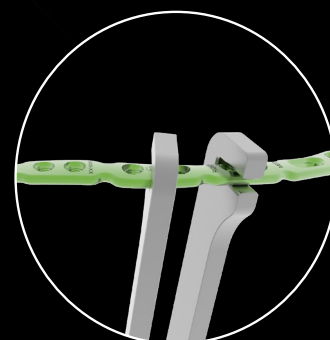
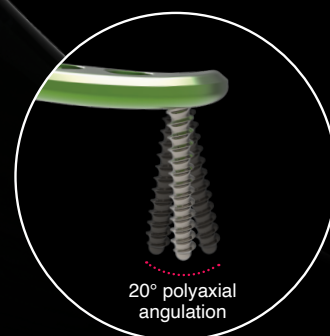




NEWCLIP-TECHNICS

INNOVATION MEANS MOTION



ALIANS
CLAVICLE S

POLYAXIAL LOCKING FIXATION
DUALTEC SYSTEM® III

- ▶ Precontoured and bendable implants
- ▶ Comprehensive range of superior plates
- ▶ Pre-angled screws allowing a 20° polyaxial angulation

ALIANS CLAVICLE S

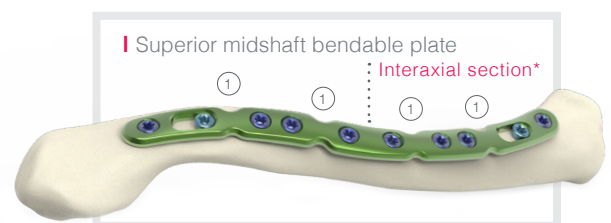
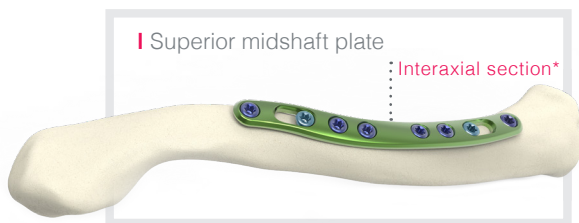
Indications: Implants of the Alians Clavicle range are dedicated to the fixation of fractures, mal-unions, non-unions, and osteotomies of the clavicle in adults.

Contraindications:

- 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.

A COMPREHENSIVE RANGE OF PLATES

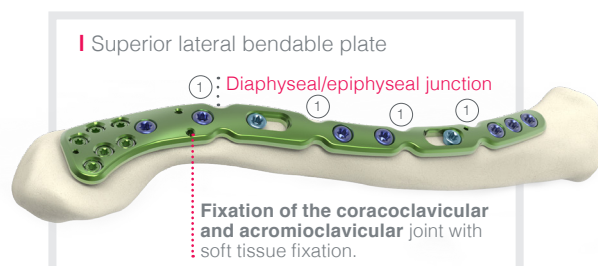
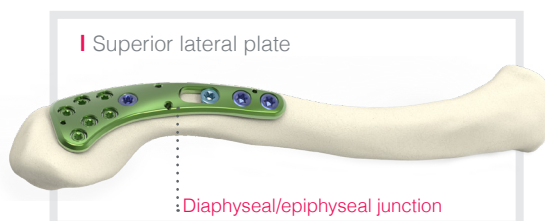
→ PLATES DEDICATED TO THE MIDDLE-THIRD OF THE CLAVICLE:



*Interaxial section: The interaxial section of the plate is positioned above the fracture so as to improve the torsional resistance of the device.

- ① Thanks to their bendable sections, the bendable plates ensure an optimized fit in case of complex fractures and non-unions.

→ PLATES DEDICATED TO THE LATERAL PART OF THE CLAVICLE:



FIXATIONS

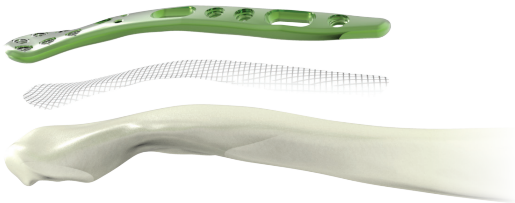
- DTS3 polyaxial holes for Ø2.8 mm locking screws (SDT2.8LxxD), for lateral plates only.
- Holes for Ø3.5 mm locking (SOT3.5LxxD) and cortical (CT3.5LxxD) screws.
- Oblong holes for Ø3.5 mm (CT3.5LxxD) cortical screws.

TECHNICAL FEATURES

A PRECONTOURED IMPLANT

→ OPTIMIZED ANATOMICAL CONGRUENCE

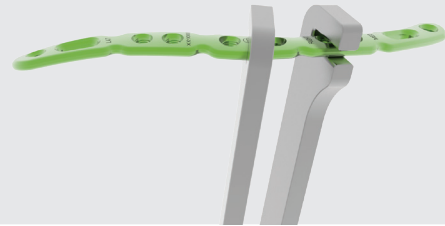
The design of this implant is the result of a proprietary state-of-the-art mapping technology to establish an optimized congruence between the plate and the bone.



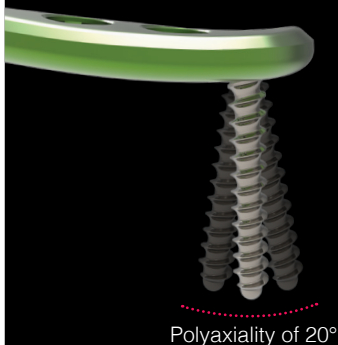
BENDABLE PLATES

Some plates from ALIANS CLAVICLE S range offer bending areas. It is possible to bend the plate with 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 of the fixation. There is a risk of distortion of the holes when bending the plate.



ANGULAR RANGE: +/- 10° POLYAXIAL LOCKING FIXATION



Polyaxiality of 20°

→ ANGULAR RANGE: +/- 10° POLYAXIAL LOCKING FIXATION FOR LATERAL PLATES

The DTS3 technology ensures the locking of the screw into the plate while allowing its angulation. The DTS3 polyaxial locking holes are located in the epiphyseal area. This system helps for the insertion of the screws in diverging or converging directions and strengthens the assembly.

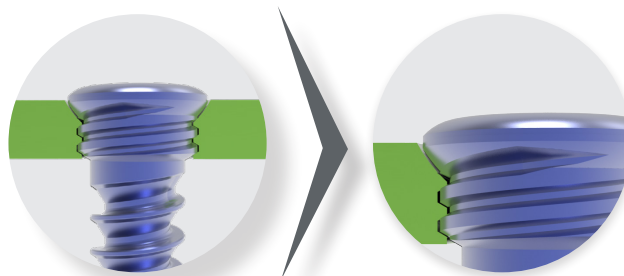


Dualtec System® III Technology
Polyaxial locking fixation

MONOAXIAL LOCKING SYSTEM

→ FEATURES

- > The screw head is stopped in the hole, ensuring its locking.
- > The screw head is buried in the plate.
- > Plate and screw made from the same material: titanium alloy.



The threads under the screw head and inside the hole have strictly the same characteristics.

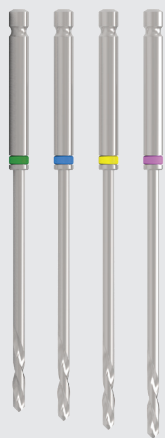
SURGICAL TECHNIQUE

LATERAL MIDSHAFT PLATE

Surgical technique example with the lateral midshaft plate, Size 2 (CTDML2D).

RANGE OF QUICK COUPLING SELF-LIMITING DRILL BITS

The Alians Clavicle S kit offers a range of self-limiting drill bits designed for the insertion of Ø3.5 mm screws, to avoid any risks of excessive penetration and to protect the subclavian artery.



SELF-LIMITING DRILL BITS

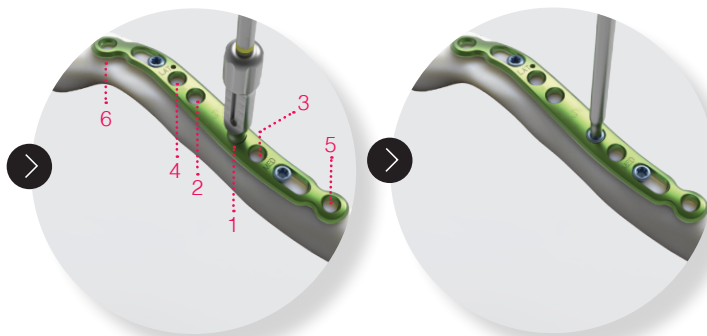
Ref.	Ring color	Length of corresponding screws
ANC187	Green	12 mm
ANC188	Blue	14 mm
ANC189	Yellow	16 mm
ANC190	Pink	18 mm



1. Position the plate making sure that the « LAT » and « MED » marks are correctly matched.

2. Perform the drilling using the non threaded bent guide gauge (ANC1030) and the self-limiting drill bits (see herein).

3. Insert the cortical screw (CT3.5LxxD) using the screwdriver (ANC1027). Repeat the same procedure for the remaining oblong hole.



4. Insert the threaded guide gauge (ANC1029) for the Ø3.5mm locking screws (SOT3.5LxxD) starting from the holes located near the fracture to those located at each end of the plate. Perform drilling using either the self-limiting drill bits or the Ø2.7mm drill bit (ANC089C).

5. Insert the Ø3.5mm locking screw (SOT3.5LxxD) using the screwdriver (ANC1027). Repeat these procedures for the remaining Ø3.5mm locking screws (SOT3.5LxxD).

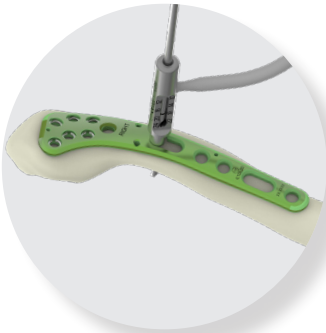
FINAL RESULT



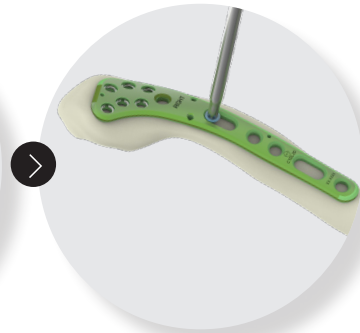
SURGICAL TECHNIQUE

LATERAL PLATE

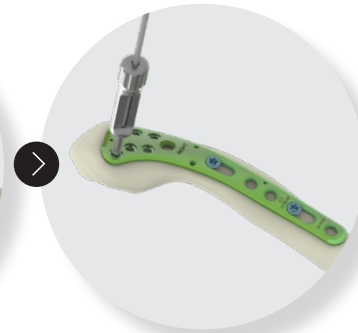
Surgical technique example with the lateral plate, Size 2 (CTDL2D).



1. Position the plate and perform the drilling using the non-threaded bent guide gauge (ANC1030) and the drill bit (range of self-limiting drill bits or ANC089C) into the lateral oblong hole.



2. Insert the cortical screw (CT3.5LxxD) using the screwdriver (ANC1027). Repeat the same procedure for the remaining oblong hole.



3. Insert the polyaxial guide gauge (ANC268C) into the plate. Then angulate as required and perform the drilling (ANC088C).



4. Insert the Ø2.8mm epiphyseal screws (SDT2.8LxxD) into the plate using the T8 screwdriver (ANC575).



5. Insert the threaded guide gauge (ANC1029), perform the drilling (range of self-limiting drill bits or ANC089C) and insert the Ø3.5mm locking screw (SOT3.5LxxD) using the screwdriver (ANC1027). Repeat the same procedure for the remaining Ø3.5 mm locking screws (SOT3.5LxxD).

FINAL RESULT



IMPLANTS REFERENCES

→ MIDSHAFT PLATES



SUPERIOR MIDSHAFT PLATES

Ref.	Description
CTDM2D	Clavicle plate - Midshaft part - Size 2 - Right - 8 holes - L91 mm
CTGM2D	Clavicle plate - Midshaft part - Size 2 - Left - 8 holes - L91 mm



SUPERIOR MIDSHAFT BENDABLE PLATES

Ref.	Description
CBTDM1D	Bendable clavicle plate - Midshaft part - Size 1 - Right - 6 holes - L84 mm
CBTGM1D	Bendable clavicle plate - Midshaft part - Size 1 - Left - 6 holes - L84 mm
CBTDM2D	Bendable clavicle plate - Midshaft part - Size 2 - Right - 10 holes - L127 mm
CBTGM2D	Bendable clavicle plate - Midshaft part - Size 2 - Left - 10 holes - L127 mm

→ LATERAL MIDSHAFT PLATES



SUPERIOR LATERAL MIDSHAFT PLATES

Ref.	Description
CTDML1D	Clavicle plate - Lateral midshaft part - Size 1 - Right - 6 holes - L78 mm
CTGML1D	Clavicle plate - Lateral midshaft part - Size 1 - Left - 6 holes - L78 mm
CTDML2D	Clavicle plate - Lateral midshaft part - Size 2 - Right - 8 holes - L93 mm
CTGML2D	Clavicle plate - Lateral midshaft part - Size 2 - Left - 8 holes - L93 mm

→ LATERAL PLATES



SUPERIOR LATERAL PLATES

Ref.	Description
CTDL1D	Clavicle plate - Lateral part - Size 1 - Right - 10 holes - L75 mm
CTGL1D	Clavicle plate - Lateral part - Size 1 - Left - 10 holes - L75 mm
CTDL2D	Clavicle plate - Lateral part - Size 2 - Right - 12 holes - L96 mm
CTGL2D	Clavicle plate - Lateral part - Size 2 - Left - 12 holes - L96 mm

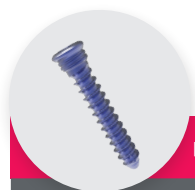
IMPLANTS REFERENCES



SUPERIOR LATERAL BENDABLE PLATES

Ref.	Description
CBTDL2D	Bendable clavicle plate - Lateral part - Size 2 - Right - 15 holes - L143 mm
CBTGL2D	Bendable clavicle plate - Lateral part - Size 2 - Left - 15 holes - L143 mm

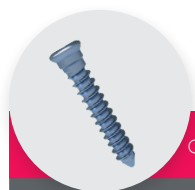
→ Ø3.5 MM SCREWS



LOCKING SCREWS*

Ref.	Description
SOT3.5L10D	Locking screw - Ø3.5 mm - L10 mm
SOT3.5L12D	Locking screw - Ø3.5 mm - L12 mm
SOT3.5L14D	Locking screw - Ø3.5 mm - L14 mm
SOT3.5L16D	Locking screw - Ø3.5 mm - L16 mm
SOT3.5L18D	Locking screw - Ø3.5 mm - L18 mm
SOT3.5L20D	Locking screw - Ø3.5 mm - L20 mm
SOT3.5L22D	Locking screw - Ø3.5 mm - L22 mm
SOT3.5L24D	Locking screw - Ø3.5 mm - L24 mm

* Blue anodized.

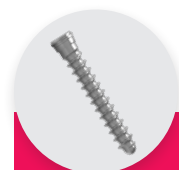


CORTICAL SCREWS*

Ref.	Description
CT3.5L10D	Standard cortical screw - Ø3.5 mm - L10 mm
CT3.5L12D	Standard cortical screw - Ø3.5 mm - L12 mm
CT3.5L14D	Standard cortical screw - Ø3.5 mm - L14 mm
CT3.5L16D	Standard cortical screw - Ø3.5 mm - L16 mm
CT3.5L18D	Standard cortical screw - Ø3.5 mm - L18 mm
CT3.5L20D	Standard cortical screw - Ø3.5 mm - L20 mm
CT3.5L22D	Standard cortical screw - Ø3.5 mm - L22 mm
CT3.5L24D	Standard cortical screw - Ø3.5 mm - L24 mm
CT3.5L26D	Standard cortical screw - Ø3.5 mm - L26 mm

* Light blue anodized.

→ Ø2.8 MM SCREWS



LOCKING SCREWS*

Ref.	Description
SDT2.8L10D	Locking screw - Ø2.8 mm - L10 mm
SDT2.8L12D	Locking screw - Ø2.8 mm - L12 mm
SDT2.8L14D	Locking screw - Ø2.8 mm - L14 mm
SDT2.8L16D	Locking screw - Ø2.8 mm - L16 mm
SDT2.8L18D	Locking screw - Ø2.8 mm - L18 mm
SDT2.8L20D	Locking screw - Ø2.8 mm - L20 mm
SDT2.8L22D	Locking screw - Ø2.8 mm - L22 mm
SDT2.8L24D	Locking screw - Ø2.8 mm - L24 mm

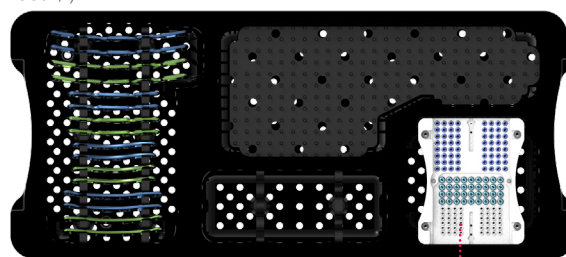
* Not anodized.

INSTRUMENTS REFERENCES

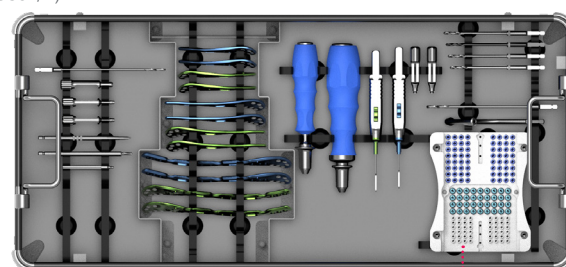
INSTRUMENTS

Ref	Description	Qty
ANC088C	Ø2.0 mm quick coupling drill bit - L 125 mm	1
ANC089C	Ø2.7 mm quick coupling drill bit - L 125 mm	1
ANC102	Length gauge for Ø2.8 mm screws	1
ANC187	Ø2.7 mm quick coupling drill bit for 12 mm screws	1
ANC188	Ø2.7 mm quick coupling drill bit for 14 mm screws	1
ANC189	Ø2.7 mm quick coupling drill bit for 16 mm screws	1
ANC190	Ø2.7 mm quick coupling drill bit for 18 mm screws	1
ANC251	18 cm verbrugge forceps	2
ANC268C	Ø2.0 mm threaded guide gauge for Ø2.8 mm screws	2
ANC350	Ø4.5 mm AO quick coupling handle - Size 1	1
ANC452	Bending pliers	2
ANC575	T8 quick coupling screwdriver	2
ANC1027	T15 AO quick coupling prehensor screwdriver	2
ANC1028	Length gauge for Ø3.5 mm screws	1
ANC1029	Ø2.7 mm threaded guide gauge for Ø3.5 mm screws	2
ANC1030	Ø2.7 mm non-threaded bent guide gauge for Ø3.5 mm screws	2
TD - 801401 - 2NM - B	Ø4.5 mm AO quick coupling handle with torque Driver 2Nm	1
33.0212.120	Pin Ø1.2 L120 mm	4

INSERT
(ANC304/I)



BASE
(ANC304/B)



RACK (ANC196/R)

RACK (ANC196/R)

REMOVAL KIT

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

- ANC575 for Ø2.8 mm screws
- ANC1027 for Ø3.5 mm screws
- ANC350: Ø4.5 mm AO quick coupling handle - Size 1
- ANC351: Ø4.5 mm AO quick coupling handle - Size 2



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