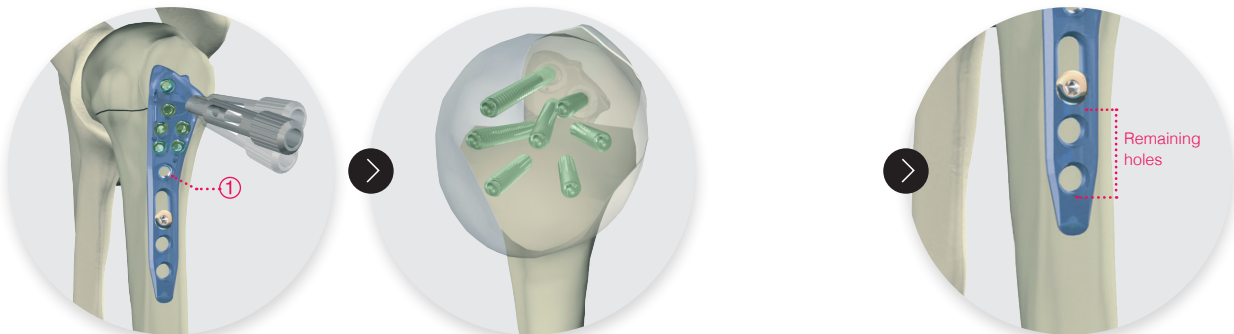


Use the Ø3.5 mm drill (ANC132) and drill guide (ANC131) in the 4 remaining monoaxial holes. Insert 4 divergent Ø4.5 mm fixed-angle screws (PT4.5Lxx).

This precise screw pattern enhances resistance to varus forces.

Blunt-tipped screws limit protrusion through the articular surface.

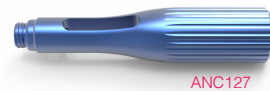
→ POLYAXIAL LOCKING SCREWS



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

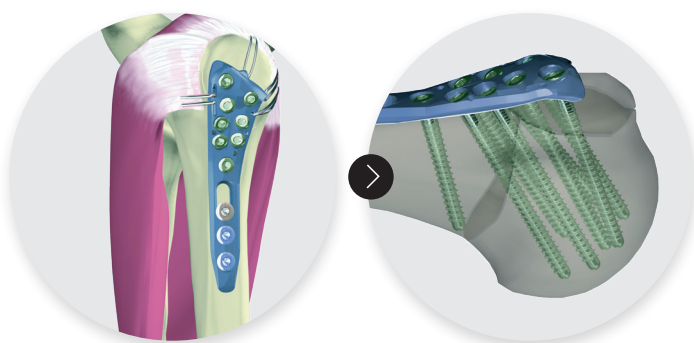
As the highest bone density is located in the inferior quadrants, every attempt should be made to keep the screws descending.

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



ANC127

STEP 4 SUTURE OF THE TUBEROSITIES

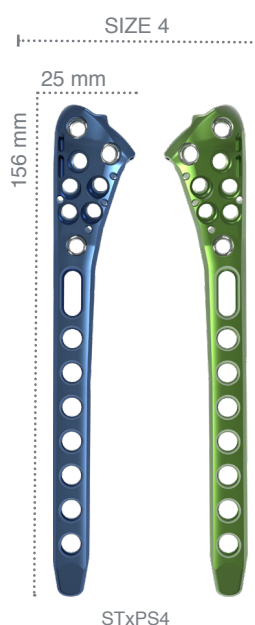
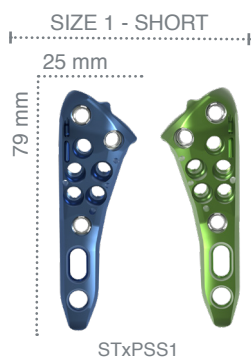


Repair and fasten the tuberosity to the plate through the suture holes.

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

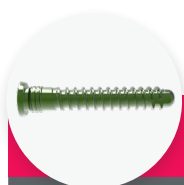
Ref.	Description
STGPSS1	Proximal humerus plate - Left - Size 1 - Short
STDPSS1	Proximal humerus plate - Right - Size 1 - Short
STGPS1	Proximal humerus plate - Standard - Left - Size 1
STDPS1	Proximal humerus plate - Standard - Right - Size 1
STGPS2	Proximal humerus plate - Standard - Left - Size 2
STDPS2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

ALIANS PROXIMAL HUMERUS STERILE PLATES

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

* Only available in sterile version on demand.

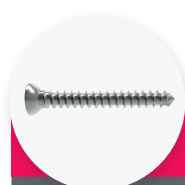
IMPLANT REFERENCES



Ø4.5 MM
DTS® SCREWS*

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

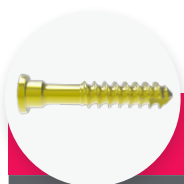
* Green anodized



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

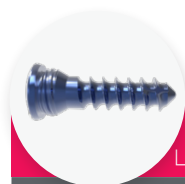


Ø4.5 MM
NON LOCKED RETAINING SCREWS* (1)

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

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



Ø4.5 MM
LOCKING SELF-TAPPING CORTICAL SCREWS*

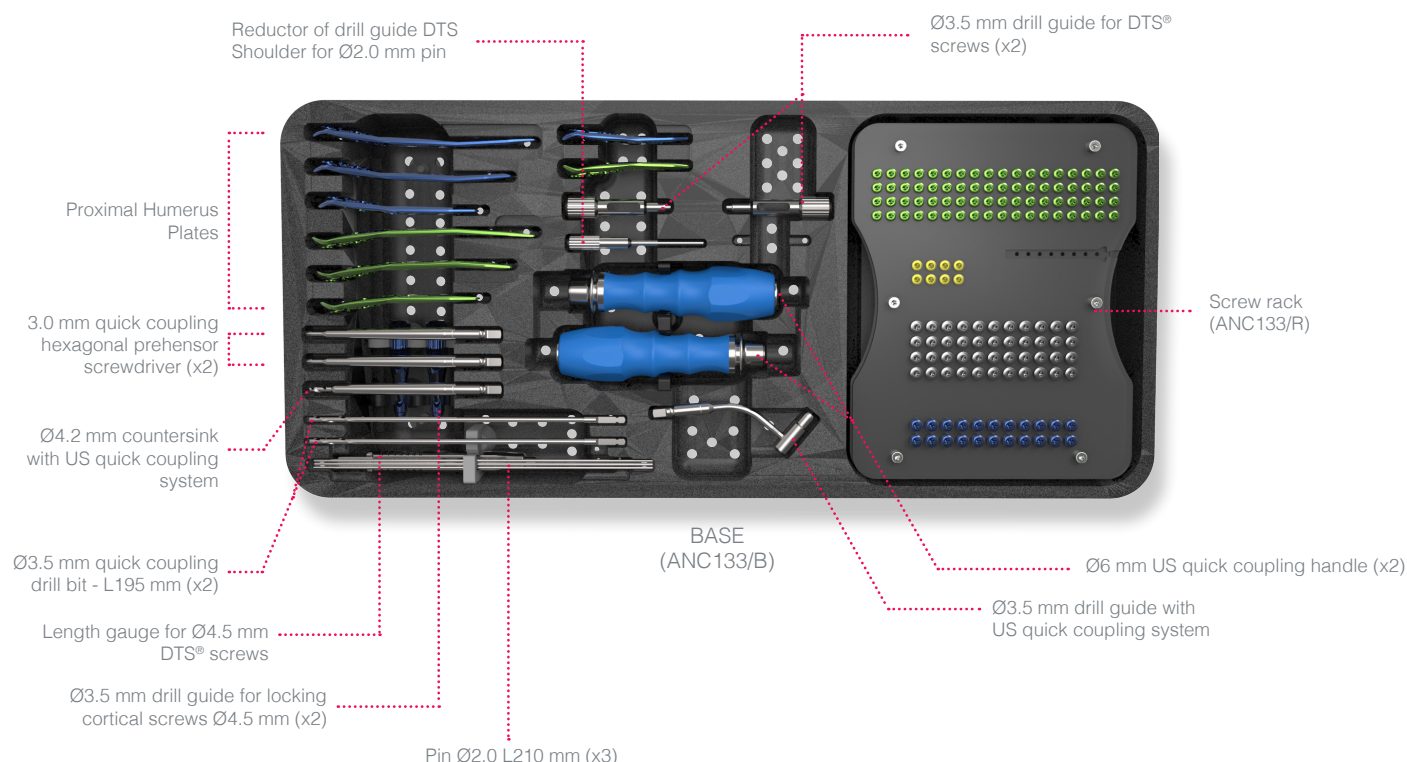
Ref.	Description
VT4.5L20	Locking cortical screw - Ø4.5 mm - L20 mm
VT4.5L22	Locking cortical screw - Ø4.5 mm - L22 mm
VT4.5L24	Locking cortical screw - Ø4.5 mm - L24 mm
VT4.5L26	Locking cortical screw - Ø4.5 mm - L26 mm
VT4.5L28	Locking cortical screw - Ø4.5 mm - L28 mm
VT4.5L30	Locking cortical screw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

* Blue anodized

REMARK:

Please note that all implants are also available in sterile packaging. An "ST" code is added at the end of the reference. Example: "PT4.5L26-ST"

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 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

Indications: 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:

- 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.



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