



NEWCLIP  
TECHNICS



INITIAL

HINGE SCREW

STERILE R



### Available when needed:

The Initial K Hinge Screw™ kit comes pre-sterilized and ready to use.



### Safety:

The Initial K Hinge Screw™ kit is fully traceable and has a shelf life of 5 years. Its instrumentation are “always new” and have never been opened or used before.



### Storage:

Initial K Hinge Screw™ kit can be easily stored in the operating room because of its small size.



### Costs:

Initial K Hinge Screw™ is a cost-effective solution. The additional costs including cleaning, decontamination, sterilization of kits are cancelled.



### Contamination:

Sterile single-use instrumentation minimizes contamination risks.



### Buying procedure:

Initial K Hinge Screw™ facilitates buying procedures: restocking and orders are simplified, stock management is optimized.

# Kit content

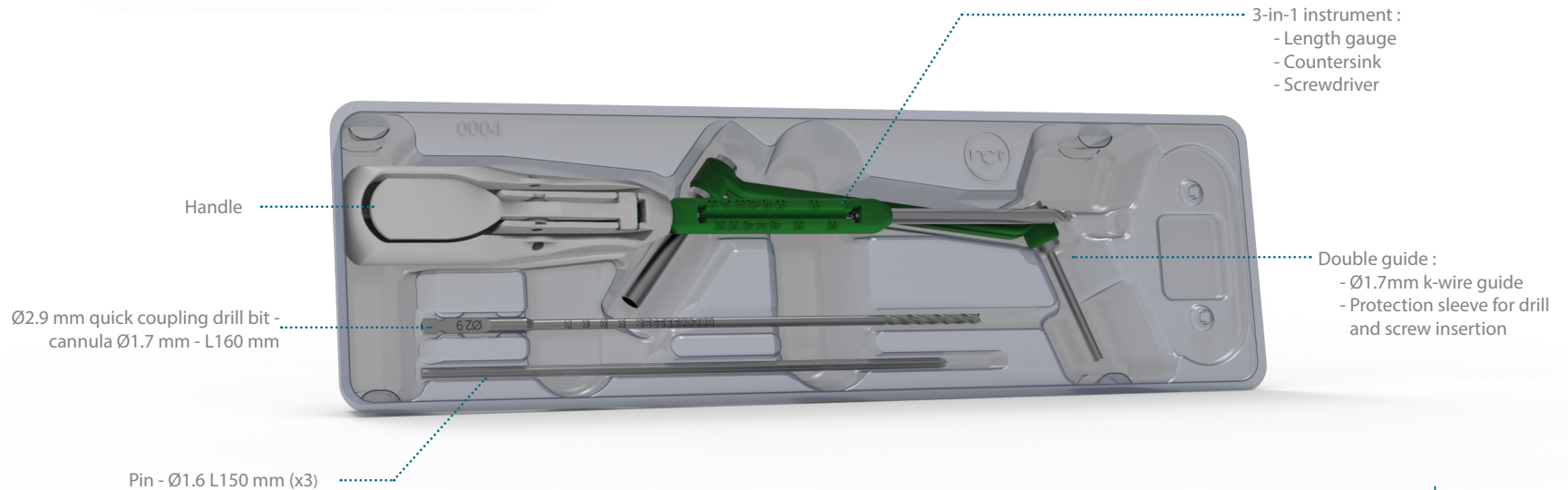


## > Indication for use

The implants of the Large Screws range are intended for the fixation of bone fractures, pseudarthroses, fusions and osteotomies of foot and ankle as well as medium and large bone fragments including radius, humerus, femur, tibia in adults.

## > Contraindications

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



Ready  
when you are!

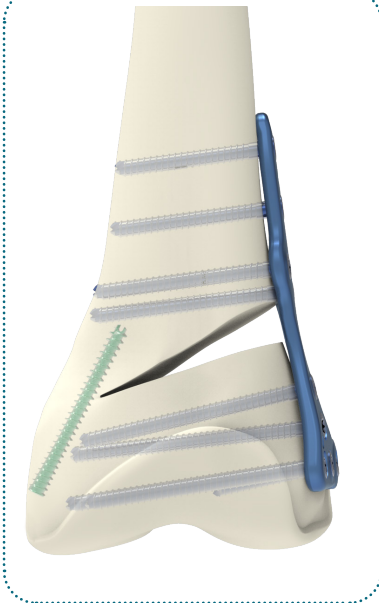
# Technical features

## > Hinge screw

- Cannulated screw to be guided by k-wire.
- Headless screw to be fully inserted into the bone.
- Insertion of a compressive screw into the hinge to:
  - Reinforce the bone hinge <sup>(1)</sup>.
  - Compress the hinge in case of fracture.



Can be used in the femur



Can be used in the tibia



## > Associated single use instrumentation

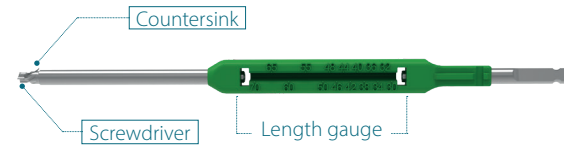
### • Ready when you are !

If you need to position a screw in the hinge during you knee osteotomy procedure, the Initial K Hinge screw™ kit is available already sterile.

- Instrument with a protection sleeve.



- 3-in-1 instrument for a simple use: length gauge, countersink and screwdriver.

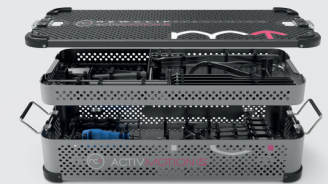


This instrument can be either used with the handle in the kit or can be attached to a power tool.

### WARNING

The Hinge screw **must always be used with a plate and associated screws from the Activmotion S range** (reusable instrumentation kit illustrated opposite).

For more information, please refer to the Activmotion S brochure.



# Surgical technique

The technique presented on this page is one of the surgical techniques possible. The choice is made according to the surgeon's preferences.

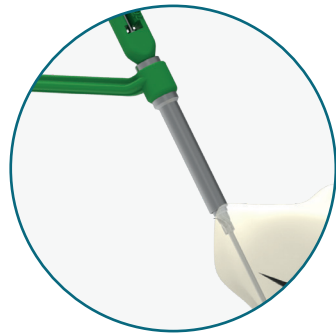
## 1. Incision

### Associated with a HTO

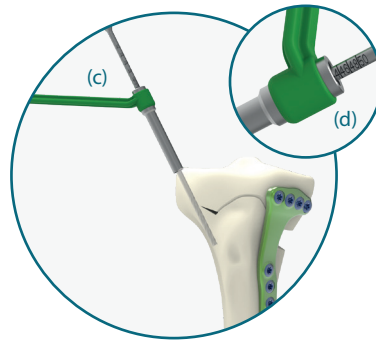
Make an incision on the opposite side of the osteotomy, just at the level of the joint line. When a medial plate is used the incision is anterior to the fibular head.

### Associated with a DFO

Make an incision on the opposite side of the osteotomy between the joint and the epicondyle.

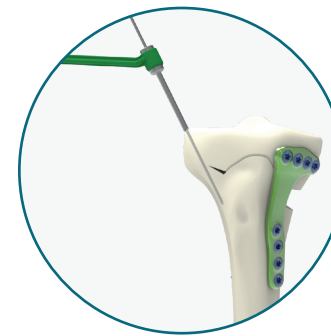


4. Widen the first cortex using the countersink part of the 3-in-1 instrument through the protection sleeve.



5. In the case of high bone density, it is necessary to drill before the screw insertion. Drill to the desired depth through the protection sleeve (c).

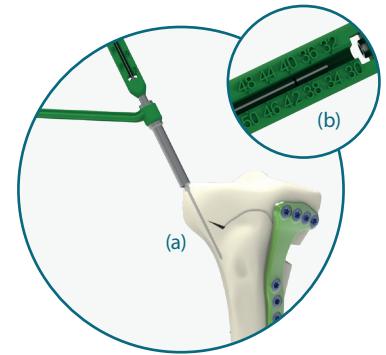
The drilling depth can be checked at the rear of the protection sleeve using the markings on the drill bit (d).



2. Position the double guide on the cortex and insert the Ø1.6 mm pin through it.

The pin should cross the hinge at the end of the sawing plane.

Then, remove the double guide.



3. Slide the 3-in-1 instrument along the Ø1.6 mm pin and through the protection sleeve of the double guide, until the cortex is reached (a).

With the measuring gauge part of the instrument, read the depth using the marking on the pin (b).

**N.B.** The pin can then be inserted deeper in order to prevent its removal during the drilling.



6. Select the appropriate screw length and insert the screw along the pin using the screwdriver part of the 3-in-1 instrument through the protection sleeve until the desired reduction and compression are achieved.

Then, remove the pin.

## FINAL RESULT



## Initial K Hinge screw™ kit

### INITIAL K HINGE SCREW™ KIT - INSTRUMENTATION CONTENT

Ref.	Description	Content	Qty
KIT-SCZ4.5K	Instrumentation kit for Ø4.5 mm self-compressive cannulated screws	3 in 1 instrument for Ø4.5 mm screws	1
		5.8 mm single use handle	1
		Ø2.9 mm quick coupling drill bit - cannula Ø1.7 mm - L160 mm	1
		Double guide Ø1.7 mm / Ø5.2 mm for Ø4.5 mm screws	1
		Pin Ø1.6 L150 mm	3



## Implants

Screws available separately in a sterile version (S-box).

### STERILE SCREWS

Ref.	Description
H1.7ZT4.5L30D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L30 mm - STERILE
H1.7ZT4.5L32D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L32 mm - STERILE
H1.7ZT4.5L34D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L34 mm - STERILE
H1.7ZT4.5L36D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L36 mm - STERILE
H1.7ZT4.5L38D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L38 mm - STERILE
H1.7ZT4.5L40D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L40 mm - STERILE
H1.7ZT4.5L42D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L42 mm - STERILE
H1.7ZT4.5L44D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L44 mm - STERILE
H1.7ZT4.5L46D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L46 mm - STERILE
H1.7ZT4.5L48D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L48 mm - STERILE
H1.7ZT4.5L50D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L50 mm - STERILE
H1.7ZT4.5L55D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L55 mm - STERILE
H1.7ZT4.5L60D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L60 mm - STERILE
H1.7ZT4.5L65D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L65 mm - STERILE
H1.7ZT4.5L70D-ST	Ø4.5 mm self-compressive screw - cannula Ø1.7 - full thread - L70 mm - STERILE



# References

## Removal kit

Sterile instruments available separately.

REMOVAL KIT			
Ref.	Description	Content	Qty
KIT-REMOVE-3	Removal kit for T15 hexalobe	T15 prehensor screwdriver	1



# Bibliography

## (1) Adding a protective screw improves hinge's axial and torsional stability in High Tibial Osteotomy

Christophe Jacquet<sup>a,d</sup>, Auriane Marret<sup>d</sup>, Robin Myon<sup>d</sup>, Matthieu Ehlinger<sup>b</sup>, Nadia Bahlouli<sup>c</sup>, Adrian Wilson<sup>d</sup>, Kristain Kley<sup>a</sup>, Jean-Marie Rossi<sup>a,d,e</sup>, Sebastien Parratte<sup>d</sup>, Matthieu Ollivier<sup>a,d</sup>.

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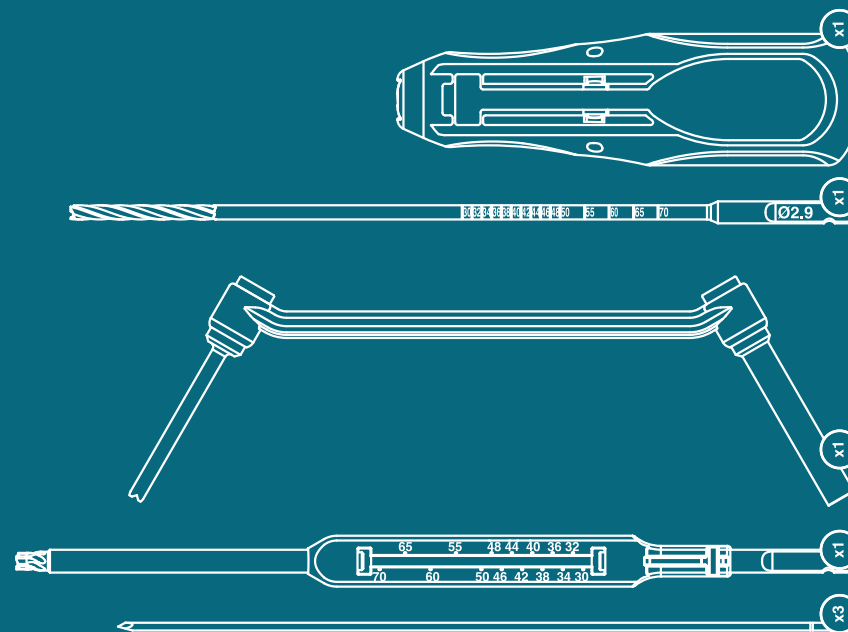
<sup>e</sup> Centrale Marseille, 13451 Marseille Cedex 20, France

This information is intended to demonstrate the Newclip Technics portfolio of medical devices. Always refer to the package insert, product label and/or user instructions before using any Newclip Technics product. These products must be handled and/or implanted by trained and qualified staff who have read the instructions before use. A surgeon must always rely on her or his own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. 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.

# KIT-SCZ4.5K

Instrumentation kit for Ø4.5 mm self-compressive cannulated screws

MADE IN FRANCE



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