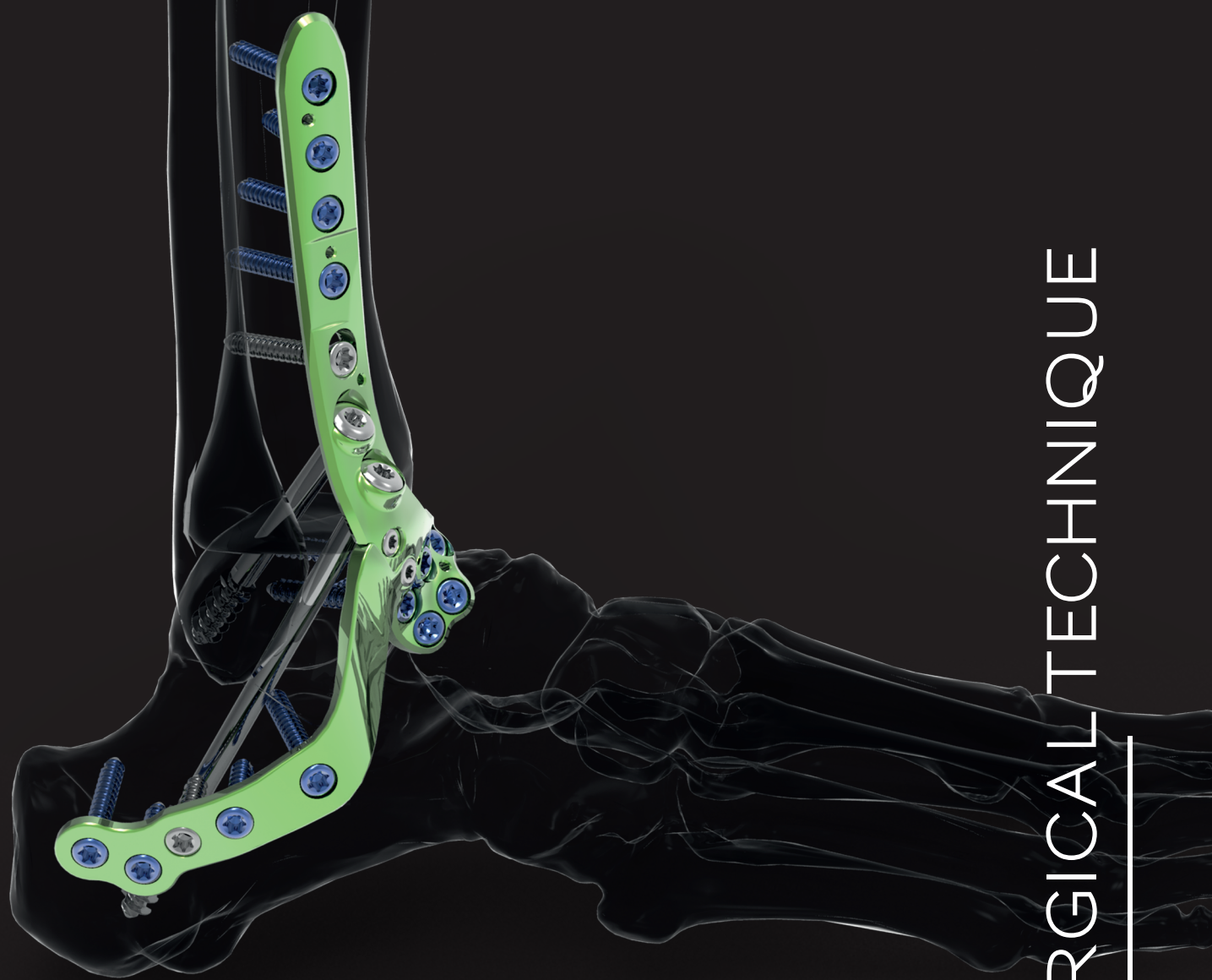




NEWCLIP
TECHNICS



SURGICAL TECHNIQUE

ACTIVFUSE

ANTEROLATERAL APPROACH

ACTIV FUSE - SURGICAL TECHNIQUE

Intended purpose: The implants of the Activ Fuse range are intended for bone reconstruction of the ankle joint in adults including fractures fixation and arthrodeses of the ankle, distal tibia, talus, and calcaneus.

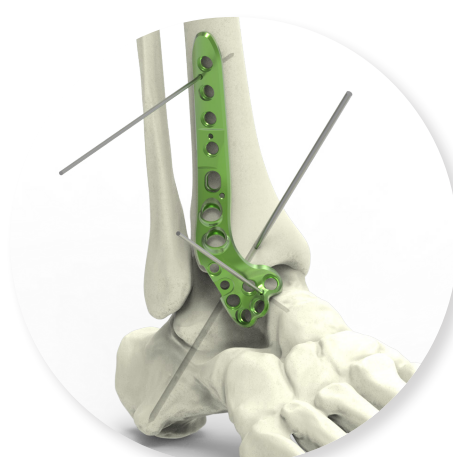
Contraindications:

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

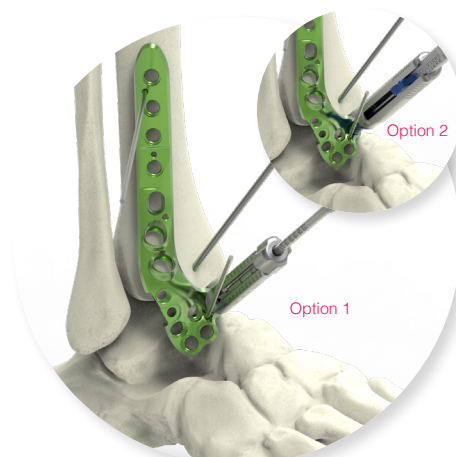
ANTEROLATERAL PLATE (PAGE 1 / 2)



1. Prepare joint surfaces and stabilize the ankle by inserting one or two Ø2.5 mm pins (33.0225.180) through the joint.



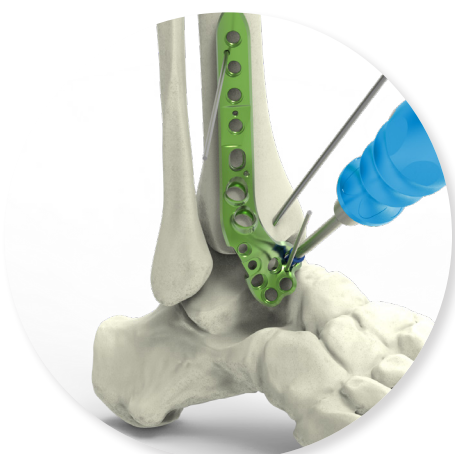
2. Position and stabilize the plate by using the Ø1.6 mm pins (33.0216.150).



3. Lock the Ø3.0 mm threaded guide gauge (ANC847) into one of the distal locking holes and drill using the Ø3.0 mm drill bit (ANC852). Then measure the corresponding screw length.

Option 1: Determine the screw length using the Ø3.0 mm threaded guide gauge (ANC847) and the Ø3.0 mm drill bit marking (ANC852).

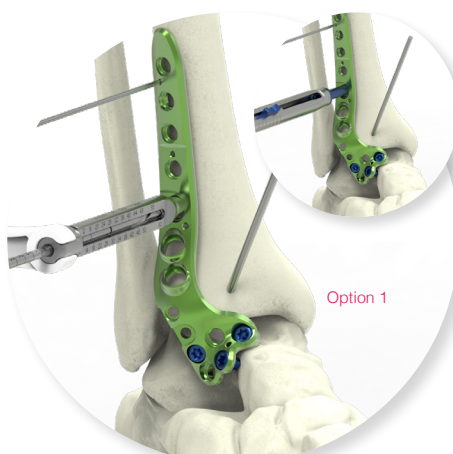
Option 2: Determine the screw length using the length gauge (ANC856).



4. Insert a Ø4.0 mm locking screw (SOT4.0LxxD) using the T20 screwdriver (ANC854).

Repeat the previous steps at least once and until the plate is stable on the talus bone.

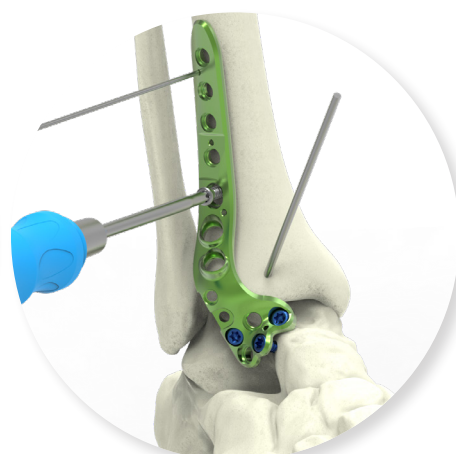
Remove the distal Ø1.6 mm pin (33.0216.150).



5. Position the guide gauge (ANC847) into the **proximal part of the oblong hole**. Drill using the Ø3.0 mm drill bit (ANC852) and measure the corresponding screw length.

Option 1: Determine the screw length using the Ø3.0 mm threaded guide gauge (ANC847) and the Ø3.0 mm drill bit marking (ANC852).

Option 2: Determine the screw length using the length gauge (ANC856).



6. Insert a Ø4.0 mm standard cortical screw (CT4.0LxxD) using the T20 screwdriver (ANC854).

ACTIV FUSE - SURGICAL TECHNIQUE

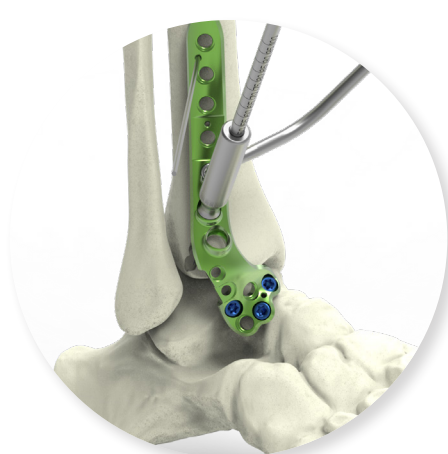
ANTEROLATERAL PLATE (PAGE 2/2)

For the following steps, there are **2 possible options**:

Option 1: fixation with compressive screw

Option 2: fixation with neutralization screw (page 4)

→ OPTION 1: FIXATION WITH COMPRESSIVE SCREW (Ø6.5 mm lag screw QT6.5LxD)



7. Insert the Ø4.7 mm bent drill guide (ANC848) into one of the transfixation holes and drill using the Ø4.7 mm drill bit (ANC851) **up to the joint**.

Remove both the drill bit and the drill guide.



8. In order to achieve a lag effect, insert the Ø3.0 mm drill guide (ANC855) into the same transfixation hole and make sure the drill guide is inserted into the previously drilled hole. Drill to the desired depth using the Ø3.0 mm drill bit (ANC852).

Determine the screw length at the rear of the Ø3.0 mm drill guide (ANC855) using the graduations on the Ø3.0 mm drill bit (ANC852) (see specific measurements page 7).

It is also possible to use the length gauge for Ø6.5 mm screws (ANC853).



9. Remove the pins. Insert a Ø6.5 mm lag screw (QT6.5LxD) using the T20 screwdriver (ANC854).

Remark: before the Ø6.5 mm lag screw insertion, slightly release the Ø4.0 mm standard cortical screw in the oblong hole to optimize the compression.

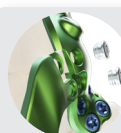
Then retighten the Ø4.0 mm standard cortical screw when the desired compression is reached.



10. Insert the remaining distal and proximal Ø4.0 mm locking screws (SOT4.0LxD) following the same procedure as steps 3 and 4 (page 8). The final tightening of the screws must be performed by hand.



**FINAL
RESULT**



N.B. To insert the lateral extension plate to the anterolateral plate, see page 5

ACTIV FUSE - SURGICAL TECHNIQUE

ANTEROLATERAL PLATE (PAGE 3/3)

→ **OPTION 2: FIXATION WITH NEUTRALIZATION SCREW** (Ø6.5 mm standard cortical screw CT6.5LxxD)



7. Insert the Ø4.7 mm bent drill guide (ANC848) into one of the transfixation holes and drill using the Ø4.7 mm drill bit (ANC851).

Determine the screw length at the rear of the Ø4.7 mm bent drill guide (ANC848).

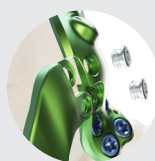
It is also possible to use the length gauge for Ø6.5 mm screws (ANC853).



8. Insert the Ø6.5 mm standard cortical screw (CT6.5LxxD) using the T20 screwdriver (ANC854).



9. Insert the remaining distal and proximal Ø4.0 mm locking screws (SOT4.0LxxD) following the same procedure as steps 3 and 4 (page 8).



N.B. To insert the lateral extension plate to the anterolateral plate, see page 5

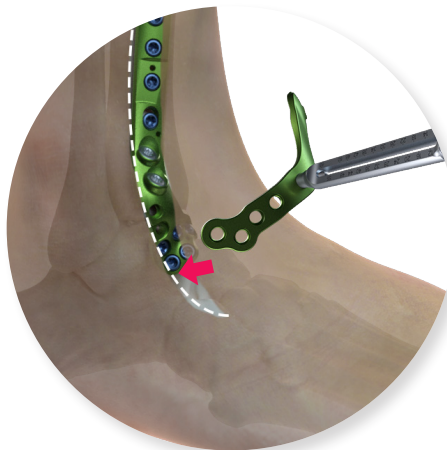
ACTIV FUSE - SURGICAL TECHNIQUE

OPTION: CALCANEAL LATERAL EXTENSION

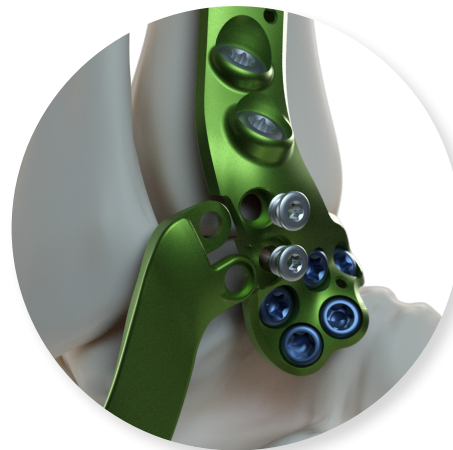
Surgical approaches are the responsibility of the health professional. The recommendations in this document are provided for informational purposes only. Each surgeon must evaluate the relevance of the procedures based on his training and experience.



1. Lock the Ø3.0 mm threaded guide gauge (ANC847) in the most anterior locking hole to manipulate the plate.



2. Insert the assembly through the existing incision.



3. Assemble the extension on the plate, then lock the assembly with the two fixing screws (RATxB1-VIS) **using the T8 screwdriver (ANC575) and torque limiter handle 1Nm (TD-111401 - 1.0NM-B).**



4. Perform a second short incision following the conventional calcaneal surgical approach.

Insert the Ø3.0 mm threaded gauge (ANC847) into the non-locking hole. Drill using the Ø3.0 mm drill bit (ANC852) and determine the appropriate screw length.

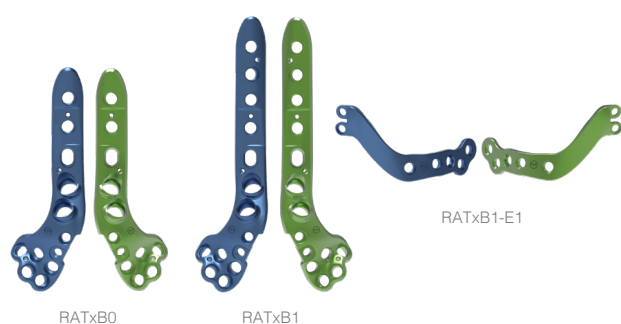
Insert the standard Ø4.0 mm cortical screw (CT4.0LxxD) using the T20 screwdriver (ANC854).

Then insert the remaining locking screws (SOT4.0LxxD).



IMPLANT REFERENCES

→ ANTEROLATERAL AND CALCANEAL LATERAL EXTENSION PLATES



ANTEROLATERAL AND CALCANEAL LATERAL EXTENSION PLATES

Ref.	Description
RATGB0	Anterolateral plate for Ankle Arthrodesis - Left - Size 0
RATDB0	Anterolateral plate for Ankle Arthrodesis - Right - Size 0
RATGB1	Anterolateral plate for Ankle Arthrodesis - Left - Size 1
RATDB1	Anterolateral plate for Ankle Arthrodesis - Right - Size 1
RATGB1-E1	Anterolateral plate extension for Ankle Arthrodesis - Left - Size 1
RATDB1-E1	Anterolateral plate extension for Ankle Arthrodesis - Right - Size 1

→ FIXATION SCREWS

EXTENSION FIXATION SCREWS*

Ref.	Description
RATxB1-VIS	Fixation screw for anterolateral plate extension for Ankle arthrodesis
RATxB1-VIS-ST	Fixation screw for anterolateral plate extension for Ankle arthrodesis- STERILE **



* Not anodized.

** These screws are only provided on specific request.

SCREW REFERENCES

→ Ø4.0 MM SCREWS

LOCKING SCREWS*

Ref.	Description
SOT4.0LxxD	Locking screw - Ø4.0 mm - L12 to 60 mm (2 mm increments from 12 to 50 mm) (5 mm increments from 50 to 60 mm)

* Blue anodized.

→ Ø6.5 MM SCREWS

LAG SCREWS*

Ref.	Description
QT6.5LxxD-ST	Lag screw - Ø6.5 mm - L30 to 35 mm - STERILE**
QT6.5LxxD	Lag screw - Ø6.5 mm - L30 to 100 mm (5 mm increments)

* Not anodized.

** These screws are only provided on specific request.

Remark : The following Ø6.5 mm implants are only available in sterile and on request :

- QT6.5L30D-ST
- QT6.5L35D-ST
- CT6.5L30D-ST
- CT6.5L35D-ST

NON LOCKING SCREWS*

Ref.	Description
CT4.0LxxD	Standard cortical screw Ø4.0 mm - L12 to 60 mm (2 mm increments from 12 to 50 mm) (5 mm increments from 50 to 60 mm)

* Not anodized.

CORTICAL SCREWS*

Ref.	Description
CT6.5LxxD-ST	Standard cortical screw - Ø6.5 mm - L30 to 35 mm - STERILE**
CT6.5LxxD	Standard cortical screw - Ø6.5 mm - L40 to 100 mm (5 mm increments)

* Not anodized.

** These screws are only provided on specific request.

→ ADDITIONAL IMPLANTS

ADDITIONAL IMPLANTS : STAND-ALONE SCREWS*

Ref.	Description
H1.7GFT6.0Lxx	Self-drilling positioning screw - Ø6.0 mm - cannulated Ø1.7 mm - L40 to 100 mm (5 mm increment)
H1.7IFT6.0Lxx	Self-drilling self-compressive screw - Ø6.0 mm - cannulated Ø1.7 mm - L40 to 100 mm (5 mm increment)
H2.7GFT8.0Lxx	Self-drilling positioning screw - Ø8.0 mm - cannulated Ø2.7 mm - L40 to 100 mm (5 mm increment)
H2.7IFT8.0Lxx	Self-drilling self-compressive screw - Ø8.0 mm - cannulated Ø2.7 mm - L40 to 100 mm (5 mm increment)

* For more information, see the Stand-Alone Screws range sales brochure.

Remark: Please note that the «xx» in the references represents the length of the screw. The length of the screw replaces the «xx».
Ex: the reference for the Lag screw Ø6.5 mm - L30 mm is «QT6.5L30D»

Remark: Please note that all implants are also available in a sterile packaging. An '-ST' code is added at the end of the reference.
Ex: « SOT4.0L12D-ST ».
Please consult your local sales representative to check the availability of the sterile products.

INSTRUMENT REFERENCES

INSTRUMENTS		
Ref.	Description	Qty
ANC351	Ø4.5 mm AO quick coupling handle - Size 2	2
ANC575	T8 quick coupling screwdriver	1
ANC847	Ø3.0 mm threaded guide gauge	2
ANC848	Ø4.7 mm bent drill guide	2
ANC851	Ø4.7 mm quick coupling drill bit - L195 mm	2
ANC852	Ø3.0 mm quick coupling drill bit - L195 mm	2
ANC853	Length gauge for Ø6.5 mm screws	1
ANC854	T20 prehensor screwdriver	2
ANC855	Ø3.0 mm drill guide	2
ANC856	Length gauge for Ø4.0 mm screws	1
33.0216.150	Pin Ø1.6 L150 mm	6
33.0225.180	Pin Ø2.5 L180 mm	6
TD-111401-1.0NM-B	Ø4.5 mm AO quick coupling handle with torque Driver 1Nm	1
ANC850	Ø3.0 mm non threaded guide gauge	1

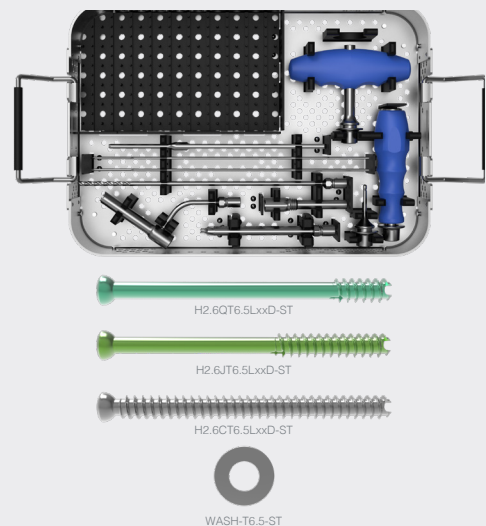
ADDITIONAL INSTRUMENTS FOR STAND-ALONE SCREWS		
Ref.	Description	Qty
ANC412	Ø11 mm quick coupling extension stem	1
ANC415	Ø4.1 mm drill bit – cannula 1.7 mm – L170 mm – AO Ø4.5 mm quick coupling	1
ANC416	Ø5.6 mm drill bit – cannula Ø2.7 mm – L170 mm – Ø11 mm quick coupling	1
ANC418	Ø4.1 mm countersink tip – cannula Ø1.7 mm	1
ANC419	Ø5.6 mm countersink tip – cannula Ø2.7 mm	1
ANC421	3.5 mm hexagonal screwdriver tip – cannula 1.7 mm	1
ANC422	4.0 mm hexagonal screwdriver tip – cannula 2.7 mm	1
ANC429	Guide for Ø1.6 mm pin	1
ANC430	Guide for Ø2.5 mm pin	1
ANC441	Soft tissue protection sleeve	1
ANC442	Ø11 mm cannulated quick coupling straight handle	1
ANC443	Ø11 mm cannulated quick coupling T-handle	1
ANC453	Quick coupling adaptor Ø11 mm – AO Ø4.5 mm	1
33.0216.180	Pin Ø1.6 L180 mm	6
33.0225.180	Pin Ø2.5 L180 mm	6

→ OPTIONAL KIT: ACTIV SCREW

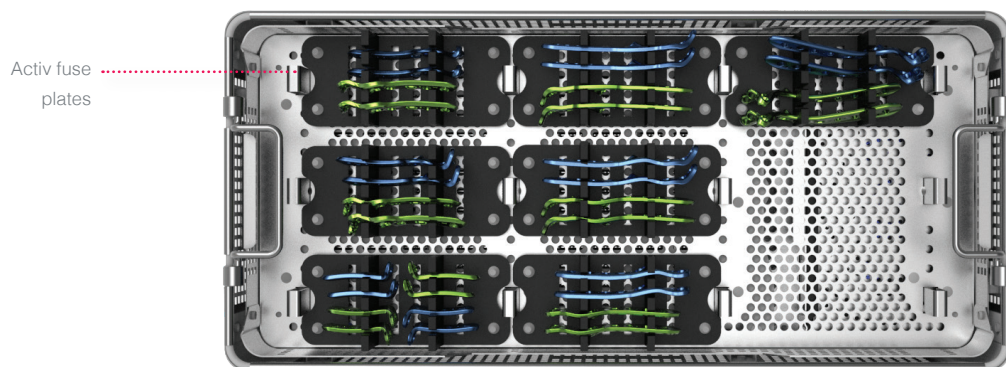
The Activ Screw kit is commonly used with Activ Fuse range.

IMPLANTS	
Ref.	Description
H2.6QT6.5LxD-ST*	Self-drilling compressive screw Ø6.5 mm - Cannulated Ø2.6 mm - Short thread - L40 mm to 120 mm - STERILE (5 mm increments)
H2.6JT6.5LxD-ST*	Self-drilling compressive screw Ø6.5 mm - Cannulated Ø2.6 mm - Long thread - L45 mm to 120 mm - STERILE (5 mm increments)
H2.6CT6.5LxD-ST*	Self-drilling standard cortical screw Ø6.5 mm - Cannulated Ø2.6 mm – L40 mm to 120 mm - STERILE (5 mm increments)
WASH-T6.5-ST	Compression washer for Ø6.5 mm headed screw - STERILE

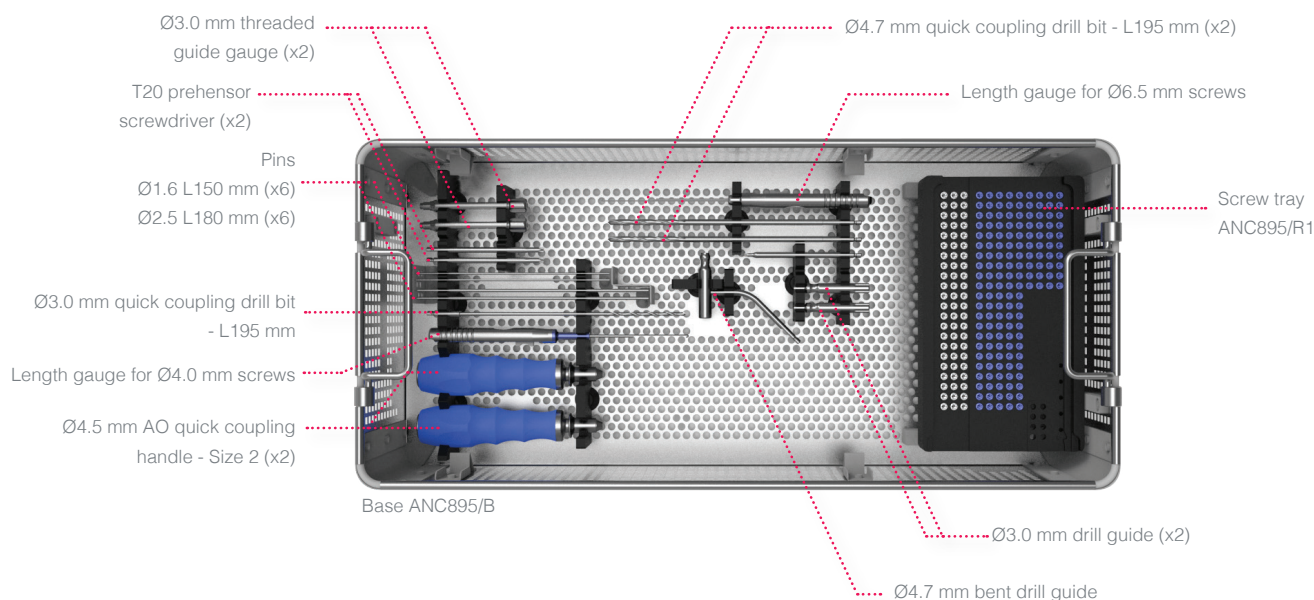
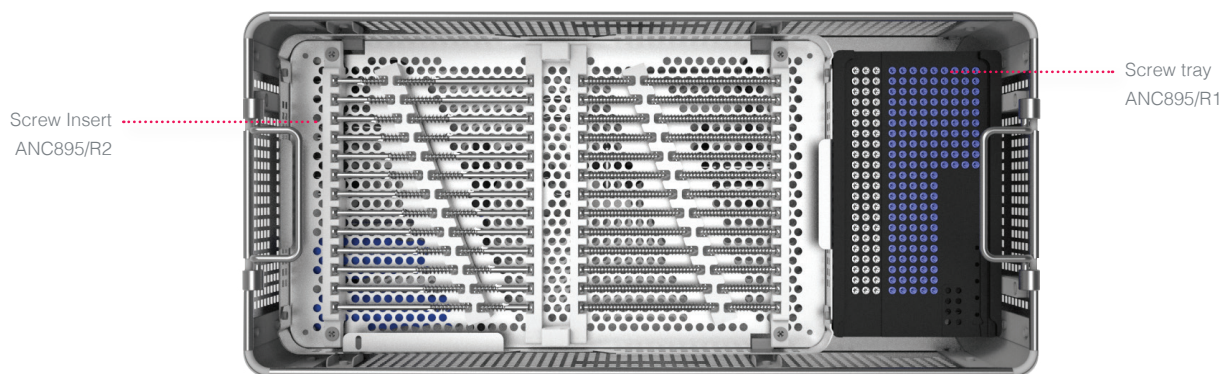
If you need more information, please refer to the Activ Screw brochure.



KIT DESCRIPTION



Insert ANC895/I



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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