What’s New In This Catalog?

*a snapshot of all the New! instruments within*

Nicholson Headrest

**Designed by Gregory Nicholson, MD**

*Helps position the patient for all types of shoulder surgery in the beachchair position*

Designed to provide excellent exposure to the shoulder, the headrest can be used with standard OR tables (with no modifications to the table).

The headrest provides patient support and helps position the patient for all types of shoulder surgery—arthroscopic and open—in the beachchair position. It can be quickly placed and adjusted.

Provides excellent exposure to the shoulder, and patient support

A gel pad forehead strap with velcro is included for optional use.

**PRODUCT NO’S:**

- 2450 [Headrest]
- Main Plate Dimensions: 6” x 18” (15.2 x 45.7 cm)
- Neck Offset Adjustment: 8” (20.3 cm)

Includes/Replacement Parts:

- 2450-S [Strap with Gel Pad]
- 4150-PD2 [Set of 2 Pads]
# Shoulder Surgery Retractor System

Developed in collaboration with Mayo Clinic.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Description</th>
<th>Overall Length</th>
<th>Blade Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>1251-00</td>
<td>Complete System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1252-N</td>
<td>Modified Thin Glenoid Retractor–Narrow</td>
<td>11.875&quot; (30.2 cm)</td>
<td>15 mm</td>
</tr>
<tr>
<td>1252-W</td>
<td>Modified Thin Glenoid Retractor–Wide</td>
<td>11.875&quot; (30.2 cm)</td>
<td>23 mm</td>
</tr>
<tr>
<td>1253</td>
<td>Right Angle Hohmann Retractor</td>
<td>8.125&quot; (20.6 cm)</td>
<td>16 mm</td>
</tr>
<tr>
<td>1254</td>
<td>Modified Fukuda Retractor</td>
<td>8.625&quot; (21.9 cm)</td>
<td>23 mm</td>
</tr>
<tr>
<td>1255-L</td>
<td>Brown Deltoid/Richardson Retractor–Large</td>
<td>10.5&quot; (26.7 cm)</td>
<td>60 mm</td>
</tr>
<tr>
<td>1255-S</td>
<td>Brown Deltoid/Richardson Retractor–Small</td>
<td>10.5&quot; (26.7 cm)</td>
<td>44 mm</td>
</tr>
<tr>
<td>1256</td>
<td>Modified Darrach Retractor, Straight–Narrow</td>
<td>10.25&quot; (26 cm)</td>
<td>19 mm</td>
</tr>
<tr>
<td>1257</td>
<td>Modified Darrach Retractor, Straight–Wide</td>
<td>10.25&quot; (26 cm)</td>
<td>12,7 mm</td>
</tr>
<tr>
<td>1258</td>
<td>Modified Darrach Retractor, Bent–Narrow</td>
<td>10.75&quot; (27.3 cm)</td>
<td>19 mm</td>
</tr>
<tr>
<td>1259</td>
<td>Modified Darrach Retractor, Bent–Wide</td>
<td>10.75&quot; (27.3 cm)</td>
<td>12,7 mm</td>
</tr>
<tr>
<td>1260</td>
<td>Soft Tissue Shoulder Retractor</td>
<td>10&quot; (25,4 cm)</td>
<td>3&quot; (7,6 cm)</td>
</tr>
<tr>
<td>1261</td>
<td>Glenoid Access Retractor</td>
<td>13.5&quot; (34,3 cm)</td>
<td>6 mm</td>
</tr>
</tbody>
</table>

System includes two of each size of the Modified Thin Glenoid Retractors, and one of each of the other retractors.

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## Modified Darrach-type Bent Elevator

Designed modification by R.L. Stowell, MD of original design by Evan Flatow, MD

**Designed for difficult glenoid exposure, the elevator is placed around the posterior glenoid rim, retracting the cut humeral surface**

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Description</th>
<th>Overall Length</th>
<th>Blade Depth</th>
<th>Blade Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>1966</td>
<td>Glenoid Access Retractor</td>
<td>10&quot; (25,4 cm)</td>
<td>5&quot; (12,7 cm)</td>
<td>1&quot; (2,54 cm)</td>
</tr>
</tbody>
</table>
Bacastow Axillary Nerve Retractor with Suction

Designed by David Bacastow, MD

Designed with a curved tip to slip all the way under the capsule during shoulder surgery, helping to protect the axillary nerve, while also providing suction of smoke away from the surgical site.

Made of autoclavable Radel material, the unit is non-conductive of current and resists the high temperatures associated with the use of electrocautery.
Axillary Nerve Protector
Designed by Brett Sanders, MD

Designed for inferior capsular release during shoulder arthroplasty and glenoid exposure

The tapered freer end helps separate the axillary nerve and inferior capsule, even in difficult exposures. Non-conductive material allows the use of a bovie knife directly in the small channel cutting guide (on both sides). Reversible for right and left use.

**PRODUCT NO:**
8029

- **Overall Length:** 7.125" (18.1 cm)
- **Width:** 12 mm
- **Thickness:** 4 mm
Posterior Glenoid Elevators
Available in three widths. Used to help expose the posterior aspect of the glenoid. The curved tip allows the elevator to fit on the posterior rim of the glenoid. The curve in the elevator contours to the humeral shaft for posterior retraction.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1910 Narrow</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 10 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1920 Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 12 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1930 [3/8&quot; (10 mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 10 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1950 [1/2&quot; (13 mm)]</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 12 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1960 [3/4&quot; (19 mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 19 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1980 [3/8&quot; (10 mm)]</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 10 mm</td>
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<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
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</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1990 [3/4&quot; (19 mm)]</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 19 mm</td>
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<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
</tr>
</tbody>
</table>

Thin Glenoid Retractors
Available in narrow and wide sizes. Used for retraction of the anterior and posterior aspects of the anterior and posterior glenoid rim.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1910 Narrow</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 14 mm</td>
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<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1920 Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 22 mm</td>
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<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1950 [3/8&quot; (10 mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 10 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1955 [1/2&quot; (13 mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 12 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1960 [3/4&quot; (19 mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 19 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1965 [1.0&quot; (25 mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 25 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
</tr>
</tbody>
</table>

Modified Darrach-type Elevators
Available in four widths. Used for soft tissue retraction and exposure. May also be used to lever the humeral head inferiorly or superiorly and medially to expose the humeral head from the glenoid while dislocating the humeral head after subcapularis removal. May also be used to retract the humeral shaft posteriorly to help expose the glenoid.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1950 [3/8&quot; (10 mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 10 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 10.75&quot; (27.3 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1955 [1/2&quot; (13 mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 12 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 10.75&quot; (27.3 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1960 [3/4&quot; (19 mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 19 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 10.75&quot; (27.3 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1965 [1.0&quot; (25 mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blade Width: 25 mm</td>
</tr>
<tr>
<td></td>
<td>Overall Length: 10.75&quot; (27.3 cm)</td>
</tr>
</tbody>
</table>
Spiked Darrach-type Elevator

The spiked elevator is used slightly below the anterior rim of the glenoid to help retract the labrum and anterior capsule.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Blade Width</th>
<th>Opening</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1970 Narrow</td>
<td>19 mm</td>
<td>25 x 40 mm</td>
<td>7.25&quot; (18.4 cm)</td>
</tr>
<tr>
<td>1975</td>
<td>25 mm</td>
<td>10.75&quot; (27.3 cm)</td>
<td></td>
</tr>
</tbody>
</table>

Bicep Elevator

Used to help retract the biceps tendon superiorly. The two extensions allow the long head of the biceps to fit between them. The edges fit on the superior portion of the glenoid rim.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Blade Width</th>
<th>Opening</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1970 Narrow</td>
<td>19 mm</td>
<td>25 x 40 mm</td>
<td>7.25&quot; (18.4 cm)</td>
</tr>
<tr>
<td>1975</td>
<td>25 mm</td>
<td>10.75&quot; (27.3 cm)</td>
<td></td>
</tr>
</tbody>
</table>

Modified Fukuda-type Retractors

Available in small and large sizes. Used to retract the humeral shaft posteriorly and helping to expose the entire glenoid surface.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Blade Width</th>
<th>Opening</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1930 Narrow</td>
<td>32 mm</td>
<td>25 x 40 mm</td>
<td>7.25&quot; (18.4 cm)</td>
</tr>
<tr>
<td>1940 Wide</td>
<td>38 mm</td>
<td>32 x 40 mm</td>
<td>7.25&quot; (18.4 cm)</td>
</tr>
</tbody>
</table>

Modified Fukuda-type Retractor with Reamer Slot

Designed by Richard J. Miller, MD

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Blade Width</th>
<th>Opening</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1898 Narrow</td>
<td>32 mm</td>
<td>25 x 40 mm</td>
<td>7.25&quot; (18.4 cm)</td>
</tr>
<tr>
<td>1899 Wide</td>
<td>38 mm</td>
<td>32 x 40 mm</td>
<td>7.25&quot; (18.4 cm)</td>
</tr>
</tbody>
</table>

Center cutout slot allows the shaft of a reamer to fit more posteriorly

Not included in Set
Evans Modified Fukuda-type Retractors

Designed by Peter J. Evans, MD

Designed to retract the humeral shaft posteriorly, helping to expose the entire glenoid surface.

Center groove allows a reamer shaft to fit more posteriorly.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5180-N [Narrow]</td>
</tr>
<tr>
<td>Overall Length: 8.625&quot; (21.9 cm)</td>
</tr>
<tr>
<td>Blade Width: 1&quot; (25.4 mm)</td>
</tr>
<tr>
<td>Blade Depth: 3.75&quot; (9.5 cm)</td>
</tr>
<tr>
<td>5180-W [Wide]</td>
</tr>
<tr>
<td>Overall Length: 8.625&quot; (21.9 cm)</td>
</tr>
<tr>
<td>Blade Width: 1.25&quot; (31.7 mm)</td>
</tr>
<tr>
<td>Blade Depth: 3.75&quot; (9.5 cm)</td>
</tr>
</tbody>
</table>

Lighted Fukuda-type Retractors

Designed by Evan Flatow, MD & Louis Bigliani, MD

Used to retract the humeral shaft posteriorly and helping to expose the entire glenoid surface, the lighting attachment helps provide enhanced visual exposure.

Comes with one (1) Disposable LED Light Source (#8010-01). Can also be attached to a fiber optic light cable with ACMI (female) connector. Retractors can be steam sterilized.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1930-L-01 [Lighted Narrow]</td>
</tr>
<tr>
<td>Blade Width: 32 mm</td>
</tr>
<tr>
<td>Opening: 25 x 40 mm</td>
</tr>
<tr>
<td>Overall Length: 8.75&quot; (22.2 cm)</td>
</tr>
<tr>
<td>1940-L-01 [Lighted Wide]</td>
</tr>
<tr>
<td>Blade Width: 38 mm</td>
</tr>
<tr>
<td>Opening: 32 x 40 mm</td>
</tr>
<tr>
<td>Overall Length: 8.75&quot; (22.2 cm)</td>
</tr>
</tbody>
</table>

Half Ring Fukuda-type Retractor

Designed by Brett Sanders, MD

Modified fukuda designed to improve glenoid access and labral removal during arthroplasty.

Can be shifted medial-lateral or superior-inferior to facilitate posterior labral removal and relieve reamer impingement.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5168</td>
</tr>
<tr>
<td>Overall Length: 7.25&quot; (18.4 cm)</td>
</tr>
<tr>
<td>Blade Width: 1.25&quot; (32.5 cm)</td>
</tr>
<tr>
<td>Blade End Gap: 0.675&quot; (17.1 cm)</td>
</tr>
</tbody>
</table>

Modified Winged Fukuda Retractor

Designed by Scot Rheinecker, PA

Designed with flared edges for less pressure on soft tissues.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1896</td>
</tr>
<tr>
<td>Overall Length: 7.5 (19.1 cm)</td>
</tr>
<tr>
<td>Blade Width: 36 mm</td>
</tr>
<tr>
<td>Opening: 29 x 40 mm</td>
</tr>
</tbody>
</table>

Disposal LED Light Source

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>8010-01 Package of 1</td>
</tr>
<tr>
<td>Overall Length: 2.5&quot; (6.4 cm)</td>
</tr>
<tr>
<td>Diameter: 1&quot; (2.54 cm)</td>
</tr>
<tr>
<td>8010-10 Package of 10</td>
</tr>
</tbody>
</table>

Light Source Cable Adapters

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>8009-S [ACMI to Storz Adapter]</td>
</tr>
<tr>
<td>8009-W [ACMI to Wolf Adapter]</td>
</tr>
</tbody>
</table>

Half Ring Fukuda-type Retractor

Designed by Brett Sanders, MD

Modified fukuda designed to improve glenoid access and labral removal during arthroplasty.

Can be shifted medial-lateral or superior-inferior to facilitate posterior labral removal and relieve reamer impingement.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
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<tbody>
<tr>
<td>5168</td>
</tr>
<tr>
<td>Overall Length: 7.25&quot; (18.4 cm)</td>
</tr>
<tr>
<td>Blade Width: 1.25&quot; (32.5 cm)</td>
</tr>
<tr>
<td>Blade End Gap: 0.675&quot; (17.1 cm)</td>
</tr>
</tbody>
</table>

Evans Modified Fukuda-type Retractors

Designed by Peter J. Evans, MD

Designed to retract the humeral shaft posteriorly, helping to expose the entire glenoid surface.

Center groove allows a reamer shaft to fit more posteriorly.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5180-N [Narrow]</td>
</tr>
<tr>
<td>Overall Length: 8.625&quot; (21.9 cm)</td>
</tr>
<tr>
<td>Blade Width: 1&quot; (25.4 mm)</td>
</tr>
<tr>
<td>Blade Depth: 3.75&quot; (9.5 cm)</td>
</tr>
<tr>
<td>5180-W [Wide]</td>
</tr>
<tr>
<td>Overall Length: 8.625&quot; (21.9 cm)</td>
</tr>
<tr>
<td>Blade Width: 1.25&quot; (31.7 mm)</td>
</tr>
<tr>
<td>Blade Depth: 3.75&quot; (9.5 cm)</td>
</tr>
</tbody>
</table>
**Levy Anterior Glenoid Retractor**  
Designed by Jonathan Levy, MD  
Designed to help alleviate tension on anterior glenoid structures and the handle is designed to optionally be clamped to the drape  
**PRODUCT NO:** 4536  
Overall Length: 10.5” (26.7 cm)  
Depth from Bend: 5.875” (14.9 cm)  
Blade Width: .75” (1.9 cm)  
Tooth Gap: .325” (8.2 mm)
Capsule Retractors
Retractors for use in Bankart surgery
The single prong retractor is commonly used when retracting on the inferior rim of the glenoid. The two and three-prong retractors are designed to be placed medially along the scapular neck to retract the anterior capsule and labrum.

Humeral Head Retractor
Placed between the glenoid and the humeral head to obtain excellent exposure

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>PRODUCT NO</th>
<th>Description</th>
<th>Overall Length</th>
<th>Prong Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1008-01</td>
<td>[3 Prongs]</td>
<td>10” (25.4 cm)</td>
<td>30 mm</td>
</tr>
<tr>
<td>T1008</td>
<td>[2 Prongs]</td>
<td>10” (25.4 cm)</td>
<td>30 mm</td>
</tr>
<tr>
<td>T1009</td>
<td>[1 Prong]</td>
<td>10” (25.4 cm)</td>
<td>30 mm</td>
</tr>
</tbody>
</table>

Deltoid Retractor
Fits easily under the acromion, deltoid and over the humeral head
Used in most open procedures

PRODUCT NO:

<table>
<thead>
<tr>
<th>PRODUCT NO</th>
<th>Description</th>
<th>Overall Length</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1001</td>
<td></td>
<td>8” (20.3 cm)</td>
<td>30 mm</td>
</tr>
</tbody>
</table>

Kirschenbaum
Acromioplasty Retractor
Designed by Ira Kirschenbaum, MD
Helps to protect both the posterior aspect of the shoulder and the articular surface of the humeral head during open acromioplasty and rotator cuff surgery

PRODUCT NO:

<table>
<thead>
<tr>
<th>PRODUCT NO</th>
<th>Description</th>
<th>Overall Length</th>
<th>Blade Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>5840</td>
<td></td>
<td>9.25” (23.5 cm)</td>
<td>21 mm</td>
</tr>
</tbody>
</table>
Posterior Glenoid Neck Retractor
Used during osteotomy of the humeral head and approaches to the glenoid
- Designed to allow one finger retraction
- Contours to allow teeth to fit behind the glenoid, retracting tissue for easy access to the glenoid

Product No: T1002
Width: 30 mm
Overall Length: 10" (25.4 cm)

Anterior Glenoid Neck Retractor
Teeth are specifically designed to retract the subscapularis and capsule medially during a Bankart procedure
- The wide midsection retracts the soft tissue during anterior glenoid work
- The curved handle allows the assistant to use minimal pressure to achieve exposure

Product No: T1003
Width: 25 mm
Overall Length: 11" (27.9 cm)

Goldstein Glenoid Neck Retractor
Placed along the glenoid rim during open Bankart procedure to allow excellent exposure
- The convex teeth sit easily into the glenoid rim while the strong end of the shaft allows the instrument to stay out of the surgeon’s view

Product No: T1004
Blade Width at Teeth: 18 mm
Blade Width at Widest: 36 mm
Overall Length: 8.5" (21.6 cm)

Acromioplasty Retractor
Designed to retract and protect the humeral head during resection of the inferior acromial surface
The two prongs hook the posterior aspect of the acromion for retraction. The file is used to smooth rough edges of the acromion post-resection.

Product No: S3008
Overall Length: 9" (22.9 cm)
Blade Width: 18 mm
Burkhead Glenoid Retractor
Designed by Wayne Burkhead, MD

The retractor bar presses against the glenoid while the end of the retractor puts pressure on the posterior capsule.

**PRODUCT NO's:**
- 5839 [Large]
  - Overall Length: 9.125" (23.2 cm)
  - Blade Width at End: 1.5" (3.8 cm)
- 5839-SM [Small]
  - Overall Length: 8.75" (22.2 cm)
  - Blade Width at End: 1" (2.54 cm)

George Semi-Circumferential Glenoid Retractor
Designed by Michael S. George, MD

Designed to depress the humeral head and retract tissue away from the posterior half of the glenoid, helping to improve exposure for the preparation and placement of the glenoid component in total shoulder arthroplasty.

**PRODUCT NO:**
2435
- Overall Length: 8" (20.3 cm)
- Blade Width: 2.125" (5.4 cm)

Humeral Head Depressor
Designed by William J. Martin, MD

Used to help expose the glenoid fossa.

Placed over the humeral head and hooked around the posterior lip of the glenoid rim, to expose the glenoid fossa for total shoulder reconstruction and reconstructive stabilization procedures done through a standard delto-pectoral approach.

**PRODUCT NO:**
1520
- Overall Length: 8" (20.3 cm)

Bolanos Shoulder Retractor
Designed by Alberto Bolanos, MD

Designed for mini-open rotator cuff repairs and shoulder arthroplasty, the contour matches the humeral head and the rounded edge helps avoid trauma to surrounding musculature.

Depth matches girth of most patients, while the comfortable handle makes it easier for assistants to hold.

**PRODUCT NO:**
3222
- Overall Length: 7.5" (19.1 cm)
- Blade Width at Widest: 1" (2.54 cm)
Burkhead Reversible TSA/RSA Retractor
Designed by Wayne “Buzz” Burkhead, Jr, MD
Unique shape, angles and double pronged end serves to push the posterior capsule, and the humerus, away from the glenoid to allow preparation of the glenoid and implantation of component(s) without having to remove the retractor

PRODUCT NO: 5839-01
Overall Length: 9.125" (23.2 cm)
Blade Width at End: 1.5" (3.8 cm)

Bacastow Glenoid Retractors
Designed by David Bacastow, MD

Designed for glenoid exposure, particularly for reverse shoulder replacement applications, where it is important to get inferiorly
Allows visualization and direct access to the glenesphere base plate through a deltopectoral incision with intact pectoralis major insertion.

PRODUCT NO’S:
1897-L [Left]
Overall Length: 11.75" (29.8 cm)
1897-R [Right]
Overall Length: 11.75" (29.8 cm)

Agrawal Talon Retractor
Designed by Vivek Agrawal, MD

Designed to help facilitate glenoid exposure in total shoulder arthroplasty

PRODUCT NO: 4695
Overall Length: 7.875" (20 cm)
Blade Width: 40.7 mm

Chandler Retractor
Used for retracting tissue away from the bone
The handle is contoured away from the field of view and working area. Available in three blade sizes: 5/8", 3/4", and 1".
Carbon fiber material is strong, lightweight, completely radiolucent, helps to prevent from scratching component surfaces, and can be steam sterilized.

PRODUCT NO’S:
3220-01 [5/8"] (15.9 mm)
Overall Length: 9.125" (23.5 cm)
Blade Width: 16 mm
3220-02 [3/4"] (19 mm)
Overall Length: 9.125" (23.5 cm)
Blade Width: 19 mm
3220-04 [1"] (25.4 mm)
Overall Length: 9.125" (23.5 cm)
Blade Width: 25.4 mm
3220-02R* [Radiolucent 3/4"] (19 mm)
Overall Length: 9.125" (23.5 cm)
Blade Width: 19 mm
Mehalik
Posterior Glenoid Retractor with Long Handle
Designed in collaboration with Mayo Clinic, modified by John Mehalik, MD.
Designed to help expose the posterior aspect of the glenoid

PRODUCT NO:
1909
Overall Length: 13.2" (33.5 cm)
Access Hole Internal Diameter: 36 X 30 mm

McFarland Shoulder V Retractor
Designed by Edward McFarland, MD
Designed to provide deep access to the glenoid rim when performing a subscapularis splitting approach to the shoulder
Flushed to enhance visualization and room when placing sutures in the capsular flaps prior to placing three prong retractors.

PRODUCT NO:
4851
Overall Length: 9" (22.9 cm)
Length To Bend: 8.5" (21.6 cm)
Handle Length: 4" (10.2 cm)
Blade Depth: 2.75" (7 cm)
Blade Width: .625" (1 cm)

Meyerding Type Retractors with Ergonomic Handle
Designed for general use soft tissue retraction, the ergonomic handle allows for a better grip and less fatigue
Non-glare finish featured on the metal retractor parts.

PRODUCT NO'S:
6241 [50 x 16 mm]
Overall Length: 8.875" (22.5 cm)
Blade Width: 15 mm
Blade Depth: 50 mm

6242 [75 x 15 mm]
Overall Length: 9" (22.9 cm)
Blade Width: 15 mm
Blade Depth: 75 mm

6243 [75 x 25 mm]
Overall Length: 9" (22.9 cm)
Blade Width: 25 mm
Blade Depth: 75 mm

Rake Retractors with Ergonomic Handle
Designed for general use soft tissue retraction

PRODUCT NO'S:
4839 [3-Prong]
Overall Length: 9.5" (24.1 cm)
Rake Width: 13 mm
Rake Depth: 14 mm

4840 [4-Prong]
Overall Length: 9.5" (24.1 cm)
Rake Width: 19 mm
Rake Depth: 14 mm

NEW!
Contoured to match the curve of the deltoid, the retractor helps to retract the entire deltoid laterally during the deltopectoral approach. The width approximates 2/3 the length of the deltoid, while the blade is deep enough to help control the entire deltoid without displacement of the tuberosity reduction. Sized to fit deltoids in small and large patients.

**Levy Wide Deltoid Retractor**

Designed for management of proximal humerus fractures—facilitates appropriate deltoid retraction without interference during active fluoroscopy

**PRODUCT NO:**

1672

- Overall Length: 11.75” (29.8 cm)
- Blade at Widest: 2.5” (6.4 cm)
- Blade Depth: 1.375” (3.5 cm)

Contoured to match the curve of the deltoid, the retractor helps to retract the entire deltoid laterally during the deltopectoral approach. The width approximates 2/3 the length of the deltoid, while the blade is deep enough to help control the entire deltoid without displacement of the tuberosity reduction. Sized to fit deltoids in small and large patients.

**Kaminsky Radiolucent Browne-type Deltoid Retractors**

Used for the Delto-Pectoral Approach—can remain in place for fracture reduction, plate positioning, and screw/wire/drill location confirmation

Contours the humeral head with deltoid retraction allowing extensive exposure. Helps to reduce operative time, assist in fracture reduction, and maintain hardware position without the frequent need for retractor removal and reintroduction. Also helps to prevent from scratching component surfaces.

**PRODUCT NO’S:**

1670-01R [Small]
- Blade Width: 45 mm
- Overall Length: 11.5” (29.2 cm)

1670-02R [Large]
- Blade Width: 57 mm
- Overall Length: 11.5” (29.2 cm)

Made of lightweight carbon fiber PEEK composite material—strong, completely radiolucent, and can be steam sterilized

**Browne Deltoid Retractor**

Used for the Delto-Pectoral Approach

Contours the humeral head with effortless deltoid retraction allowing extensive exposure.

**PRODUCT NO’S:**

1670-01 [Small]
- Blade Width: 45 mm
- Overall Length: 11.5” (29.2 cm)

1670-02 [Large]
- Blade Width: 57 mm
- Overall Length: 11.5” (29.2 cm)
Horseshoe Shoulder Frame and Blade Assembly

Designed to enhance exposure during shoulder arthroplasty procedures

PRODUCT NO’S:

2030-00 [Set] Includes the frame and the five blades

Also available individually:

2030-01 [Horseshoe Frame]
Overall Dimensions: 7.5” x 5” (19 cm x 12.7 cm)
Frame Width: .7” (15 mm)

2030-02 [Blade – Wide]
Blade Width: 22 mm
Overall Length: 11” (27.9 cm)

2030-03 [Blade – Narrow]
Blade Width: 14 mm
Overall Length: 11” (27.9 cm)

2030-04 [Blade – Narrow, Bent]
Blade Width: 14 mm
Overall Length: 10” (25.4 cm)
Handle Length: 4.5” (11.4 cm)

2030-05 [Blade – Small Narrow]
Blade Width: 16 mm
Blade Depth: 2”
Overall Length: 11.5” (29.2 cm)

2030-06 [Blade – Inferior]
Blade Width: Outside 34 mm, Inside 24 mm
Overall Length: 11.5” (29.2 cm)
Prong Length: 28 mm

McFarland Malleable Shoulder Retractors

Designed by Edward McFarland, MD

Designed to enhance exposure in shoulder procedures

PRODUCT NO’S:

4537-00 [Set of Three Sizes]

Also available individually:

4537-01 [Narrow Deep]
Overall Length: 15.5” (39.4 cm)
Prong Depth: 10 mm

4537-02 [Narrow Shallow]
Overall Length: 15.5” (39.4 cm)
Prong Depth: 6.8 mm

4537-03 [Wide]
Overall Length: 15.5” (39.4 cm)
Prong Depth: 13.5 mm

McFarland Bent Cobb Elevator

Designed by Edward McFarland, MD

Designed for retraction while helping to protect the axillary nerve in shoulder surgery

Ultra hard titanium nitride coating helps to help prolong sharpness.

PRODUCT NO:

3431
Overall Length: 9.5” (24.1 cm)
Length from Bend: 3.5” (8.9 cm)
Cobb End Width: 8” (20 mm)
Angle of Bend: 30°
**Designed to help place tension on the inferior capsule for improved visualization and dissection when performing anatomic or reverse shoulder replacement**

Rotating arms allow left or right use. Can be used in conjunction with Axillary Nerve Retractor with Suction (#8739 – Page 4) for additional safety.

**Durham Offset Zelpi Retractor**

Staggered depth retractor designed for exposure during total hip and total shoulder surgery

- In hip surgery, with the handle towards the surgeon, the longer leg is on the inside
- In shoulder surgery, with the handle downward, the longer leg is on the outside
- The longer leg extends 1.1" (2.8 cm) deeper

**Bacastow Shoulder Capsular Retractor**

Designed by David Bacastow, MD

**Durham Offset Zelpi Retractor**

Designed by Alfred Durham, MD

**Gerber Sub-Acromion Spreaders**

Designed to gain optimal access to the subacromion space

- Designed to gain optimal access to the subacromion space by distracting inferiorly the humeral head from the acromion.

**Hendren Self-Retaining Retractor**

Designed by D.H. Hendren, MD

**Gentle on tissue and very effective in holding back subcutaneous fat**

Also useful for retracting the deltoid muscle firmly.

**Gerber Sub-Acromion Spreaders**

Designed by David Bacastow, MD

**Designed to gain optimal access to the subacromion space**

**PRODUCT NO’S:**

- **Standard**
  - 1640-01 [Right] 
    - Blade Length: 19 mm 
    - Inside Ring Dia.: 32 mm 
    - Overall Length: 7" (17.8 cm) 
  - 1640-02 [Left] 
    - Blade Length: 19 mm 
    - Inside Ring Dia.: 32 mm 
    - Overall Length: 7" (17.8 cm)

- **Modified**
  - 1641-01 [Right] 
    - Blade Length: 34 mm 
    - Inside Ring Dia.: 25 mm 
    - Overall Length: 7" (17.8 cm) 
  - 1641-02 [Left] 
    - Blade Length: 34 mm 
    - Inside Ring Dia.: 25 mm 
    - Overall Length: 7" (17.8 cm)

**Hendren Self-Retaining Retractor**

Designed by D.H. Hendren, MD

**Gentle on tissue and very effective in holding back subcutaneous fat**

Also useful for retracting the deltoid muscle firmly.

**PRODUCT NO:**

- 1745 
  - Overall Length: 5.5" (14 cm) 
  - Blade Size: 16 mm x 13 mm
Modified Kolbel Self-Retaining Glenoid Retractor with Hinge

Two pairs of snap-in, freely pivoting blades included.

**PRODUCT NO’S:**

| T1014-01 | Set – Standard Handle |
| T1014-01-2F | Set – Ergonomic Handle |

Set includes:

| T1015-01 | Retractor – Standard Handle |
| T1015-01-2F | Retractor – Ergonomic Handle |

Overall Length: 8.25” (21 cm)
Length-to-hinge: 6” (15.2 cm)
Arm Length: 2.25” (5.7 cm)

—or—

| T1018-P | Blades – Pair | 36 mm X 36 mm |
| T1019-P | Blades – Pair | 36 mm X 53 mm |

Kolbel Self-Retaining Glenoid Retractor

Two pairs of snap-in, freely pivoting blades included.

**PRODUCT NO’S:**

| T1014 | Set – Standard Handle |
| T1014-2F | Set – Ergonomic Handle |

Set includes:

| T1015 | Retractor – Standard Handle |
| T1015-2F | Retractor – Ergonomic Handle |

Overall Length: 8.25” (21 cm)
Length-to-hinge: 7” (17.8 cm)
Arm Length: 2.25” (5.7 cm)

—or—

| T1018-P | Blades – Pair | 36 mm X 36 mm |
| T1019-P | Blades – Pair | 36 mm X 53 mm |

Kolbel Self-Retaining Glenoid Retractor with Center Blade

Center blade can be reversed for shallow or deep retraction

Two pairs of snap-in, freely pivoting blades included.

**PRODUCT NO’S:**

| T1015 | Retractor – Standard Handle |
| T1015-2F | Retractor – Ergonomic Handle |

Overall Length: 9.25” (23.5 cm)
Length-to-hinge: 6” (17.8 cm)
Arm Length: 2.25” (5.7 cm)

—or—

| T1018-P | Blades – Pair | 36 mm X 36 mm |
| T1019-P | Blades – Pair | 36 mm X 53 mm |

Kolbel Self-Retaining Retractor

Two pairs of snap-in, freely pivoting blades included.

**PRODUCT NO’S:**

| T1014 | Set – Standard Handle |
| T1014-2F | Set – Ergonomic Handle |

Set includes:

| T1015 | Retractor – Standard Handle |
| T1015-2F | Retractor – Ergonomic Handle |

Overall Length: 8” (20.3 cm)
Length-to-hinge: 4” (10.2 cm)
Arm Length: 2.25” (5.7 cm)

—or—

| T1018-P | Blades – Pair | 36 mm X 36 mm |
| T1019-P | Blades – Pair | 36 mm X 53 mm |

---

**PRODUCT NO’S:**

| T1050 | Set – Standard Handle |
| T1050-2F | Set – Ergonomic Handle |

Set includes:

| T1050-01 | Retractor – Standard Handle |
| T1050-02 | Retractor – Ergonomic Handle |

Overall Length: 8” (20.3 cm)
Length-to-hinge: 6.25” (15.9 cm)
Depth: 2.5” (6.4 cm)

—or—

| T1018-P | Blades – Pair | 36 mm X 36 mm |
| T1019-P | Blades – Pair | 36 mm X 53 mm |

*MADE EXCLUSIVELY FOR INNOMED IN SWITZERLAND*
Two pairs of snap-in, freely pivoting blades included.

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1016-01 [Set]</td>
<td>Designed for retraction of the deltoid and under the short head of the biceps muscle to expose the shoulder, the longer offset blades are useful in patients with large muscles, and the shorter offset blades are useful in smaller elderly patients.</td>
<td>Design by Alfred A. Durham, MD</td>
</tr>
<tr>
<td>T1018-P [Blades–Pair]</td>
<td>36 mm X 36 mm 35 mm Offset</td>
<td>36 x 36 mm 10 mm Offset</td>
</tr>
</tbody>
</table>

**Kolbel Self-Retracting Glenoid Retractor with Hinge and Double Ergonomic Handle**

**PRODUCT NO**: T1030 [Set]
- Set includes: (1) T1030-01, (2) T1030-L, (2) T1030-S
- Also available individually:
  - T1030-01 [Retractor Handle]
    - Overall Length: 7" (17.8 cm)
  - T1030-L [Long Offset Blade]
    - (2) included in set, (1) only with this product number
    - Offset Length: 35 mm
    - Blade Dimensions: 36 x 36 mm
  - T1030-S [Short Offset Blade]
    - (2) included in set, (1) only with this product number
    - Offset Length: 10 mm
    - Blade Dimensions: 36 x 36 mm

**Durham Offset Kolbel Shoulder Retractor Set**

**Designed for retraction of the deltoid and under the short head of the biceps muscle to expose the shoulder, the longer offset blades are useful in patients with large muscles, and the shorter offset blades are useful in smaller elderly patients**

Snap-in, freely pivoting smooth curved blades help to concentrate the forces on the center of the muscle bellies, allowing the retractor to remain centered and not get in the way of exposure.

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1006 [Standard]</td>
<td>Designed for retraction on deltoid split incisions on mini-open rotator cuff repairs. Jaws and arms are parallel with no gap when closed to allow easier insertion in tight spaces.</td>
<td>Designed by Philip Havens, MD</td>
</tr>
<tr>
<td>T1006-02</td>
<td>Overall Length: 7.5&quot; (19.1 cm)</td>
<td>Opens To: 4.5&quot; (11.4 cm)</td>
</tr>
<tr>
<td>T1006-L [Long]</td>
<td>Overall Length: 8.5&quot; (21.8 cm)</td>
<td>Prong Depth: 18 mm</td>
</tr>
</tbody>
</table>

**Kolbel Soft Tissue Retractors**

**Helps in the early phase to retract soft tissue comprising of the gleno-humeral joint**

Use facilitates the introduction of deeper retractors which are required for sufficient visibility of the gleno, acromion and rotator cuff.

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1006-01 [Deep]</td>
<td>Overall Length: 7.5&quot; (19.1 cm)</td>
<td></td>
</tr>
<tr>
<td>T1006-L [Long]</td>
<td>Overall Length: 8.5&quot; (21.8 cm)</td>
<td></td>
</tr>
</tbody>
</table>

**Havens Modified Kolbel Soft Tissue Retractor**

**Designed by Philip Havens, MD**

Designed for retraction on deltoid split incisions on mini-open rotator cuff repairs.
Subscapularis Spreader
Reaches deep to help split the subscapularis in a Jobe approach
Also used for retracting a split deltoid in mini rotator cuff repairs.

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>T1005  [Standard]</td>
<td>Overall Length: 8.375&quot; (21.3 cm)</td>
</tr>
<tr>
<td>T1005-L  [Long]</td>
<td>Overall Length: 9.25&quot; (23.5 cm)</td>
</tr>
</tbody>
</table>

Right Angled Subscapular Spreader – Blunt Tips
Designed by Edward McFarland, MD
Designed to hold the subscapularis muscle open when performing a subscapularis split approach to the glenoid

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1652</td>
<td>Overall Length: 7.5&quot; (19.1 cm) Blade Depth: 2&quot; (5.1 cm)</td>
</tr>
</tbody>
</table>

Humeral Protection Plates
Designed by Ronald E. Delanois, MD
Helps protect the proximal humerus from fracture after humeral head osteotomy
Plate is placed on the proximal humerus after the initial osteotomy of the humeral head for total shoulder replacement. Helps protect the proximal humerus from fracture as the humerus is retracted to gain visualization of the glenoid to prepare it for a glenoid implant.

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5259-01  [46mm]</td>
<td></td>
</tr>
<tr>
<td>5259-02  [50mm]</td>
<td></td>
</tr>
</tbody>
</table>
Flat Gelpi Retractors
Designed to help retract a broader area of soft tissue or muscle

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Overall Length: 6.5&quot; (16.5 cm)</th>
<th>Prong Depth: 1.25&quot; (3.2 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4191 [Small]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4192 [Medium]</td>
<td>Overall Length: 7.25&quot; (18.4 cm)</td>
<td>Prong Depth: 1.75&quot; (4.4 cm)</td>
</tr>
<tr>
<td>4193 [Large]</td>
<td>Overall Length: 9&quot; (22.9 cm)</td>
<td>Prong Depth: 3&quot; (7.6 cm)</td>
</tr>
<tr>
<td>4194 [Deep]</td>
<td>Overall Length: 10&quot; (24.4 cm)</td>
<td>Prong Depth: 5&quot; (12.7 cm)</td>
</tr>
</tbody>
</table>

The two largest sizes feature an ergonomic handle for increased comfort and control.

Suprascapular Ligament Cutter
Designed by Michael Craig, OPA-C

Designed to cut the transverse ligament while helping to protect the suprascapular nerve

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Overall Length: 11.25&quot; (28.6 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1794</td>
<td></td>
</tr>
</tbody>
</table>

Argintar Bicep Tenodesis Sleeve
Designed by Evan Argintar, MD

Designed to help facilitate mini-open subpectoral bicep tenodesis—by maintaining the trajectory of the drill with the serrated end of the sleeve, the drilled humeral holes are easily found with standard percutaneous placement of the bicortical button

Once flipped, the slotted cut out in the sleeve makes detachment of the button applicator possible, helping with efficient and reproducible mini-open bicep tenodesis using button technique.
The osteotomized coracoid is fixed with the lateral, joint-facing side of the coracoid (where the ligament is) facing the flange of the drill-guide. Two 3.5 mm guiding holes are drilled. The drill guide is held against the antero-inferior glenoid, the flange sitting on the cartilage, and the first 2.5 mm thread hole for screw fixation is drilled. The second 2.5 mm thread hole is drilled parallel to a 2.5 mm pin that has been inserted in the first hole to ensure correct distance and orientation. The coracoid is now fixated using two 3.5 mm or 4.5 mm screws flush with the cartilage, due to the identical distance between flange and screw holes on coracoid and glenoid.

**Coated Inserter for Reverse Shoulder Glenosphere Components**

*Designed by Michael Radon, MD, Voloshin, MD, and Nathan Mines*

Designed to aid in the insertion of glenospheres in limited exposure patients, allowing for insertion from the side, and coated to help protect marring component surfaces.

**PRODUCT NO**: 5071

- **Overall Length**: 9.5" (24.1 cm)
- **Inserter Arm Angle**: 30°
Glenoid Inserter
Designed by Chase Kuhn & J. Kevin Rudder, MD
Designed for final implantation of the glenoid prosthesis into the body
Grasping ends are coated to help protect from scratching the component surfaces.

Burkhead Glenoid Inserter
Designed by Wayne “Buzz” Burkhead, Jr, MD, Michael Radon, and Aaron Merges
Designed to help insert a glenoid component
PRODUCT NO: 4689
Overall Length: 9.875” (25.1 cm)

Resnick Small Bone Tamp with Oblique K-Wire Hole
Designed by Charles Resnick, MD
Design allows for the concurrent reduction of a fracture and placement of a wire into the fracture site — especially helpful when the surgical exposure is small and tight, the fracture fragments are small, and the reduction is demanding

Before
After

The serrated distal end minimizes slippage on the cortical surface, does not interfere with the placement of the guidewire and allows for subsequent surgeon-decided, intraoperative angulation of the wiring once the first cortex is drilled
Especially useful in fractures where there is involvement of an articular surface, for example, mallet fractures of the distal phalans, articular fractures that involve ligamentous attachments or tendon attachments of the phalanges, scaphoid pole small fracture fragments or other small carpal fractures, and radial styloid fractures

TWO SIZES AVAILABLE:
Wire Hole for K-wires up to 1.1 mm (.045”) or 1.6 mm (.062”)

PRODUCT NO’S:
5294 [1.2 mm Hole] Wire Hole for: 1.2 mm (.045”) K-Wire
Overall Length: 7.5” (19.1 cm)
Shaft Diameter: 6.3 mm
End Diameter: 2.5 mm

5294-01 [1.6 mm Hole] Wire Hole for: 1.6 mm (.062”) K-Wire
Overall Length: 7.5” (19.1 cm)
Shaft Diameter: 6.3 mm
End Diameter: 2.5 mm
**Calvo Olecranon Reducing Forceps**

Designed by Ignacio J. Calvo, MD

*Designed to reduce and hold in place transverse fractures of the olecranon to facilitate the insertion of k-wires and tension bands*

Also very useful in malleolus fractures.

**Durkan Ratchet Bone Clamps**

Designed by John Durkan, MD

*Design of ratcheting mechanism allows for quick tightening and release around the bone*

**Angled Lowman-Type Bone Clamp**

Designed by John McLeod, Jr., MD

*Angled for easier insertion of the jaws around the bone*

The offset distance between the jaws and handle of the clamp allow space for free and easy access to use a drill or screwdriver. The angled clamp and more-open and thinner jaws facilitate easier use in deep incisions. The angled shaft also acts as a self-retaining retractor. The tightening handle is scalloped to lessen slippage when tightening or untightening.

**Bargo Bone Holding Clamp**

Designed by Lonnie Bargo, CST/CFA

*Designed to aid in the reduction of various fractures, and can help secure a plate in place during installation*
Fracture Reduction Punch Clamp
Designed by Jong-Keon Oh, MD
Designed for use in select cases when vertical (or sagittal) plane clamping is necessary during forearm reduction, humeral fracture reduction, or diaphyseal reduction of the tibial shaft

**PRODUCT NO:**
5072
Overall Length: 10.5" (26.7 cm)
Point to Point Opening:
- Minimum: .375" (10 mm)
- Maximum: 1.375" (35 mm)
Pin Diameter: .125" (3.2 mm)

Stoll Bone Plate Clamp
Designed by Jordan Stoll, MD
Designed to help hold a bone or bone plate in position for reduction and fixation—helpful with clavicle and fibula fractures

**PRODUCT NO:**
1774
Overall Length: 10" (25.4 cm)

Browner MIS Bone Clamp
Designed by Bruce D. Browner, MD
Designed to help hold a bone or bone plate for fixation, the clamp is inserted anterior to the bone, rotated to wrap around the bone, then screwed into the desired position
Sized to allow use on a femur, tibia or humerus.

**PRODUCT NO:**
1379
Overall Length: 9.25" to 11.5" (23.5 to 29.2 cm)
Maximum Bone Diameter: ~ 35 mm

Fracture Reduction Punch Clamp
Designed by Jong-Keon Oh, MD
Designed for use in select cases when vertical (or sagittal) plane clamping is necessary during forearm reduction, humeral fracture reduction, or diaphyseal reduction of the tibial shaft

**PRODUCT NO:**
5072
Overall Length: 10.5" (26.7 cm)
Point to Point Opening:
- Minimum: .375" (10 mm)
- Maximum: 1.375" (35 mm)
Pin Diameter: .125" (3.2 mm)

Pivoting pads accommodate metaphyseal fractures
The quick release enables adjustment without losing reduction
Helps provide provisional reduction of diaphyseal fractures – humeral shaft fractures, tibial fractures

Chen Diaphyseal Fracture Reduction Clamp
Designed by Franklin Chen, MD
Designed to facilitate and maintain reduction of the internal fixation of diaphyseal and meta-diaphyseal fractures of long bones
Works especially well with short oblique bones while providing room to implement the plate with this bone clamp still in place.

**PRODUCT NO:**
1806
Overall Length: 9.25" (23.5 cm)
Arm Downward Offset: 15 mm
Pad Dimensions: 1" x .375" (2.54 cm x 1 cm)
Teeth in jaw firmly holds bone and tissue
Non-locking design can be easily gripped while allowing greater pressure to be applied. Available in three jaw sizes: short jaw for holding bone, medium jaw for smaller bones, and long jaw for tissue.

Hannum Tissue Grasper
Designed by Scott Hannum, MD

Cartilage Graspers
Helps to grasp and hold cartilage, tendons, soft tissues and loose bodies
Shaft allows for use in narrow spaces.

Soudry Loose Body Grasper
Designed by Michael Soudry, MD

Designed to help with the removal of soft tissue loose bodies in arthroscopy and open procedures.
Mazzara Rongeur with Small Pistol Grip Handle

Designed by James T. Mazzara, MD

Designed for bone and soft tissue removal in small joint surgery, the small pistol grip handle lessens hand fatigue and slippage, and allows for better visualization.

**PRODUCT NO’S:**

| 1765-04 | Jaw Bite: 2 x 10 mm | Overall Length: 9” (22.9 cm) |
| 1765-05 | Jaw Bite: 4 x 10 mm | Overall Length: 9” (22.9 cm) |

Shark Tooth Grasping

Designed by Luis Ulloa

*Sharp teeth help grasp onto tissue and bone*

Helpful in removing the labrum, and osteophytes around the acetabulum and around the glenoid. Also helps to remove meniscus, osteophytes and loose bodies. Helps facilitate working through a small incision without disrupting vision.

**PRODUCT NO’S:**

| 1797 [5" Shaft] | Jaw Size: 6 mm x 10 mm | Overall Length: 8” (20.3 cm) |
| 1798 [7" Shaft] | Jaw Size: 6 mm x 10 mm | Overall Length: 10” (25.4 cm) |
| 1799 [9" Shaft] | Jaw Size: 6 mm x 10 mm | Overall Length: 12” (30.5 cm) |
| 1796 [12" Shaft] | Jaw Size: 6 mm x 10 mm | Overall Length: 15” (38.1 cm) |

Powers Modified Kocher Clamps

Designed by Mark Powers, MD

*Heavier design allows for a firmer grasping of bone and soft tissues*

**PRODUCT NO’S:**

| 1813 (Tapered Jaw) | Overall Length: 8.25” (21 cm) |
| 1813-01 (Tapered Narrow Jaw) | Overall Length: 8.25” (21 cm) |
| 1814 (Square Jaw) | Overall Length: 8.25” (21 cm) |
**Product No’s:**

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
<th>Overall Length</th>
<th>Jaw.Opening</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4697-00</td>
<td>[Set with Case]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1755</td>
<td>[Clamp – Symmetric]</td>
<td>8.5&quot; (21.6 cm)</td>
<td>3&quot;</td>
<td>5&quot;</td>
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<tr>
<td>1756-L</td>
<td>[Clamp – Asymmetric Left]</td>
<td>8.75&quot; (22.2 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1756-R</td>
<td>[Clamp – Asymmetric Right]</td>
<td>8.75&quot; (22.2 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4697</td>
<td>[Elbow Retractor]</td>
<td>6.5&quot; (16.5 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1015</td>
<td>[Sterilization Case]</td>
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<td></td>
</tr>
</tbody>
</table>

**Lateral Condyle Fracture Set**

*Designed for adult and pediatric lateral condyle fractures*

**Elbow Retractor**

Designed for use within the elbow joint to retract the anterior capsule, and provide full exposure of the anterior articular surface for reduction and fixation of displaced lateral condyle fractures. The small blunt tips hooks over the intact medial condyle.

**Symmetric Reduction Clamp**

Useful to compress T-condylar fractures, and in many other fracture reduction applications. The stops on each end help prevent excessive penetration of metaphyseal and soft bone.

**Asymmetric Reduction Clamps – Left and Right**

Shaped to secure the lateral condyle fragment. The straight tip is placed in the coronoid fossa and the curved tip is used to grasp and compress the lateral condyle fragment. The stops on each end help prevent excessive penetration of metaphyseal and soft bone.

**Product No’s:**

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
<th>Overall Length</th>
<th>Jaw.Opening</th>
<th>Handle Length</th>
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</thead>
<tbody>
<tr>
<td>5834-00</td>
<td>[Set – Retractor &amp; Two Blades]</td>
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<tr>
<td>5834-01</td>
<td>[Blade]</td>
<td>6.375&quot; (16.2 cm)</td>
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<tr>
<td>5834-02</td>
<td>[Self-retaining Retractor]</td>
<td>7.5&quot; (19.1 cm)</td>
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<td></td>
</tr>
</tbody>
</table>

**Beard Distal Bicep Retractor**

*Designed to help optimize surgical exposure during anterior single incision distal biceps tendon reinsertion*

The blade design features an anatomically contoured distal end to hug the radius cortex. The smooth distal end helps to avoid deep penetration, and the width matches the width of the distal biceps tendon insertion site. The narrow curved handle design helps to optimize workspace and visualization.

**Product No’s:**

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
<th>Overall Length</th>
<th>Jaw.Opening</th>
<th>Handle Length</th>
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<tr>
<td>5078</td>
<td>[Standard]</td>
<td>10.5&quot; (26.7 cm)</td>
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<td>5&quot;</td>
</tr>
<tr>
<td>5078-01</td>
<td>[Long]</td>
<td>13.375&quot; (34 cm)</td>
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<td>6&quot;</td>
</tr>
</tbody>
</table>

**Free Trial on Most Instruments**

WWW.INNOMED.NET

Sold as a set, or available individually for replacement.
Distal Humerus Fracture Board
Designed by Burk Young, MD

**Designed for the pinning of pediatric supracondylar and adult distal humerus fractures**

Allows the surgeon to pin these fractures without having to manually hold the fracture reduced, allowing the surgeon to focus on accurate pin placement and reduction. The height of the crossbar is fully adjustable to accommodate different size patients. Reduction is achieved by an assistant gently applying axial traction through the forearm, with the crossbar applying the counter traction. Pinning is done with the C-arm in the lateral position. An optional separate attachment to support the arm for distal humerus fractures in adults is available. Unit not sterilizable.

**PRODUCT NO’S:**

| 2445 [Fracture Board – Pediatric] |
| Main Board Dimensions: 22” x 12” (55.9 x 30.5 cm) |
| Crossbar Height Adjusts From: 4.5” to 7.5” (11.4 x 19.1 cm) |

| 2445-01 [Fracture Board – With Adult Adapter] |
| Optional/Replacement Part: |
| 2445-06 [Adult Adapter] |

---

Auerbach Arm Holder Rake Retractor Set
Designed by David M. Auerbach, MD

**Allows intraoperative positioning for procedures of the posterior arm, elbow, and forearm**

Simple design for fast and easy positioning
- Connects over the drape in the sterile field using the supplied rail clamp and post
- Can be repositioned during surgery
- Sterilizable rubber pad protects the arm
- Retractors for the skin and soft tissues connect to the holder
- Compact for easy storage

**PRODUCT NO’S:**

| 2415-00 [Auerbach Arm Holder Rake Retractor Set] |
| Individual/Replacement Parts: |
| 2415-01 [Auerbach Arm Holder Assembly] |
| Overall Length: 20” (50.4 cm) |
| Arm Holder Dimensions: 14.5” x 4” (36.9 x 10.2 cm) |
| Overall Width including Cleats: 7.5” (19.1 cm) |
| 2415-02 [Auerbach Arm Holder Upright Rod] |
| Overall Length: 19.25” (49.9 cm) |
| 2415-04 [Auerbach Rake Chain Retractor 4-Prong] |
| Two included in set, one with this product number |
| Overall Length including Chain: 10” (25.4 cm) |
| Retractor Width: 1.25” (3.2 cm) |
| 2415-06 [Auerbach Rake Chain Retractor 6-Prong] |
| Two included in set, one with this product number |
| Overall Length including Chain: 10” (25.4 cm) |
| Retractor Width: 1.25” (3.2 cm) |
| 2590-S01 [Black Strap] |
| Two included in set, one with this product number |
| Dimensions: 1” x 24” (2.5 x 61 cm) |
| 2595 [Table Clamp] |
| 2770-P [Silicone Pad] |

**Optional/Replacement Parts:**

| 2415-02 [Auerbach Arm Holder Upright Rod] |
| 2415-04 [Auerbach Rake Chain Retractor 4-Prong] |
| 2415-06 [Auerbach Rake Chain Retractor 6-Prong] |
| 2590-S [Black Straps] Pkg of 10 |
| 2595 [Table Clamp] |

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**PRODUCT NO’S:**

| 2445 [Fracture Board – Pediatric] |
| Main Board Dimensions: 22” x 12” (55.9 x 30.5 cm) |
| Crossbar Height Adjusts From: 4.5” to 7.5” (11.4 x 19.1 cm) |

| 2445-01 [Fracture Board – With Adult Adapter] |
| Optional/Replacement Part: |
| 2445-06 [Adult Adapter] |

---

**PRODUCT NO’S:**

| 2445 [Fracture Board – Pediatric] |
| Main Board Dimensions: 22” x 12” (55.9 x 30.5 cm) |
| Crossbar Height Adjusts From: 4.5” to 7.5” (11.4 x 19.1 cm) |

| 2445-01 [Fracture Board – With Adult Adapter] |
| Optional/Replacement Part: |
| 2445-06 [Adult Adapter] |

---

**PRODUCT NO’S:**

| 2445 [Fracture Board – Pediatric] |
| Main Board Dimensions: 22” x 12” (55.9 x 30.5 cm) |
| Crossbar Height Adjusts From: 4.5” to 7.5” (11.4 x 19.1 cm) |

| 2445-01 [Fracture Board – With Adult Adapter] |
| Optional/Replacement Part: |
| 2445-06 [Adult Adapter] |
# OrthoVise™

## Product No's:

### Standard Large

- **OrthoVise™ Length:** 10” (25.4 cm)
- **3980** with Attachment Bolts (two sides & end)
- **3980-01** with Attachment Bolts (two sides & end) without Slap Hammer
- **3981** without Attachment Bolts without Slap Hammer with End Attachment Nut that accepts a Standard Slap Hammer (#3925 or #3926)

### Long Nose Large

- **OrthoVise™ Length:** 12” (30.5 cm)
- **3965** with Attachment Bolts (two sides & end)
- **3965-01** with Attachment Bolts (two sides & end) without Slap Hammer

### Long Nose Large Bent Jaw

- **OrthoVise™ Length:** 11.5” (29.2 cm)
- **3966** with Attachment Nut (end) with Standard Slap Hammer (#3925)
- **3966-01** without Slap Hammer with Attachment Nut (end) that accepts a Standard Slap Hammer (#3925 or #3926)

### Standard Small

- **OrthoVise™ Length:** 8” (20.3 cm)
- **3985** without Attachment Bolt without Slap Hammer
- **3985-01** with Attachment Bolt (end) with Small OrthoVise™ Slap Hammer (#3955)

### Long Nose Small

- **OrthoVise™ Length:** 9.5” (24.1 cm)
- **3975** without Attachment Bolt without Slap Hammer
- **3975-01** with Attachment Bolt (end) with Small OrthoVise™ Slap Hammer (#3955)

### Slap Hammers

- **3950** Slap Hammer for Large OrthoVise™
  - For use with: 3965’s, 3960’s, 3981
  - Overall Length: 16.5” (41.9 cm)
- **3955** Slap Hammer for Small OrthoVise™
  - For use with: 3975’s, 3985’s
  - Overall Length: 8.75” (22.2 cm)
- **3925** Standard Slap Hammer w/16” Rod
  - For use with: 3966’s
  - Overall Length: 16” (40.7 cm)
- **3926** Easy Grip Slap Hammer w/16” Rod
  - For use with: 3966’s
  - Overall Length: 16” (40.7 cm)

### Threaded Adapters

- **3980-02** Small Adapter
  - Converts Male End of a Slap Hammer to Female
- **3980-03** Threaded Adapting Screw – Large
  - For use with: 3965’s, 3985’s, 3980’s, 3981
- **3985-03** Threaded Adapting Screw – Small
  - For use with: 3975’s, 3985’s

## Features

- Made of stainless steel
- Models equipped with attachment bolts allow a slap hammer to be attached to the end, as well as to either side of the large OrthoVise™ (except Bent Jaw models), for greater adaptability
- Bent Jaw models are not available with side attachment bolts, but have an end attachment nut to accept a Standard Slap Hammer (#3925 or #3926)
- A different size slap hammer is used for the large and small sizes of OrthoVise™
- Slap Hammers are designed with a hammer plate for the additional use of a mallet if desired

## Threaded Adapters

Small Adapter allows a Standard Slap Hammer (#3925 or #3926) to be used with any Large OrthoVise™ with Attachment Bolts only. (Cannot be added on later.)

Made exclusively for Innomed in Germany

Made of stainless steel

Models equipped with attachment bolts allow a slap hammer to be attached to the end, as well as to either side of the large OrthoVise™ (except Bent Jaw models), for greater adaptability

Bent Jaw models are not available with side attachment bolts, but have an end attachment nut to accept a Standard Slap Hammer (#3925 or #3926)

A different size slap hammer is used for the large and small sizes of OrthoVise™

Slap Hammers are designed with a hammer plate for the additional use of a mallet if desired

FREE TRIAL ON MOST INSTRUMENTS

WWW.INNOMED.NET
**Whelan Flexible Chisel Guide**

*Designed by E. J. Whelan, III, MD*

**Designed to help stabilize a thin chisel blade until it’s within the bone prosthesis interface**

Guide with sliding handle helps to stabilize a thin flexible chisel blade until it’s within the bone prosthesis interface. Chisel tip lets it hug the prosthesis to help prevent perforation. Slap hammer threads into the handle and is designed to facilitate blade removal. Easily changeable disposable blades help assure sharpness.

---

**Modified Lambotte Osteotomes**

*Designed with a striking platform, plus a cross-bar hole to help control rotational stability and assist with removal*

Six (6) sizes available, from 1/4” to 1-1/2” in 1/4” increments. Cross-bar and case included in complete set. Two smallest sizes have an 1/8” hole in which an 1/8” pin can be used as a cross bar (not included).

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Overall Length</th>
<th>Osteotome Width</th>
<th>Blade Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>5350-00</td>
<td>Complete Set</td>
<td>9” (22.9 cm)</td>
<td>1.25” (31.75 mm)</td>
<td></td>
</tr>
<tr>
<td>5350-25</td>
<td>1/4” (6 mm)</td>
<td>9” (22.9 cm)</td>
<td>0.25” (6.35 mm)</td>
<td>4 mm</td>
</tr>
<tr>
<td>5350-50</td>
<td>1/2” (13 mm)</td>
<td>9” (22.9 cm)</td>
<td>0.5” (12.7 mm)</td>
<td>6 mm</td>
</tr>
<tr>
<td>5350-75</td>
<td>3/4” (19 mm)</td>
<td>9” (22.9 cm)</td>
<td>0.75” (19 mm)</td>
<td>10 mm</td>
</tr>
<tr>
<td>5350-100</td>
<td>1” (25 mm)</td>
<td>9” (22.9 cm)</td>
<td>1” (25.4 mm)</td>
<td>12 mm</td>
</tr>
<tr>
<td>5350-125</td>
<td>1-1/4” (32 mm)</td>
<td>9” (22.9 cm)</td>
<td>1.25” (31.75 mm)</td>
<td>14 mm</td>
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<td>5350-150</td>
<td>1-1/2” (38 mm)</td>
<td>9” (22.9 cm)</td>
<td>1.5” (38.1 mm)</td>
<td>16 mm</td>
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<tr>
<td>5350-CASE</td>
<td>Case</td>
<td></td>
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<td></td>
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<tr>
<td>5350-CB</td>
<td>Cross Bar</td>
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</tr>
</tbody>
</table>

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**Mini-lexer Osteotomes**

*Helpful in osteophyte and cement removal*

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Overall Length</th>
<th>Osteotome Width</th>
<th>Blade Width</th>
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<tbody>
<tr>
<td>5270-01</td>
<td>4 mm</td>
<td>7.25” (18.4 cm)</td>
<td>0.25” (6.35 mm)</td>
<td>4 mm</td>
</tr>
<tr>
<td>5270-02</td>
<td>6 mm</td>
<td>7.25” (18.4 cm)</td>
<td>0.5” (12.7 mm)</td>
<td>6 mm</td>
</tr>
<tr>
<td>5270-03</td>
<td>10 mm</td>
<td>7.25” (18.4 cm)</td>
<td>0.75” (19 mm)</td>
<td>10 mm</td>
</tr>
<tr>
<td>5270-04</td>
<td>12 mm</td>
<td>7.25” (18.4 cm)</td>
<td>1” (25.4 mm)</td>
<td>12 mm</td>
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</tbody>
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**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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<th>Osteotome Width</th>
<th>Blade Width</th>
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<tbody>
<tr>
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<td>0.25” (6.35 mm)</td>
<td>4 mm</td>
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<td>5301-01</td>
<td>Guide Only</td>
<td>7” (17.8 cm)</td>
<td>0.25” (6.35 mm)</td>
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<td>5301-02</td>
<td>10 mm Blade Only</td>
<td>6.25” (16.4 cm)</td>
<td>0.25” (6.35 mm)</td>
<td>10 mm</td>
</tr>
<tr>
<td>1015</td>
<td>Sterilization Case</td>
<td>7” (17.8 cm)</td>
<td>0.25” (6.35 mm)</td>
<td></td>
</tr>
</tbody>
</table>

Chisel blade features an ultra hard titanium nitride coating to help extend life by increasing surface hardness, prolonging sharpness, and resisting chemicals and corrosion.

**Complete Set**

*Two blades included in Set*
Flexible Osteotome System

Provides an assortment of osteotome blades for various orthopedic surgery procedures

### PRODUCT NO's:
- **S0011-00**: [Set with Quick-Coupling Handle and Case]
- **S0012-00**: [Set with Locking Nut Handle and Case]

### Individual Instruments Included in Sets:
- **S1002**: [Thin Osteotome Blade] 2.5" (6.3 cm) x 8 mm
- **S1003**: [Thin Osteotome Blade] 2.5" (6.3 cm) x 10 mm
- **S1004**: [Thin Osteotome Blade] 2.5" (6.3 cm) x 12 mm
- **S1005**: [Thin Osteotome Blade] 2.5" (6.3 cm) x 20 mm
- **S1006**: [Curved Thin Osteotome Blade] 2.5" (6.3 cm) x 12 mm
- **S1007**: [Curved Thin Osteotome Blade] 5" (12.7 cm) x 20 mm
- **S1008**: [Thin Osteotome Blade] 5" (12.7 cm) x 10 mm
- **S1009**: [Thin Osteotome Blade] 5" (12.7 cm) x 8 mm
- **S1020**: [Handle with Quick-Coupling] 5" (12.7 cm)
- **S1021**: [Handle with Locking Nut] 5" (12.7 cm)
- **S1133**: [Radial Osteotome] 5" (12.7 cm) x 10 mm
- **S1120**: [Radial Osteotome] 5" (12.7 cm) x 12 mm
- **S1134**: [Radial Osteotome] 5" (12.7 cm) x 14 mm
- **S1121**: [Radial Osteotome] 5" (12.7 cm) x 16 mm
- **S1122**: [Radial Osteotome] 5" (12.7 cm) x 20 mm
- **S2007**: [Slap Hammer] 12" (30.5 cm)
- **9018**: [Case]

- Sharp, flexible blades are well suited for loosening implants from cement or bony ingrowth fixation.
- Various blade widths and profiles allow great flexibility to follow the implant contours.
- Modular handle is made of high impact surgical stainless steel and has a quick-coupling positive locking mechanism for ease of use and quick blade changes.
- Slap hammer threads into the handle and is designed to facilitate blade removal.

- Optional Strike Plate can be attached to the Handle for direct striking with a mallet.
- Optional Curved Chisel Blades are designed to help loosen the cement/prosthesis interval in TKA tibial tray and femoral component revisions. The curved design is useful in working around pegs & fins to get posterior cement access. Also helpful with removal of other implants, i.e. shoulder, ankle, etc.

### Optional Parts and Blades

#### PRODUCT NO’s:
- **S1020-SP**: [Strike Plate for Handle] Diameter 1.625" (4.1 cm)
- **S1123**: [Extra Long Osteotome Blade] 7.5" (19.1 cm) x 8 mm
- **S1135**: [Radial Osteo, Medial Curve] 6.75" (17.1 cm) x 11 mm
- **S1136**: [Radial Osteo, Lateral Curve] 6.75" (17.1 cm) x 11 mm
- **S1137**: [Radial Osteo, Medial Curve] 5" (12.7 cm) x 11 mm
- **S1138**: [Radial Osteo, Lateral Curve] 5" (12.7 cm) x 11 mm
- **S1222**: [Chisel Blade] 2.5" (6.4 cm) x 8 mm
- **S1223**: [Chisel Blade] 2.5" (6.4 cm) x 10 mm
- **S1224**: [Chisel Blade] 2.5" (6.4 cm) x 12 mm
- **S1225**: [Chisel Blade] 2.5" (6.4 cm) x 20 mm
- **S1228**: [Chisel Blade] 5" (12.7 cm) x 10 mm
- **S1229**: [Chisel Blade] 5" (12.7 cm) x 8 mm
- **S1230**: [Chisel Blade] 5" (12.7 cm) x 12 mm
- **S1232**: [Extra Long Chisel Blade] 7.5" (19.1 cm) x 8 mm
- **S1233-L**: [Flexible Left Curved Chisel] 2" (5.1 cm) x 8 mm
- **S1233-R**: [Flexible Right Curved Chisel] 2" (5.1 cm) x 8 mm

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Flexible Osteotome System is designed to provide an assortment of osteotome blades for various orthopedic surgery procedures. The system includes a choice of handle styles, modular handle characteristics, and various blade widths and profiles. The sharp, flexible blades are well suited for loosening implants from cement or bony ingrowth fixation. The modular handle is made of high impact surgical stainless steel and has a quick-coupling positive locking mechanism for ease of use and quick blade changes. The slap hammer threads into the handle and is designed to facilitate blade removal.

Optional Strike Plate can be attached to the Handle for direct striking with a mallet. Optional Curved Chisel Blades are designed to help loosen the cement/prosthesis interval in TKA tibial tray and femoral component revisions. The curved design is useful in working around pegs & fins to get posterior cement access. Also helpful with removal of other implants, i.e. shoulder, ankle, etc.

For more information, visit www.innomed.net.
Mueller-Type Cement Removal Instruments

Used for cement removal in the hip, knee, and shoulder

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>S7500-00 [Complete Set with Case]</td>
</tr>
</tbody>
</table>

**Individual Instruments:**

- **S7505** [Narrow Cement Removal Gouge, Short]
  - Shaft Length: 15 cm
  - Gouge: 9 mm, negative
- **S7507** [Narrow Cement Removal Gouge, Long]
  - Shaft Length: 24 cm
  - Gouge: 9 mm, negative
- **S7510** [Narrow Offset Cement Removal Gouge]
  - Shaft Length: 24 cm
  - Gouge: 9 mm, negative
- **S7515** [Acetabular Chisel]
  - Shaft Length: 24 cm
  - Chisel: 7.5 mm
- **S7520** [Offset Chisel]
  - Shaft Length: 15 cm
  - Chisel: 9 mm
- **S7525** [Flared Angle Gouge]
  - Shaft Length: 24 cm
  - Gouge: 9 mm, positive, angle 15° down
- **S7530** [Wide Gouge]
  - Shaft Length: 24 cm
  - Gouge: 11.5 mm, negative
- **S7535** [“V” Splitter]
  - V-Shaped Chisel: 7 mm
- **S7587** [Saddle Punch]
  - Shaft Length: 24 cm
  - Punch: 16.5 mm x 6.5 mm
- **S7590** [Cement Splitting Osteotome]
  - Shaft Length: 24 cm
- **S7595** [Cement Removal Osteotome, Short]
  - Shaft Length: 15 cm
  - Osteotome: 8 mm
- **S7597** [Cement Removal Osteotome, Long]
  - Shaft Length: 24 cm
  - Osteotome: 8 mm
- **S7540** [4.4 mm Drill]
- **S7545** [4.4 mm Drill Guide]
- **S7550** [6.4 mm Drill]
- **S7555** [6.4 mm Drill Guide]
- **S7560** [Straight Cement Removal Hook]
  - Hook Curette: 10 mm
- **S7565** [Curved Cement Removal Hook]
  - Hook Curette: 10 mm
- **S7570** [Cross Bar]
- **S7575** [7 mm T-Handle Conical Tap]
- **S7580** [9 mm T-Handle Conical Tap]
- **S7585** [Slotted Mallet]
- **9075** [Case Only]
Nicholson Shoulder and Small Bone Cement Removal Instruments
Designed by Gregory Nicholson, MD

- Designed to facilitate cement removal in smaller diameter bone of the humerus, ulna, and smaller implant geometries
- Reverse bevel tip helps the gouge to slide between the bone and cement
- T-shaped Gouge-Splitter allows the gouge to slide between the cement and bone and vertically split the cement mantle to facilitate removal
- Small diameter widths and curvatures more closely match shoulder and elbow implants and smaller bone diameters
- Shorter length allows for better control and access
- The footed impactor is used to help remove a humeral implant by impacting the medial collar of the prosthesis — helps provide a very direct parallel force to the implant for removal

**PRODUCT NO’S:**
- **Extra Small Gouge**
  - Gouges Overall Length: 9" (22.9 cm)
  - Gouge Handle Length: 4" (10.2 cm)
- **Small Gouge**
  - Gouge Width: 5 mm
- **Medium Gouge**
  - Gouge Width: 7 mm
- **Large Gouge**
  - Gouge Width: 9 mm
- **Backhook**
  - Footed Impactor
- **Small Gouge with Splitter**
  - Gouge Width: 5 mm
  - Splitter Height: 4 mm
- **Medium Gouge with Splitter**
  - Gouge Width: 7 mm
  - Splitter Height: 5 mm
- **Large Gouge with Splitter**
  - Gouge Width: 9 mm
  - Splitter Height: 6 mm

**PRODUCT NO’S:**
- 3670 [Extractor Set with Case]
- 3670-01 [Extractor Only]
- 3670-10 [Foot Adapter]
- 3670-CABLE [2.5 mm Cable] Package of 2
- 9006 [Case Only]
- 3925-A12 [12" (30.5 cm) Slaphammer Rod Only]
- 3925-H [Slaphammer Only (No Rod)]

Set includes a slaphammer, two non-sterile 2.5 mm cables, and a sterilization case.
Levy Humeral Stem Extraction Punch  
Designed by Jonathan Levy, MD  
Ultra hard cobalt chrome shaft and impactor tip designed to help remove a humeral stem during revision total shoulder arthroplasty. Can be used to open up distal cement mantle or pedestal during revisions.

PRODUCT NO:
8627  
Overall Length: 12" (30.5 cm)  
Handle/Platform Length: 4.75" (12.1 cm)  
Punch Rod Length: 7.25" (18.4 cm)  
Platform: 3" x .75" (7.6 cm x 1.9 cm)  
Shaft Diameter: 8 mm, tapers to 4 mm at tip

Nicholson Footed Impactor  
Designed by Gregory Nicholson, MD  
Designed to help remove a humeral prosthesis by impacting the medial collar from underneath, after a gap has been exposed between the rim/bone interface.

PRODUCT NO:
5255  
Foot Pad Size: 8.5 mm x 11.5 mm  
Shaft Diameter: 8.5 mm (21.6 cm)  
Overall Length: 12.75" (32.4 cm)  
Handle Length: 4.5" (11.4 cm)

The distal, footed end of the impactor is positioned under the neck rim of the prosthesis, and a mallet is used to strike the large proximal platform of the impactor to help loosen and remove the prosthesis in line with the stem.

Wagner Osteotome Handle  
Designed by Russell Wagner, MD  
Handle is designed for easier gripping, rotational control, and use with a mallet with a standard 1/4" Lambotte osteotome.

PRODUCT NO:
5348 [Handle Only]  
Overall Length: 5.5" (14 cm)  
5348-01 [1/4" Osteotome Only]  
Overall Length: 8.875" (22.5 cm)

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 of the product to the furthest opposite end, as shown in these examples:

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 this example:
Innomed-Europe LLC
Alte Steinhäuserstr. 19
CH-6330 Cham, Switzerland
Tel 0041 (0) 41 740 67 74
Fax 0041 (0) 41 740 67 71
info@innomed-europe.com

Innomed-Europe GmbH
Villingen-Schwenningen, Deutschland
Tel 0049 (0) 7720 46110 60
Fax 0049 (0) 7720 46110 61
www.innomed-europe.com
info@innomed-europe.com

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Free trial offer excludes implant extraction instruments, which are available as rentals. There is a pad replacement charge with the hip positioners.

*When shipped to a hospital or medical center; additional charge applies for expedited shipping.

Instruments are available for a no-charge two-week evaluation — includes FREE Ground Shipping*

Innomed, Inc
103 Estus Drive
Savannah, GA 31404
Tel 912.236.0000
Fax 912.236.7766
www.innomed.net
info@innomed.net

Weatherly Mini-Deltoid Retractors

Designed for the retraction of the deltid in a mini-open mid-deltoid splitting approach to rotator cuff surgery, the offset handle helps allow clear visualization of the surgical field, and the ergonomic non-slip handle surface helps prevent fatigue in the operative team.

Large Medium Small

PRODUCT NO’S:

5110-L [Large]
Overall Length: 12.75” (32.4 cm)
Depth from Bend: 4.5” (11.4 cm)
Blade Dimensions: 40 mm x 90 mm

5110-M [Medium]
Overall Length: 11” (27.9 cm)
Depth from Bend: 2” (7.6 cm)
Blade Dimensions: 40 mm x 55 mm

5110-S [Small]
Overall Length: 10.5” (26.7 cm)
Depth from Bend: 2.5” (6.4 cm)
Blade Dimensions: 40 mm x 40 mm