MINIMALLY INVASIVE SYSTEM
FOR TOTAL HIP ARTHROPLASTY
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INTRODUCTION

The DePuy MI System was created by an International team of surgeons whose first priority was to achieve patient gain through minimally invasive surgery using established surgical techniques. Their collaboration with DePuy Synthes’ engineers and scientists constitutes the essence of an accomplished and complete minimally invasive system where all aspects of THR are considered. Besides specially designed instrumentation, our complete system includes a very comprehensive and individualised educational programme as well as a unique portfolio of successful and established implants.

The focus of the DePuy MI System is to make orthopaedic surgery a less traumatic experience and we strongly believe that we are uniquely positioned for such a mission.

The DePuy MI System is designed to accommodate any DePuy Synthes cementless acetabular and femoral implants. In this surgical technique, DURALOC® cups and CORAIL® stems are used as an example.

If you are using other DePuy Synthes implants, please also refer to the appropriate surgical technique.
ACETABULAR REAMING

Acetabular reaming

Position the reamer handle as shown in (figure 1).

Follow the instructions for reaming described in the acetabular implant surgical technique.
Either the standard or bantam threaded connector is selected (depending on the cup to be implanted). The rotation locking catch is disengaged and the release button is inserted into the acetabular inserter body.

The shaft assembly is inserted into the acetabular inserter body, holding down the release button to allow the shaft to fully engage into the body.

The selected threaded connector is inserted into the acetabular inserter body and the hex socket is engaged into the shaft. Releasing the button will lock the acetabular inserter in position. Rotating the shaft handle should now rotate the threaded connector (Figure 2).
ACETABULAR CUP
TRIAL AND POSITION

Follow the trial liner instructions described in the acetabular implant surgical technique.

The cup trial is screwed onto the threaded connector of the acetabular inserter until locked. The trial cup should not be over tightened.

The alignment guide is attached to the acetabular inserter, and the trial is introduced to the acetabulum. Appropriate trial cup orientation can be verified with external alignment guides in addition to bony landmarks. With the patient in the lateral decubitus position and the version guide parallel to the floor the cup will be at 45 degrees. (Figure 3).
When the extended rod of the version guide, corresponding the affected hip, follows the long axis of the patient’s body, the trial cup is in 30 degrees of antversion (Figure 4).

The external alignment guide will not be accurate if the pelvis is tilted or if the patient has rolled forward or backward. The transverse ligament is used as a natural landmark to further verify the alignment.
The locking catch is placed in the unlocked position and the handle rotated counter clockwise to release the threaded connector from the trial. The inserter is then removed. (Figure 5).

Follow the trial liner instructions to perform a trial reduction as described in the acetabular implant surgical technique.
**ACETABULAR CUP TRIAL REMOVAL & CUP IMPLANTATION**

**Acetabular cup trial removal**

Once the trial liner has been removed the inserter handle is rotated to secure the threaded connector into the trial. The inserter handle is pulled back to extract the trial (Figure 6).

**Acetabular cup implantation**

Securely thread the acetabular cup prosthesis onto the threaded connector.

Rotate the cup with the alignment handle to position any sector holes. Engage the locking catch when the correct alignment is achieved. Introduce the cup into the acetabulum, using the external alignment guide as before. With correct cup positioning achieved, impact the cup in place (Figure 7).
Polyethylene liner insertion

To insert the implant liner into the acetabular shell follow instructions described in the implant surgical technique.

The release button (see figure 2) should be depressed on insertion of the impactor tip. Use the liner inserter head size that matches the liner.

Figure 8
## ORDERING INFORMATION

### DePuy MI System Core Set Instruments

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>9200-10-023</td>
<td>Bantam Connector Shaft</td>
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<td>9200-10-024</td>
<td>Impactor Tip 22.225 mm</td>
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<tr>
<td>9200-10-025</td>
<td>Impactor Tip 26 mm</td>
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<tr>
<td>9200-10-026</td>
<td>Impactor Tip 28 mm</td>
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<td>9200-10-027</td>
<td>Impactor Tip 32 mm</td>
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<tr>
<td>9200-10-028</td>
<td>Impactor Tip 36 mm</td>
</tr>
<tr>
<td>9200-10-029</td>
<td>Angled Acetabular Inserter</td>
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<tr>
<td>9200-10-031</td>
<td>Angled Reamer Driver</td>
</tr>
<tr>
<td>2217-50-044</td>
<td>Version Guide</td>
</tr>
<tr>
<td>9200-10-017</td>
<td>Primary Acetabular Case Complete</td>
</tr>
</tbody>
</table>
DePuy MI System Additional Instruments

2440-00-536  QUICKSET™ Grater Head 36
2440-00-537  QUICKSET Grater Head 37
2440-00-538  QUICKSET Grater Head 38
2440-00-539  QUICKSET Grater Head 39
2440-00-540  QUICKSET Grater Head 40
2440-00-541  QUICKSET Grater Head 41
2440-00-542  QUICKSET Grater Head 42
2440-00-543  QUICKSET Grater Head 43
2440-00-544  QUICKSET Grater Head 44
2440-00-545  QUICKSET Grater Head 45
2440-00-546  QUICKSET Grater Head 46
2440-00-547  QUICKSET Grater Head 47
2440-00-548  QUICKSET Grater Head 48
2440-00-549  QUICKSET Grater Head 49
2440-00-550  QUICKSET Grater Head 50
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2440-00-564  QUICKSET Grater Head 64
2440-00-565  QUICKSET Grater Head 65
2440-00-566  QUICKSET Grater Head 66
2440-00-567  QUICKSET Grater Head 67
2440-00-568  QUICKSET Grater Head 68
2440-00-501  Grater Case Complete
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DePuy Synthes

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