Hip Exposure & Positioning

INSTRUMENTS

INSTRUMENTS FOR ORTHOPEDIC SURGERY

Charnley/Sorrells Low-Profile Hip Arthroplasty Retractor System

1.800.548.2362
WWW.INNOMED.NET


plus a new instrument section for knee, trauma, shoulder, small bone, and spine
Modular Weights
Weights can be used to help hold the retractors in place.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Weight</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3430-01</td>
<td>1.5 lbs. (.68 kg)</td>
<td></td>
</tr>
<tr>
<td>3430-02</td>
<td>2.0 lbs. (.91 kg)</td>
<td></td>
</tr>
<tr>
<td>3430-03</td>
<td>2.5 lbs. (1.13 kg) with attaching hook</td>
<td></td>
</tr>
</tbody>
</table>

Extra Leverage Femoral Neck Elevators

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>7650</td>
<td>[Standard] Overall Length: 18.25&quot; Handle Length: 9.25&quot; Blade Width: 38mm</td>
</tr>
<tr>
<td>7650-02</td>
<td>[Short Handle] Overall Length: 15.25&quot; Handle Length: 6.25&quot; Blade Width: 38mm</td>
</tr>
</tbody>
</table>

Infero-posterior Acetabular Capsule retractors

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>7620-01</td>
<td>[Right] Overall Length: 12&quot; Handle-to-Bend Length: 6&quot;</td>
</tr>
<tr>
<td>7620-02</td>
<td>[Left] Overall Length: 12&quot; Handle-to-Bend Length: 6&quot;</td>
</tr>
</tbody>
</table>

Extra Leverage Proximal Femoral Elevator

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>7640</td>
<td>Overall Length: 17.5&quot; Handle Length: 13&quot; Blade Width at Widest: 63mm</td>
</tr>
</tbody>
</table>

Large Cobra Retractors

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>7630-01</td>
<td>[Standard] Overall Length: 17.5&quot; Handle Length: 14&quot;</td>
</tr>
<tr>
<td>7630-02</td>
<td>[Wide] Overall Length: 17.5&quot; Handle Length: 14&quot;</td>
</tr>
</tbody>
</table>

Large Soft Tissue Retractors

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>7670-01</td>
<td>Blade Depth: 3&quot; Blade Width: 50mm Handle-to-Bend Length: 10.5&quot;</td>
</tr>
<tr>
<td>7670-02</td>
<td>Blade Depth: 3.5&quot; Blade Width: 50mm Handle-to-Bend Length: 10.5&quot;</td>
</tr>
<tr>
<td>7670-03</td>
<td>Blade Depth: 4&quot; Blade Width: 50mm Handle-to-Bend Length: 10.5&quot;</td>
</tr>
</tbody>
</table>
Goytia Stackable Hohmann Retractors

Interlocking design helps to increase depth and leverage in hip exposure, particularly of the anterior acetabulum—especially useful with large patients.

- Custom fitted holes for interlocking retractors helps provide stability
- When “stacked”, the increased lever arm of the retractor helps reduce fatigue
- Ideal for use with large patients where extra depth, leverage and force is needed

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Overall Length</th>
<th>Blade Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>4551</td>
<td>Standard</td>
<td>9.25&quot;</td>
<td>19.5mm</td>
</tr>
<tr>
<td>4552</td>
<td>Bent</td>
<td>8.25&quot;</td>
<td>19.5mm</td>
</tr>
<tr>
<td>4553</td>
<td>Wide</td>
<td>9.25&quot;</td>
<td>43mm</td>
</tr>
</tbody>
</table>

McPherson Retractor Extender

Designed to extend a standard retractor

Fits most retractors, providing additional retraction leverage.

**PRODUCT NO:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>6022</td>
<td>15.625&quot;</td>
</tr>
</tbody>
</table>
Bozeman Anterior THA Femoral Elevator  
Designed by Daniel M. Gannon, MD
Designed to elevate the femur anteriorly, providing exposure to allow broaching of the femoral canal and final placement of the femoral component, during direct anterior approach THA
Helps to retract the TFL muscle out of the way, and provides surface area for the fulcrum effect, helping to reduce pressure on the muscle. Narrow designs helpful in minimally invasive surgery.
The flared end joins the prongs to help maintain soft tissue retraction away from the broach teeth, while the two prong design helps placement lateral to the tip of the greater trochanter and elevates the femur.

| PRODUCT NO: 6144 (Small) | Overall Length: 11.5”  
| Blade Neck Width: 26.1mm  
| Blade Flared End Width: 30.1mm |
| PRODUCT NO: 6146 (Medium) | Overall Length: 13.5”  
| New Size!  
| Blade Neck Width: 29.8mm  
| Blade Flared End Width: 34.7mm |
| PRODUCT NO: 6145 (Large) | Overall Length: 15.5”  
| Blade Neck Width: 33.6mm  
| Blade Flared End Width: 39.3mm |

O’Reilly Direct Access Anterior Broaching Retractor  
Designed by Michael P. O’Reilly, MD
Designed for use in obtaining improved proximal exposure for femoral canal preparation during minimally invasive direct anterior THA

| PRODUCT NO: 4698-L (Left) | Overall Length: 9.5”  
| Blade Width: 57mm |
| PRODUCT NO: 4698-R (Right) | Overall Length: 9.5”  
| Blade Width: 57mm |

Lateral flange protects the muscle of tensor fascia lata and soft tissues during insertion and removal of femoral broaching instruments
Narrow tip for deep placement posterior to the femoral neck, anterior to the greater trochanter
Rotation of the retractor handle helps keep the instrument against the patient and out of the surgeon’s line of sight

Made in the USA
Proudly Made in the USA

Three Sizes Available
Surgical technique available upon request.

Das/Seng Anterior Total Hip Instruments

Exposure of the hip joint & removal of the femoral head
Acetabular exposure, reaming and cup insertion
Table Assembly/Elevator Hook for femoral access
Femoral broaching and stem insertion

Retractor set with included table-mounted controlled-release ratcheting elevator hook, specifically designed to help simplify anterior approach total hip arthroplasty

1. Posterior Femoral Neck Retractor
2. Anterior Femoral Neck Retractor
3. Anterior Acetabular Retractor
4. Posterior Acetabular Retractor
5. Femoral Calcar Retractor
6. Greater Trochanter Retractor
7. Elevator Hook
8. Table Assembly

PRODUCT NO’S:

6221  [#1 - Posterior Femoral Neck Retractor]
   Blade Width: 25mm
   Blade Depth: 3”
   Overall Length: 14”

6222  [#2 - Anterior Femoral Neck Retractor]
   Blade Width: 33.5mm, 10mm @ Tip
   Blade Depth: 4.5”
   Overall Length: 15”

6223  [#3 - Anterior Acetabular Retractor]
   Blade Width: 25mm
   Blade Depth: 2.25”
   Overall Length: 13.25”

6224  [#4 - Posterior Acetabular Retractor]
   Blade Width: 25mm
   Blade Depth: 2.75”
   Overall Length: 14”

6226-RH  [#5A - Round Elevator Hook]
   Blade Width: 10mm
   Blade Depth from T-Handle: 5.75”
   Overall Length: 9.25”

6227  [#6 - Femoral Calcar Retractor]
   Blade Width: 25mm
   Blade Depth: 3.625”
   Overall Length: 14”

6225  [#7 - Greater Trochanter Retractor]
   Blade Width: 25mm
   Blade Depth: 2.5”
   Overall Length: 14.25”

6226-TA  [#8 - Table Assembly]
   This product number includes one 6226-RH Elevator Hook
   Folds to approx: 21” x 5” x 5”

Optional Instruments:

6226-EH  [#5 - Flat Elevator Hook]
   Blade Width: 10mm
   Blade Depth from T-Handle: 5.75”
   Overall Length: 9.25”

MADE IN THE USA
PROUDLY

HIP EXPOSURE & POSITIONING INSTRUMENTS  |  1.800.548.2362  |  FREE TRIAL ON MOST INSTRUMENTS
Universal instrument system specifically designed for Direct Anterior approach THR

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Instrument Name</th>
<th>Blade Width</th>
<th>Blade Depth</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>3001</td>
<td>Wide Hohmann—Single Prong</td>
<td>44mm</td>
<td>5&quot;</td>
<td>13.5&quot;</td>
</tr>
<tr>
<td>3008</td>
<td>Wide Hohmann—Double Prong</td>
<td>34mm</td>
<td>5&quot;</td>
<td>13.5&quot;</td>
</tr>
<tr>
<td>3002</td>
<td>Narrow Hohmann</td>
<td>34mm</td>
<td>4&quot;</td>
<td>13&quot;</td>
</tr>
<tr>
<td>3003</td>
<td>Narrow Cobra</td>
<td>34mm</td>
<td>5.25&quot;</td>
<td>14.5&quot;</td>
</tr>
<tr>
<td>3004</td>
<td>Canal Finder Rasp—Straight &amp; Curved</td>
<td>34mm</td>
<td>12mm</td>
<td>11&quot;</td>
</tr>
<tr>
<td>3005-R</td>
<td>Box Osteotome—Right</td>
<td>34mm</td>
<td>4&quot;</td>
<td>13&quot;</td>
</tr>
<tr>
<td>3005-L</td>
<td>Box Osteotome—Left</td>
<td>34mm</td>
<td>4&quot;</td>
<td>13&quot;</td>
</tr>
<tr>
<td>3006</td>
<td>Femoral Neck Elevator</td>
<td>25mm</td>
<td>5.25&quot;</td>
<td>13&quot;</td>
</tr>
<tr>
<td>3007</td>
<td>Soft Tissue Protector</td>
<td>50mm</td>
<td>1.75&quot;</td>
<td>10.125&quot;</td>
</tr>
<tr>
<td>3009-R</td>
<td>Offset Narrow Hohmann—Right</td>
<td>34mm</td>
<td>4&quot;</td>
<td>13&quot;</td>
</tr>
<tr>
<td>3009-L</td>
<td>Offset Narrow Hohmann—Left</td>
<td>34mm</td>
<td>4&quot;</td>
<td>13&quot;</td>
</tr>
</tbody>
</table>
**Femoral Head and Acetabular Exposure**

**Unger Wide Hohmann**
Placed around the femoral neck to expose the anterior hip capsule.

**Unger Narrow Hohmann**
A curved sharp hohmann retractor placed under the posterior acetabulum to depress the femur and expose the acetabulum.

**Unger Blunt Narrow Cobra**
A ventral cobra retractor placed over the anterior acetabulum wall to pull the Rectus Femoris anteriorly.

---

**Femoral Neck Exposure**

**Unger Wide Hohmann**
Placed medial to the femoral neck to push the femur laterally, helping to expose the femur for implant broaching and insertion.

**Unger Femoral Neck Elevator**
A femur elevator designed to interact with the Unger Anterior Fulcrum to expose the femur. Placed behind the Greater Trochanter.

**Unger Soft Tissue Protector**
A unique device that protects the Tensor Fascia Lata and allows the femoral elevator to lever/push up the femur for femoral component broaching and placement.
Wertz Anterior THA
Femoral Elevator
Designed by Michael F. Wertz, MD

Helps deliver the femur out of the incision
during anterior total hip arthroplasty

Inserted into the femoral canal for elevation, the knurled
underside helps to reduce the chance of slippage.

---

Offset Handle Hip Retractor
Designed by Gina Bart, PAC

The 90° offset handle helps move the assistant’s
hand out of the way, allowing better access to
the surgical site

During posterior THR, the instrument allows for one
assistant to hold the leg while retracting the abductors,
thereby maximizing both a clearer view and better
physical access to the surgical site.

---

APC Hip Retractor Series
Designed by APC, Inc.

Used to help provide wide exposure
of the acetabulum
**Bone Hooks**

Designed for proximal femoral elevation in total hip replacement or in other surgery with a similar need for bone manipulation. The instrument has a blunt tip and a large handle to accommodate the use of two hands if desired.

Designed by R.L. Wixson, MD

**Lombardi Bone Hooks**

Designed by Adolph V. Lombardi, MD

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Curve Diameter</th>
<th>Overall Length</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5910</td>
<td>Small</td>
<td>25mm</td>
<td>12.75&quot;</td>
<td>4.75&quot;</td>
</tr>
<tr>
<td>5915</td>
<td>Medium</td>
<td>35mm</td>
<td>12.75&quot;</td>
<td>4.75&quot;</td>
</tr>
<tr>
<td>5920</td>
<td>Large</td>
<td>50mm</td>
<td>12.75&quot;</td>
<td>4.75&quot;</td>
</tr>
<tr>
<td>5920-01</td>
<td>Large w/ Cable/Wire Hole</td>
<td>50mm</td>
<td>12.75&quot;</td>
<td>4.75&quot;</td>
</tr>
</tbody>
</table>

Designed by R.L. Wixson, MD & J. McCarthy, MD

Cable/Wire Hole Diameter: 2mm

Curve Diameter: 50mm

Overall Length: 12.75"

Handle Length: 4.75"
Help provide better access to the intramedullary canal

Designed to elevate the proximal femur during total hip surgery while providing better access to the intramedullary canal. The handles are contoured to allow the surgeon a clear field of view of the operating area.

### Standard Prongs

**PRODUCT NO:**

3420-01
- Overall Length: 11.5"
- Handle Length: 6.5"
- Blade Width at Widest: 63mm

### Short Prongs

**PRODUCT NO:**

3420-02
- Overall Length: 10.75"
- Handle Length: 6.5"
- Blade Width at Widest: 63mm

### Narrow with Standard Prongs

**PRODUCT NO:**

3420-05
- Overall Length: 11.5"
- Handle Length: 6.5"
- Blade Width at Widest: 45mm

### Narrow with Narrow Prongs

**PRODUCT NO:**

3420-08
- Overall Length: 11.75"
- Handle Length: 6.5"
- Blade Width at Widest: 45mm

### Extra Leverage

**PRODUCT NO:**

7640
- Overall Length: 17.5"
- Handle Length: 13"
- Blade Width at Widest: 63mm

---

**Modular Weights**

Weights can be used to help hold the retractors in place.

**PRODUCT NO’S:**

- 3430-01 1.5 lbs. (.68 kg)
- 3430-02 2.0 lbs. (.91 kg)
- 3430-03 2.5 lbs. (1.13 kg) with attaching hook

---

**INNOMED**

WWW.INNOMED.NET  |  1.800.548.2362  | SEPTEMBER 2013
Amstutz Femoral Head-Neck Elevator

Designed by Harlan C. Amstutz, MD

Designed to elevate the proximal femur

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
<th>Overall Length</th>
<th>Blade Width at Widest</th>
</tr>
</thead>
<tbody>
<tr>
<td>3410-00</td>
<td>[Wide]</td>
<td>12.25”</td>
<td>67mm</td>
</tr>
<tr>
<td>3410-01</td>
<td>[Narrow]</td>
<td>12.25”</td>
<td>50mm</td>
</tr>
</tbody>
</table>

APC Proximal Femoral Elevator

Designed by APC, Inc.

Elevates the proximal femur during total hip or hemi-arthroplasty surgery

Designed to elevate the proximal femur during total hip or hemi-arthroplasty surgery. Its unique design provides excellent access to the intramedullary canal. The elevator's geometry incorporates serrated edges to grip and elevate the proximal femur.

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
<th>Overall Length</th>
<th>Blade Width at Widest</th>
</tr>
</thead>
<tbody>
<tr>
<td>3421-00</td>
<td>[Standard]</td>
<td>10.75”</td>
<td>63mm</td>
</tr>
<tr>
<td>3421-01</td>
<td>[Small]</td>
<td>10.75”</td>
<td>50mm</td>
</tr>
</tbody>
</table>

Mueller-type Femoral Neck Elevator

Designed by S. David Stulberg, MD

Designed to elevate the proximal femur

PRODUCT NO:

<table>
<thead>
<tr>
<th>Product No</th>
<th>Overall Length</th>
<th>Handle Length</th>
<th>Blade Width at Widest</th>
</tr>
</thead>
<tbody>
<tr>
<td>3415</td>
<td>13.5”</td>
<td>6.5”</td>
<td>25mm</td>
</tr>
</tbody>
</table>

Unger Femoral Neck Elevator

Designed by S. David Stulberg, MD

PRODUCT NO:

<table>
<thead>
<tr>
<th>Product No</th>
<th>Overall Length</th>
<th>Handle Length</th>
<th>Blade Width at Widest</th>
</tr>
</thead>
<tbody>
<tr>
<td>3006</td>
<td>13”</td>
<td>9”</td>
<td>25mm</td>
</tr>
</tbody>
</table>

Stulberg Proximal Femoral Elevator

Designed by S. David Stulberg, MD

PRODUCT NO:

<table>
<thead>
<tr>
<th>Product No</th>
<th>Overall Length</th>
<th>Handle Length</th>
<th>Blade Width at Widest</th>
</tr>
</thead>
<tbody>
<tr>
<td>3420-09</td>
<td>14”</td>
<td>10”</td>
<td>48mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>24mm</td>
</tr>
</tbody>
</table>
Goldstein Flanged Femoral Elevator

Designed by Wayne M. Goldstein, MD

Designed to elevate the femoral neck and prevent soft tissues from covering the medial femoral neck.

Allows enhanced visualization of the neck osteotomy even in a small incision. The flange also helps hold the elevator securely under the neck so it will not slip out during the vibration with broaching.
Amstutz Charnley-type Acetabular Exposure Pin Set
Designed by Harlan C. Amstutz, MD

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>1200-00 [Set: Ins/Ext &amp; Two Pins]</th>
<th>1200-0A [Set: Ins/Ext &amp; Two Pins w/Stop]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Also sold individually:</td>
<td>1200-01 [Inserter/Extractor]</td>
<td>1200-02 [Pin] Overall Length: 4.5&quot; Pin Depth: 2.3&quot; Pin Diameter: 3.8mm</td>
</tr>
</tbody>
</table>

Also sold individually:
- 1200-01 [Inserter/Extractor]
- 1200-02 [Pin] Overall Length: 4.5" Pin Depth: 2.3" Pin Diameter: 3.8mm
- 1200-03 [Pin with Stop] Overall Length: 4.5" Pin Tip-to-Stop Depth: .75" Pin Diameter: 3.2mm

Used to enhance exposure in the acetabulum

Bolanos Hip Retractor
Designed by Alberto Bolanos, MD

Designed to help improve femoral exposure while reducing the risk of trochanteric fractures in both posterior and anterior approaches

Designed to lever against cortical bone at the subtrochanteric level, which helps spare the greater trochanter from stresses. The wrap-around design helps the assistant to retract the entire gluteus medius during femoral preparation.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>6350-R [Right] Overall Length: 12.5&quot; Handle Length: 4.5&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>6350-L [Left] Overall Length: 12.5&quot; Handle Length: 4.5&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Lester Medial Femoral Neck Retractor
Designed by Kevin Lester, MD

| PRODUCT NO: | 3580 Overall Length: 9.375" Blade Width: 32mm |

Also sold individually:
- 1200-01 [Inserter/Extractor]
**Dorr Hip Instruments**

**Dorr Curved Hohmann Acetabular Retractor**
Placed over the top of the piriformis, helps retract the gluteus medius.

**Dorr Narrow Bent Acetabular Retractors**
Retracts the gluteus maximus off the trochanter and exposes the back of the greater trochanter. The long version is used with larger patients.

**Dorr Bent Hohmann Acetabular Retractor**
Placed between the capsule and outer external oblique muscle to protect medial circumflex vessels. The tip engages the condyloid notch bone (teardrop). Helps retract soft tissues during acetabular exposure.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D6105</td>
<td>[Dorr Curved Hohmann Acetabular]</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 14”</td>
</tr>
<tr>
<td></td>
<td>Depth from Handle: 4.5”</td>
</tr>
<tr>
<td>D6108</td>
<td>[Dorr Narrow Bent Acetabular—Long]</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 14.75”</td>
</tr>
<tr>
<td></td>
<td>Depth from Handle: 6”</td>
</tr>
<tr>
<td>D6111</td>
<td>[Dorr Narrow Bent Acetabular]</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 15”</td>
</tr>
<tr>
<td></td>
<td>Depth from Handle: 4.75”</td>
</tr>
<tr>
<td></td>
<td>Blade Width at Widest: 12mm</td>
</tr>
<tr>
<td>D6112</td>
<td>[Dorr Bent Hohmann Acetabular]</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 14.5”</td>
</tr>
<tr>
<td></td>
<td>Depth from Handle: 6”</td>
</tr>
<tr>
<td></td>
<td>Blade Width: 21mm</td>
</tr>
</tbody>
</table>

**Dorr Curved Blade Bent Hohmann Retractors**
Used for both femoral exposure—placed around the femoral neck or beneath the top of the femoral head—and acetabular exposure—posterior superior of the acetabulum.

**Upward Double Bent Hohmann Retractor**
Tapped into the ilium to help retract the femur for acetabular exposure.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D6106</td>
<td>[Dorr Curved Blade Bent Hohmann]</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 13.5”</td>
</tr>
<tr>
<td></td>
<td>Blade Width: 40mm</td>
</tr>
<tr>
<td>D6107</td>
<td>[Dorr Curved Blade Double Bent Hohmann]</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 8.5”</td>
</tr>
<tr>
<td></td>
<td>Depth from Handle: 5”</td>
</tr>
<tr>
<td></td>
<td>Blade Width: 25mm</td>
</tr>
<tr>
<td>D6114</td>
<td>[Upward Double Bent Hohmann]</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 14”</td>
</tr>
<tr>
<td></td>
<td>Depth from Flat Part of Handle: 5.5”</td>
</tr>
<tr>
<td></td>
<td>Blade Width: 20.5mm</td>
</tr>
</tbody>
</table>

**Dorr Posterior Capsule and Sciatic Nerve Protection Retractors**
Sits on the outer rim of the posterior inferior ishium to retract the posterior capsule for acetabular exposure and help to protect the sciatic nerve.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D6109-L</td>
<td>[Dorr Posterior Capsule and Sciatic Nerve Protection Retractor—Left]</td>
</tr>
<tr>
<td>D6109-R</td>
<td>[Dorr Posterior Capsule and Sciatic Nerve Protection Retractor—Right]</td>
</tr>
</tbody>
</table>

**Dorr Femoral Neck Elevators**
Placed under the proximal femur to help expose the femoral head. The wide version is useful with large patients, while the narrow is useful when broaching or when the implant is in place.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D6111</td>
<td>[Dorr Wide Femoral Neck Elevator]</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 15”</td>
</tr>
<tr>
<td></td>
<td>Depth from Handle: 2”</td>
</tr>
<tr>
<td></td>
<td>Blade Width at Widest: 45mm</td>
</tr>
<tr>
<td>D6113</td>
<td>[Dorr Narrow Femoral Neck Elevator]</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 13.75”</td>
</tr>
<tr>
<td></td>
<td>Depth from Handle: 2.25”</td>
</tr>
<tr>
<td></td>
<td>Blade Width: 25mm</td>
</tr>
</tbody>
</table>

**Dorr Curved Hohmann Acetabular Retractor**
Placed over the top of the piriformis, helps retract the gluteus medius.

**Dorr Narrow Bent Acetabular Retractors**
Retracts the gluteus maximus off the trochanter and exposes the back of the greater trochanter. The long version is used with larger patients.

**Dorr Bent Hohmann Acetabular Retractor**
Placed between the capsule and outer external oblique muscle to protect medial circumflex vessels. The tip engages the condyloid notch bone (teardrop). Helps retract soft tissues during acetabular exposure.

**Dorr Curved Blade Bent Hohmann Retractors**
Used for both femoral exposure—placed around the femoral neck or beneath the top of the femoral head—and acetabular exposure—posterior superior of the acetabulum.

**Upward Double Bent Hohmann Retractor**
Tapped into the ilium to help retract the femur for acetabular exposure.

**Dorr Posterior Capsule and Sciatic Nerve Protection Retractors**
Sits on the outer rim of the posterior inferior ishium to retract the posterior capsule for acetabular exposure and help to protect the sciatic nerve.

**Dorr Femoral Neck Elevators**
Placed under the proximal femur to help expose the femoral head. The wide version is useful with large patients, while the narrow is useful when broaching or when the implant is in place.

**Dorr Hip Instruments**
Designed by Lawrence D. Dorr, MD

**MADE IN THE USA**

**WWW.INNOMED.NET | 1.800.548.2362 | SEPTEMBER 2013**
Exposing Femoral Head
(femur rotated inwardly)

Exposure for Proximal Femur Reaming/Preparation

Exposure for Acetabulum Reaming/Preparation
Retractors for Hip Surgery

For general use in hip surgery and minimally invasive hip surgery

A Single Prong Double Bent Hohmann Acetabular Retractor

B Single Prong Broad Acetabular Retractor

C Double Prong Broad Acetabular Retractor

D Single Prong Soft Tissue Retractor

E Single Prong Acetabular Retractor

A Single & Double Prong Double Bent Hohmann Acetabular Retractor – Long

B Single Prong Long Acetabular Retractor

See page 14 for more info.

Modular Weights

Weights can be used to help hold the retractors in place.

PRODUCT NO's:

3430-01 1.5 lbs. (.68 kg)
3430-02 2.0 lbs. (.91 kg)
3430-03 2.5 lbs. (1.13 kg) with attaching hook

WWW.INNOMED.NET I 1.800.548.2362 I SEPTEMBER 2013
Minimally Invasive Hip Surgery Retractors

**Product No's:**
- **S3023** [MIH Hip Retractor]
  - Overall Length: 13"
  - Blade Width: 25mm
- **S3024** [MIH Hip Retractor–blunt tip]
  - Overall Length: 14.5"
  - Blade Width: 25mm
- **S3025** [MIH Offset Retractor]
  - Overall Length: 14"
  - Blade Width: 32mm
- **S3026** [MIH Long Hohmann Retractor]
  - Overall Length: 14.75"
  - Blade Width: 40mm
- **S3027** [MIH Long Hohmann Retractor–curved, short blade]
  - Overall Length: 12.25"
  - Blade Width: 34mm
- **S3028** [MIH Long Hohmann Retractor–curved, long blade]
  - Overall Length: 14"
  - Blade Width: 39mm
- **S3029** [MIH Long Hohmann Retractor–narrow]
  - Overall Length: 14.75"
  - Blade Width: 22mm
- **S3030** [MIH Small Hohmann Retractor]
  - Overall Length: 11.5"
  - Blade Width: 19mm
- **S3031** [MIH Femoral Elevator]
  - Overall Length: 14"
  - Blade Width: 40mm

Retractor handles are designed for optional use with modular weights to help hold the retractors in place.

**Modular Weights**
- **3430-01** 1.5 lbs. (.68 kg)
- **3430-02** 2.0 lbs. (.91 kg)
- **3430-03** 2.5 lbs. (1.13 kg) with attaching hook

**Designed to be used in various minimally invasive hip exposures**

**1.800.548.2362 | FREE TRIAL ON MOST INSTRUMENTS**
Minimally Invasive Total Hip Surgery Retractors

Narrow Double Prong Hohmann Acetabular Retractor – Extra Long

**PRODUCT NO:**

- **6210-04** [Standard Blade]
  - Overall Length: 12.5"
  - Blade and Tip Length: 3"
  - Blade Width: 15mm

- **6214** [Longer Blade]
  - Overall Length: 18"
  - Blade and Tip Length: 5"
  - Blade Width: 15mm

Narrow Single Prong Hohmann Acetabular Retractor

**PRODUCT NO:**

- **6210** [Standard Blade]
  - Overall Length: 10.5"
  - Blade and Tip Length: 2.5"
  - Blade Width: 15mm

- **6212** [Longer Blade]
  - Overall Length: 11.25"
  - Blade and Tip Length: 3.5"
  - Blade Width: 15mm

Narrow Proximal Femoral Elevator

**PRODUCT NO:**

- **3420-08** [Narrow Prongs]
  - Overall Length: 11.75"
  - Handle Length: 6.5"
  - Blade Width: 16mm

- **3420-05** [Standard Prongs]
  - Overall Length: 11.5"
  - Handle Length: 6.5"
  - Blade Width at Widest: 45mm

MIS Hip Retractors

**PRODUCT NO:**

- **6210** [Extra Narrow]
  - Overall Length: 12"
  - Handle Length: 9"
  - Depth from Bend: 6"
  - Blade Width: 20mm

- **6220** [Double Prong Standard Blade]
  - Overall Length: 12.5"
  - Blade and Tip Length: 3"
  - Blade Width: 15mm

- **6210-02** [Longer Blade]
  - Overall Length: 12.5"
  - Blade and Tip Length: 3"
  - Blade Width: 15mm

- **6214** [Longest Blade]
  - Overall Length: 18"
  - Blade and Tip Length: 5"
  - Blade Width: 15mm

Narrow Double Prong Acetabular Retractor

**PRODUCT NO:**

- **61.80** Overall Length: 12.5"
  - Blade Width: 32mm

Narrow Retractor Blades

**PRODUCT NO:**

- **7480-02** 2" blade depth
- **7480-03** 3" blade depth

Instruments designed to help reduce soft tissue trauma in Single Incision Minimally Invasive Total Hip Surgery
Moran
Posterior-Inferior Retractor
Designed by Michael C. Moran, MD

Designed to achieve a stable position on the pelvis and expose the posterior-inferior aspect of the acetabulum

The short sharp tip is placed into the ischial sulcus behind the posterior acetabular rim. The long dull tip comes to rest behind the teardrop, while the retractor handle projects in a posterior-inferior direction.

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Moran Posterior-Inferior Retractor</th>
<th>Overall Length: 10.75&quot;</th>
<th>Handle-to-Bend Length: 5.5&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>6415-L [Left]</td>
<td>12.5&quot;</td>
<td>6415-R [Right]</td>
</tr>
</tbody>
</table>

Moran
Posterior-Inferior Retractor
Designed by Michael C. Moran, MD

The posterior-inferior retractor is placed with the point at 6 o’clock and the retractor’s axilla resting on the ischium. The remaining blade of this retractor is used to retract the remaining capsule from the posterior lip of the acetabulum.

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Moran Posterior-Inferior Retractor</th>
<th>Overall Length: 10.75&quot;</th>
<th>Handle-to-Bend Length: 5.5&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>7625-01 [Small Right]</td>
<td>11&quot;</td>
<td>7925-01 [Medium Right]</td>
</tr>
<tr>
<td>Overall Length: 10.75&quot;</td>
<td>Handle-to-Bend Length: 7&quot;</td>
<td></td>
</tr>
<tr>
<td>7625-02 [Small Left]</td>
<td>11&quot;</td>
<td>7620-01 [Large Right]</td>
</tr>
<tr>
<td>Overall Length: 10.75&quot;</td>
<td>Handle-to-Bend Length: 6&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Posterior-Inferior Retractors
Designed by Wayne M. Goldstein, MD

Designed for Total Hip Surgery

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Posterior-Inferior Retractors</th>
<th>Overall Length: 12.5&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>6415-L [Left]</td>
<td>12.5&quot;</td>
</tr>
<tr>
<td>6415-R [Right]</td>
<td>12.5&quot;</td>
</tr>
</tbody>
</table>

Moran
Posterior-Inferior Retractor
Designed by Michael C. Moran, MD

Posterior-Inferior Retractors
Designed by Wayne M. Goldstein, MD

Designed for Total Hip Surgery

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Posterior-Inferior Retractors</th>
<th>Overall Length: 12.5&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>6415-L [Left]</td>
<td>12.5&quot;</td>
</tr>
<tr>
<td>6415-R [Right]</td>
<td>12.5&quot;</td>
</tr>
</tbody>
</table>

Stanton Forward Army-Navy Retractor
Designed by John L. Stanton, MD, FACS

Designed to work as a “tissue pusher”, helping to enhance exposure by allowing the surgeon or an assistant to push forward the opposite side of the wound while retracting (or not) the nearer side

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Stanton Forward Army-Navy Retractor</th>
<th>Overall Length: 9&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>4515-01 [Shallow]</td>
<td>Blade Offset from Handle: 2.625&quot;</td>
</tr>
<tr>
<td>Overall Length: 9&quot;</td>
<td>Blade Width: 18mm</td>
</tr>
<tr>
<td>4515-02 [Deep]</td>
<td>Blade Depth: Shallow 25mm, Deep 43mm</td>
</tr>
</tbody>
</table>

Stanton Forward Army-Navy Retractor
Designed by John L. Stanton, MD, FACS

Helps the assistant to hold the wound open without becoming fatigued and having to reach around to the opposite side of the wound to use another retractor.

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Stanton Forward Army-Navy Retractor</th>
<th>Overall Length: 9&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>4515-01 [Shallow]</td>
<td>Blade Offset from Handle: 2.625&quot;</td>
</tr>
<tr>
<td>Overall Length: 9&quot;</td>
<td>Blade Width: 18mm</td>
</tr>
<tr>
<td>4515-02 [Deep]</td>
<td>Blade Depth: Shallow 25mm, Deep 43mm</td>
</tr>
</tbody>
</table>
Charnley/Sorrells Low-Profile Hip Arthroplasty Retractor System

Designed by R. Barry Sorrells, MD

Conforms to the thigh, providing low-profile self-retaining exposure of the femur and acetabulum in Total Hip Arthroplasty

- Provides a varied selection of blades, both pre-shaped and malleable, for both superficial and deep retraction
- Curved blades conform with the thigh
- Self-retaining and easily adjustable

COMPLETE SYSTEM INCLUDES:
(1) Low-Profile Frame
(2) Small Retractors — (1) Narrow, (1) Wide
(3) Medium Retractors — (1) Narrow, (1) Wide, (1) Malleable Narrow
(2) Large Retractors — (1) Narrow, (1) Wide

PRODUCT NO'S:

<table>
<thead>
<tr>
<th>PRODUCT NO'S</th>
<th>Product Description</th>
<th>Blade Width 1/2&quot;</th>
<th>Blade Depth 1/2&quot;</th>
<th>Overall Length</th>
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</thead>
<tbody>
<tr>
<td>7318-00</td>
<td>Complete System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7318-01</td>
<td>[Frame] Length: 14.5&quot; Maximum Width: 12&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7318-02</td>
<td>[Small Narrow Blade] Blade Width: 1.25&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blade Depth: 1.25&quot; Overall Length: 8.5&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7318-03</td>
<td>[Small Wide Blade] Blade Width: 2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blade Depth: 1.25&quot; Overall Length: 8.5&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7318-04</td>
<td>[Medium Narrow Blade] Blade Width: 1.25&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blade Depth: 2.25&quot; Overall Length: 8.5&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7318-05</td>
<td>[Medium Wide Blade] Blade Width: 2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blade Depth: 2.25&quot; Overall Length: 8.5&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7318-06</td>
<td>[Medium Malleable Blade] Blade Width: 1.25&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blade Depth: 2.25&quot; Overall Length: 8.5&quot;</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>7318-07</td>
<td>[Large Narrow Blade] Blade Width: 1.25&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blade Depth: 3.25&quot; Overall Length: 8.5&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7318-08</td>
<td>[Large Wide Blade] Blade Width: 2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blade Depth: 3.25&quot; Overall Length: 8.5&quot;</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

MADE IN THE USA PROUDLY

WWW.INNOMED.NET | 1.800.548.2362 | SEPTEMBER 2013
Double Prong Soft Tissue Retractor
Designed by Adolph V. Lombardi Jr., MD

Designed to help retract myofascial sleeves about the hip during hip surgery and other soft tissue retraction

PRODUCT NO:
3233
Overall Length: 8.875"
Prong Separation: 1"
Prong Depth: 1.125"

Sorrells Posterior Acetabular Retractor
Designed by R. Barry Sorrells, MD

PRODUCT NO'S:
7320-22A [With Teeth]
Overall Length: 7"
Blade Width: 45mm

7320-22B [Without Teeth]
Overall Length: 7"
Blade Width: 45mm

Available with and without teeth

Penenberg Gluteus Retractors
Designed by Brad Penenberg, MD

PRODUCT NO'S:
7108-01 [Right]
Overall Length: 8.25"
Handle to Bend Length: 6.5"
Depth from Bend: 4.25"

7108-02 [Left]
Overall Length: 8.25"
Handle to Bend Length: 6.5"
Depth from Bend: 4.25"

Modular Weights
Weights can be used to help hold the retractors in place.

PRODUCT NO'S:
3430-01 1.5 lbs. (.68 kg)
3430-02 2.0 lbs. (.91 kg)
3430-03 2.5 lbs. (1.13 kg) with attaching hook

HIP EXPOSURE & POSITIONING INSTRUMENTS | 1.800.548.2362 | FREE TRIAL ON MOST INSTRUMENTS
Self-Retaining Hip Surgery Retractor System

Helps to free assisting personnel while providing excellent exposure during hip arthroplasty and hip fracture surgery.

Square Frame

PRODUCT NO:
7450-01D
12.75" x 11.25"

Standard Frame

PRODUCT NO’s:
7450-01A [Standard] 12.75" x 9.5"
7450-01B [Medium] 9.75" x 9.5"

Double Locking Standard Frame

Designed with a second sliding blade lock for enhanced stability, especially in obese patients. Allows both locked blades to be fully adjustable, yet with the ability to be securely fixed, diminishing the chance for shifting, and allowing for more secure self-retaining exposure.

PRODUCT NO’s:
7430 [Standard] 12.75" x 9.5"

Charnley-Type Frame

PRODUCT NO’s:
7445 [Standard] 12" x 9.5"
7445-01B [Narrow] 10.5" x 9.5"

Charnley-type frames come standard with 1 each:
7445-02 Rounded 2" Charnley Blade
7450-02 2" Standard Blade
7455-02 2" Charnley Blade
Frames also sold individually:
7445-01 [Standard]
7445-01B-01 [Narrow]

Can be used with any blade style.

Modified Frame with Single Stud and Two Mobile Body Assemblies

PRODUCT NO’s:
7446-01 Frame Dimensions: 12" x 9.5"
Optional Extra Parts:
7447 [One Body Assembly]
Standard Blades

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Description</th>
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<tbody>
<tr>
<td>7450-02</td>
<td>2&quot; blade depth</td>
</tr>
<tr>
<td>7450-03</td>
<td>3&quot; blade depth</td>
</tr>
<tr>
<td>7450-04</td>
<td>4&quot; blade depth</td>
</tr>
<tr>
<td>7450-05</td>
<td>5&quot; blade depth</td>
</tr>
<tr>
<td>7450-06</td>
<td>6&quot; blade depth</td>
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OrthoLucent™ Standard Blades

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7450-02R</td>
<td>2&quot; blade depth</td>
</tr>
<tr>
<td>7450-03R</td>
<td>3&quot; blade depth</td>
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<tr>
<td>7450-04R</td>
<td>4&quot; blade depth</td>
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Bennett Style Blades

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Description</th>
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<tbody>
<tr>
<td>7450-07A</td>
<td>[Standard] 4&quot; blade depth</td>
</tr>
<tr>
<td>7450-07B</td>
<td>[Deep] 6&quot; blade depth</td>
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Narrow Retractor Blades

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
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<tbody>
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<td>7480-02</td>
<td>2&quot; blade depth</td>
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<tr>
<td>7480-03</td>
<td>3&quot; blade depth</td>
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Wide Standard Blades

<table>
<thead>
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<th>Description</th>
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<tbody>
<tr>
<td>7450-W-02</td>
<td>2&quot; blade depth</td>
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<td>7450-W-03</td>
<td>3&quot; blade depth</td>
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<tr>
<td>7450-W-04</td>
<td>4&quot; blade depth</td>
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<tr>
<td>7450-W-05</td>
<td>5&quot; blade depth</td>
</tr>
<tr>
<td>7450-W-06</td>
<td>6&quot; blade depth</td>
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5-Prong Rake Blade

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Description</th>
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<tbody>
<tr>
<td>7450-10A</td>
<td>1&quot; blade depth</td>
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</table>

Soft Tissue Blades

<table>
<thead>
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<tbody>
<tr>
<td>7450-09A</td>
<td>[Standard] 2&quot; blade depth</td>
</tr>
<tr>
<td>7450-09B</td>
<td>[Deep] 2.5&quot; blade depth</td>
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3-Prong Rake Blade

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<tbody>
<tr>
<td>7450-10B</td>
<td>1&quot; blade depth</td>
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Bennett Style Blades

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7450-07A</td>
<td>[Standard] 4&quot; blade depth</td>
</tr>
<tr>
<td>7450-07B</td>
<td>[Deep] 6&quot; blade depth</td>
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Malleable Retractor Blades

<table>
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<th>Description</th>
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<tbody>
<tr>
<td>7452-05</td>
<td>5&quot; blade depth</td>
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<tr>
<td>7452-06</td>
<td>6&quot; blade depth</td>
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</table>

Extra Wide Blades

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Description</th>
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<tbody>
<tr>
<td>7450-09</td>
<td>[Standard] 2&quot; blade depth</td>
</tr>
<tr>
<td>7450-09A</td>
<td>[Deep] 2.5&quot; blade depth</td>
</tr>
</tbody>
</table>

OrthoLucent™ is a trademark of MedX Composites

Retractor Blades for Charnley-type Frame

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>7445-02</td>
<td>Rounded 2&quot; blade depth</td>
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<tr>
<td>7455-02</td>
<td>2&quot; blade depth</td>
</tr>
<tr>
<td>7455-03</td>
<td>3&quot; blade depth</td>
</tr>
<tr>
<td>7455-04</td>
<td>4&quot; blade depth</td>
</tr>
<tr>
<td>7455-06</td>
<td>6&quot; blade depth</td>
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Wide Standard Blades

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<tbody>
<tr>
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<tr>
<td>7450-W-03</td>
<td>3&quot; blade depth</td>
</tr>
<tr>
<td>7450-W-04</td>
<td>4&quot; blade depth</td>
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<tr>
<td>7450-W-05</td>
<td>5&quot; blade depth</td>
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<tr>
<td>7450-W-06</td>
<td>6&quot; blade depth</td>
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5-Prong Rake Blade

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Extra Large Standard Blades

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<tr>
<td>7470-03</td>
<td>3&quot; blade depth</td>
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<tr>
<td>7470-04</td>
<td>4&quot; blade depth</td>
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Soft Tissue Blades

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<tbody>
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<td>Rounded 2&quot; blade depth</td>
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<tr>
<td>7455-03</td>
<td>3&quot; blade depth</td>
</tr>
<tr>
<td>7455-04</td>
<td>4&quot; blade depth</td>
</tr>
<tr>
<td>7455-06</td>
<td>6&quot; blade depth</td>
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Wedges for Frames

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<tr>
<td>7450-89</td>
<td>[Thin Wedge] 1.75&quot; Blade Depth: 8.5mm</td>
</tr>
<tr>
<td>7450-99</td>
<td>[Thick Wedge] 1.75&quot; Blade Depth: 8.5mm</td>
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3-Prong Rake Blade

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<th>PRODUCT NO:</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>7450-10B</td>
<td>1&quot; blade depth</td>
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</tbody>
</table>

Charnley-type frames & blades Made for Innomed in Germany
Instruments designed for Minimal Incision Total Hip Surgery using the standard posterior lateral approach

Used in conjunction with a charnley-type frame and blade system (see page 22).

**Posterior-Inferior Retractors**

The posterior-inferior retractor is placed with the point at 6 o’clock and the retractor’s axilla resting on the ischium. The remaining blade of this retractor is used to retract the remaining capsule from the posterior lip of the acetabulum.

**90° Soft Tissue Retractor**

Helps to provide exposure and protect the nerve structures posteriorly during initial exposure of the acetabular capsule.

**Cobra Retractor with Hand Rest**

The pointed cobra retractor with hand rest is placed anteriorly to help retract and expose.

**Superior Capsular Retractor**

Designed to be placed over the superior capsule.
The right-angle capsular retractors help retract and provide additional exposure around the acetabulum—either posterior or superior.

Right Angle Posterior Capsular Retractor

Using a finger, the underside of the gluteus medius tendon can be palpated and the curved end of this Hibbs-style retractor can be placed and pulled anteriorly. The right angle end of the retractor can be used later in a similar fashion to the Blunt Right Angle Retractor described above.

Bent Hohmann Retractor for Gluteus Medius

For use in femoral exposure, the Bent Hohmann Retractor can be placed anterior to the capsule, around the greater trochanter, to rest on the lateral cortex of the femur, allowing access to the proximal femur.
Bent Hohmann Retractors—Narrow

Helps retract tissues at the margins of the joint

Useful for retracting tissues at the margins of the joint. Can be passed over the margins of the joint and held in place with weights or by hand.

**PRODUCT NO’S:**

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<tr>
<th>Product No</th>
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<td>7110-01</td>
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<td>10&quot;</td>
<td>19mm</td>
<td>4.75&quot;</td>
</tr>
</tbody>
</table>

**Designed by Carl DiRaimondo, MD**

Bent Hohmann Retractors—Short-tipped Narrow

Helps retract tissues at the margins of the joint

Useful for retracting tissues at the margins of the joint. Can be passed over the margins of the joint and held in place with weights or by hand.

**PRODUCT NO’S:**

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<td>10&quot;</td>
<td>19mm</td>
<td>4.25&quot;</td>
</tr>
</tbody>
</table>

**Designed by Carl DiRaimondo, MD**

Bent Hohmann Retractors—Wide

Helps retract tissues at the margins of the joint

Useful for retracting tissues at the margins of the joint. Can be passed over the margins of the joint and held in place with weights or by hand.

**PRODUCT NO’S:**

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<tr>
<th>Product No</th>
<th>Overall Length</th>
<th>Handle Length</th>
<th>Blade Width</th>
<th>Depth from Bend</th>
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<tr>
<td>6590-01</td>
<td>11&quot;</td>
<td>9&quot;</td>
<td>42mm</td>
<td>5.5&quot;</td>
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</table>
**Modified Hohmann Retractors**

*Handle is contoured to allow better leverage and visualization*

Useful for retracting tissues around the bone. Can be held in place with weights or by hand.

Carbon fiber material is strong, lightweight, completely radiolucent, helps to prevent from marring component surfaces, and can be steam sterilized.

**PRODUCT NO’S:**

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<table>
<thead>
<tr>
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<th>[Narrow]</th>
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<tbody>
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<tr>
<td>Blade Width: 14mm</td>
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<table>
<thead>
<tr>
<th>4535-R</th>
<th>[OrthoLucent™ Narrow]</th>
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<tr>
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<tr>
<td>Blade Width: 14mm</td>
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**Hohmann Retractor**

*Designed like the original Hohmann-style retractor*

**PRODUCT NO’S:**

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<tr>
<th>4558-R</th>
<th>[OrthoLucent™]</th>
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<tr>
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<tr>
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**Long Narrow Hohmann Retractor—Blunt**

**PRODUCT NO:**

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<tr>
<td>Overall Length: 11.375”</td>
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**Modified Blunt Hohmann Retractor**

*Used for soft tissue retraction*

**PRODUCT NO’S:**

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<th>[Wide]</th>
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<tr>
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<tr>
<td>Overall Length: 10.75”</td>
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<table>
<thead>
<tr>
<th>4550-R</th>
<th>[OrthoLucent™]</th>
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</thead>
<tbody>
<tr>
<td>Blade Width at Widest: 24.5mm</td>
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</tbody>
</table>
| Overall Length: 10.75” | **MADE IN THE USA**

**IP EXPOSURE & POSITIONING INSTRUMENTS**

| 1.800.548.2362 | **FREE TRIAL ON MOST INSTRUMENTS** |
Lombardi Femoral/Gluteus Medius Minimus Retractor

Designed by Adolph V. Lombardi Jr., MD

Designed for acetabular exposure, and to retract the gluteus medius minimus during femoral reaming

PRODUCT NO: 4235
Overall Length: 11.75”
Blade Width: 20mm

For acetabular exposure, the retractor can be placed easily at the level of the ischium and driven into the ischium to retract the femur posteriorly when using an anterolateral approach to the hip. Also using an anterolateral approach or a modified Harding hip approach, the retractor can be placed in the tip of the greater trochanter and can effectively retract the abductor mechanism, namely the gluteus medius minimus so that reaming of the femur can be performed.

Long Curved Hohmann Retractors—Narrow

PRODUCT NO’S:

6204 [Short Blade]  
Overall Length: 16”
Handle Length: 13”
Blade Width: 22mm

6205 [Long Blade]  
Overall Length: 15.25”
Handle Length: 13”
Blade Width: 22mm

Curved Hohmann Retractor—Wide

PRODUCT NO: 6215
Overall Length: 13”
Handle Length: 12”
Blade Width: 43mm

MADE IN THE USA
PROUDLY MADE IN THE USA

WWW.INNOMED.NET  I  1.800.548.2362  I  SEPTEMBER 2013
Lighted Hip Retractors

**Lighting attachment for enhanced visual exposure**
Attaches to a fiber optic light cable with ACMI (female) connector. Can be steam sterilized.

**New**
**Detachable**
**Clip-In Design**
**On All Lighted Retractors!**

### Lighted Narrow Cobra Retractors

<table>
<thead>
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<th>Overall Length</th>
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<th>Blade Width</th>
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<tbody>
<tr>
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<td>19mm</td>
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<tr>
<td>6130-L</td>
<td>12&quot;</td>
<td>7&quot;</td>
<td>33mm</td>
</tr>
<tr>
<td>6135-L</td>
<td>14.5&quot;</td>
<td>7&quot;</td>
<td>33mm</td>
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**MADE IN THE USA PROUDLY**

### Lighted Inferior Acetabular Retractor – Narrow

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<th>Overall Length</th>
<th>Handle Length</th>
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<tbody>
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<td>6255-L</td>
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</table>

**New**
**Detachable**
**Clip-In Design**
**On All Lighted Retractors!**

### Lighted Single Prong Double Bent Hohmann Acetabular Retractor – Long

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<thead>
<tr>
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<th>Overall Length</th>
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<th>Blade Width</th>
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<td>6210-02L</td>
<td>12.5&quot;</td>
<td>3&quot;</td>
<td>35mm</td>
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</table>
Askins Modified Cobra Retractor with Suction Tube

Designed by Vance Askins, MD

Allows an assistant to hold the retractor and operate two instruments: the retractor for visualization of the acetabulum as well as the suction tip for suction of smoke and debris from the wound and the acetabulum.

Designed for use as a posterior inferior or anterior inferior retractor during minimally invasive hip procedures, the retractor features a suction tube located on the anterior portion of the retractor. The suction tube includes two additional holes along the shaft for suction of smoke out of the wound, while the distal tip allows for removal of blood and debris from the acetabulum.

Narrow Cobra Retractors

A general purpose instrument for use around the femur and acetabulum in minimally invasive surgery

PRODUCT NO’S:

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<thead>
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<th>Handle Length</th>
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<td>6120</td>
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<td>6120-L</td>
<td>11.75&quot;</td>
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Replacement Parts

3408-01  (Cleaning Probe Only)

Large Cobra Retractors

PRODUCT NO’S:

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<td>7630-02</td>
<td>17.5&quot;</td>
<td>14&quot;</td>
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Narrow Cobra Retractors

A general purpose instrument for use around the femur and acetabulum in larger patients

PRODUCT NO’S:

<table>
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<th>Blade Width at Widest</th>
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<td>19mm</td>
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<td>6120</td>
<td>11.75&quot;</td>
<td>6.5&quot;</td>
<td>19mm</td>
</tr>
<tr>
<td>6120-L</td>
<td>11.75&quot;</td>
<td>6.5&quot;</td>
<td>NEW! 19mm</td>
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PRODUCT NO’S:

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<td>33mm</td>
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<tr>
<td>6130-L</td>
<td>12&quot;</td>
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PRODUCT NO’S:

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Cobra Retractors

A general purpose instrument for use around the femur and acetabulum

The carbon fiber OrthoLucent™ Retractor is strong, lightweight, completely radiolucent, can be steam sterilized, and also helps to prevent from marring component surfaces.

OrthoLucent™ is a trademark of MedX Composites
Deep Cobra Retractor
A general purpose instrument for use around the femur and acetabulum in larger patients

PRODUCT NO:
6135
Overall Length: 14.5”
Handle Length: 7”
Blade Width at Widest: 33mm

6135-L [Lighted Deep Cobra]
Overall Length: 14.5”
Handle Length: 7”
Blade Width at Widest: 33mm

NEW!
Not shown, see page 29 for more info.

MADE IN THE USA
PROUDLY

PRODUCT NO’S:
6143 [Large]
Overall Length: 14.75”
Blade Width: 43.2mm
Tongue: 25mm x 5mm

6143-01 [Small]
Overall Length: 12.5”
Blade Width: 30mm
Tongue: 25mm x 5mm

MADE IN THE USA
PROUDLY

Two Sizes Available

Harwin Modified Cobra Retractor
Designed by Steven F. Harwin, MD, FACS

Designed for use during total hip and knee surgery
The long handle and obtuse angle provide ergonomic leverage—especially helpful for use with obese patients.

In total hip surgery, the wide, concave blade design allows for enhanced exposure—especially useful in anterior hip surgery with the placement of reamers, and to elevate and expose the proximal femur.

In total knee surgery, the wide blade of the large retractor spans the prepared box and helps bring the tibia forward. The small retractor helps with retraction of the medial and lateral structures, where the wide, concave blade provides added exposure over standard bent Hohmann retractors. The serrated tip helps improve stability.

PRODUCT NO’S:
6143 [Large]
Overall Length: 14.75”
Blade Width: 43.2mm
Tongue: 25mm x 5mm

6143-01 [Small]
Overall Length: 12.5”
Blade Width: 30mm
Tongue: 25mm x 5mm

MADE IN THE USA
PROUDLY

Unger Blunt Narrow Cobra
PRODUCT NO:
3003
Blade Width: 34mm
Blade Width at Tip: 12mm
Blade Depth: 5.25”
Overall Length: 14.5”

MADE IN THE USA
PROUDLY

Cobra Retractor with Hand Rest
PRODUCT NO:
7130
Overall Length: 10.25”
Blade Width at Widest: 32mm

MADE IN THE USA
PROUDLY
Inferior Acetabular Retractors
Help provide better access to the intramedullary canal

Modified Double Prong Acetabular Retractor with Center Prongs
Retracts the femur anteriorly during total hip arthroplasty
Designed to retract the femur anteriorly during total hip arthroplasty. It is hooked over the anterior pelvic brim. Weights can be added to assist in exposure and to help hold the retractor in place.

MIS Hip Retractors

See page 29 for more info.
Busenkell Posterior Hip Retractor
Designed by G. Busenkell, MD

Greatly enhances exposure by retracting the postero-inferior soft tissues
Used to impact into the bone posteriorly and greatly enhances exposure by retracting the postero-inferior soft tissues. The retractor straddles the ischial ramus. After dislocation of the hip and debridement of the capsule, retractors are placed anteriorly and superiorly. Using a Cobb-type elevator, the posterior capsule and short external rotators are reflected posteriorly. The Busenkell Posterior Hip Retractor is then slipped along the posterior border of the ischium with the flange retracting the postero-inferior soft tissue mass. The point of the retractor is then impacted into the ischium with a mallet.

PRODUCT NO'S:

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</tr>
</tbody>
</table>

McMahon Posterior Femoral Retractor
Designed by Steve McMahon, MD

Used in the posterior approach to lift the proximal femur
After exposing the lesser trochanter, the distal lip of the retractor hooks under the psoas tendon in close contact to the bone. The adjacent tip of the body of the retractor sits under the calcar. The combined action lifts the proximal femur and the body of the retractor creates a space in which to prepare the proximal femur. The handle is bent twice at 30° to move the assistant's hand out of the way.

PRODUCT NO’S:

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Hibbs Retractors
Designed for soft tissue retraction by either the toothed end or curved handle end
Extra large used in large patients when more leverage and depth is needed.

PRODUCT NO’S:

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<th>Medium</th>
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<td>Overall Length: 10.75&quot;</td>
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</tr>
<tr>
<td>Handle Length: 9.75&quot;</td>
<td></td>
</tr>
<tr>
<td>Blade Depth: 4.5&quot;</td>
<td></td>
</tr>
<tr>
<td>Blade Width: 25mm</td>
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<table>
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<th>Product</th>
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<tr>
<td>6240</td>
<td>8.75&quot;</td>
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<tr>
<td>Overall Length: 8.75&quot;</td>
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<td>Handle Length: 8&quot;</td>
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<tr>
<td>Blade Depth: 3&quot;</td>
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</tr>
<tr>
<td>Blade Width: 25mm</td>
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</tbody>
</table>
OrthoLucent™ Retractors

OrthoLucent™
Richardson-type
Soft Tissue Retractor

Designed by Sean B. Kaminsky, MD

Radiolucent, lightweight retractor helps to retract soft tissues for enhanced exposure

Carbon fiber material is strong, lightweight, completely radiolucent, can be steam sterilized, and helps to prevent from marring component surfaces.

**PRODUCT NO'S:**

| 3231-23R [23mm] | Overall Length: 13" | Large Blade: 23mm x 36mm |
| 3231-30R [30mm] | Overall Length: 13" | Large Blade: 30mm x 42mm |
| 3231-37R [37mm] | Overall Length: 13" | Large Blade: 37mm x 52mm |
| 3231-44R [44mm] | Overall Length: 13" | Large Blade: 44mm x 78mm |

OrthoLucent™ Hohmann Retractors

**PRODUCT NO'S:**

| 4535-R [OrthoLucent™ Modified Narrow] | Blade Width: 18mm | Overall Length: 10" |
| 4550-R [OrthoLucent™ Modified Blunt] | Blade Width at Widest: 24.5mm | Overall Length: 10.75" |
| 4558-R [OrthoLucent™ Standard] | Blade Width: 16mm | Overall Length: 9.625" |

OrthoLucent™ Standard Blades for Self-Retaining Hip Retractor System

**PRODUCT NO'S:**

| Handle Length: 6" |
| 7450-02R | 2" blade depth |
| 7450-03R | 3" blade depth |
| 7450-04R | 4" blade depth |

OrthoLucent™ is a trademark of MedX Composites

Carbon fiber material is strong, lightweight, completely radiolucent, can be steam sterilized, and helps to prevent from marring component surfaces.
Gordon Hip Resurfacing Retractor Designed by Stuart Gordon, MD

Gently curved retractor tip safely cradles and protects the femoral neck while gaining improved head exposure for resurfacing the femoral head

Designed with a tissue-sensitive shape for elevating the femoral head during hip resurfacing.

**PRODUCT NO:**

6216 [Hohmann]
Overall Length: 10.5”
Blade Width: 19mm (.75”)
Prong Length: 35mm (1.375”)  
Prong Width at Tip: 5mm

6217 [Bent Rake]
Overall Length: 8”
Blade Width: 19mm (.75”)

6218 [Standard Rake]
Overall Length: 8.375”
Blade Width: 19mm (.75”)

Comfort Grip Handle Retractors
Comfort grip ergonomic handle helps reduce fatigue and slippage

**PRODUCT NO:**

6216 [Hohmann]
Overall Length: 17”
Handle Length: 6.75”
Blade Width at End: 55mm

Made in the UK

Dozier Radiolucent Bennett Hip Fracture Retractor Designed by John K. Dozier, MD

Can be kept in place while using image intensification or taking an x-ray

Designed to be used in hip fractures with the advantage that the retractor can be kept in place while using image intensification or taking an x-ray.
The handle can be rotated to the right or left for surgeon preference. May be steam or gas sterilized.

**PRODUCT NO:**

6870
Handle Length: 6.75”
Blade Length: 8.5”
Blade Width at Widest: 67mm

Made in the USA

FREE TRIAL ON MOST INSTRUMENTS

1.800.548.2362

HIP EXPOSURE & POSITIONING INSTRUMENTS
Self-Retaining Soft Tissue Retractors with Modular Blades
Used for soft tissue retraction during hip & shoulder surgery

Hendren Self-Retaining Retractors
Designed by D.H. Hendren, MD
Gentle on tissue and very effective in holding back subcutaneous fat
Designed to be gentle on tissue and very effective in holding back subcutaneous fat. Also useful for retracting the deltoid muscle firmly. Available in five sizes.

Modular Snap-In Blades
(Included with #1570 and #1571)

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
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<tbody>
<tr>
<td>1570-01 [Double Blunt-tipped] Blade Depth: .75&quot;</td>
</tr>
<tr>
<td>1570-02 [Rounded] Blade Depth: 1&quot;</td>
</tr>
<tr>
<td>1570-03 [Chandler-type] Blade Depth: 1.75&quot;</td>
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</tbody>
</table>

Spine/Trauma Deep Tissue Retractor
Designed to help maximize exposure with 90° arms and deep tissue blades
The retractor arms are available in configurations of 7 or 4 teeth.

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
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<tbody>
<tr>
<td>1862 [4 Teeth]</td>
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<tr>
<td>1863 [7 Teeth]</td>
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Center Retraction Blades
(Optional — Sold Separately)

<table>
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<th>PRODUCT NO’S:</th>
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<tbody>
<tr>
<td>1590-02 [T-Handle] Blade Depth: 2&quot; Handle Length: 6&quot;</td>
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<tr>
<td>1590-03 [T-Handle] Blade Depth: 3&quot; Handle Length: 6&quot;</td>
</tr>
<tr>
<td>1590-04 [T-Handle] Blade Depth: 4&quot; Handle Length: 6&quot;</td>
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</tbody>
</table>

Modular Snap-In Blades
(Included with #1570 and #1571)

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
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<tbody>
<tr>
<td>1570-01 [Double Blunt-tipped] Blade Depth: .75&quot;</td>
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<tr>
<td>1570-02 [Rounded] Blade Depth: 1&quot;</td>
</tr>
<tr>
<td>1570-03 [Chandler-type] Blade Depth: 1.75&quot;</td>
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</tbody>
</table>
**Charnley-type Self-Retaining Hip Retractor**

Designed by Perry Greene, MD

**PRODUCT NO:**
1589

<table>
<thead>
<tr>
<th>Overall Length: 12.25”</th>
<th>Length-to-Hinge: 9”</th>
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<tbody>
<tr>
<td>Leg Depth: 2.75”</td>
<td>Opens to: 7” space between Legs</td>
</tr>
<tr>
<td>Prongs: 12mm x 4mm x 3mm</td>
<td>Made Exclusively in Germany</td>
</tr>
</tbody>
</table>

**Hensley/LaFosse Soft Tissue Spreader**

Designed by R. Hensley and J. LaFosse

**PRODUCT NO:**
15844

| Overall Length: 7.5” |

**Romanelli Deep Gelpi Retractor**

Designed by Ron Romanelli, MD

*Offers the versatility and ability to be used in minimally invasive total hip replacements*

Can be used to hold the hip capsule out of the way for easy visualization, and to allow reaming of the acetabulum without catching the capsule in the reamer. The ends of the retractor have dull tips to help avoid soft tissue damage. Wider separation occurs at the deep capsule level. Holds the muscle out of the way while retracting the capsule.

**PRODUCT NO:**
4270

<table>
<thead>
<tr>
<th>Overall Length: 7.75”</th>
<th>Depth from Bend: 4.5”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prong Length: 10mm</td>
<td>Made Exclusively in Germany</td>
</tr>
</tbody>
</table>
Amstutz Femoral Head-Neck Elevator
Designed by Harlan C. Amstutz, MD
Used for acetabular exposure

Amstutz Femoral Retractor
Designed by Harlan C. Amstutz, MD
Used for acetabular exposure

Amstutz Inferior Acetabular Retractors
Designed by Harlan C. Amstutz, MD

Amstutz Angled Mirrors
Designed by Harlan C. Amstutz, MD
Used for viewing hard-to-see areas around the acetabulum

Amstutz Charnley-type Acetabular Exposure Pin Set
Designed by Harlan C. Amstutz, MD

Cement Packer & Trimmer
Designed by Harlan C. Amstutz, MD
Curved Cobra Retractors

Left and right retractors can be used with posterior or lateral approach.

Placed over the anterior acetabular wall for supero-anterior translation of the femoral head and neck during acetabular preparation. The two prongs pierce the capsule over the anterior wall, then the curve and “twist” of the retractor allows for gentle retraction on the femoral neck.

PRODUCT NO'S:
6110-01 [Right]
6110-02 [Left]

Femoral Elevator with Trough

Helps to elevate the femur and provide a trough for bone to collect in during shaping of the femoral head.

Designed for femoral head preparation, the elevator is placed against the anterior femoral neck when the femur is flexed and internally rotated. Helps to elevate the femoral head for milling, and the “trough” provides a channel for the instruments and allows for easy clearance of reamings. Skin, abductor, subcutaneous fat and capsule are protected and retracted with the trough.

PRODUCT NO:
6030
Overall Length: 17”
Handle Length: 8”
Prong Length: 1”
Prong Width: 9mm | 18mm Gap | 9mm
Trough At Widest: 3.5”, At Narrowest: 2”

MADE IN THE USA
PROUDLY

HIP EXPOSURE & POSITIONING INSTRUMENTS | 1.800.548.2362 | FREE TRIAL ON MOST INSTRUMENTS
Cobb Elevators

Ultra hard titanium nitride coating helps to extend blade life by increasing surface hardness, prolonging sharpness, and resisting chemicals and corrosion.

PRODUCT NO’S:

3636 [1/2"]
Overall Length: 11"

3638 [1”]
Overall Length: 11"

Byrd Arthroscopic Hip Curettes & Elevators

Designed by J.W. Thomas Byrd, MD

Designed for use in various arthroscopic hip procedures

For articular lesions, the curettes can help to remove remnants of the calcified layer, preparing the bony bed for microfracture. They also allow excision of the fragmented articular edges, creating stable cartilage shoulders around the defect. They are useful for debridement as well.

In femoroplasty for surgical correction of cam impingement, the curettes are used to help excise the fibrocartilaginous tissue that covers the abnormal bone. Precise excision of this overlying soft tissue layer demarcates the edges and provides the templates of excision for the abnormal bone.

The versatile elevators allow freeing up of soft tissue around bone, can assist in removing the fibrous layer off of a cam lesion, and can be used to help elevate the capsule. They are also useful for mobilizing the labrum in preparation for repair or acetabular rim trimming.

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Length</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>2042</td>
<td>[Extra Long Curette – Small Angled]</td>
<td>13.625”</td>
<td>5.4mm x 18.7mm</td>
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<tr>
<td>2043</td>
<td>[Extra Long Curette – Straight]</td>
<td>13.625”</td>
<td>4.8mm x 19mm</td>
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<tr>
<td>2044</td>
<td>[Extra Long Elevator – Rounded]</td>
<td>13.625”</td>
<td>4.4mm x 12mm</td>
</tr>
<tr>
<td>2045</td>
<td>[Extra Long Elevator – Square Tip]</td>
<td>13.625”</td>
<td>4.4mm x 12mm</td>
</tr>
<tr>
<td>2046</td>
<td>[Extra Long Elevator – Angled, Joseph Straight Edge]</td>
<td>13.625”</td>
<td></td>
</tr>
</tbody>
</table>

Bradley Periosteal Elevator

Designed by Gary W. Bradley, MD

PRODUCT NO:

4270
Overall Length: 11”
Jackson Flat Top Traction Device  
Designed by Julius Bishop, MD

A table-top traction device designed for fracture fixation in the acetabulum, pelvis, and femur

Can be used in a variety of applications, including open and percutaneous pelvic and acetabular fracture surgery, hip fracture fixation and femur fracture fixation including antegrade or retrograde nailing.

The light-weight portable device attaches directly to a standard radiolucent flat top table. Recommended for use with the disposable sterile kit, which is sold separately.

Walsh Pelvic Positioning System  
Designed by Stephen M. Walsh, MD

**Designed to assist in determining proper pelvic position for total hip arthroplasty**

Before surgery with the patient in the supine position, the arms of the unit are adjusted laterally along the bar to conform to the patient’s ASIS’s. Vertical adjustment is also possible to accommodate various hip positioner designs. After the patient is secured using a hip positioner, the unit is placed on the patient’s ASIS’s again. The levels on top are referenced to check pelvic alignment, and the operating table can then be rotated until the pelvis is level, yielding a known reference for standard external implantation systems.
Multi-Adjustment Hip Positioner
Provides stable positioning of a patient during hip surgery

Multi-adjustment arms allow the positioner to be adjusted to fit all sizes of patients. Extra attachment allows for more versatility of placement. Especially helpful with large patients where reaching the a.s.i.s. is needed for stabilization.

| PRODUCT NO’s: | 4030 |
| Replacement Parts: | 4150-PD2 [Set of 2 Small Pads] |

Cherf Leg Holder Designed by John Cherf, MD
Supports the lower extremity for prepping before hip or knee surgery

Useful for all lower extremity procedures and is particularly helpful for supporting the leg with the patient positioned in the lateral position. By holding the foot/ankle in an externally rotated position, the knee can be locked into extension which helps eliminate the need for manual support.

The leg holder may also be used to support the limb for surgical patients in the supine position such as for knee and foot/ankle procedures.

| PRODUCT NO’s: | 2270 |
| Replacement Parts: | 4150-PD3 [Set of 3 Small Pads] |
Capello Patient Positioner
Designed by William Capello, MD
Provides stable positioning of a patient during hip procedures

Two-piece board design for easy handling
Interlocking board pieces

Optional Peg Pad
Optional Peg Extension

Two-piece board design for easy handling
Interlocking board pieces

Also available in a one-piece design

PRODUCT NO'S:
4090 [Set with 2-Piece Board]
4095 [Set with 1-Piece Board]
Optional & Replacement Parts:
4090-PB [2-Piece Positioning Board]
4095-PB [1-Piece Positioning Board]
4090-06 [6" Peg]
4090-08 [8" Peg]
4090-SC [Stabilizing Clamp]
4090-01 [Large Gel Pad]
4090-EXT [Peg Extension]
4090-02 [Peg Gel Pad]
9120 [Table Clamp]

Optional two-piece board construction allows for easier use and storage. Includes: Board, Gel Pad, (4) 6" Pegs, (4) 8" Pegs, (2) Stabilizing Clamps, (2) Table Clamps. All gel pads, pegs, and peg height extensions can be used with existing peg boards. The board is also available in a one-piece design.

Board Dimensions: 47" x 18.75"

Large Patient Peg Board Positioner Post Assembly
Designed by Paul Ramsey, MD
Especially helpful with large patients where reaching the a.s.i.s. is needed for stabilization

PRODUCT NO'S:
4150-10P [Complete Set]
Optional & Replacement Parts:
4090-03 [Post Assembly Adapter]
4150-10B [10" Post with 2 Pads]
4150-EXT [2" Spacer with 4" Knob]
4150-EXT4 [4" Spacer with 6" Knob]
The Wixson Hip Positioner is used for stable positioning of a patient during total hip and revision surgery. It is designed to be placed on top of the operating table.

The base plate is rubber-backed to reduce slipping on the table. The uprights can easily be slid in and out of the multiple slots in the plate for desired positioning and locked into position with the locking bolt. The complete upright assembly is radiolucent.

The upright pads and the base plate pad are made of semi-dense foam to help prevent pressure points and are sealed with a washable coating. The coating also helps to lessen the possibility of skin breakdown.

The hip positioner consists of: One 10" post with double pads, one 6" post with a single pad, one 20" base plate, one base plate pad, two 2" spacers, one 4" screw, and one 6" screw.

The spacers and longer screws are supplied for use with larger patients: use one spacer with the 4" screw, or combine the two spacers to use with the 6" screw.

The pad assembly can be adjusted for additional height and width. The upright posts are modular. The complete unit is radiolucent and autoclavable except for the foam pads.

**Baseplate Dimensions:** 20" x 11.25"

**PRODUCT NO'S:**

4050

Optional & Replacement Parts:

- 4150-C [2" Spacer]
- 4150-C4 [4" Spacer]
- 4150-EK [4" Screw] For use with 2" Spacer
- 4150-EK4 [6" Long Screw] For use with two 2" Spacers or one 4" Spacer
- 4150-EXT [2" Spacer with Screw]
- 4150-EXT4 [4" Spacer with Screw]
- 4150-06 [6" Post]
- 4150-09 [9" Custom Post]
- 4150-10 [10" Post]
- 4150-12 [12" Custom Post]
- 4150-PD3 [Set of 3 Small Pads]
- 4050-LPD [Large Pad]
- 4050-BP20 [20" Wide Baseplate]
- 4050-BP24 [24" Custom Wide Baseplate]
The Stulberg Hip Positioner is used for stable positioning of a patient during total hip and revision surgery. It is designed to attach directly to the operating table utilizing the existing table adapters.

The upright pads are made of semi-dense foam to help prevent pressure points and are sealed with a washable coating. The coating also helps to lessen the possibility of skin breakdown.

**The hip positioner consists of:** One 10" post assembly with double pads and one 6" post assembly with a single pad, two 2" spacers, one 4" screw, one 6" screw, and two table attachments.

The spacers and longer screws are supplied for use with larger patients: use one spacer with the 4" screw, or combine the two spacers to use with the 6" screw.

The pad assembly can be adjusted for additional height and width. The upright posts are modular. The complete unit is radiolucent and autoclavable except for the foam pads.

**PRODUCT NO’S:**
- 4150
- Optional & Replacement Parts:
  - 4150-C [2" Spacer]
  - 4150-C4 [4" Spacer]
  - 4150-EK [4" Screw] For use with 2" Spacer
  - 4150-EK4 [6" Long Screw] For use with two 2" Spacers or one 4" Spacer
  - 4150-EXT [2" Spacer with Screw]
  - 4150-EXT4 [4" Spacer with Screw]
  - 4150-06 [6" Post]
  - 4150-09 [9" Custom Post]
  - 4150-10 [10" Post]
  - 4150-12 [12" Custom Post]
  - 4150-PD3 [Set of 3 Small Pads]
  - 4150-TA [Table Attachment]

**Wixson/Stulberg Anterior Trunk Support**

Helps protect the chest and shoulders from slumping forward during total hip surgery.

**PRODUCT NO:** 4110
Measurements in this Catalog

All effort has been made to ensure the accuracy of the measurements listed in this catalog, however, some small differences may exist between actual and listed measurements.

Measurements of overall length are the linear distance from one end to the other.

Measurements of blade width are the linear distance from one side of the product to the opposite side, typically at the widest point, as shown in these examples:

- 4025
- 3430-01
- 3421-01
- 3410-01
- 3231-37R
- 3110-01
- 3008
- 3002
- 3001
- 3000
- 3000-01
- 3005 L
- 3006
- 3003
- 3001-01
- 3001 L
- 3007
- 3002
- 3001
- 3000-02
- 3000-03
- 3001
- 3002-01
- 3002-02
- 3003-02
- 3004-02
- 3006-01
- 3006-02
- 3007
- 3000-02
- 3001
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For more information on these New Products, visit our website at www.innomed.net/new.htm
O’Reilly Dual Handle Direct Anterior Retractor
Designed by Michael P. O’Reilly, MD

Designed for use over the anterior pelvic rim during acetabular exposure in direct anterior THA, the dual handle design allows for use in both right and left hips, as well as easy exchange of the instrument between assistants.

Can be used in MIS/Direct Anterior, Total Hip Arthroplasty, Posterior/Anterolateral THA, and Hemiarthroplasty.

INSTRUMENT LOANER POLICY
All instruments are available for a no-charge 2-week evaluation (excluding extraction instruments and the Hip Distractor—which are available as rentals). There is a pad replacement charge with the Hip Positioners.