

XPert WRIST 2.4.

K-LOCK SYSTEM



Intended purpose:

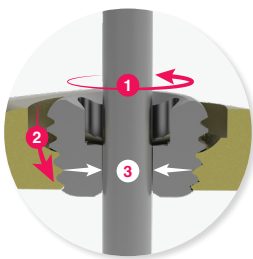
The implants of the Xpert Wrist range are intended for the fixation of hand and forearm fractures, osteotomies and arthrodeses in adults.

Contraindications :

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

TECHNICAL FEATURES

- K-wire locking fixation is useful when unstable fracture fragments are too small for adequate fixation with locking screws.
- A versatile single system allowing the use of locking screws and/or locking k-wire.



- Compatible with the entire range of Xpert Wrist 2.4 plates (volar and fragment specific). See the Xpert Wrist 2.4 brochure for more information.



→ CLINICAL CASE



Preoperative



Postoperative

Example using a radial column distal plate size 1 (DETSL1)



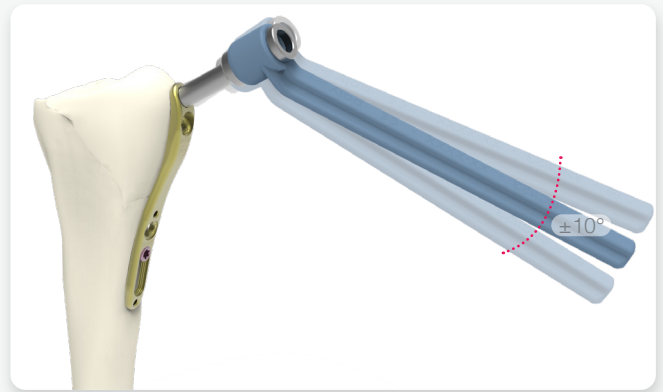
1. Pre-positioning

Position the plate on the radial column of the radius.

To pre-position the plate, drill (ANC696) using the non locking drill guide (ANC1157) into the oblong hole (a).

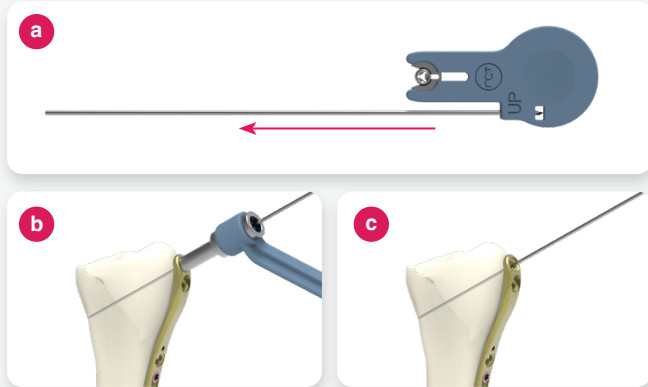
Determine the screw length using the length gauge (ANC102) (b) and then insert the Ø2.4 mm non-locking screw (CT2.4Lxx) using the screwdriver (ANC575) (c).

The final tightening of the screws must be performed by hand.



2. Desired orientation of the k-wire

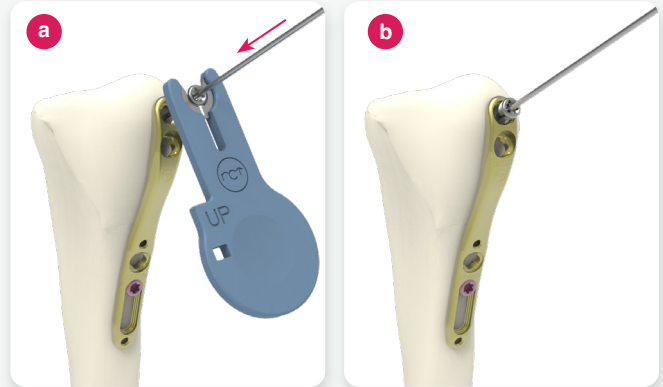
Place the polyaxial pin guide (ANC1123) in the axis of the most distal hole of the plate and then adjust the orientation ($\pm 10^\circ$) as desired.



3. K-wire insertion

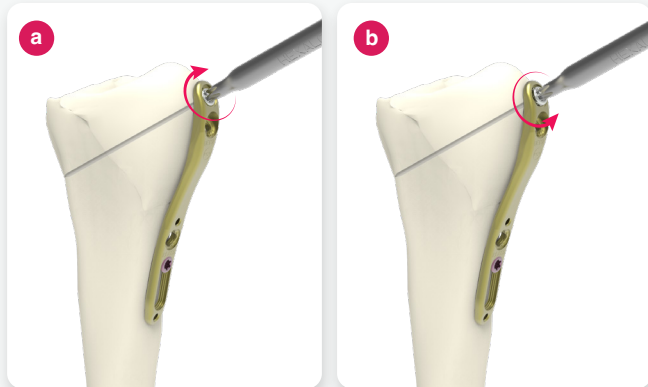
Remove the Ø1.2 mm k-wire the from K-Lock system (H1.2KS2.4-ST) (a) and then insert it through the polyaxial pin guide (b).

Leaving the k-wire in place, remove the polyaxial pin guide (c).



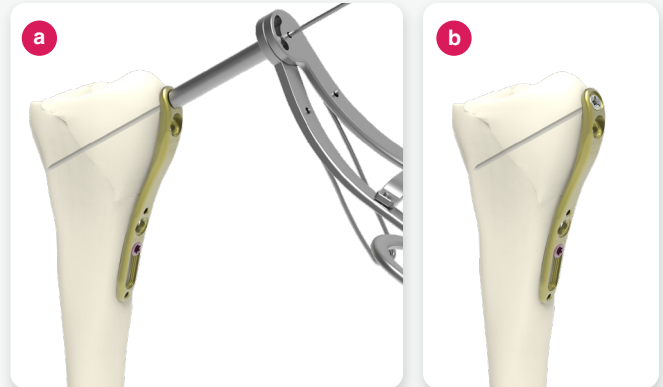
4. K-Lock placement

Insert the K-Lock system (H1.2K2.4-ST) along the Ø1.2 mm k-wire with the "UP" side facing upwards (a). Snap off the blue handle leaving the K-Lock in place (b).



5. Locking

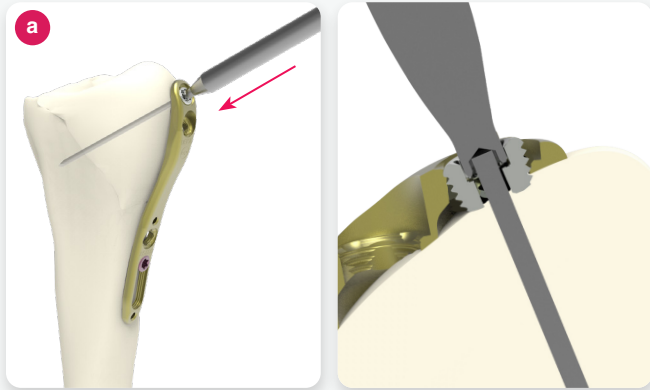
Use the cannulated screwdriver (ANC1122) to lock the K-Lock into the plate, turning until locked (a). Then unscrew half a turn (b) to allow the k-wire to be pushed in slightly (explained in step 7).



6. Cutting

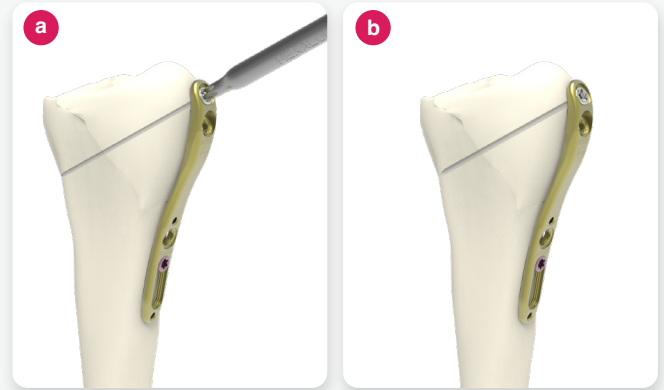
Fully open the cutting pliers (ANC1159) and slide them along the Ø1.2 mm k-wire until the top of the K-Lock (a).

Cut the k-wire (a).



7. Final impaction

Use the impactor (ANC1146) to push slightly the k-wire making it flush with the K-Lock system (a).



8. Final locking

Finalize the tightening using the cannulated screwdriver (ANC1122) (a).

The k-wire is now fully inserted and locked into the plate (b).



9. Remaining steps

Repeat the steps 2 to 8 to lock a second K-Lock system in the 2nd distal hole of the plate if needed (a).

Then, use the polyaxial or monoaxial technique (see the Xpert Wrist 2.4 or the Initial R Xpert brochure) to insert the remaining locking screws (SDT2.4Lxx) in the plate.

FINAL RESULT



REMARK

Some of the instruments found in the surgical technique are not mentioned in the reference table (page 4). These instruments are found in the Xpert Wrist 2.4 kit, for more information please refer to the **Xpert Wrist 2.4 brochure**.

REFERENCES

K-LOCK SYSTEM IMPLANT

Ref.	Description
H1.2KS2.4-ST	K-wire locking system & Ø1.2 mm K-wire - STERILE



H1.2KS2.4-ST



K-LOCK SYSTEM INSTRUMENTS

Ref.	Description
ANC350	Ø4.5 mm AO quick coupling handle - Size 1
ANC1122	T10 screwdriver with AO quick coupling system - cannula Ø1.3 mm
ANC1123	Non threaded polyaxial pin guide Ø1.2 mm
ANC1146	Impactor for Ø1.2 K-Lock system
ANC1159	Cutting pliers for Ø1.2 K-Lock system
29509*	Adson pliers 120 mm a gr.

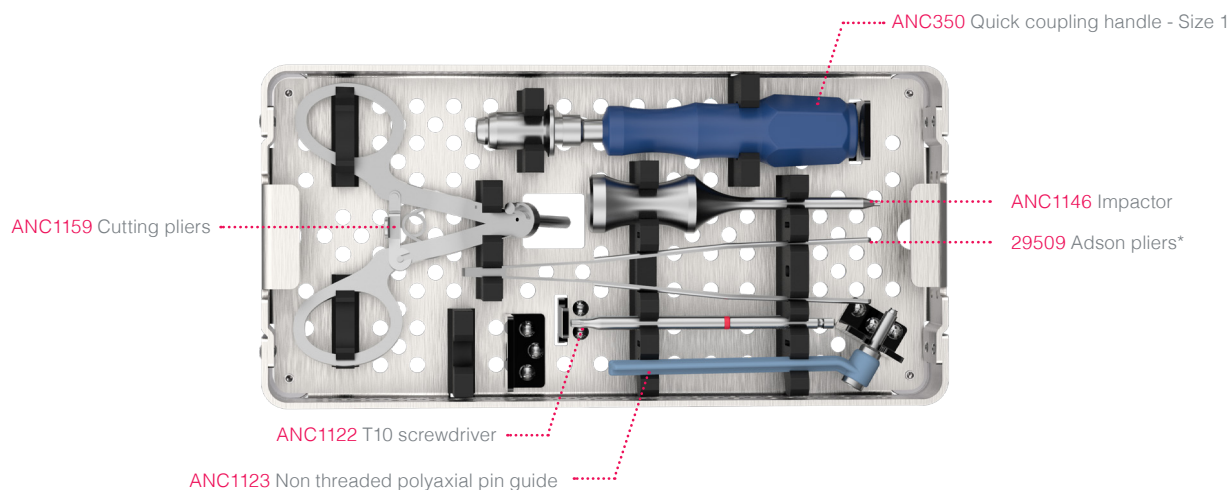
* Manufacturer: MEDLANE
Class: I

REMARK

The K-Lock system instruments can be found either in:

- **Complete Xpert Wrist 2.4 kit** (3 levels)
- **Xpert Wrist 2.4 Optional kit** (2 options per kit)

For more information, please refer to the Xpert Wrist 2.4 description kit.



*Manufacturer: MEDLANE
EC class: Ir / US class: I

The K-Lock system is compatible and must be used with instruments in the Xpert Wrist 2.4 kit or one of the Initial R Xpert kits.
For more information, please refer to the Xpert Wrist 2.4 brochure and/or the description kit or the Initial R Xpert brochure.

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