Mini External Fixator.
Stabilize the phalanges and metacarpals.
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Mini External Fixator

**Holding Clamps**
- Two clamp sizes are laser-etched with one or two lines for easy identification.
- Allow sequential tensioning of Kirschner wires for reduced operative time.
- Slender design contributes to overall low-profile frame for improved patient comfort.

**3.0 mm/3.0 mm Connecting Clamp**
- Allows connection of 3.0 mm carbon fiber rods for the treatment of displaced intra-articular fractures.
- An additionally available 3.0 mm/4.0 mm connecting clamp allows bridging to Synthes Small External Fixator for treatment of complex hand and distal radius fractures.

**Threaded, trocar tip Kirschner wires in two sizes**
- Provide more stability and better hold in cortical bone.
- Eliminate need to predrill, for reduced operative time.
- 1.25 mm and 1.6 mm diameters optimize adaptation to fracture patterns and patient anatomy.
- Laser-etched with one or two lines for easy identification.

**Angled Connecting Bar**
- Allows lateral application of pins while maintaining a dorsal frame construct, as determined by the fracture pattern and surgeon preference.
Carbon Fiber Rods
- Lightweight for patient comfort
- Radiolucent for improved intra- and postoperative radiographic visualization
Indications

– Comminuted fractures of phalanges and metacarpals
– Displaced intra-articular fractures
– Segmental bone loss
– Open fractures that do not allow stable internal fixation
– Fractures with associated complex soft tissue injuries
– Tumor resections
1

Insert first K-wires

In each fragment, insert one threaded K-wire through the 1.25 mm/1.6 mm protection sleeve. The first two K-wires should be placed nearest to the fracture in each fragment.

2

Add clamps and rods

Connect the appropriate clamp to each K-wire through the open hole of the clamp:
- 1.25 mm K-wires—1.25 mm Holding Clamp
- 1.6 mm K-wires—1.6 mm Holding Clamp

Insert a 3.0 mm rod to connect the clamps.

Reposition the fracture. Lightly tighten both clamp-to-pin and clamp-to-rod nuts, to provide sufficient stability for radiography and final fracture reduction.
3

Insert remaining K-wires

Insert the two remaining K-wires, furthest from the fracture, using the remaining clamp holes as guides.

4

Secure all clamp nuts

<table>
<thead>
<tr>
<th>Instruments</th>
</tr>
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<tbody>
<tr>
<td>395.139  Clamp Holder</td>
</tr>
<tr>
<td>395.304  Socket Wrench, 5.5 mm</td>
</tr>
</tbody>
</table>

Using the clamp holder to avoid fracture displacement, retighten all nuts on both clamps. Cut the K-wires, if necessary.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>392.040</td>
<td>Hand Chuck, for K-wires</td>
<td><img src="image1.png" alt="Hand Chuck" /></td>
</tr>
<tr>
<td>395.139</td>
<td>Clamp Holder</td>
<td><img src="image2.png" alt="Clamp Holder" /></td>
</tr>
<tr>
<td>395.302</td>
<td>Combination Wrench, 5.5 mm width across flats</td>
<td><img src="image3.png" alt="Combination Wrench" /></td>
</tr>
<tr>
<td>395.304</td>
<td>Socket Wrench, 5.5 mm</td>
<td><img src="image4.png" alt="Socket Wrench" /></td>
</tr>
<tr>
<td>395.902</td>
<td>1.25 mm/1.6 mm Protection Sleeve</td>
<td><img src="image5.png" alt="Protection Sleeve" /></td>
</tr>
</tbody>
</table>
Mini External Fixator Instrument and Implant Set (115.985)

Graphic Case
304.564  Mini External Fixator Instrument and Implant Module

Instruments
392.040  Hand Chuck, for K-wires
395.139  Clamp Holder
395.302  Combination Wrench, 5.5 mm width across flats
395.304  Socket Wrench, 5.5 mm
395.902  1.25 mm/1.6 mm Protection Sleeve

Implants
292.600  1.25 mm K-wire with threaded tip, 100 mm, 1 pkg. (10/pkg.)
292.708  1.6 mm K-wire with threaded tip, 100 mm, 1 pkg. (10/pkg.)

Fixation Material
395.103  3.0 mm Angled Connecting Bar, 2 ea.
395.105  3.0 mm Carbon Fiber Rod, 25 mm, 2 ea.
395.107  3.0 mm Carbon Fiber Rod, 45 mm, 4 ea.
395.109  3.0 mm Carbon Fiber Rod, 60 mm, 4 ea.
395.111  3.0 mm Carbon Fiber Rod, 75 mm, 4 ea.
395.125  Holding Clamp, 1.25 mm, 6 ea.
395.126  Holding Clamp, 1.6 mm, 6 ea.
395.133  3.0 mm/3.0 mm Connecting Clamp, 4 ea.

Note: For additional information, please refer to package insert.
For detailed cleaning and sterilization instructions, please refer to http://us.synthes.com/Medical+Community/Cleaning+and+Sterilization.htm or to the below listed inserts, which will be included in the shipping container:
— Processing Synthes Reusable Medical Devices—Instruments, Instrument Trays and Graphic Cases—DJ1305
— Processing Non-sterile Synthes Implants—DJ1304
### Also Available

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>292.71</td>
<td>1.6 mm Kirschner Wire with Thread, 150 mm, trocar point (10/pkg.)</td>
</tr>
<tr>
<td>395.134</td>
<td>3.0 mm/4.0 mm Connecting Clamp</td>
</tr>
<tr>
<td>395.60–</td>
<td>4.0 mm Carbon Fiber Rods</td>
</tr>
<tr>
<td>395.67</td>
<td>60 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm, 180 mm, 200 mm</td>
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<tr>
<td>395.70–</td>
<td>4.0 mm Connecting Bars (stainless steel)</td>
</tr>
<tr>
<td>395.77</td>
<td>60 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm, 180 mm, 200 mm</td>
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