Open Compressor and Additional Distraction Instruments. For intraoperative and gradual distraction and compression.
Open Compressor

The open compressor is an intraoperative instrument that aids in distraction for reduction or applies uniform compression for osteotomy, arthrodesis, and nonunion frames. It works with the following Synthes clamps: the adjustable clamp, large and medium open adjustable clamps, large and medium combination clamps with dynamization clips, large and medium multi-pin clamps, universal clamp, universal joint for two tubes, and all small external fixator clamps.

Open compressors are available in three sizes to provide consistent distraction/compression technique across all Synthes external fixation systems.

Open Compressor, for Large External Fixator (393.76): used on 11 mm carbon fiber rod (figure 1).

Medium Open Compressor (03.302.001): used on 8 mm and 6 mm carbon fiber rods (figures 2 and 3).

Open Compressor, for Small External Fixator (395.51): used on 4 mm carbon fiber rod (figure 4).
Technique

1  
**Place open compressor on rod**

Place the open compressor on the rod with the compression plate in contact with the clamp. For distraction, the compressor is placed between the clamps (see figure 5); for compression, it is placed at the end of the rod (see figure 6). For maximum distraction, the compression plate should be fully closed.

Tighten the rod clamp nut.

2  
**Loosen nut**

Loosen the nut on the rod side of the clamp; the nut on the pin side of the clamp should remain tight.

If using a combination clamp, a dynamization clip must be inserted into the rod side of the clamp and the nut tightened prior to compression/distraction (see figure 1 on previous page).

3  
**Turn compression screw**

Turn the compression screw on the open compressor, advancing the compression plate.

4  
**Retighten nut**

When sufficient distraction or compression is obtained, retighten the nut on the clamp. Loosen the rod clamp nut on the open compressor and remove it from the rod.

**Note:** If full travel of the open compressor is achieved and further distraction is desired, reposition the open compressor and repeat steps.
Additional Open Compressor Uses

Arthrodesis

Distal Radius Fixator
Traveling Traction

Midshaft with Multi-Pin Clamps
### Additional Distraction Instruments

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>394.35</td>
<td>Large Distractor</td>
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<tr>
<td>395.49</td>
<td>Medium Distractor</td>
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<tr>
<td></td>
<td>- Versatile intraoperative reduction aid</td>
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<tr>
<td></td>
<td>- Large distractor for 5 mm–6 mm Schanz screws</td>
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<tr>
<td></td>
<td>- Medium distractor for 4 mm–5 mm Schanz screws</td>
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<thead>
<tr>
<th>Code</th>
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<tr>
<td>394.075</td>
<td>Distractor, for Distal Radius Fixator</td>
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<td>- For use with 8 mm rods</td>
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*Synthes* Open Compressor and Additional Distraction Instruments
394.06  Small Distractor
  - Uses two 2.5 mm Kirschner wires in each segment
  - Up to 40 mm total distraction

394.071  Mini Lengthening Apparatus, 110 mm
394.08  Mini Lengthening Apparatus, 160 mm
  - Uses two 2.0 mm–2.5 mm Kirschner wires in each segment
  - Up to 60 mm total distraction