

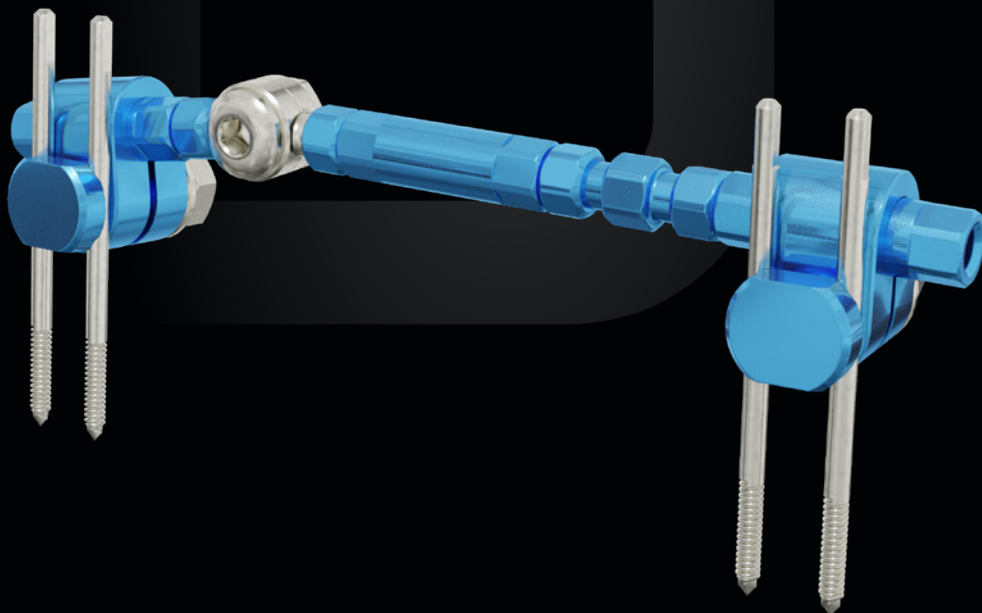
# MINISTYLO

SMALL FRAGMENT MODULAR EXTERNAL FIXATOR

Versatile

Modular

Sterile



# Indications

Open fractures, closed fracture, non-unions and malformations of metacarpals and phalanges.

## FEATURES

Universal clamp

Sterile disposable kit

Detachable components

## ADVANTAGES

Accepts screws and K-wires in the following range:  
Ø 1,0 mm and 2,0 mm

Ready for use

Highly modular

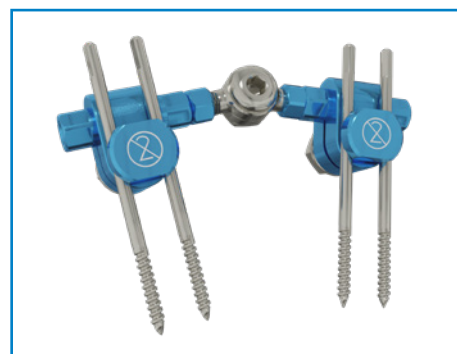
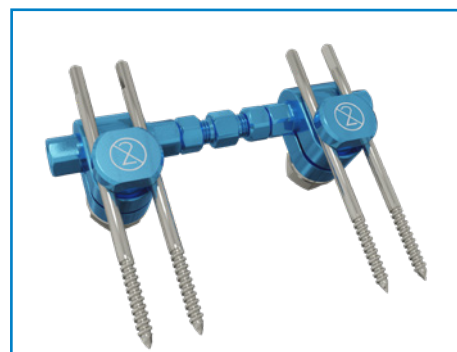
## Body of the Fixator

**Compression and distraction unit**

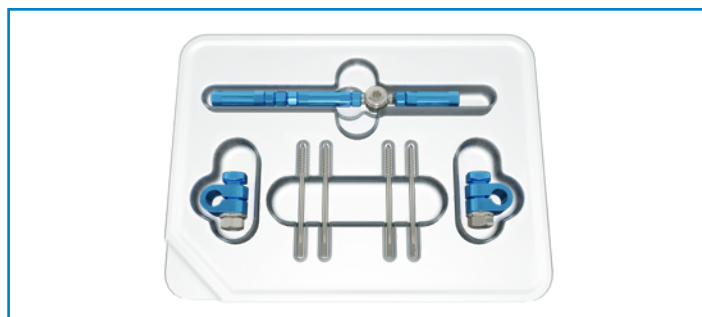
For micrometric axial correction

**Ball Joint Unit**

For flexion and extension movements



## Ministylo Kit



### Description

### Qty

Body of Fixator

1

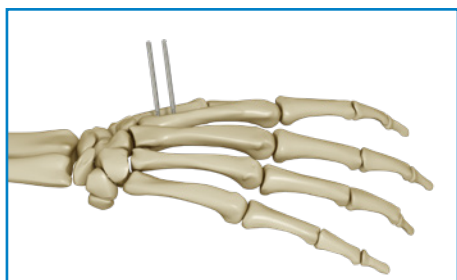
2,0 mm Ø – 40 mm L – 10 mm L thread screws

4

Clamp (double screw/K-wire)

2

# Surgical technique



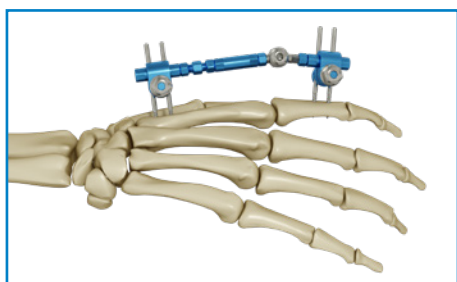
Perform a 1 cm incision in proximity of the metaphysis of the second metacarpal along the dorsal-radial margin, at approximately a 45° angle to the horizontal plane.

Using the drill guide (5002235), insert two 2 mm screws in the metacarpal. Use a power tool to go past the first cortex and then proceed by using the T-wrench.

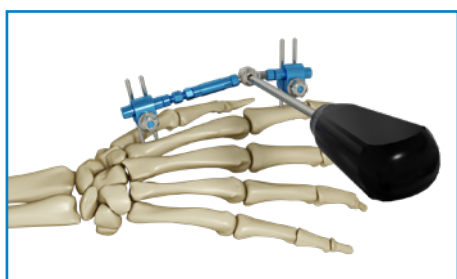


Use the external fixator as a unit of measure to determine the position of the second set of screws. Perform a 1 cm incision in the metaphysis of the distal phalanx. Insert two Ø 2.0 mm screws in the metacarpal at approximately a 45° angle to the horizontal plane.

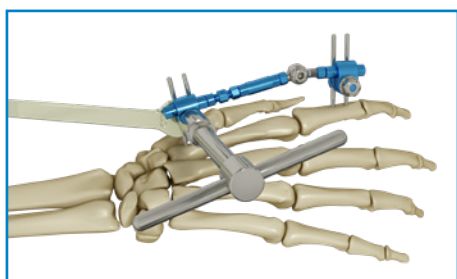
Use a power tool to go past the first cortex and then proceed by using the T-wrench.



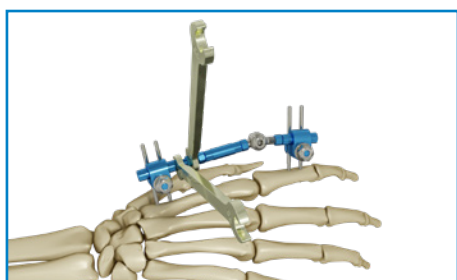
Insert the clamps in both sets of screws. Attach the body of the fixator to the two clamps making sure the ball joint unit is in proximity of the metacarpal-phalangeal joint (flexion 25°-35°).



Position the ball joint unit as described in the previous step and secure it by using the 3 mm hexagonal screwdriver.



Use the flat wrench to lock the nuts and tighten the clamps by using the T-wrench.



Once the reduction is completed, secure the locking nuts of the compression and distraction unit to allow the implant to become stable.

# Clinical Cases

## CASE 1

Dr. D. Canale, Dr. U. Scarlato - Ivrea (Turin) Hospital



54-year old male  
Crush injury to left hand  
Preoperative x-rays



Preoperative assessment



Fixation using external fixator  
Postoperative x-rays



Postoperative assessment



Assessment and x-ray check  
35 days prior to removal



X-ray on removal after 35 days

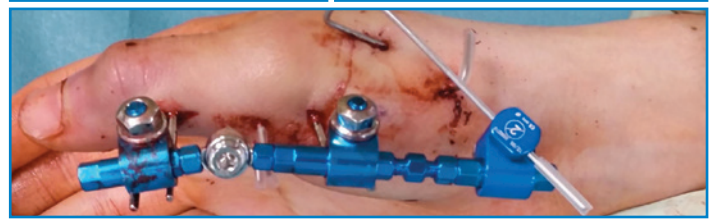
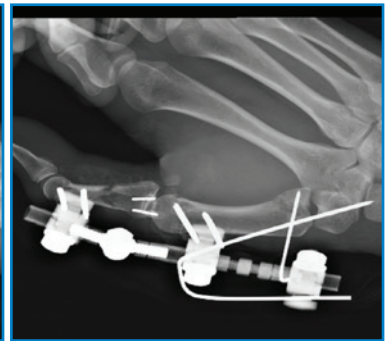
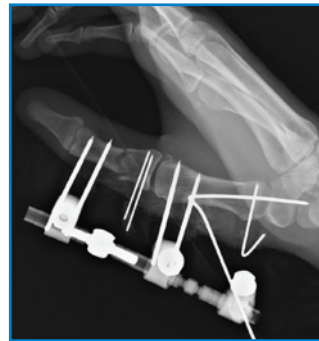


## CASE 2

Dr. D. Canale, Dr. U. Scarlato - Ivrea (Turin) Hospital



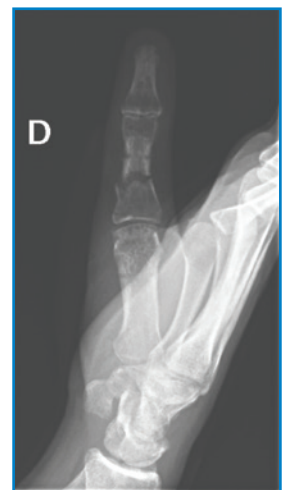
19-year-old sportswoman  
Skiing accident with trauma to 1st finger of right hand  
CLW right thumb p1 base fracture volar-ulnar region  
(open fracture)



Fixation using k-wires + external fixator  
Postoperative x-rays  
Postoperative assessment



X-ray check 40 days prior to removal



X-ray check on removal



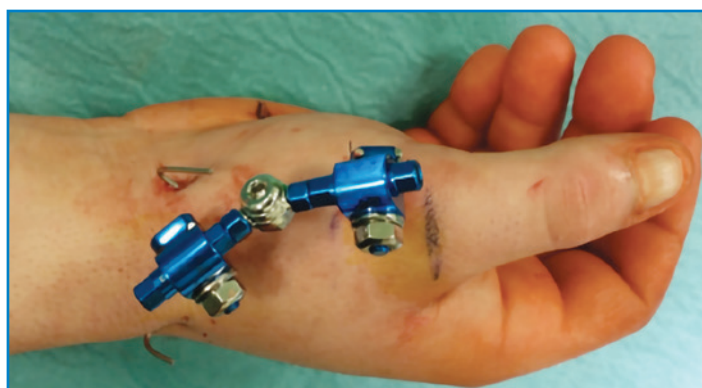
Assessment 30 days after removal

## CASE 3

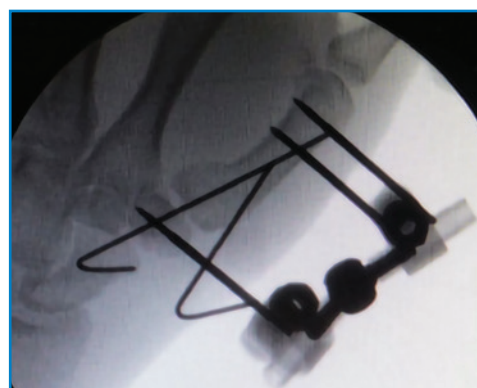
Dr. D. Canale, Dr. U. Scarlato - Ivrea (Turin) Hospital



24 years old male  
TDirect trauma 1<sup>st</sup> finger right hand  
Preoperative X-ray and preoperative CT scan



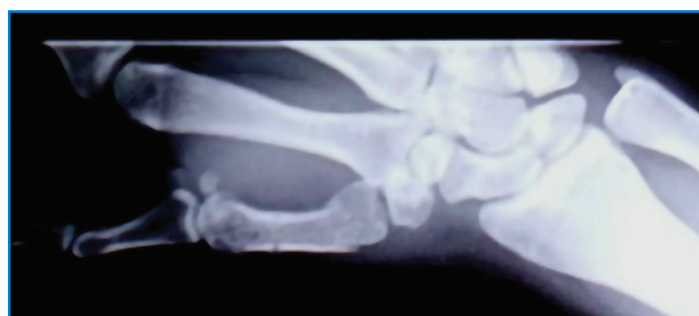
Fixation using K-wires and external fixator



Postoperative x-ray



X-ray check after 40 days and on removal



X-ray check on removal

# Codes

## 5002200MST MINISTYLO KIT

### ACCESSORIES

Code	Description
5002206ST	Sterile extension bar. 15 mm
5002210ST	Ministylo clamp (single)
5002210AST	Ministylo open-ended clamp
5002211ST	Ministylo T clamp (two screws/K-wires)
5002212ST	Ministylo/Smart dual monolateral clamp
5002421ST	Self drilling screw Ø 2.0 mm L 30 mm thread L 10 mm
5002422ST	Self drilling screw Ø 2.0 mm L 40 mm thread L 10 mm
5002423ST	Self drilling screw Ø 2.0 mm L 50 mm thread L 10 mm
5002424ST	Self drilling screw Ø 2.0 mm L 60 mm thread L 10 mm
5002431ST	Threaded wire Ø 1.5 mm L 100 mm thread L 4.0 mm

### INSTRUMENTS\*

Code	Description	Qty
5002299	Complete Ministylo instrument sterilization set	
Composition:		
5002220	5.5-8.0 mm flat wrench	2
5002225	Ø 8.0 mm T-wrench	1
5002230	Single Ø 2.0 mm drill guide	1
5002235	Double Ø 2.0 mm drill guide	1
5000124	Ø 3.0 mm hexagonal screwdriver	1
5000211	Cross rim wrench for screws	1
5002056	Screw extension adapter	1
5002290	Empty Ministylo instrument sterilization set	1

\* Implantable and sterile devices are covered by CE 1936 mark, non-sterile reusable instruments are CE marked

## Sterilization

The Ministylo kit is supplied sterile.

It is recommended that the instruments be sterilized in a saturated steam autoclave as follows:

**TEMPERATURE:** 134°

**EXPOSURE:** 5 minutes



#### **HEADQUARTERS**

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