For the Reduction of Displaced Craniofacial Fractures

Threaded Reduction Tools and T-Handle

DePuy Synthes
PART OF THE JOHNSON & JOHNSON FAMILY OF COMPANIES
Threaded Reduction Tools and T-Handle

- 2.4 mm (self-drilling) and 3.5 mm (self-tapping) Threaded Reduction Tools

- Hex coupling allows easy insertion and removal of Threaded Reduction Tools

- Ergonomic T-Handle helps facilitate reduction
1

Select threaded reduction tool
Select preferred threaded reduction tool and secure into the T-handle.

2

Pre-drilling

For the 3.5 mm threaded reduction tools
Drill a hole into the bone fragment using a 2.4 mm drill bit.

Instruments

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.507.005</td>
<td>2.4 mm Drill Guide</td>
</tr>
<tr>
<td>310.572</td>
<td>2.4 mm Drill Bit, Stryker J-latch, 75 mm</td>
</tr>
</tbody>
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For the 2.4 mm threaded reduction tool
If predrilling is preferred, drill a hole into the bone fragment using a 1.8 mm drill bit.

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<tr>
<td>310.562</td>
<td>1.8 mm Drill Bit, Stryker J-latch, 75 mm</td>
</tr>
<tr>
<td>312.18</td>
<td>2.4 mm/1.8 mm Double Drill Sleeve</td>
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Precautions:
- Drill guides must be used to protect the soft tissue while drilling.
- Drill speed rate should never exceed 1,800 rpm, particularly in dense, hard bone.
- Higher drill speed rates can result in:
  - Thermal necrosis of the bone and soft tissue burns.
  - An oversized hole, which can lead to reduced pullout force.
- Always irrigate during drilling to avoid thermal damage to the bone.
- Take care while drilling to not damage, entrap, or tear a patient’s soft tissue or damage critical structures.
- Be sure to keep drill clear of loose surgical materials.
- Handle devices with care and dispose of worn bone cutting instruments in an approved sharps container.
3

Insert threaded reduction tool and reduce fracture

Insert the threaded reduction tool into the bone fragment.

Manipulate the fragment into proper anatomic reduction.

Precaution: While manipulating the fragment, avoid excessive bending force on the instrument, as this may cause the tip of the threaded reduction tool to break. If this occurs, the tip must be explanted using a burr to remove the bone surrounding the tip.
Threaded reduction tools are sized to suit a variety of surgical needs:

03.507.000  T-Handle, hex coupling, small
- The ergonomic T-Handle facilitates manipulation of bone fragments
- Hex coupling allows easy insertion and removal of the threaded reduction tools

03.507.002S  2.4 mm Threaded Reduction Tool, self-drilling, 78 mm, hex coupling
- Sterile packed, for single use only
- Color-coded to indicate the corresponding drill bit size

03.507.003  3.5 mm Threaded Reduction Tool, self-tapping, 78 mm, hex coupling
- Nonsterile
- Color-coded to indicate the corresponding drill bit size

03.507.004  3.5 mm Threaded Reduction Tool, self-tapping, 43 mm, hex coupling
- Nonsterile
- Color-coded to indicate the corresponding drill bit size

03.507.005  2.4 mm Drill Guide
Note: The following sets include a selection of these instruments.
- MatrixMIDFACE Plating System Set (01.503.504), in Instrument Tray (306.626)
- MatrixCOMBO Plating Sets (01.503.400 and 01.503.401), in Instrument Tray (60.511.102)

Please refer to the relevant brochure for further information.

**Instrument Tray for CMFS System**

690.625 Basic Craniofacial Insert Tray

**Instruments**

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<td>03.507.002S</td>
<td>2.4 mm Threaded Reduction Tool, self-drilling, 78 mm, hex coupling, sterile</td>
</tr>
<tr>
<td>03.507.003</td>
<td>3.5 mm Threaded Reduction Tool, self-tapping, 78 mm, hex coupling</td>
</tr>
<tr>
<td>03.507.004</td>
<td>3.5 mm Threaded Reduction Tool, self-tapping, 43 mm, hex coupling</td>
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**Also Available**

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**Notes:**

The metal bracket for the T-Handle ships with the Basic Craniofacial Insert Tray and must be secured before use.

The silicone brackets for holding the 3.5 mm Threaded Reduction Tools ship with the Basic Craniofacial Insert Tray and must be exchanged with the installed brackets before use.

The silicone brackets also hold the 2.4 mm Drill Bit and four additional drill bits.

The drill guides may be placed in the auxiliary bin.

For detailed cleaning and sterilization instructions, please refer to [www.synthes.com/cleaning-sterilization](http://www.synthes.com/cleaning-sterilization) or sterilization instructions, if provided.
Limited Warranty and Disclaimer: DePuy Synthes products are sold with a limited warranty to the original purchaser against defects in workmanship and materials. Any other express or implied warranties, including warranties of merchantability or fitness, are hereby disclaimed.

Please also refer to the package insert(s) or other labeling associated with the devices identified in this surgical technique for additional information.

CAUTION: Federal Law restricts these devices to sale by or on the order of a physician.

Some devices listed in this surgical technique may not have been licensed in accordance with Canadian law and may not be for sale in Canada. Please contact your sales consultant for items approved for sale in Canada.

Not all products may currently be available in all markets.

DePuy Synthes

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Synthes USA, LLC
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Monument, CO 80132

To order (USA): 800-523-0322
To order (Canada): 855-946-8999

Note: For recognized manufacturer, refer to the product label.

www.depuysynthes.com

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