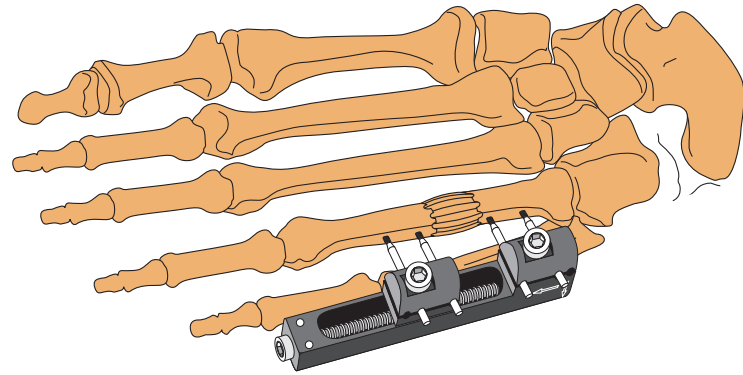


Surgical Technique



Finger External Fixation System



Finger External Fixation System

These devices are designed for temporary stabilization of the metacarpals and phalanges. The Finger Fixator aids in reduction and compression to help correct fragment alignment for various fractures and osteotomies. The Finger Distractor is used in conjunction with guide pins to maintain distraction forces during fracture healing.

Indications for Use:

The YDFIX Finger External Fixation System is a device used in conjunction with guide pins to achieve optimal fracture reduction and to help correct fragment alignment by maintaining distraction forces during fracture healing in the hand. It is not intended for use in the spine.

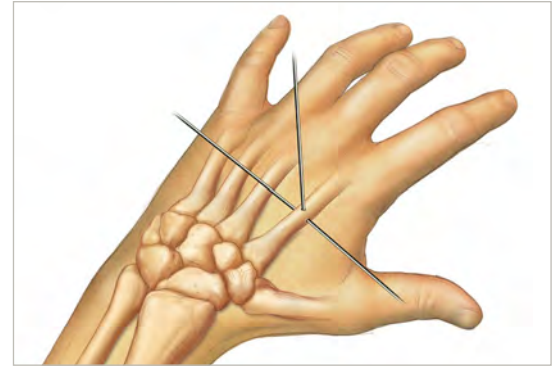
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Finger Fixator Surgical Technique

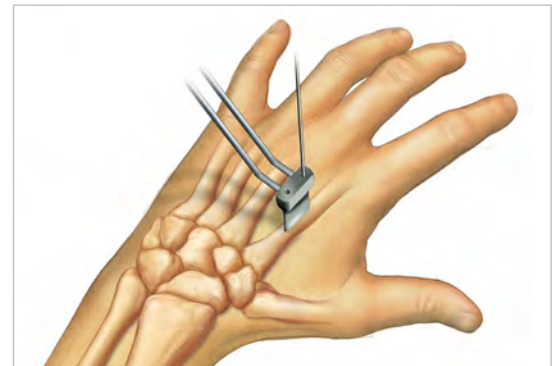
1 PRE-SURGICAL PLANNING

The versatility of the housing assemblies allows for the K-wire pairs to be placed in any plane between medial/dorsal/lateral. Both wire and rod clamps rotate to match wire placement.

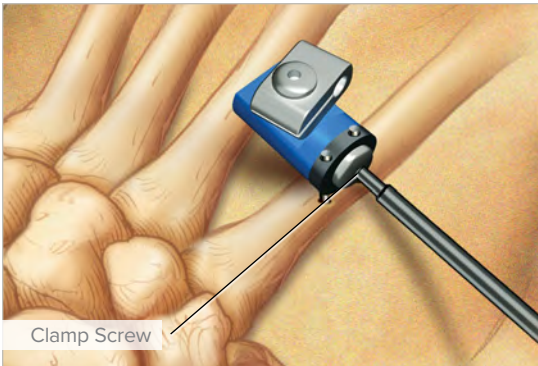


2 K-WIRE POSITIONING

Determine K-wire position by using the Pin Guide Assembly .035" (.89 mm) to .062" (1.57 mm) K-wires may be used for the Finger External Fixation System.

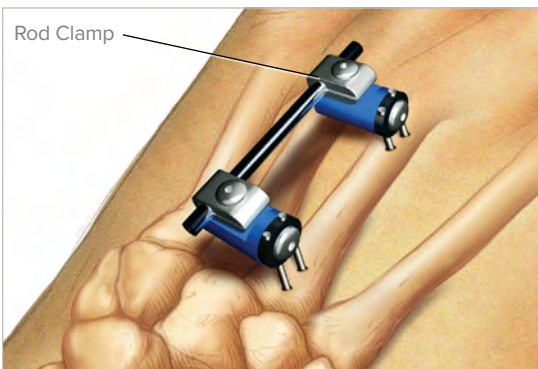


Part Number	Part Description
IMD-0101ST	.035" x 5.75" Single Trocar Guide Wire
IMD-0102ST	.045" x 6" Single Trocar Guide Wire
IMD-0103ST	.062" x 6" Single Trocar Guide Wire
Not Included in Set	
IMD-0104ST	1.5 mm x 4" Threaded Single Trocar Guide Wire



3 PREPARATION

The Finger Fixator Housing Assembly is secured onto the K-wires by inserting the holes of the Wire Clamp over the K-wires. Lightly tighten the Wire Clamp Screw to allow rotation of the blue assembly body. Repeat these steps as needed to add more housing assemblies.



4 CREATE THE FIXATION SCAFFOLD

Housing assemblies are connected with either the provided carbon rods or the threaded rods (60 mm or 90 mm Finger Fixator Shafts). Slide the selected rod through the loosened rod clamp.

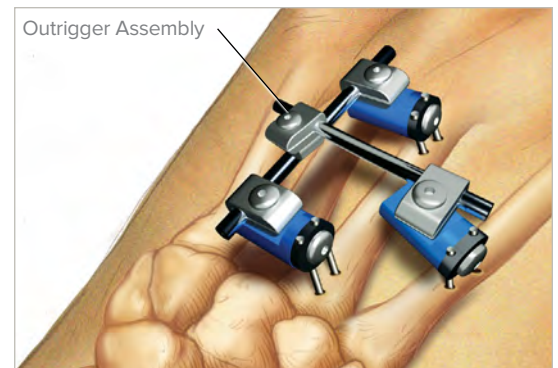
Note: For distraction or compression of the fracture, the Finger Fixator Knob can be utilized but only with the threaded rods.

Part Number	Part Description
IMD-5060	60 mm Finger Fixator Shaft (Carbon Fiber Rod)
IMD-5160	60 mm Finger Fixator Shaft (Threaded Rod)
IMD-5090	90 mm Finger Fixator Shaft (Carbon Fiber Rod)
IMD-5190	90 mm Finger Fixator Shaft (Threaded Rod)

5

SECURE FIXATOR

Reduce the fracture and tighten all Wire Clamp Screws and rod clamps to secure the fixator. Finally, cut all the K-wires to approximately 10 mm or less from the housings. If a third housing assembly is required for stability, it may be attached to the first rod using the Outrigger Assembly.



COMPRESSION OPTION

The Finger Fixator Knob is threaded outside of the housing onto the threaded rod. Lightly loosen the rod clamp and tighten the Finger Knob toward the housing to compress the fracture. Tighten the rod clamp.

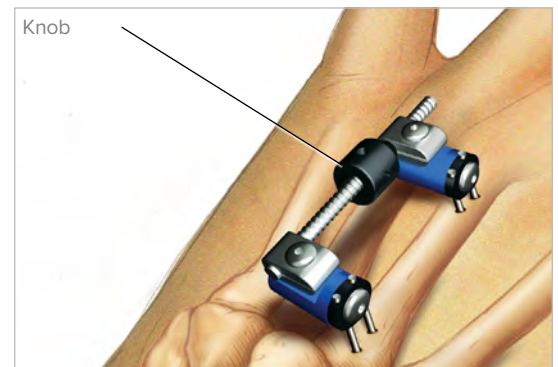
Note: Threaded rods must be used in conjunction with Finger Knob.



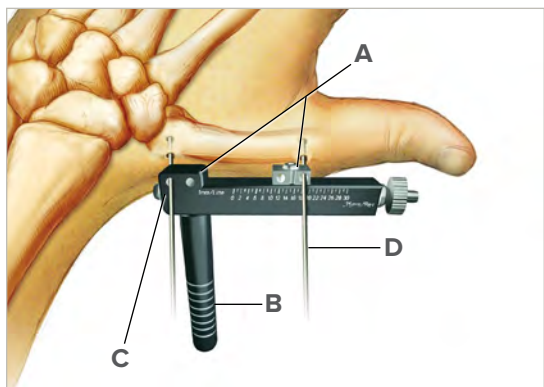
DISTRACTION OPTION

The Finger Knob is threaded inside of the housing onto the threaded rod. Lightly loosen the rod clamp and tighten the Finger Knob toward the housing away from the fracture for distraction.

Note: Threaded rods must be used in conjunction with Finger Knob.



Finger Distractor Surgical Technique



1 INSERT FIRST K-WIRES

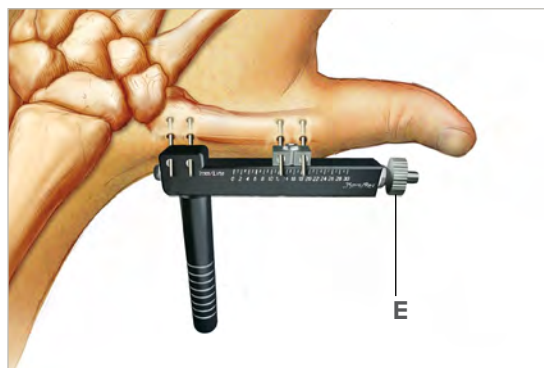
Loosen the clamp set screws (A). Using the Finger Bone Distractor Handle (B) to hold the FingerBone Distractor in place, insert a single K-wire through the proximal clamp (C), perpendicular to the bone. Lightly tighten the proximal clamp set screws after the wire has advanced through the far cortex. Maintaining a parallel relationship between the Finger Bone Distractor and the bone, insert a second K-wire through one of the holes in the distal clamp (D). Lightly tighten the distal clamp set screws after the wire has advanced through the far cortex.

Note: Cut K-wires to approximately 10 mm or less from the Finger Bone Distractor so they are out of the way for the subsequent K-wire insertion.



2 INSERT REMAINING K-WIRES

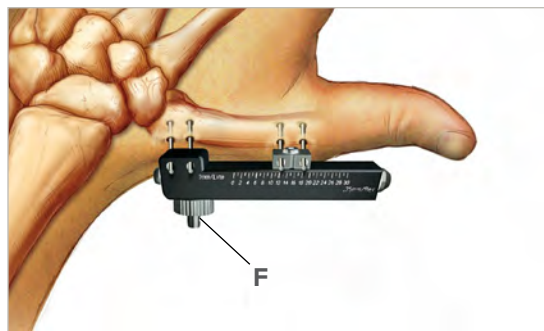
Loosen the proximal clamp set screws and insert the second K-wire until it advances through the far cortex. Tighten the clamp set screws and cut the wire to within 10 mm or less of the Finger Bone Distractor. Repeat this step for the second K-wire in the distal clamp.



3 ADJUST DISTRACTION WHEEL

Adjust the 2.4 mm Bone Distractor Hex (E) accordingly to achieve the desired length. Each complete revolution of the 2.4 mm Bone Distractor Hex (BD Hex) will cause 0.75 mm of travel for the distal wire clamp.

Note: Cut remaining K-wires to approximately 10 mm or less from the distractor.



4 FINAL PLACEMENT

The Finger Bone Distractor Handle is discarded. The BD Hex can then be threaded into this location for storage once the desired distraction/compression is achieved (F).

Ordering Information

Finger Bone fixator set

Finger Bone Fixator/Distractor Instrument Set	IMD-0000
Finger Bone Housing Assembly (Set contains four)	IMD-5100
Outrigger Assembly	IMD-5200
60 mm Finger Bone Fixator Shaft (Carbon Fiber Rod)	IMD-5060
60 mm Finger Bone Fixator Shaft (Threaded Rod)	IMD-5160
90 mm Finger Bone Fixator Shaft (Carbon Fiber Rod)	IMD-5090
90 mm Finger Bone Fixator Shaft (Threaded Rod)	IMD-5190
Finger Bone Fixator Knob	IMD-5015
Pin Guide Assembly	IMD-5080
3/32" Hex Key	HK-0024
Finger Bone External Fixation Tray	IMD-5061
.035" x 5.75" ST Guide Wire	IMD-0906ST
.045" x 6" ST Guide Wire	IMD-1106ST
.062" x 6" ST Guide Wire	IMD-1607ST

Finger Bone distractor

Finger Bone Distractor	YDFIX 101
Hex Wrench	5188490000
1.5 mm x 4" Threaded Single Trocar Guide Wire (Not included with set)	5202105902



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