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With a non sterile standard kit

**Constraints**
- Complex traceability
- Contracted out sterilization
- Suppliers' deadline

**High costs**
- $ Stocks
- $ Control
- $ Cleaning
- $ Decontamination
- $ Sterilization

- Bulky storage

**Complex process**
1. Delivery
2. Storage
3. Unpacking
4. Control
5. Decontamination
6. Cleaning
7. Drying
8. Control
9.包装 of the kit
10. Sterilization
11. Surgery
12. Decontamination
13. Cleaning
14. Drying
15. Control
16. Traceability
17. Restocking
18. Packaging of the kit
19. Sterilization
20. Storage

Prevents an effective solution & a quick response

**INCREASED RISKS**

**NON OPTIMAL surgery**

Surgeon

Incomplete kit

Defective sterilization

Incomplete kit

Damaged instrumentation

URGENT SURGICAL CASES COMPROMISED
Safety: 100% Traceability

Cost efficiency:
- Controlled stocks
- Simplified control
- 0 Cleaning
- 0 Decontamination
- 0 Sterilization
- Sundry expenses
- Optimized storage

Efficiency:
1 Delivery
2 Storage
3 Surgery
- An effective solution & a quick response
- Available when needed
- READY-TO-USE FOR SURGERY
- Optimized handling of URGENT SURGICAL CASES

Ready when you are!

With the Xpert 2.4 kit

with state-of-the-art implants
Available when needed:
The Initial R™ Xpert 2.4 kit comes pre-sterilized and ready to use. The combination of sterile implants and single use instrumentation in a single packaging makes Initial R™ Xpert 2.4 ideal for use in urgent surgical cases.

Safety:
The Initial R™ Xpert 2.4 kit is fully traceable and has a shelf life of 5 years. Its instrumentation and implants are “always new” and have never been opened or used before.

Storage:
The Initial R™ Xpert 2.4 kit can be easily stored in the operating room because of its small size.

Costs:
Initial R™ Xpert 2.4 is a cost-effective solution. The additional costs including cleaning, decontamination, sterilization of kits are cancelled.

Contamination:
The combination of implants and sterile single-use instrumentation minimizes contamination risks.

Buying procedure:
Initial R™ Xpert 2.4 facilitates buying procedures: restocking and orders are simplified, stock management is optimized.
Indications
The implants of the Initial R™ Xpert Wrist range are intended for 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.

Kit content

- SDT2.4Lxx
  Ø2.4 mm locking screws
  Non anodized

- Pins - Ø1.4 L120 mm (x4)

- T8 prehensor screwdriver

- Length gauge

- Ø1.8 mm quick coupling drill bit - L125 mm

- CT2.4Lxx
  Ø2.4 mm standard cortical screws
  Pink anodized

- Plate for distal radius

- Handle for guide gauge

- Ø1.8 mm threaded guide gauge

- Polyaxial drill guide
A comprehensive range of plates

Kits available for 13 sizes, 5 lengths, 3 widths and 3 dedicated volar rim plates, for left (blue plates) and right (green plates) sides, offering versatile solutions.
**Plate features**

### Design features

#### ANATOMICAL SHAPE

- **Precontoured plates** for an anatomical fit:
  - The distal edge of the plate runs alongside the watershed line.
  - Different medial and lateral radii of curvature for optimized volar tilt.

- **Various pin holes possibilities**: to locate the joint space or to temporarily fix specific fragments.

#### VOLAR RIM PLATES

- **Precontoured plates** for an anatomical fit.

- **Lateral lip** allowing the plate positioning on the watershed line.

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**Post-operative follow-up for volar rim plates**

(available in KIT-XEN1x, KIT-XES1x & KIT-XEW1x)

The plate positioning onto the watershed line may increase the risk of tendon injury. The surgeon should take this into consideration during subsequent follow-up of the patient. Plate removal post-healing is mandatory.
Plate features

Sizes XS, 1, 2, & 4

Dedicated instruments for mini invasive (MIS) surgery are available for narrow (sizes XS, 1 & 2) and standard (sizes 1, 2 & 4) plates.

- Pre-angled holes for extra-short (XS) plate
- Pre-angled holes for narrow and standard plates sizes 1, 2 & 4

- Reduced distal profile to limit contact with tendons
- Polyaxial holes

Hole for Ø1.4 mm pin insertion to locate the joint space
1st distal screw row to support the volar lip
2nd distal screw row to support the dorsal lip

MONOAXIAL FIXATION ONLY

By using the threaded guide gauge for:
- the window’s monoaxial locking hole

The window in the plate allows a better visualization of the fracture reduction or a bone graft insertion

Locking oblong hole allows to adjust the plate positioning with a cortical screw; in the case of poor bone quality, a locking screw can be inserted
Plate features

Size 3

Plate dedicated to target the radial styloid tip.

Pre-angled holes for narrow and standard size 3 plates

- Distal 24°
- Ulnar 3.8°
- Distal 22.1°
- Ulnar 6.5°
- Distal 32.1°
- Ulnar 5.9°
- Distal 37°
- Ulnar 2.5°

Reference point 0°

Pre-angled holes for wide size 3 plates

- Distal 26°
- Radial 1.1°
- Distal 25°
- Radial 2.2°
- Distal 22.1°
- Ulnar 6.5°
- Distal 24°
- Ulnar 3.8°
- Distal 32.1°
- Ulnar 5.9°
- Distal 35.1°
- Ulnar 4.9°

Reference point 0°

Reduced distal profile to limit contact with tendons

Hole for Ø1.4 mm pin insertion to locate the joint space

MONOAXIAL FIXATION ONLY

By using the threaded guide gauge for:

- the 2 pre-angled monoaxial locking holes targeting the radial styloid
- the window’s monoaxial locking hole

The window in the plate allows a better visualization of the fracture reduction or a bone graft insertion

Locking oblong hole allows to adjust the plate positioning with a cortical screw; in the case of poor bone quality, a locking screw can be inserted

Ref: DTDVS3
Plate features

Volar Rim

Hole for Ø1.4 mm pin insertion to locate the joint space

Lateral lip allowing the plate positioning on the watershed line.

Pre-angled holes for narrow and standard volar rim plates

Pre-angled holes for wide volar rim plates

Post-operative follow-up for volar rim plates (available in KIT-XEN1x, KIT-XES1x & KIT-XEW1x)

The plate positioning onto the watershed line may increase the risk of tendon injury. The surgeon should take this into consideration during subsequent follow-up of the patient. Plate removal post-healing is mandatory.

MONOAXIAL FIXATION ONLY

By using the threaded guide gauge for:

• the window’s monoaxial locking hole

The window in the plate allows a better visualization of the fracture reduction or a bone graft insertion

Locking oblong hole allows to adjust the plate positioning with a cortical screw; in the case of poor bone quality, a locking screw can be inserted.
**Polyaxial and monoaxial locking fixation – Ø2.4 mm**

- Unique Ø2.4 mm screws.
- Hexalobular screw head design.
- New patented polyaxial locking platform +/−10° thanks to the use of the polyaxial drill guide.

⚠️ When using the polyaxial drill guide, make sure that the guide is locked in the axis of the hole to avoid over angulation of the drilling, which could result in a failure of the locking mechanism.

- Screw length from 10 to 28 mm.
- Ø1.8 mm sterile screw pegs (BDT1.8Lxx-ST) are available on demand (see page 27).

⚠️ Final tightening of the screws must be performed by hand.
Screw and fixation features

➤ Locking oblong hole – Ø2.4 mm locking and non locking screws

The locking oblong hole is compatible with the Ø2.4 mm locking screws (SDT2.4Lxx) and the Ø2.4 mm cortical screws (CT2.4Lxx).

➤ Positioning

- Screws targeting the tip of the radial styloid (only for the size 3 plates (DTxVN3, DTxVS3 and DTxVW3)).

- 2 rows of subchondral support to increase the stability of the reduction:
  > 1st row with 4 locking screws to support the volar lip (5 for the wide plates available in KIT-XW2x, KIT-XW3x & KIT-XEW1x),
  > 2nd row with 3 locking screws to support the dorsal lip (except for the narrow headed extra short plate).

Handle for guide gauge: before performing the drilling into the oblong hole, clip the handle for guide gauge on the Ø1.8 mm threaded guide gauge.

Ref: DTDVS3 available in KIT-XS3D
The Initial R™ Xpert 2.4 templates have been designed to determine quickly and simply the appropriate Initial R™ Xpert 2.4 kit. Each kit has its own template. Templates are divided into distinct groups (see table below).

### STERILE TEMPLATES

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<td>ANC1230</td>
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</table>

*Available in sterile packaging - Single use kit.*
Surgical techniques

Extra short plate (XS)

Example: surgical technique with a narrow head extra short plate

1. Determine the plate size thanks to the templates, then choose the suitable kit. Afterwards, stabilize the fracture, then position the plate.

2. Clip the handle for guide gauge on the Ø1.8 mm threaded guide gauge and perform the drilling using the guide gauge in the oblong hole.
   - Option 1 - Determine the screw length using the drill bit and guide gauge.
   - Option 2 - Determine the screw length using the length gauge.

3. Insert the Ø2.4 mm pink cortical screw into the oblong hole to temporarily fix the plate.

   N.B.: In the case of poor bone quality, a Ø2.4 mm locking screw (SDT2.4Lxx) can be inserted.

4. Insert a Ø1.4 mm pin into the radioulnar hole for pin and check the joint space. Remove the pin and reposition the plate if required.
Surgical techniques

Extra short plate (XS)

Example: surgical technique with a narrow head extra short plate

Polyaxial technique
Insert the polyaxial drill guide into the radioulnar hole (1) and drill using the drill bit. Determine the screw length using the length gauge and insert a Ø2.4 mm non-anodized locking screw using the screwdriver. Proceed similarly with the lateral hole positioned near the radial styloid process (2).

Monoaxial technique
Insert the guide gauge into the radioulnar hole (1) and drill using the drill bit. Option 1 - Determine the screw length using the drill bit and guide gauge. Option 2 - Determine the screw length using the length gauge. Then, insert a Ø2.4 mm non anodized locking screw using the screwdriver.

Proceed with the monoaxial technique (or polyaxial technique if need be) for the remaining locking holes.
Surgical techniques

> Sizes 1,2 & 4

Example: surgical technique with a standard plate size 2
(Same technique for all plate sizes 1,2 & 4)

1. Determine the plate size thanks to the templates, then choose the suitable kit. Afterwards, stabilize the fracture, then position the plate.

2. Clip the handle for guide gauge on the Ø1.8 mm threaded guide gauge and perform the drilling using the guide gauge in the oblong hole.
   - Option 1 - Determine the screw length using the drill bit and guide gauge.
   - Option 2 - Determine the screw length using the length gauge.

3. Insert the Ø2.4 mm pink cortical screw into the oblong hole to temporarily fix the plate.
   - N.B.: In the case of poor bone quality, a Ø2.4 mm locking screw (SDT2.4Lxx) can be inserted.

4. Insert a Ø1.4 mm pin into the most distal radioulnar hole for pin and check the joint space. Remove the pin and reposition the plate if required.
Surgical techniques

Sizes 1, 2 & 4

Example: surgical technique with a standard plate size 2

(Whole technique for all plate sizes 1, 2 & 4)

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Step 5

Polyaxial technique

Insert the polyaxial drill guide into the radioulnar hole (1) and drill using the drill bit. Determine the screw length using the length gauge and insert a Ø2.4 mm non-anodized locking screw using the screwdriver. Proceed similarly with the lateral hole positioned near the radial styloid process (2).

Or

Monoaxial technique

Insert the guide gauge into the radioulnar hole (1) and drill using the drill bit.*

Option 1 - Determine the screw length using the drill bit and guide gauge.

Option 2 - Determine the screw length using the length gauge. Then, insert a Ø2.4 mm non anodized locking screw using the screwdriver.

Optional

If required, a screw can be inserted into the window’s locking hole.

The window’s locking hole is compatible with the monoaxial technique only. The use of the threaded guide gauge is compulsory.

* CAUTION

The use of the threaded guide gauge is compulsory in the window’s locking hole.

FINAL RESULT

Proceed with the monoaxial technique (or polyaxial technique if need be) for the remaining locking holes.

* CAUTION

The window’s locking hole is compatible with the monoaxial technique only. The use of the threaded guide gauge is compulsory.

See below for more information

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Surgical techniques

Size 3

Example: surgical technique with a standard plate size 3
(Same technique for narrow and wide plates size 3)

1. Determine the plate size thanks to the templates, then choose the suitable kit. Afterwards, stabilize the fracture, then position the plate.

2. Clip the handle for guide gauge on the Ø1.8 mm threaded guide gauge and perform the drilling using the guide gauge in the oblong hole.

   Option 1 - Determine the screw length using the drill bit and guide gauge.
   Option 2 - Determine the screw length using the length gauge.

3. Insert the Ø2.4 mm pink cortical screw into the oblong hole to temporarily fix the plate.

   N.B.: In the case of poor bone quality, a Ø2.4 mm locking screw (SDT2.4Lxx) can be inserted.

4. Insert a Ø1.4 mm pin into the most distal radioulnar hole for pin and check the joint space. Remove the pin and reposition the plate if required.
Surgical techniques

Size 3

Example: surgical technique with a standard plate size 3

(Same technique for narrow and wide plates size 3)

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Step 5

Polyaxial technique
Insert the polyaxial drill guide into the radioulnar hole (1) and drill using the drill bit. Determine the screw length using the length gauge and insert a Ø2.4 mm non-anodized locking screw using the screwdriver.

Monoaxial technique
Insert the guide gauge into the radioulnar hole (1) and drill using the drill bit.
- Option 1: Determine the screw length using the drill bit and guide gauge.
- Option 2: Determine the screw length using the length gauge. Then, insert a Ø2.4 mm non anodized locking screw using the screwdriver.

Optional
If required, a screw can be inserted into the window’s locking hole.

* WARNING
The use of the threaded guide gauge is compulsory in the window’s locking hole and the 2 pre-angled monoaxial locking holes targeting the radial styloid process.

CAUTION
The window’s locking hole and the 2 pre-angled monoaxial locking holes targeting the radial styloid process are compatible with the monoaxial technique only. The use of the threaded guide gauge is compulsory.

FINAL RESULT
Proceed with the monoaxial technique (or polyaxial technique if need be) for the remaining locking holes.
Surgical techniques

\textbf{Volar rim}

Example: surgical technique with a standard volar rim plate
(Same technique for narrow and wide volar rim plates).

\textbf{Post-operative follow-up for volar rim plates}
(available in KIT-XEN1x, KIT-XES1x & KIT-XEW1x)

The plate positioning onto the watershed line may increase the risk of tendon injury. The surgeon should take this into consideration during subsequent follow-up of the patient. Plate removal post-healing is mandatory.

1. Determine the plate size thanks to the templates, then choose the suitable kit. Afterwards, stabilize the fracture, then position the plate.

2. Clip the handle for guide gauge on the \(\varnothing1.8\) mm threaded guide gauge and perform the drilling using the guide gauge in the oblong hole.

\textbf{Option 1} - Determine the screw length using the drill bit and guide gauge.

\textbf{Option 2} - Determine the screw length using the length gauge.

3. Insert the \(\varnothing2.4\) mm pink cortical screw into the oblong hole to temporarily fix the plate.

\textbf{N.B.}: In the case of poor bone quality, a \(\varnothing2.4\) mm locking screw (SDT2.4Lxx) can be inserted.

4. Insert a \(\varnothing1.4\) mm pin into the most distal radioulnar hole for pin and check the joint space. Remove the pin and reposition the plate if required.
Surgical techniques

› Volar rim

Example: surgical technique with a standard volar rim plate
(Same technique for narrow and wide volar rim plates).

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Step 5

Polyaxial technique
Insert the polyaxial drill guide into the radioulnar hole (1) and drill using the drill bit. Determine the screw length using the length gauge and insert a Ø2.4 mm non-anodized locking screw using the screwdriver. Proceed similarly with the lateral hole positioned near the radial styloid process (2).

Option 1 - Determine the screw length using the drill bit and guide gauge.
Option 2 - Determine the screw length using the length gauge. Then, insert a Ø2.4 mm non-anodized locking screw using the screwdriver.

Monoaxial technique
Insert the guide gauge into the radioulnar hole (1) and drill using the drill bit. Determine the screw length using the drill bit and guide gauge.

Option 1
- Determine the screw length using the drill bit and guide gauge.
Option 2
- Determine the screw length using the length gauge. Then, insert a Ø2.4 mm non-anodized locking screw using the screwdriver.

Optional

If required, a screw can be inserted into the window’s locking hole.

The window’s locking hole is compatible with the monoaxial technique only. The use of the threaded guide gauge is compulsory.

* CAUTION
The use of the threaded guide gauge is compulsory in the window’s locking hole.

CAUTION
The window’s locking hole is compatible with the monoaxial technique only. The use of the threaded guide gauge is compulsory. See below for more information.

FINAL RESULT
Proceed with the monoaxial technique (or polyaxial technique if need be) for the remaining locking holes.
### INITIAL R™ XPERT - IMPLANTS CONTENT

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<td>Handle for guide gauge</td>
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<td>Ø1.8 mm threaded guide gauge</td>
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<td>Polylaxial drill guide</td>
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NB: Supplemental screws are available in sterile packaging (cf.: Initial R™ Xpert 2.4 additional implants page 27)

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References

INITIAL R™ XPERT - INSTRUMENTATION CONTENT

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References

INITIAL R™ XPERT - KITS

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<td>DETVW2</td>
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Additional implants
Sterile screws packaged in the supplemental sterile screw caddy

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*Blue anodized

Removal and rescue kits
Sterile instruments

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<tr>
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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.
Example of kit content.

- Locking screws Ø2.4 mm
- Standard cortical screws - Ø2.4 mm

Materials:
- Degree of accuracy for devices with a measuring function: ± 0.8 mm

Left Radius
Standard - Size 3

Xpert 2.4®
Initial™