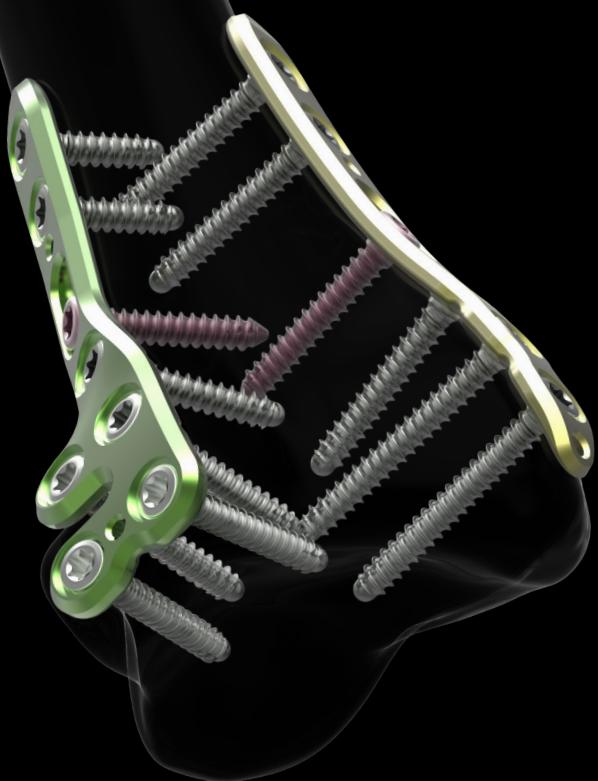




NEWCLIP-TECHNICS

INNOVATION MEANS MOTION



ALIANS FRAGMENT SPECIFIC Distal radius & distal ulna plates

- Precontoured implants
- Pre-angled screws and polyaxiality of 20°
- Ø2.4 mm single screw diameter

ALIANS FRAGMENT SPECIFIC

Indications: Alians Fragment Specific range is intended for hand and forearm fractures, osteotomies and arthrodeses 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.

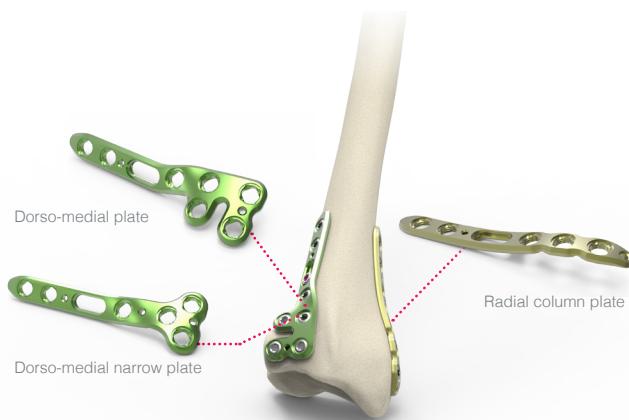
TECHNICAL FEATURES

A COMPREHENSIVE RANGE OF PLATE

→ DISTAL RADIUS - DORSAL PLATES RANGE

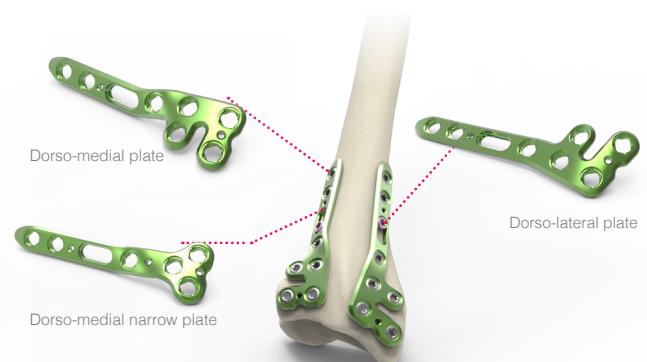
① Dorso-medial plate and radial column plate or dorso-medial narrow plate and radial column plate.

Application: Stabilization of the intermediate and radial columns of the distal radius.

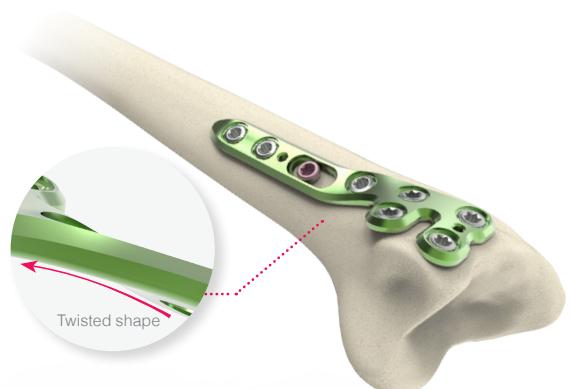


② Dorso-medial plate and dorso-lateral plate or dorso-medial narrow plate and dorso-lateral plate.

Application: In the case of high comminutive fracture of the scaphoid surface, when subchondral buttressing is required, it is recommended to use a dorso-lateral plate (instead of a radial column plate).



- **Precontoured plates** for anatomical fit on the posterior area, anatomical reduction and limited contact with extensor tendons,
- **Low-profile plates** to minimize tendons and soft tissues irritation,
- **Twisted shape** of the metaphysis part of the dorsal plates to limit the contact with extensors compartments,
- **Multiple points of fixation** and the ability to reach small fragments (dorsal lip comminution), allowing to treat high comminutive fractures.



TECHNICAL FEATURES



→ DISTAL RADIUS - VOLAR RIM PLATES

Application: Stabilization of complex intra-articular fractures of the distal radius.

- **Precontoured plates** for anatomical fit on anterior area, anatomical reduction and limited contact with flexor tendons,
- **Low-profile plates** to minimize tendons and soft tissues irritation,
- **Lateral lip** allowing the plate positionning on the watershed line.

→ DISTAL ULNA PLATES

- **Antero lateral positioning**, with an anterior bracket improving the stability of the plate and helping for the plate positionning,
- **Anatomical and low profile** design to minimize tendon and soft tissues irritation,
- **Pointed hooks** to grip the ulnar styloid process and to help for the plate positionning,
- **Intercrossing locking screws:**
 - Hold securely the ulnar head,
 - Increase the stability and provide secure and stable fixation.



FIXATION TECHNICAL FEATURES

• Ø2.4 mm fixation system for a single screw diameter:

- Accepting locking screws (SDT2.4Lxx) into the locking holes and cortical screws (CT2.4Lxx) into the oblong hole,
- Providing a fixed-angle construct of the articular surface and a subchondral bone support,



Locking screw
Lengths: 8 -30 mm
Ref. SDT2.4Lxx



Standard cortical screw
Lengths: 8 -30 mm
Ref. CT2.4Lxx

- **±10° of polyaxial locking fixation** allows the screw to lock into the plate while permitting an angulation of the screw,



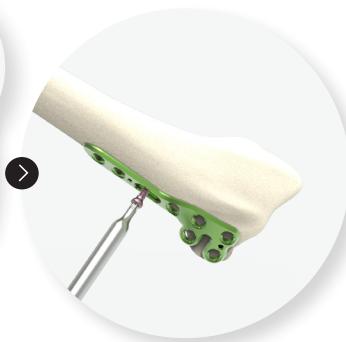
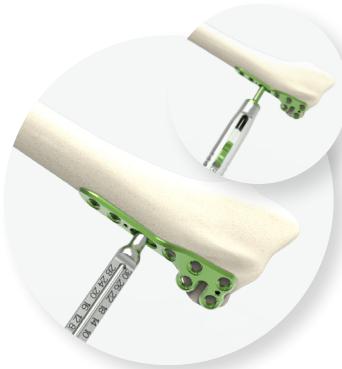
• Hexalobular drive



SURGICAL TECHNIQUE

DORSAL PLATES

Example: Double column assembly with dorso-medial plate (DTDR2) and radial column plate (DTSL2).



1. Position the dorso-medial plate and drill (ANC696) using the threaded guide gauge (ANC694) or the non-threaded bent guide gauge (ANC695) into the oblong hole.

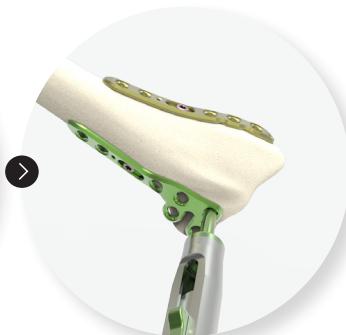
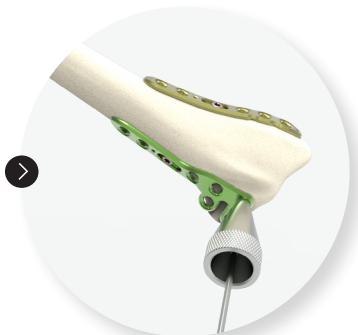
Determine the screw length directly on the guide gauge (ANC694) or use the length gauge (ANC102).

2. Insert the Ø2.4 mm standard cortical screw (CT2.4Lxx) using the screwdriver (ANC575).

3. Position the radial column plate and drill (ANC696) using the threaded guide gauge (ANC694) or the non-threaded bent guide gauge (ANC695) into the oblong hole.

Determine the screw length directly on the guide gauge (ANC694) or use the length gauge (ANC102).

4. Insert the Ø2.4 mm standard cortical screw (CT2.4Lxx) using the screwdriver (ANC575).



5. Insert two Ø2.4mm locking screws (SDT2.4Lxx) in the most distal holes of the dorso medial plate using the polyaxial drill guide (ANC687) or the threaded guide gauge (ANC694) and the drill bit (ANC696).

6. The drilling depth can be measured by inserting the length gauge (ANC102).

7. Insert the 3 locking screws (SDT2.4Lxx) in the most distal holes of the radial column plate using the polyaxial drill guide (ANC687) and the drill bit (ANC696).

8. The drilling depth can be measured by inserting the length gauge (ANC102).



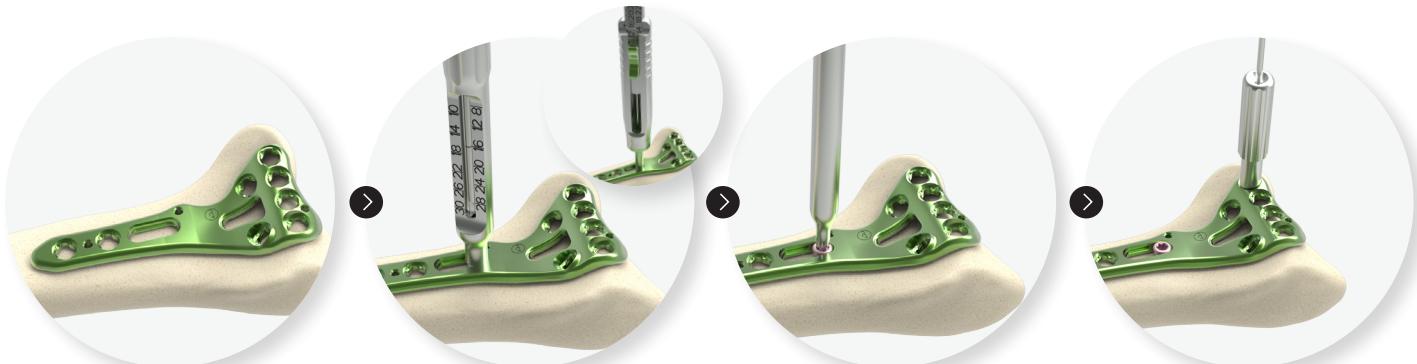
9. Repeat the same steps for the remaining Ø2.4 mm locking screws (SDT2.4Lxx).



SURGICAL TECHNIQUE

DISTAL RADIUS VOLAR RIM PLATE

Example with volar rim plate for distal radius - Narrow head (DETDVN1)



1. Position the plate on the watershed line using the lateral lip of the plate.

2. Drill (ANC696) using the threaded guide gauge (ANC694) or the non-threaded bent guide gauge (ANC695) into the oblong hole.

Determine the screw length directly on the guide gauge (ANC694) or use the length gauge (ANC102).

3. Insert the Ø2.4 mm standard cortical screw (CT2.4Lxx) using the screwdriver (ANC575).

4. Optional Step :

To ensure that the screws do not go into the joint, insert the pin (33.0212.120) into the radioulnar locking hole using the pin guide (ANC859) and verify its position by X-Ray.

If necessary, remove the pin and readjust the plate positioning using the oblong hole.



5. Lock the threaded guide gauge (ANC694) in the radioulnar locking hole or the polyaxial drill guide (ANC687) and drill (ANC696).

Determine the screw length directly on the guide gauge (ANC694) or use the length gauge (ANC102).

6. Insert a Ø2.4 mm locking screw (SDT2.4Lxx) using the screwdriver (ANC575).

7. Repeat the last 2 steps for the remaining locking screws (SDT2.4Lxx) going from the distal to the proximal part of the plate.



FINAL RESULT

REFERENCES

DISTAL ULNA PLATE

Example with distal ulna plate (HTDE1)



1. Grab the ulnar styloid with the hooks and position the plate onto the bone using both the hooks and anterior bracket as reference points.



2. Drill (ANC696) using the threaded guide gauge (ANC694) or the non-threaded bent guide gauge (ANC695) into the oblong hole.

Determine the screw length directly on the guide gauge (ANC694) or use the length gauge (ANC102).



3. Insert the Ø2.4 mm standard cortical screw (CT2.4Lxx) using the screwdriver (ANC575).



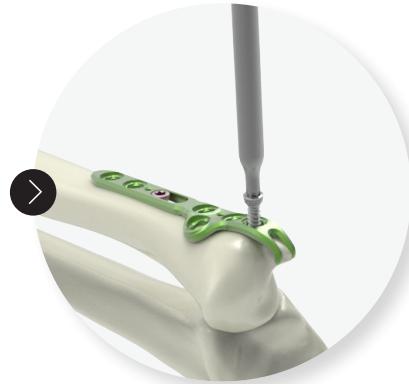
4. In the most distal locking hole, lock the polyaxial drill guide (ANC687). Angulate the drill bit (ANC696) if necessary and drill.

The threaded guide gauge (ANC694) can also be used for a monoaxial use.



5. The drilling depth can be measured by inserting the length gauge (ANC102).

It can also be directly read on the threaded guide gauge (ANC694).



6. Insert the Ø2.4 mm locking screw (SDT2.4Lxx) using the screwdriver (ANC575).



7. Repeat these same steps for the remaining locking screws (SDT2.4Lxx) going from the distal to the proximal part of the plate.



FINAL RESULT

IMPLANTS REFERENCES

DORSO-MEDIAL PLATES

Ref.	Description
DTDRN2	Dorso-medial plate for distal radius - Narrow head - Right - Size 2
DTGRN2	Dorso-medial plate for distal radius - Narrow head - Left - Size 2
DTDR2	Dorso-medial plate for distal radius - Right - Size 2
DTGR2	Dorso-medial plate for distal radius - Left - Size 2



DORSO-LATERAL PLATES

Ref.	Description
DTDQ2	Dorso-lateral plate for distal radius - Right - Size 2
DTGQ2	Dorso-lateral plate for distal radius - Left - Size 2



RADIAL COLUMN PLATES

Ref.	Description
DTSL2	Radial column plate - Symmetrical - Size 2



EXTRA DISTAL VOLAR PLATE

Ref.	Description
DETDRV1	Extra distal plate for distal radius - Narrow head - Right - Size 1
DETGVN1	Extra distal plate for distal radius - Narrow head - Left - Size 1
DETDSV1	Extra distal plate for distal radius - Standard head - Right - Size 1
DETGSV1	Extra distal plate for distal radius - Standard head - left - Size 1



ULNA PLATES

Ref.	Description
HTDE1	Distal ulna plate - Right - Size 1
HTGE1	Distal ulna plate - Left - Size 1
HTDE2	Distal ulna plate - Right - Size 2
HTGE2	Distal ulna plate - Left - Size 2



Ø2.4 mm
LOCKING SCREWS*

Ref.	Description
SDT2.4L08	Locking screw with conical head - Ø2.4 mm - L 08 mm
SDT2.4L10	Locking screw with conical head - Ø2.4 mm - L 10 mm
SDT2.4L12	Locking screw with conical head - Ø2.4 mm - L 12 mm
SDT2.4L14	Locking screw with conical head - Ø2.4 mm - L 14 mm
SDT2.4L16	Locking screw with conical head - Ø2.4 mm - L 16 mm
SDT2.4L18	Locking screw with conical head - Ø2.4 mm - L 18 mm
SDT2.4L20	Locking screw with conical head - Ø2.4 mm - L 20 mm
SDT2.4L22	Locking screw with conical head - Ø2.4 mm - L 22 mm
SDT2.4L24	Locking screw with conical head - Ø2.4 mm - L 24 mm
SDT2.4L26	Locking screw with conical head - Ø2.4 mm - L 26 mm
SDT2.4L28	Locking screw with conical head - Ø2.4 mm - L 28 mm
SDT2.4L30	Locking screw with conical head - Ø2.4 mm - L 30 mm



Ø2.4 mm
CORTICAL SCREWS*

Ref.	Description
CT2.4L08	Standard cortical screw - Ø2.4 mm - L 08 mm
CT2.4L10	Standard cortical screw - Ø2.4 mm - L 10 mm
CT2.4L12	Standard cortical screw - Ø2.4 mm - L 12 mm
CT2.4L14	Standard cortical screw - Ø2.4 mm - L 14 mm
CT2.4L16	Standard cortical screw - Ø2.4 mm - L 16 mm
CT2.4L18	Standard cortical screw - Ø2.4 mm - L 18 mm
CT2.4L20	Standard cortical screw - Ø2.4 mm - L 20 mm
CT2.4L22	Standard cortical screw - Ø2.4 mm - L 22 mm
CT2.4L24	Standard cortical screw - Ø2.4 mm - L 24 mm
CT2.4L26	Standard cortical screw - Ø2.4 mm - L 26 mm
CT2.4L28	Standard cortical screw - Ø2.4 mm - L 28 mm
CT2.4L30	Standard cortical screw - Ø2.4 mm - L 30 mm

* Non anodized

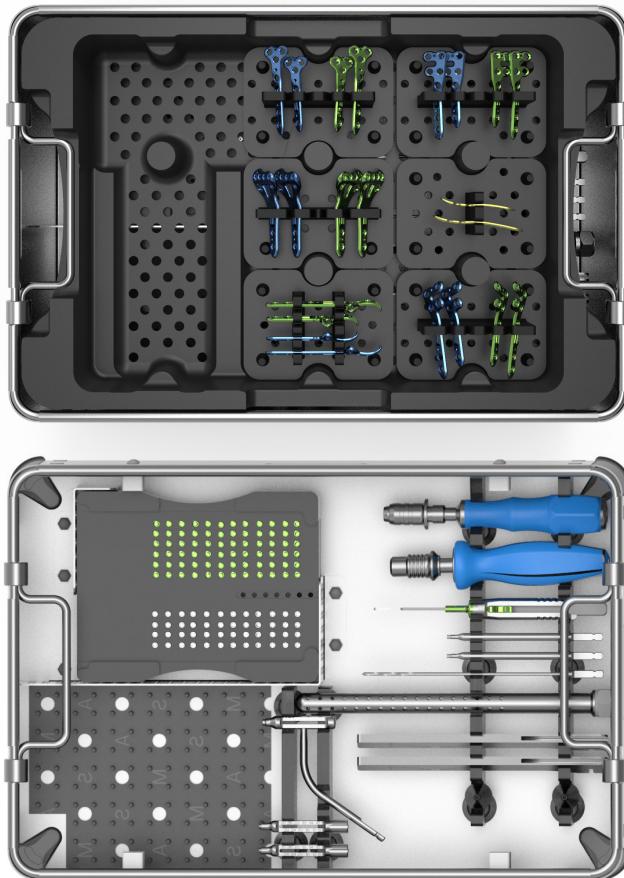
*Pink anodized



REFERENCES

ALIANS FRAGMENT SPECIFIC INSTRUMENTS

Ref.	Description	Qty
ANC102	Length gauge	1
AN166L	Pins support for Ø0.8 mm pin - Long	1
ANC350	Ø4.5 mm AO quick coupling handle - Size 1	1
ANC575	T8 quick coupling screwdriver	2
ANC578	Bending plier	2
ANC687	Polyaxial drill guide - SDT2.4 hole	2
ANC694	Ø1.8 mm threaded guide gauge for Ø2.4 mm screws	2
ANC695	Ø1.8 mm non threaded bent guide gauge for Ø2.4 mm screws	1
ANC696	Ø1.8 mm quick coupling drill bit - L 140 mm	2
ANC859	Pin guide	1
33.0212.120	Pin Ø1.2 L120 mm	6
TD-111401-1.0NM-B	Ø4.5 mm AO quick coupling handle with torque Driver 1Nm	1



REMOVAL KIT

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

- ANC575 : T8 quick coupling screwdriver
- ANC350 : Ø4.5 mm AO quick coupling handle - Size 1

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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