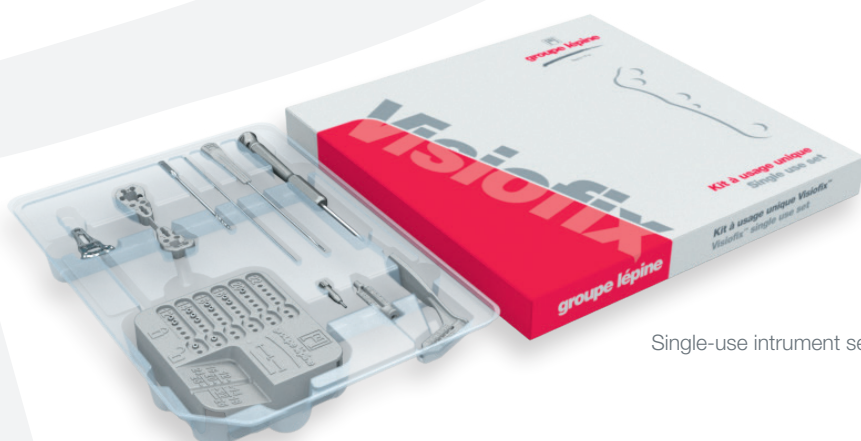


— LOCKING VOLAR PLATES FOR  
DISTAL RADIUS FRACTURES

VISIOFIX™



Single-use instrument set



**groupe lépine**

Depuis 1714

# SUMMARY

# **VISIOFIX™ LOCKING VOLAR PLATES**

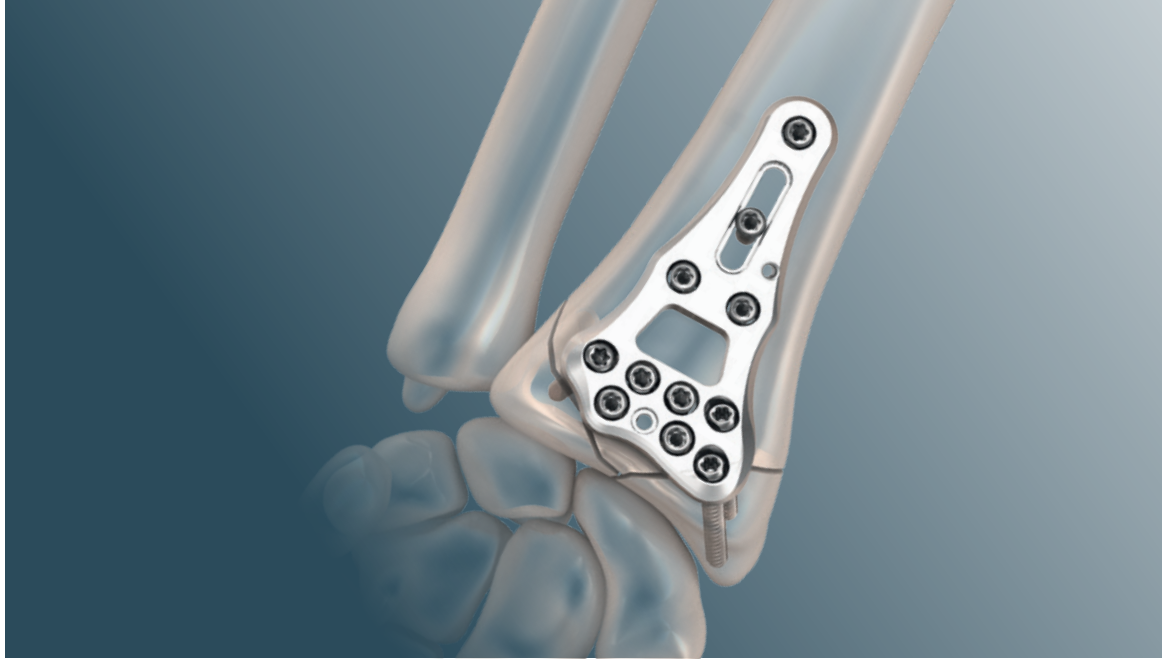
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▪	CONCEPT OF LOCKING VOLAR PLATES	3
▪	CHARACTERISTICS AND DESIGN OF VISIOFIX™ IMPLANTS	4
▪	SURGICAL TECHNIQUE	6
▪	VISIOFIX™ STERILE KITS	14

# CONCEPT OF LOCKING VOLAR PLATES

## FOR DISTAL RADIUS FRACTURES

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The locking volar plates VISIOFIX™ range is designed for the treatment of extra-articular and intra-articular distal radius fractures.

The locking of the screw heads in the plate ensures stable mounting, which is essential for maintaining fracture reduction.

The VISIOFIX™ plates are offered with a single-use instrument set which guarantees that the instrumentation is always new and available, as well as optimal traceability.



# CHARACTERISTICS AND DESIGN OF VISIOFIX™ IMPLANTS

## 3 types of plates

The locking volar plates VISIOFIX™ range is designed for the treatment of distal radius fractures.

It includes 3 types of plates:

- V1 plate, ambidextrous, for extra-articular fractures
- V2 plates, lateralized, for intra-articular fractures
- V3 plates, lateralized long, for intra-articular fractures

### Large viewing window

for controlling the fracture reduction up to fixation.



**V1**

1 symmetrical plate for extra-articular fractures.



**V2**

2 asymmetrical plates in left or right version for intra-articular fractures.



**V3**

2 asymmetrical long plates in left or right version for intra-articular fractures.



### Oblong hole not lockable

to adjust the positioning of the plate.



**Distal central K-wire hole** for preliminary stabilization of the fracture reduction and control of the precise positioning of the plate.

A 3D rendering of a custom metal bracket or plate, likely for medical use. The component is made of a polished, reflective metal and has a complex, irregular shape. It features several circular holes, some of which are filled with screws. Four threaded rods are attached to the bottom of the bracket, extending downwards. The design is intricate, with various cutouts and a central rectangular opening.

- optimal traceability
- risk prevention



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- Locking screws TORX

- Non-locking screws TORX

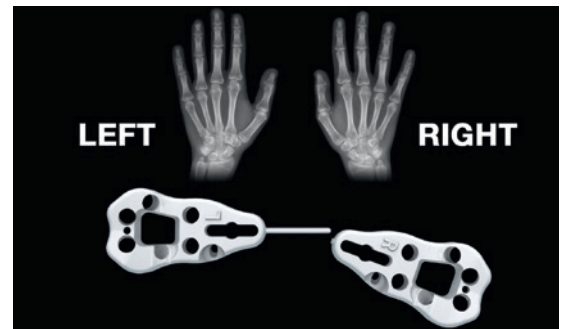


# SURGICAL TECHNIQUE

*for extra-articular fractures with  
the ambidextrous plate*

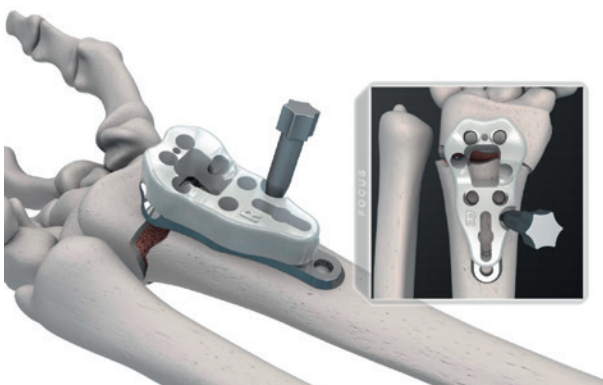
## Plate preparation

Positioning of the right(R) or left(L) guiding block on the plate, held by the assembly screw.

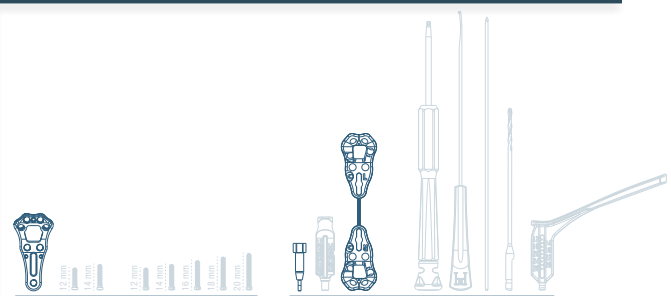


## Plate positioning

Using the assembly screw as a holder, position the plate on the edge of the distal radius, centered on the longitudinal axis.



### Single-use **STERILE VISIOFIX™ KIT**



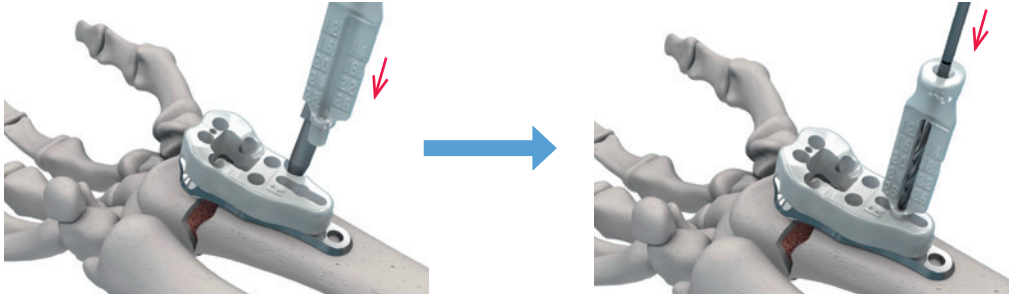
#### MATERIALS USED

IMPLANT  
VISIOFIX PLATE

INSTRUMENTS  
DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW

## Inserting the cortical screw (non-locking screw) in the oblong hole

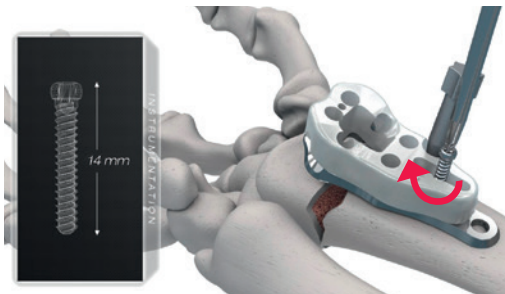
- Bicortical drilling using the drill guide.



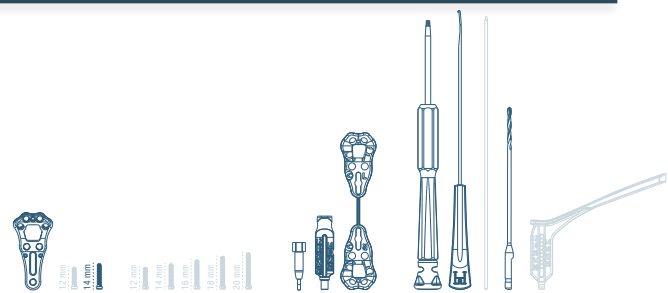
- Reading the screw length with the depth gauge in the drill guide.



- Screwing in the cortical screw.



### Single-use **STERILE VISIOFIX™ KIT**



#### MATERIALS USED

##### IMPLANTS

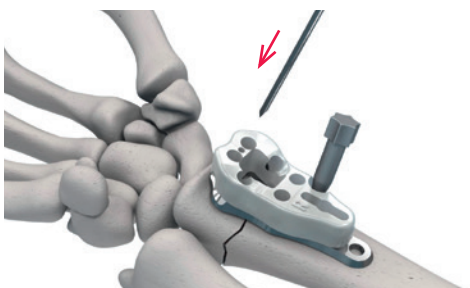
VISIOFIX PLATE  
NON LOCKING SCREW TORX

##### INSTRUMENTS

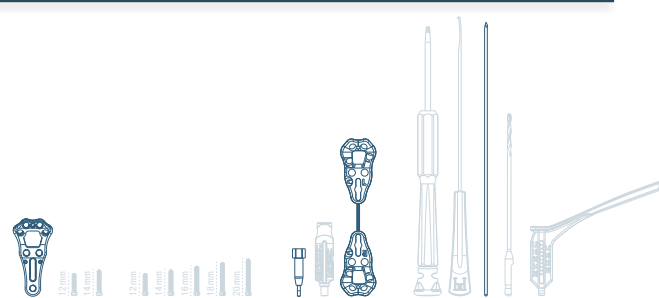
DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW  
DRILL GUIDE  
GRADUATED DRILL BIT  
DEPTH GAUGE  
TORX SCREWDRIVER T7

## Inserting the K-wire

After reduction of the fracture by external manipulation, controlled through the viewing window of the plate, insertion of the K-wire in the distal central hole.



### Single-use **STERILE VISIOFIX™ KIT**



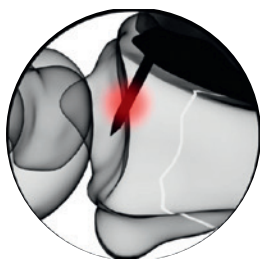
#### MATERIALS USED

IMPLANT  
VISIOFIX PLATE

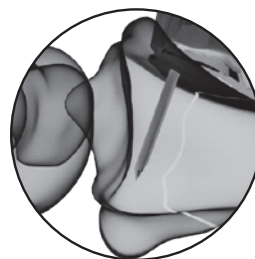
##### INSTRUMENTS

DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW  
K-WIRE

- Check the correct positioning of the plate.



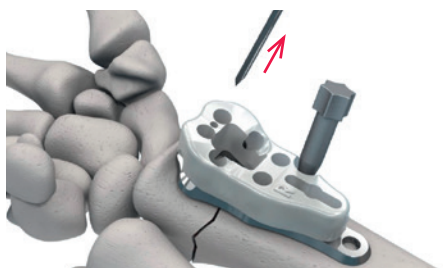
If the K-wire is implanted in the joint, the plate must be repositioned.



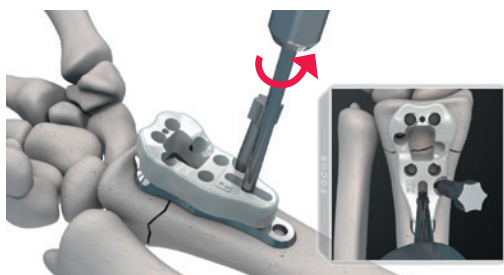
If the K-wire does not protrude into the joint, proceed to the step «Drilling the ulnar epiphyseal hole»

## Repositioning of the plate

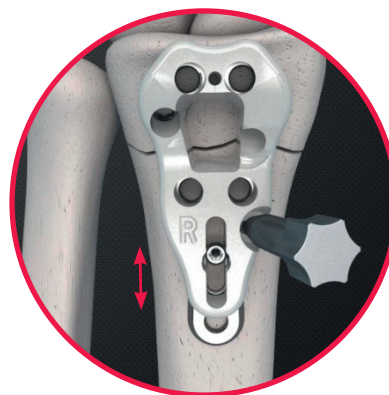
- Removal of the K-wire.



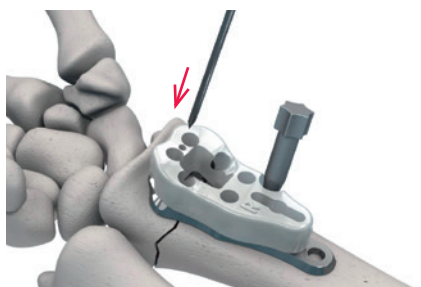
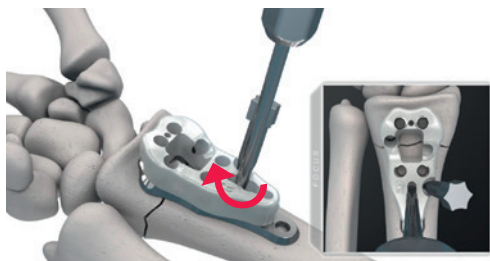
- Loosening the screw from the oblong hole.



- Proximal translation of the plate.

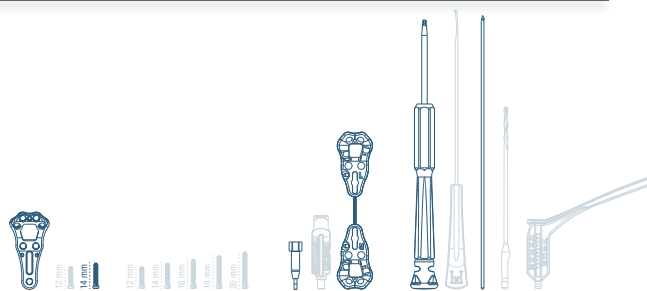


- Tightening the screw and inserting the K-wire.



- New radio control.

## Single-use **STERILE VISIOFIX™ KIT**



### MATERIALS USED

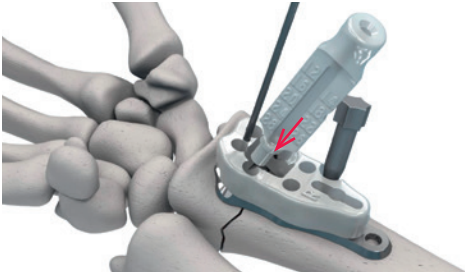
**IMPLANTS**  
VISIOFIX PLATE  
NON LOCKING SCREW TORX

**INSTRUMENTS**  
DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW  
K-WIRE  
TORX SCREWDRIVER T7

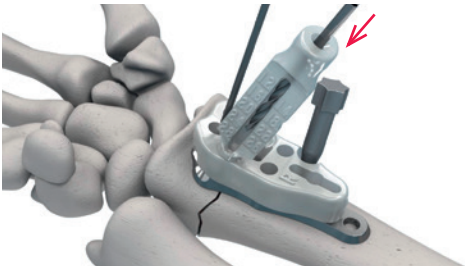


## Drilling of the ulnar epiphyseal hole

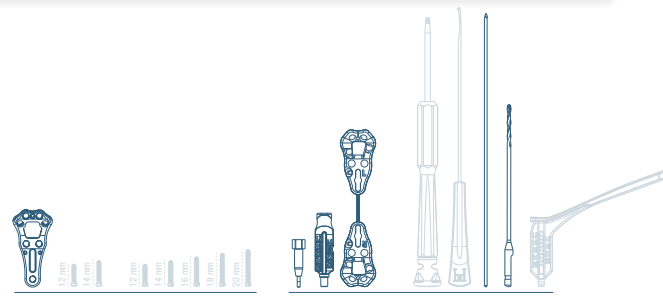
- Positioning the drill guide.



- Drilling pre-oriented epiphyseal route.



### Single-use **STERILE VISIOFIX™ KIT**



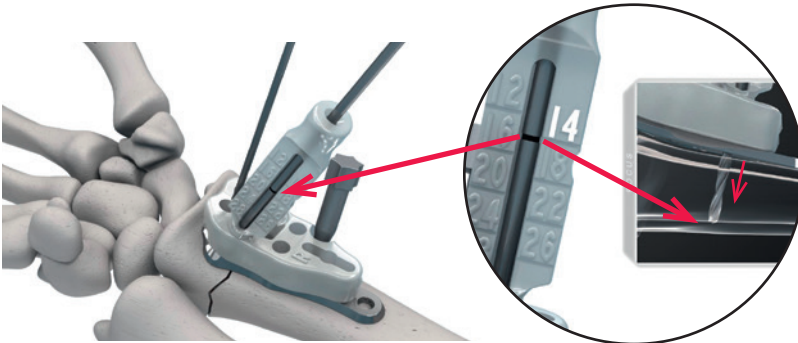
#### MATERIALS USED

IMPLANT  
VISIOFIX PLATE

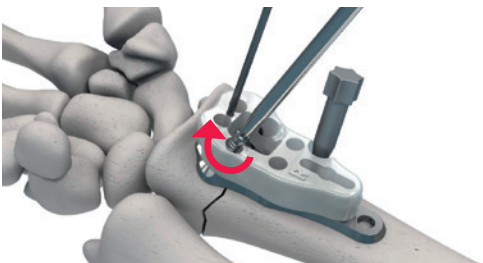
INSTRUMENTS  
DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW  
K-WIRE  
DRILL GUIDE  
GRADUATED DRILL BIT

## Determining the optimal screw length and inserting the screw

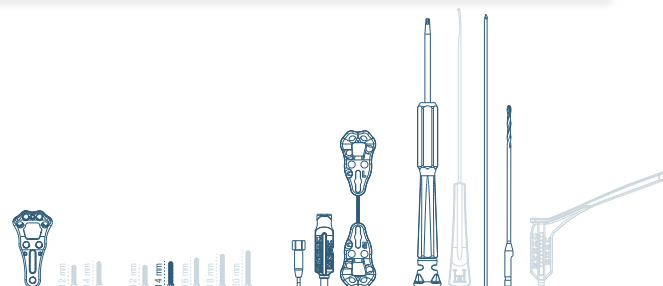
- Drill and stop on the 2nd cortical.
- Read the indicated value by the graduated drill bit on the drill guide.



- Insert the selected screw by tightening until the screw head is locked in the plate.



### Single-use **STERILE VISIOFIX™ KIT**



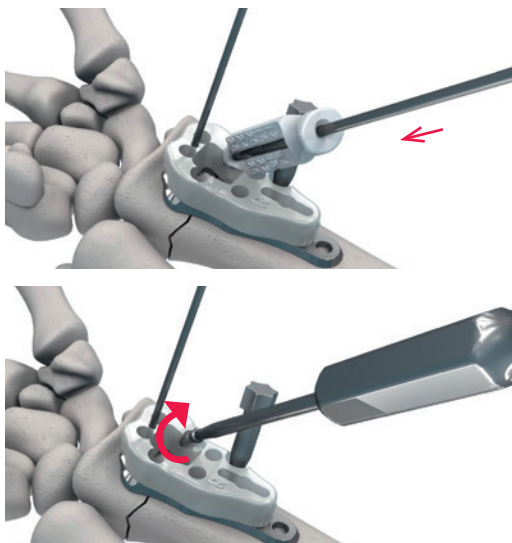
#### MATERIALS USED

IMPLANTS  
VISIOFIX PLATE  
VISIOFIX SCREW TORX

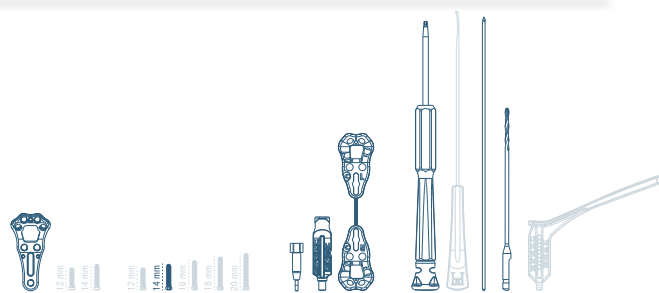
INSTRUMENTS  
DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW  
K-WIRE  
DRILL GUIDE  
GRADUATED DRILL BIT  
TORX SCREWDRIVER T7

## Insertion of the radial epiphyseal screw

- Proceed in the same steps as for the ulnar epiphyseal screw.



### Single-use **STERILE VISIOFIX™ KIT**

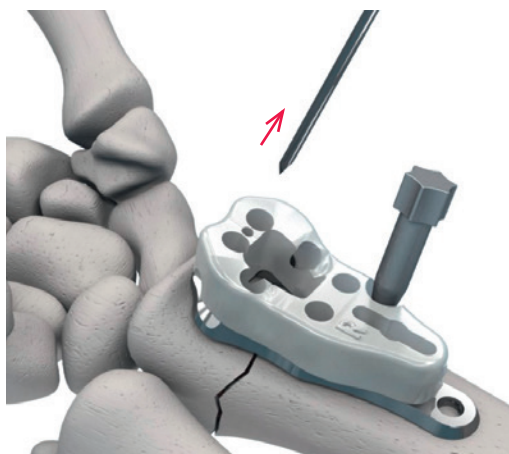


#### MATERIALS USED

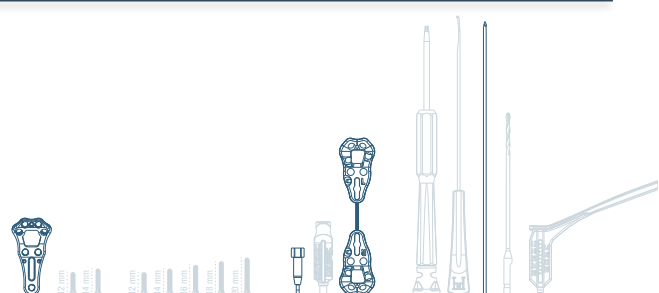
**IMPLANTS**  
VISIOFIX PLATE  
VISIOFIX SCREW TORX

**INSTRUMENTS**  
DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW  
K-WIRE  
DRILL GUIDE  
GRADUATED DRILL BIT  
TORX SCREWDRIVER T7

## Removal of the K-wire



### Single-use **STERILE VISIOFIX™ KIT**



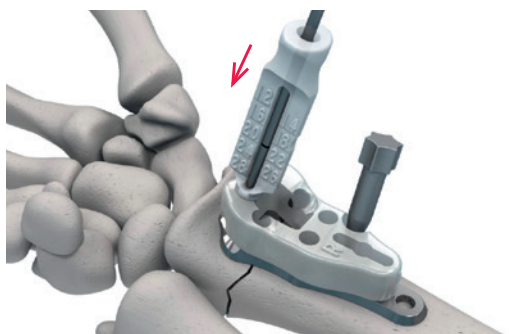
#### MATERIALS USED

**IMPLANT**  
VISIOFIX PLATE

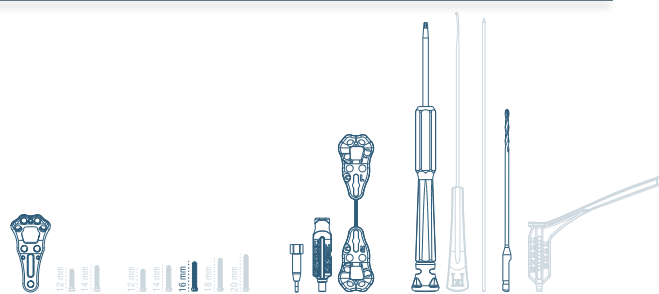
**INSTRUMENTS**  
DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW  
K-WIRE

## Inserting the 2 central epiphyseal screws

- Using the drill guide, drill and read the corresponding screw length.



### Single-use **STERILE VISIOFIX™ KIT**

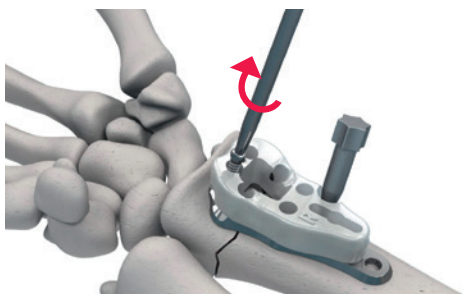


#### MATERIALS USED

**IMPLANTS**  
VISIOFIX PLATE  
VISIOFIX SCREW TORX

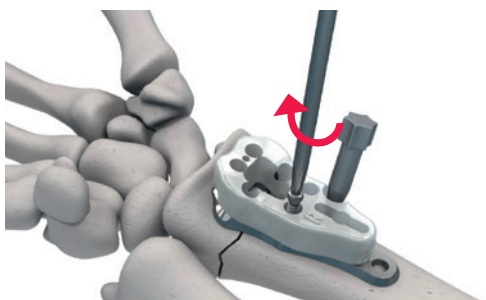
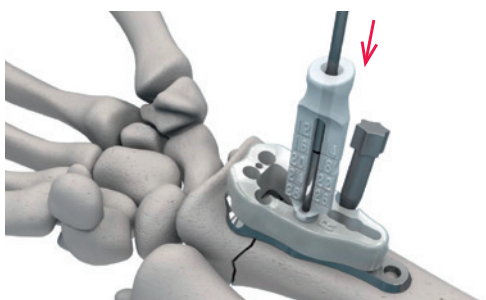
**INSTRUMENTS**  
DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW  
DRILL GUIDE  
GRADUATED DRILL BIT  
TORX SCREWDRIVER T7

- Insert the screw by tightening until the screw head is locked in the plate.

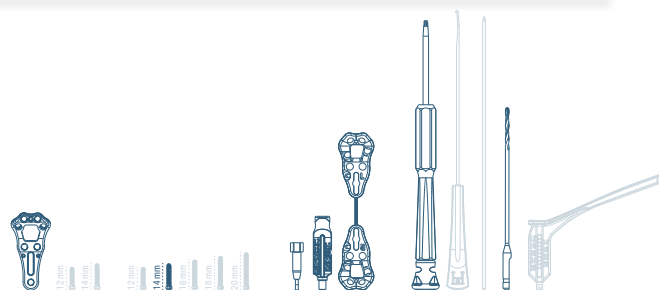


### Insertion of 1 or 2 metaphyseal screws

- Depending of the type of fracture and need, insert 1 or 2 metaphyseal screws in the same way as for epiphyseal screws.



#### Single-use **STERILE VISIOFIX™ KIT**



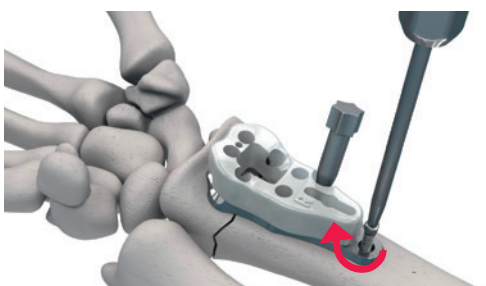
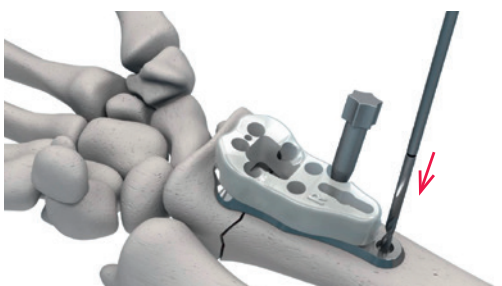
#### MATERIALS USED

**IMPLANTS**  
VISIOFIX PLATE  
VISIOFIX SCREW TORX

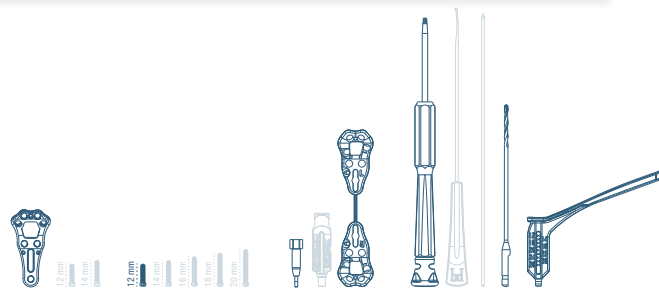
**INSTRUMENTS**  
DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW  
DRILL GUIDE  
GRADUATED DRILL BIT  
TORX SCREWDRIVER T7

### Insertion of the diaphyseal screw with bicortical drill bit

- Outside the guiding block, measure the screw length using the drill guide with handle.



#### Single-use **STERILE VISIOFIX™ KIT**

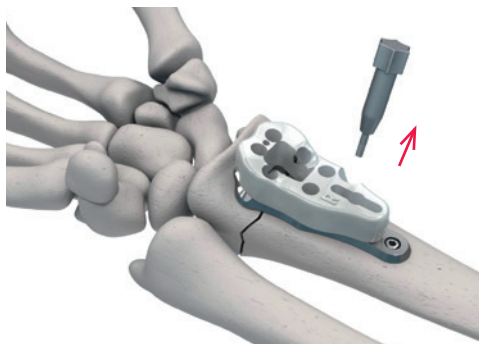


#### MATERIALS USED

**IMPLANTS**  
VISIOFIX PLATE  
VISIOFIX SCREW TORX

**INSTRUMENTS**  
DOUBLE GUIDING BLOCK  
ASSEMBLY SCREW  
DRILL GUIDE WITH HANDLE  
GRADUATED DRILL BIT  
TORX SCREWDRIVER T7

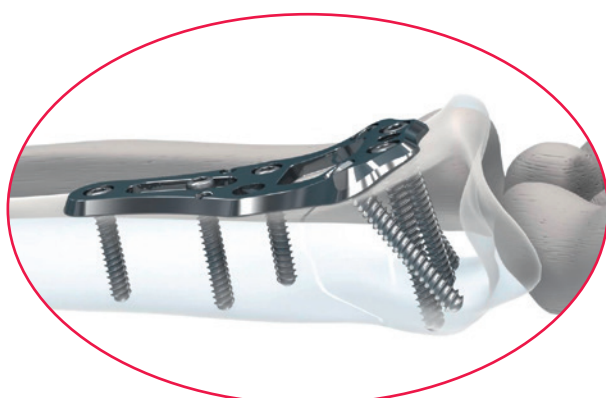
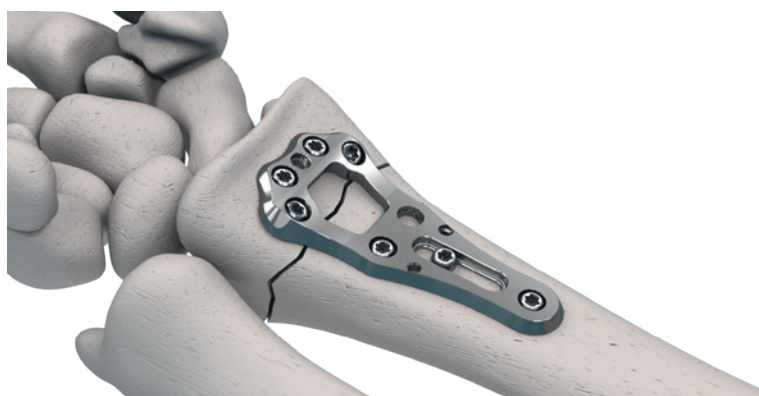
- Unscrewing the assembly screw.



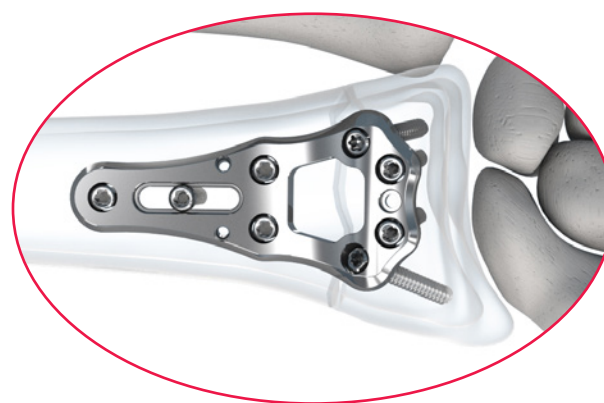
- Removal of the guiding block.



- Checking the quality of the assembly and the reduction of the fracture.



Side view



Front view

- Closing plan by plan.

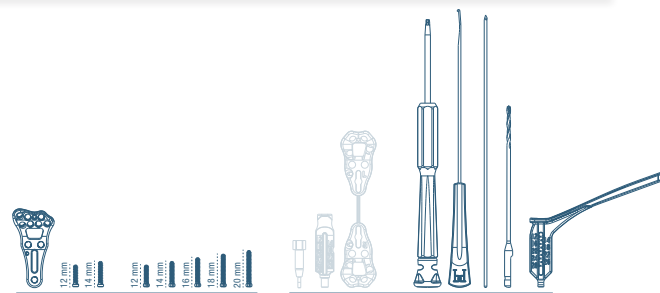


The surgical technique is similar to that of the ambidextrous plate using the drill guide with handle instead of the combination of guiding block and graduated drill guide.

The additional epiphyseal screws are inserted in the following steps:

- Drilling the styloid hole.  
Using the drill guide with handle to drill the screw route in the desired orientation.
- Inserting the screw in the same way as for epiphyseal screw.
- Inserting epiphyseal screws in the additional central holes using the same technique as for the styloid screw.

#### Single-use **STERILE VISIOFIX™ KIT**



#### MATERIALS USED

##### IMPLANTS

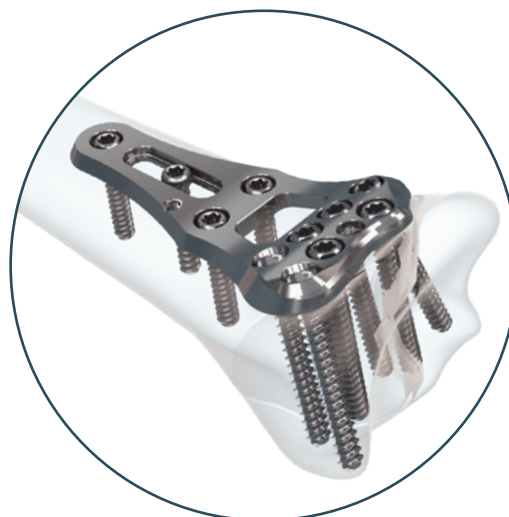
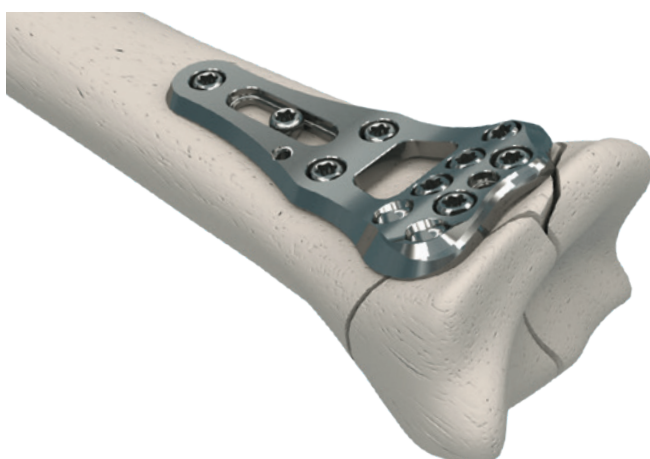
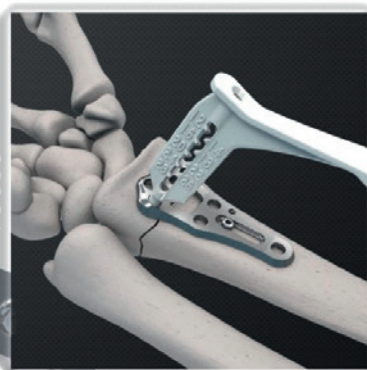
VISIOFIX PLATE 2 RIGHT or LEFT  
NON LOCKING SCREW TORX  
VISIOFIX SCREW TORX

##### INSTRUMENTS

K-WIRE  
DRILL GUIDE WITH HANDLE  
GRADUATED DRILL BIT  
DEPTH GAUGE  
TORX SCREWDRIVER T7



V2



#### Removal of the plate

To remove the device, use the TORX screwdriver T7 (Ref. OVAST010).

First remove the screws with the TORX screwdriver T7. If necessary, remove the plate from the radius using an osteotome (standard instrumentation in the operating room).



# VISIOFIX™ STERILE KITS

## COMPOSITION

### V1 ambidextrus plate

VISIOFIX™ KIT 1 : OVIKC001	
DESIGNATION	QUANTITY
<b>IMPLANTS</b>	
VISIOFIX PLATE	1
NON LOCKING SCREW L12 TORX	1
NON LOCKING SCREW L14 TORX	1
VISIOFIX SCREW L12 TORX	2
VISIOFIX SCREW L14 TORX	3
VISIOFIX SCREW L16 TORX	2
VISIOFIX SCREW L18 TORX	2
VISIOFIX SCREW L20 TORX	1
<b>INSTRUMENTATION</b>	
DOUBLE GUIDING BLOCK	1
ASSEMBLY SCREW	1
DRILL GUIDE	1
DRILL GUIDE WITH HANDLE	1
GRADUATED DRILL BIT	1
DEPTH GAUGE	1
TORX SCREWDRIVER T7	1
KIRSCHNER 1TROCAR Ø1.5 L150	1



## V2 lateralized plates

VISIOFIX™ KIT 2 right or left: OVIKD002 or OVIKG002	
DESIGNATION	QUANTITY
<b>IMPLANTS</b>	
VISIOFIX KIT 2 RIGHT	1
or VISIOFIX KIT 2 LEFT	1
NON LOCKING SCREW L12 TORX	1
NON LOCKING SCREW L14 TORX	1
VISIOFIX SCREW L12 TORX	2
VISIOFIX SCREW L14 TORX	3
VISIOFIX SCREW L16 TORX	2
VISIOFIX SCREW L18 TORX	3
VISIOFIX SCREW L20 TORX	2
VISIOFIX SCREW L22 TORX	1
<b>INSTRUMENTATION</b>	
DRILL GUIDE WITH HANDLE	1
GRADUATED DRILL BIT	1
DEPTH GAUGE	1
TORX SCREWDRIVER T7	1
KIRSCHNER 1TROCAR Ø1.5 L150	1

## V3 lateralized long plates

VISIOFIX™ KIT 3 right or left: OVIKD003 or OVIKG003	
DESIGNATION	QUANTITY
<b>IMPLANTS</b>	
VISIOFIX KIT 3 RIGHT	1
or VISIOFIX KIT 3 LEFT	1
NON LOCKING SCREW L12 TORX	1
NON LOCKING SCREW L14 TORX	1
VISIOFIX SCREW L12 TORX	4
VISIOFIX SCREW L14 TORX	5
VISIOFIX SCREW L16 TORX	2
VISIOFIX SCREW L18 TORX	3
VISIOFIX SCREW L20 TORX	2
VISIOFIX SCREW L22 TORX	1
<b>INSTRUMENTATION</b>	
DRILL GUIDE WITH HANDLE	1
GRADUATED DRILL BIT	1
DEPTH GAUGE	1
TORX SCREWDRIVER T7	1
KIRSCHNER 1TROCAR Ø1.5 L150	1

VISIOFIX™ removal kit	
DESIGNATION	REF
TORX SCREWDRIVER T7	OVA010

## On demand

Additional screws are available, packaged individually and delivered sterile .

DESIGNATION	REF
NON LOCKING SCREW TORX, L12 to L28 (from 2 to 2)	OVINT2xx
VISIOFIX SCREW TORX, L12 to L28 (from 2 to 2)	OVIVT2xx

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**groupe lépine**

Depuis 1714