

# XPert WRIST 2.4 - VOLAR PLATES: ARTHROSCOPIC STEPWISE REDUCTION



**NEWCLIP**  
TECHNICS

INNOVATION MEANS MOTION

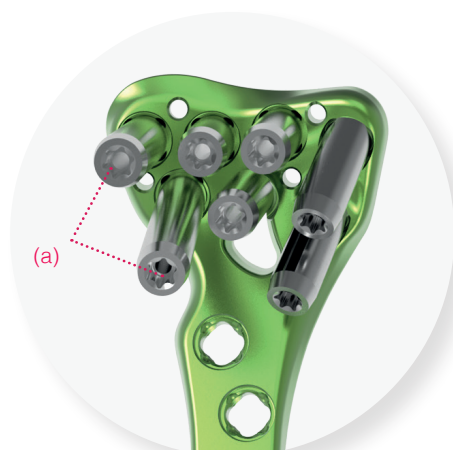
- **Indications:** the implants of the Xpert Wrist range are intended for the fixation of hand and forearm fractures, osteotomies and arthrodeses in adults.

## 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.

## SURGICAL TECHNIQUE

Example using a volar plate size 3 for distal radius (DTDVS3)

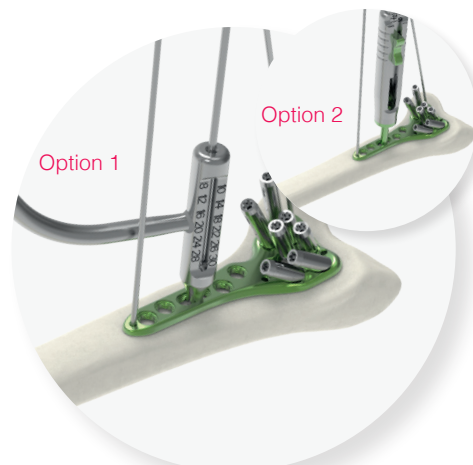


1. Lock the two long pin guides (ANC1024) into the ulnar holes to spread the soft tissue (a) and five short pin guides (ANC1023) in the remaining holes.



2. Position the plate on the volar aspect of the radius and below the watershed line. Align the diaphyseal position of the plate with the radial shaft.

A proximal Ø1.4 mm pin (33.0214.120) is used to temporarily hold the proximal end of the plate centred on the radial shaft. A distal Ø1.4 mm pin may be used to hold the radio-ulnar position of the distal part of the ulnar plate. A fluoroscopy is then used to check the plate position. When acceptable, a screw is inserted through the oblong hole.



3. Position the Ø1.8 mm non-threaded bent guide gauge (ANC695) and perform the drilling (ANC696) into the oblong hole.

**Option 1** - Determine the screw length using the guide gauge (ANC695).

**Option 2** - Determine the screw length using the length gauge (ANC102).



4. Insert a Ø2.4 mm cortical screw (CT2.4Lxx) into the oblong hole to hold the plate.

After the removal of the pins, the position of the plate can be adjusted by loosening the cortical screw (CT2.4Lxx) in the oblong hole and by sliding the plate. Then, tighten the cortical screw (CT2.4Lxx).

**NB:** In case of poor bone quality, insert a Ø2.4 mm locking screw (SDT2.4Lxx).

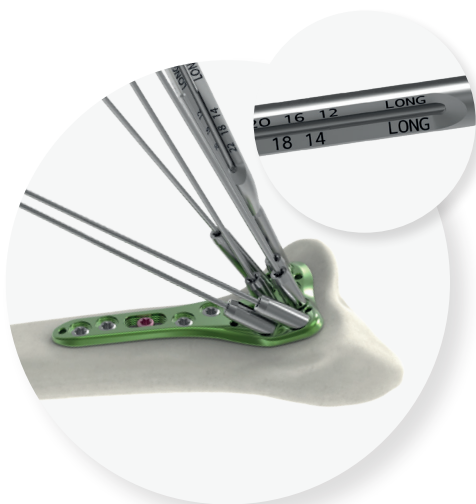


5. Use the variable- or fixed- angle technique (see Xpert volar plate brochure) for the insertion of Ø2.4 mm locking screws (SDT2.4Lxx) in the remaining diaphyseal locking holes.



6. The reduction of the volar fragments is stabilized by inserting Ø1.2 mm (33.0212.120-MAR1) pins from 5 to 10 mm in depth. The dorsal fragments should remain free.

In traction, under arthroscopic control, the dorsal fragments are sequentially reduced then provisionally fixed by the appropriate pins. The arm is then taken out of traction.



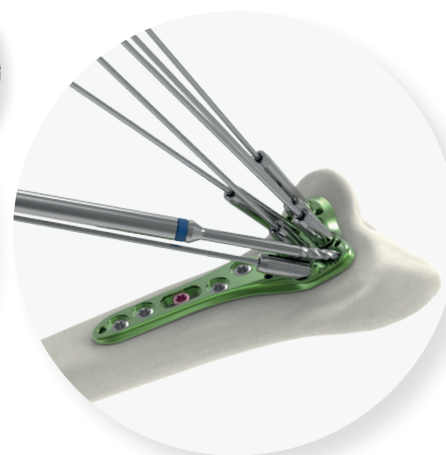
## Long pin swapped for pegs

7a. Position the 2-in-1 instrument (ANC1025) over the pin into the head of the long pin guide. Using the «LONG» graduations, measure the length of the pin.

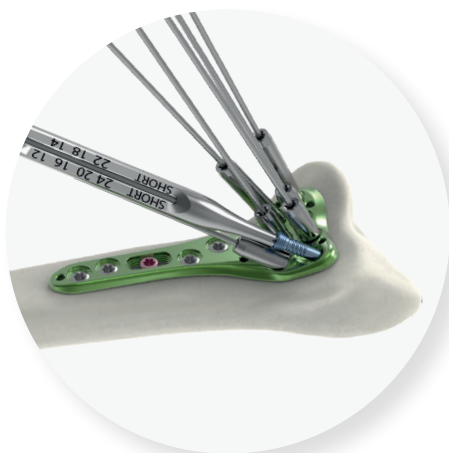


## Short pin swapped for pegs

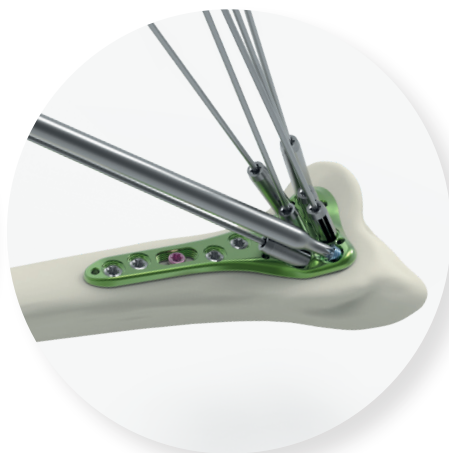
7b. Position the 2-in-1 instrument (ANC1025) over the pin into the head of the short pin guide. Using the «SHORT» graduations, measure the length of the pin.



8. Remove the short pin guide with the 2-in-1 instrument (ANC1025), and drill over the pin with the cannulated drill bit (ANC1026).



9. Insert a cannulated locking screw peg (H1.3BDT2.4Lxx) of the length previously determined with the 2-in-1 instrument until the head of the screw peg engages the plate. Remove the pin.



10. To finalize the screwing use the non-cannulated screwdriver (ANC575).

Repeat steps 7, 8 and 9 for the remaining holes, starting from the 1st row.



## FINAL RESULT

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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