Chung T-Handle Retractors
Designed by Raymond Chung, MD

Designed with a T-handle for easier holding and to help reduce finger and thumb fatigue.

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th></th>
<th>Overall Length</th>
<th>Blade Width</th>
<th>Blade Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1159 [Sharp Rake]</td>
<td>117mm</td>
<td>9mm</td>
<td>7mm</td>
</tr>
<tr>
<td>1161 [Blunt Rake]</td>
<td>117mm</td>
<td>9mm</td>
<td>7mm</td>
</tr>
<tr>
<td>1162 [Senn]</td>
<td>117mm</td>
<td>6mm</td>
<td>16mm</td>
</tr>
</tbody>
</table>

OrthoLucent™ Mini Hohmann Retractors
Radiolucent, lightweight retractors

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th></th>
<th>Overall Length</th>
<th>Blade Width</th>
<th>Blade Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1592-R [8mm Blade, Long Bent]</td>
<td>7&quot;</td>
<td>8mm</td>
<td></td>
</tr>
<tr>
<td>1594-R [8mm Blade]</td>
<td>6.875&quot;</td>
<td>8mm</td>
<td></td>
</tr>
<tr>
<td>1595-R [6mm Blade]</td>
<td>6.875&quot;</td>
<td>6mm</td>
<td></td>
</tr>
<tr>
<td>1597-R [16mm Blade]</td>
<td>6.875&quot;</td>
<td>16mm</td>
<td></td>
</tr>
<tr>
<td>1596-R [8&quot; Extender]</td>
<td>6.875&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Scoville-type Nerve with Suction
Designed by L. Mercer McKinley, MD

Designed to retract with a Scoville-type blade and provide varied suction—tube can be angled and locked for ease of use.

**PRODUCT NO:**

<table>
<thead>
<tr>
<th></th>
<th>Overall Length</th>
<th>Arm Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5008</td>
<td>9.375&quot;</td>
<td>4.25&quot;</td>
</tr>
</tbody>
</table>

OrthoLucent™ is a trademark of MedX Composites
Stanton Forward Ragnell Retractors
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**

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4510-01 [Shallow]</td>
</tr>
<tr>
<td>4510-02 [Deep]</td>
</tr>
</tbody>
</table>

Modified Mini Hohmann Retractors
Designed by Jeffrey Lawton, MD

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1665</td>
</tr>
<tr>
<td>1665-01</td>
</tr>
<tr>
<td>1666</td>
</tr>
<tr>
<td>1666-01</td>
</tr>
</tbody>
</table>

Stanton Forward Senn Retractors
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**

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4520 [Shallow w/Teeth]</td>
</tr>
<tr>
<td>4525-01 [Shallow]</td>
</tr>
<tr>
<td>4525-02 [Deep]</td>
</tr>
</tbody>
</table>

J.B. Redler Retractor
Designed by M.R. Redler, MD

**Uniquely balanced retractor for bone exposure for a multitude of upper extremity procedures**

Double-angle design allows for ideal exposure with minimal effort to hold the retractor, while the assistant’s hands are well out of the way of the exposure. The aperture in the base of the handle allows the retractor to be attached via a Penrose drain to the table for hands-free approach.

For small bone surgery, use the Modified Mini Hohmann Retractors designed by Jeffrey Lawton, MD.
Wilson Trigger Finger Retractor
Designed by Ralph V. Wilson, MD

PRODUCT NO:
1884
Overall Length: 4.25”
Blades: 6.5mm Wide x 10mm Deep

MADE EXCLUSIVELY
FOR INNOMED IN
GERMANY

Wilson Trigger Finger Retractor
Designed by Ralph V. Wilson, MD

PRODUCT NO:
1884
Overall Length: 4.25”
Blades: 6.5mm Wide x 10mm Deep

MADE EXCLUSIVELY
FOR INNOMED IN
GERMANY

Lubahn Carpal Corkscrew
Designed by John D. Lubahn, MD

Design to fit a trapezium during basal joint arthroplasty when the bone is being removed as a unit

- Can also be used to facilitate a proximal row carpectomy as it fits the scaphoid, lunate, and triquetrum
- May additionally be used to remove the pisiform in cases of arthritis of the pisotriquetral joint

PRODUCT NO:
1191
Overall Length: 2.25”

MADE IN THE USA
PROUDLY

Lubahn Carpal Corkscrew
Designed by John D. Lubahn, MD

Design to fit a trapezium during basal joint arthroplasty when the bone is being removed as a unit

- Can also be used to facilitate a proximal row carpectomy as it fits the scaphoid, lunate, and triquetrum
- May additionally be used to remove the pisiform in cases of arthritis of the pisotriquetral joint

PRODUCT NO:
1191
Overall Length: 2.25”

MADE IN THE USA
PROUDLY

Chen Bone Harvester
Designed by Franklin Chen, MD

Helps to obtain a sufficient amount of autologus bone graft through a small diameter cortical window

Design is uniquely angled to facilitate it’s passage and handling through a small window. One end is a modified curette while the other end is a gouge with a dorsal roof to capture the cancellous bone.

PRODUCT NO:
5165
Overall Length: 9”
Cup: 3mm
Guide: 3mm - sharp/sharp

MADE IN THE USA
PROUDLY

Chen Bone Harvester
Designed by Franklin Chen, MD

Helps to obtain a sufficient amount of autologus bone graft through a small diameter cortical window

Design is uniquely angled to facilitate it’s passage and handling through a small window. One end is a modified curette while the other end is a gouge with a dorsal roof to capture the cancellous bone.

PRODUCT NO:
5165
Overall Length: 9”
Cup: 3mm
Guide: 3mm - sharp/sharp

MADE IN THE USA
PROUDLY

Fragment Pick
Used to align bone fragments, and to pick away tissue and bone fragments

PRODUCT NO:
S0129
Overall Length: 6.25”

MADE IN THE USA
PROUDLY

Fragment Pick
Used to align bone fragments, and to pick away tissue and bone fragments

PRODUCT NO:
S0129
Overall Length: 6.25”

MADE IN THE USA
PROUDLY

Wilson Trigger Finger Retractor
Designed by Ralph V. Wilson, MD

PRODUCT NO:
1884
Overall Length: 4.25”
Blades: 6.5mm Wide x 10mm Deep

MADE EXCLUSIVELY
FOR INNOMED IN
GERMANY

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1884
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Blades: 6.5mm Wide x 10mm Deep

MADE EXCLUSIVELY
FOR INNOMED IN
GERMANY

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PRODUCT NO:
1191
Overall Length: 2.25”

MADE IN THE USA
PROUDLY

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PRODUCT NO:
5165
Overall Length: 9”
Cup: 3mm
Guide: 3mm - sharp/sharp

MADE IN THE USA
PROUDLY

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Helps to obtain a sufficient amount of autologus bone graft through a small diameter cortical window

Design is uniquely angled to facilitate it’s passage and handling through a small window. One end is a modified curette while the other end is a gouge with a dorsal roof to capture the cancellous bone.

PRODUCT NO:
5165
Overall Length: 9”
Cup: 3mm
Guide: 3mm - sharp/sharp

MADE IN THE USA
PROUDLY

Fragment Pick
Used to align bone fragments, and to pick away tissue and bone fragments

PRODUCT NO:
S0129
Overall Length: 6.25”

MADE IN THE USA
PROUDLY

Fragment Pick
Used to align bone fragments, and to pick away tissue and bone fragments

PRODUCT NO:
S0129
Overall Length: 6.25”

MADE IN THE USA
PROUDLY
Evans Universal Carpal Tunnel Knife Guide

Designed by Peter J. Evans, MD, PhD

Designed to protect the median nerve while providing a choice of grooved tracks for commercially available retrograde knives (that do not provide this feature) or for tenotomy scissors

Allows for smooth advance of the blade or scissors to divide the transverse carpal ligament. Designed for a mini-open, non-endoscopic approach.

Hagan Carpal Tunnel Release Sleeve

Designed by Hugh Hagan, MD

Designed to protect the surrounding anatomy while providing a sleeve within which to smoothly advance a flat 4mm beaver-style blade to divide and release the transverse carpal ligament

Designed for use in a mini-open, non-endoscopic approach, the sleeve isolates the blade, providing protection to the surrounding anatomy. The longer, bottom leading edge of the sleeve is inserted between the median nerve and the transverse carpal ligament, while the shorter, top leading edge provides lifting protection to the structures above the ligament. The blade is then advanced within the sleeve to safely complete the ligament release.

Lawton Flexor Tendon Repair Clamp

Designed by Jeffrey Lawton, MD

Helps the surgeon to reapproximate the lacerated flexor tendon and tie the core suture(s)

Luer lock ends allow the interchange of two disposable hypodermic needles.
Redler Wrist Bone Clamp with Wire Guide
Designed by M.R. Redler, MD
Designed to hold bony fragments in place for placement of guide wires
Can be used for:
- Placement of pins across distal radius fractures or across carpal bones
- Arthroscopically assisted fixation in the wrist
- Fracture fragments about the elbow

PRODUCT NO'S:
1885-45
For Pins up to .045" (1.1mm)
Overall Length: 8"
1885-62
For Pins up to .062" (1.6mm)
Overall Length: 8"

Two sizes available:
For use with 0.045" (1.1mm) or 0.062" (1.6mm) K-wires.

Chang Pin Clamp
Designed by Win Chang, MD
Designed to allow accurate insertion of pins for internal fixation
Used for small bones, the clamp allows accurate insertion of pins for internal fixation. The cannula has a 1.8mm internal diameter.

PRODUCT NO:
1760-01
Cannula Internal Diameter: 1.8mm
Overall Length: 6"
Locking Ratchet Opens To: 25mm

Redler Percutaneous Pin Clamp
Designed by M.R. Redler, MD
Holds a small bone in apposition during percutaneous pinning of a fracture
Designed with a proximal pin tube with teeth; the tube guides the pin and the teeth help keep the tube in place on the bone. The distal tip is used to control the bone fragment. Includes a long ratchet for locking on various sized bones, from 1mm to 14mm. Also useful during insertion of cannulated screw guide wires.

PRODUCT NO'S:
Overall Length: 5"
1810-35 Tube Diameter: .035" (0.9mm)
1810-45 Tube Diameter: .045" (1.1mm)
1810-62 Tube Diameter: .062" (1.6mm)

Three Tube Sizes Available
Resnick Allis Bone Clamp
Designed by Charles T. Resnick MD

PRODUCT NO: 1385
Overall Length: 6"
Ratcheted Clamp Opens to: 37mm
Clamp End Width: 4.7mm

A traditional Allis Bone Clamp designed with a longer ratchet which allows for a wider opening to allow a bone to be clamped and locked onto.

Lewin Small Bone Clamp

PRODUCT NO: 4685
Overall Length: 5"

Balfour Locking Adson Forceps
Designed by George Balfour, MD

A modified adson forceps designed with a locking ratchet to hold the forceps closed around a small bone fracture.
Wurapa Small Joint Compressor and Distractor

Designed by Raymond K. Wurapa, MD

Designed to allow one-handed manipulation and deployment once fixation pins are placed

- Preparation of small bone non-unions before bone grafting and fixation
- Preparation of small joints for arthrodesis (e.g. partial wrist fusion)
- Distract and better evaluate small joints before determining final management
- Useful for intercarpal stabilization while performing ligament reconstructions (e.g. scapholunate ligament repair/reconstruction)

K-wires should be cut short above the pin guides to allow full access to the operative site.

Now available with two hole sizes on each instrument!

PRODUCT NO'S:

<table>
<thead>
<tr>
<th>Double 1.1mm (.045&quot;) &amp; 1.6mm (.062&quot;) Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1751 [Compressor] Compresses From: 28mm</td>
</tr>
<tr>
<td>Overall Length: 4.625&quot;</td>
</tr>
<tr>
<td>Single 1.1mm (.045&quot;) Hole</td>
</tr>
<tr>
<td>1753 [Compressor] Compresses From: 28mm</td>
</tr>
<tr>
<td>Overall Length: 4.5&quot;</td>
</tr>
</tbody>
</table>

Joint, Calcaneal, Small Bone Compressor/Distractor

Selection lever switches the mechanism from compression to distraction

Simply squeeze the handle one time after direction selection to engage the mechanism.

Two hole sizes for pin size selection.

Thumbscrews help prevent the unit from sliding on the pins.

NOW AVAILABLE

1/16" & 3/32" (.062" & .094") Pin Hole Diameters (1.6 & 2.5 mm)

PRODUCT NO:

<table>
<thead>
<tr>
<th>4865-LS [Standard] Overall Length: 8.5&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holes For: .062&quot; &amp; .094&quot; (1.6 &amp; 2.5 mm) K-wire Pins</td>
</tr>
<tr>
<td>4865-LS-TS [With Thumbscrews] Overall Length: 8.5&quot;</td>
</tr>
<tr>
<td>Holes For: .062&quot; &amp; .094&quot; (1.6 &amp; 2.5 mm) K-wire Pins</td>
</tr>
</tbody>
</table>

NOW AVAILABLE

1/16" & 3/32" (.062" & .094") Pin Hole Diameters (1.6 & 2.5 mm)
Joint, Calcaneal and Small Bone Distractors

Two hole sizes and two arm designs allow for easier pin size selection and helps with distraction in a variety of indications.

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th></th>
<th>Overall Length: 6&quot;</th>
<th>Overall Length: 8&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>4210-SB [Small]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holes: For .062&quot; &amp; .094&quot; (1.6 &amp; 2.5mm) K-wire Pins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4210-LB [Large]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holes: For .062&quot; &amp; .094&quot; (1.6 &amp; 2.5mm) K-wire Pins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4215-SB [Small w/Thumbscrews]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hole Diameters: For 1/16&quot; (1.6mm) &amp; 3/32&quot; (2.5mm) K-wire Pins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4215-LB [Large w/Thumbscrews]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hole Diameters: For 1/16&quot; (1.6mm) &amp; 3/32&quot; (2.5mm) K-wire Pins</td>
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</table>

**OUTSPREAD ARMS**

<table>
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<tr>
<th></th>
<th>Overall Length: 6&quot;</th>
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</thead>
<tbody>
<tr>
<td>4210-SS [Small]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holes: For .062&quot; &amp; .094&quot; (1.6 &amp; 2.5mm) K-wire Pins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4210-LS [Large]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holes: For .062&quot; &amp; .094&quot; (1.6 &amp; 2.5mm) K-wire Pins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4215-SS [Small w/Thumbscrews]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hole Diameters: For 1/16&quot; (1.6mm) &amp; 3/32&quot; (2.5mm) K-wire Pins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4215-LS [Large w/Thumbscrews]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hole Diameters: For 1/16&quot; (1.6mm) &amp; 3/32&quot; (2.5mm) K-wire Pins</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOW AVAILABLE**

Thumbscrews help prevent the unit from sliding on the pins.

**ORIGINAL DESIGN!**

Made exclusively for Innomed in Germany

**RAW MATERIALS**

Made in the USA

Proudly

NOW AVAILABLE

Thumbscrews Modification Designed by Kelly McCormick, MD

**ORIGINAL WEINRAUB JOINT AND CALCANEAL SPREADER**

Designed by Glenn M. Weinraub DPM, FACFAS

Joint and Calcaneal Spreader

Provides excellent joint exposure without blocking intra-articular or osteotomy access. Helps prevent slippage or falling out of the joint by placing the arms on either side of the area to be distracted, driving two pins and opening the joint.

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th></th>
<th>Overall Length: 7&quot;</th>
<th>Overall Length: 11&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1870</td>
<td>Up to .062&quot; (1/16&quot;) (1.6mm) Pin Diameter</td>
<td>Up to .11&quot; (7/64&quot;) (2.8mm) Pin Diameter</td>
</tr>
</tbody>
</table>

**ORIGINAL DESIGN!**

Made exclusively for Innomed in Germany

**THUMBSCREW MODIFICATION**

Designed by Kelly McCormick, MD

2-hole sizes and 2-arm designs allow for easier pin size selection and helps with distraction in a variety of indications.
Distal hinge can be loosened once the distraction nut is tightened, allowing the surgeon to move the handle out of the surgical field.

Designed to distract small joints in a linear direction in foot, hand, and spine surgery.

Multiple hinge design allows for better joint visualization and access.

Small Bone Compressor/Distractor

Designed by Richard Witteck, DPM and Robert Baglio, DPM

Shouldered Bone Pins

For use with the Small Bone Compressor/Distractors

MINOMED Nail Stat

Designed by Todd O’Brien, DPM

Combining the advantages of a hemostat and a spatula, this instrument facilitates atraumatic partial and total nail avulsion.

When used for partial avulsion, instrument may be inserted beneath the nail plate prior to cutting with a Beaver blade. The lower jaw of the clamp protects the nail bed from laceration as the blade is advanced.

PRODUCT NO’S:

Fixed Arms
Overall Length (Flat): 7.5”
Arm Length: 2.25”
1825 Up to .062” (1.6mm) Pin Diameter
1826 Up to .125” (3.2mm) Pin Diameter

Rotating Arms
Overall Length (Flat): 7.5”
Arm Length: 2.25”
1825-01 Up to .062” (1.6mm) Pin Diameter
1826-01 Up to .125” (3.2mm) Pin Diameter

Included with All Models:
1025 [Sterilization Case]
1825-BD [Ball Driver Screwdriver]
Chung Weitlaner Retractor
Designed by Raymond Chung, MD

Longer prongs allow use in a small, but deep wound

Prong lengths of 25mm and 30mm available with either sharp or blunt tips

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Blunt Tips</th>
<th>Sharp Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade Depth: 25mm</td>
<td>Overall Length: 4.5&quot;</td>
<td>Overall Length: 4.5&quot;</td>
</tr>
<tr>
<td>5065</td>
<td></td>
<td>5066</td>
</tr>
<tr>
<td>Blade Depth: 30mm</td>
<td>Overall Length: 4.5&quot;</td>
<td>5067</td>
</tr>
<tr>
<td>5067</td>
<td></td>
<td>5068</td>
</tr>
</tbody>
</table>

MADE EXCLUSIVELY FOR INNOMED IN GERMANY

Dodson Modular Retractor
Designed by Mark A. Dodson, MD

Designed to help expose a small to medium size bone for internal fixation—can be used for distal radius, ulna, humerus, and fibula fractures

Allows the limb to be rotated (pronated or supinated) without loss of exposure. The hohmann retractors have three hole sizes which allow for a variety of positioning angle options using the teeth of the self-retaining handle, or can also be positioned in-between the teeth. The hohmann is placed around the bone, and thus reduces the force on the soft tissues while increasing exposure. Can be used in the forearm to treat radius and ulna shaft fractures, humerus fractures, as well as in the leg for fibula fractures.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Optional &amp; Replacement Parts:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1838-00 [Set]</td>
<td>1838-01 [Handle Only]</td>
</tr>
<tr>
<td>Overall Length: 5.5&quot;</td>
<td>Overall Length: 4.25&quot;</td>
</tr>
<tr>
<td>1838-02 [Blade Only – One]</td>
<td>Overall Length: 4.25&quot;</td>
</tr>
<tr>
<td>Blade Width: 3/8&quot; (8.2mm)</td>
<td>Blade Width: 3/8&quot; (8.2mm)</td>
</tr>
<tr>
<td>1025 [Sterilization Case Only]</td>
<td>Patent Pending</td>
</tr>
</tbody>
</table>

Set consists of one ratcheting self-retaining handle, two mini hohmann retractor blades, and a sterilization case.

MADE EXCLUSIVELY FOR INNOMED IN GERMANY
**Calcaneal Lateral Column Spreader**

Designed by K. Wapner, MD

*Used for lateral column lengthening of the calcaneus*

**PRODUCT NO:**

- **1725**
  - Pads: 14mm x 12mm
  - Overall Length: 4.25"

**Calcaneal Spreader**

Designed by Michael Forress, DO

*Separated the calcaneal osteotomized bone for placement of tricortical bone graft*

Pads have a large surface area, which easily separates the calcaneal osteotomized bone for placement of tricortical bone graft. Large pad surface area helps prevent the compression of soft calcaneal cancellous bone.

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
<th>Overall Length</th>
<th>Pad Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1880 (Standard)</td>
<td>Overall Length: 7&quot;</td>
<td></td>
<td>Pads: 15mm x 12mm</td>
</tr>
<tr>
<td>1881 (Grooved)</td>
<td>Overall Length: 7&quot;</td>
<td></td>
<td>Pads: 15mm x 12mm</td>
</tr>
</tbody>
</table>

**Micro Curettes**

*Four cup sizes, straight or 45° angled-end shaft*

**PRODUCT NO’s:**

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
<th>Overall Length</th>
<th>Shaft Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4242</td>
<td>Cup Size 2</td>
<td>9.75&quot;</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>4240</td>
<td>Cup Size 1</td>
<td>9.75&quot;</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>4244</td>
<td>Cup Size 4/0</td>
<td>9.75&quot;</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>4246</td>
<td>Cup Size 6/0</td>
<td>9.75&quot;</td>
<td>4.5&quot;</td>
</tr>
</tbody>
</table>

**Angled Micro Curettes**

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
<th>Overall Length</th>
<th>Shaft Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4242-01</td>
<td>Cup Size 2</td>
<td>9.75&quot;</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>4240-01</td>
<td>Cup Size 1</td>
<td>9.75&quot;</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>4244-01</td>
<td>Cup Size 4/0</td>
<td>9.75&quot;</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>4246-01</td>
<td>Cup Size 6/0</td>
<td>9.75&quot;</td>
<td>4.5&quot;</td>
</tr>
</tbody>
</table>
Hemisphere Curettes  
**Designed for small joint surgery**

Designed by Richard Wittock, DPM and Rob Baglio, DPM

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>5345</th>
<th>5347</th>
<th>5349</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length:</td>
<td>5.75&quot;</td>
<td>5.75&quot;</td>
<td>5.75&quot;</td>
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<tr>
<td>Curette Diameter:</td>
<td>5mm</td>
<td>7mm</td>
<td>9mm</td>
</tr>
</tbody>
</table>

**MADE IN THE USA**

**FREE TRIAL ON MOST INSTRUMENTS**

Curved Chisel Osteotome  
**Designed by Richard Wittock, DPM and Rob Baglio, DPM**

**Designed to help remodel bone during small joint surgery—can also be used to remove cartilage**

The design has a hexagonal handle to facilitate handling. The top of the handle is designed for easy hammer-strike ability.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>5340</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length:</td>
<td>7.375&quot;</td>
</tr>
<tr>
<td>Blade Width:</td>
<td>10mm</td>
</tr>
</tbody>
</table>

**MADE IN THE USA**

**FREE TRIAL ON MOST INSTRUMENTS**

Anderson Talar Neck Osteotome  
**Designed by John Anderson, MD**

**Designed to help improve range of motion and reduce pain caused by anterior boney impingement of the ankle by removing osteophytes from the anterior talar neck and the anterior distal tibia**

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>5075</th>
<th>5075-50</th>
<th>5075-75</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gouge:</td>
<td>17mm Wide</td>
<td>12.7mm Wide</td>
<td>9.5mm Wide</td>
</tr>
<tr>
<td>Overall Length:</td>
<td>9.875&quot;</td>
<td>9.875&quot;</td>
<td>9.875&quot;</td>
</tr>
<tr>
<td>Handle Length:</td>
<td>4.5&quot;</td>
<td>4.5&quot;</td>
<td>4.5&quot;</td>
</tr>
</tbody>
</table>

**MADE IN THE USA**

**FREE TRIAL ON MOST INSTRUMENTS**
O'Brien Osteotomy Guide
Designed by Todd O'Brien, DPM
Designed for chevron bunionectomies
The guide clamps directly onto bone while helping to retract the EHL tendon. Guide slots fit most saw blades (up to 0.4mm), creating traditional chevron (60°), and long dorsal or plantar arm (50°) osteotomies. K-wire fixation is not required, although a guide pin may be inserted at apex. Guide available in right or left.

PRODUCT NO’S:
1380-L [Complete Assembly] Overall Length: 6”
1380-R [Complete Assembly] Overall Length: 6”

O’Brien Probe Release Sleeve
Designed by Todd O’Brien, DPM
Designed for minimally invasive plantar fasciotomy surgery, and may also be used for minimally invasive neuroma decompression and minimally invasive gastroc recession
Uses a standard #314 blade (not included).

Product NO’S:
1388-00 [Complete Assembly] Overall Length: 4.125”
1388-01 [Blade Handle] Overall Length: 5.5”
1388-02 [Probe & Release Sleeve] (2 Pcs) Overall Length: 5.5”

Duncan Metatarsal Clamp
Designed by Gregory S. Duncan, DPM
Designed to clamp and hold an osteotomized metatarsal bone in the corrected position for fixation through the opening in the top of the clamp

Product NO:
1635 Overall Length: 7” Clamp Pads: 1.3”x.625” Opening: 1”x.375”
Ludloff/Mau Osteotomy Fixation Clamp

Used after lateral hallux valgus correction of the metatarsal, the clamp allows for osteotomy fixation and cannulated screw guide wire direction.

Clamp fixes the osteotomy to hold the correction, and the 15° slanted cannulated k-wire guide allows the surgeon to place the guide wire for the cannulated screw perpendicular to the osteotomy for final fixation of the osteotomy.

**Slavitt Phalangeal Forceps**

Designed by Jerome Slavitt, DPM

Designed to enable the surgeon to provide joint distraction and stability during joint placement at the base of the proximal phalanx of the lesser digits.

Helps to distract the joint and hold the bone, allowing easier access to the base. Can also be used for digital fusions to hold bones better for drilling and cutting applications.

**Hendren Neuroma Retractor**

Designed by Douglas H. Hendren, MD

Narrow tines are delicate on tissue, but sturdy enough to retract bone.

Provides excellent exposure. Also helpful in scaphoid fracture repair surgery.
Calvo Medial Malleolus Fracture Clamp
Designed by Ignacio Calvo, MD
Designed to reduce and hold a displaced medial malleolus fracture
Also very useful in olecranon fractures.

**PRODUCT NO’S:**
- 1801-L  [Left]
- 1801-R  [Right]

**Medial Malleolar/Bone Fragment Clamps**
Designed by Edward L. Schamborg, MD
Quick tightening & release low profile clamp with unlimited settings

**PRODUCT NO’S:**
- 1840 [Large] Overall Length: 8” Clamp End Length: 3”
- 1835 [Medium] Overall Length: 6” Clamp End Length: 2”
- 1830 [Standard] Overall Length: 5.5” Clamp End Length: 1”

**O’Brien Bone Clamp with Drill Guide**
Designed by Todd O’Brien, DPM
Enables a surgeon to apply a screw directly through the integrated guide
Calibrated handle measures bones from 6mm up to 24mm. Guide accommodates 1.5, 2.0 and 2.7mm screws.

**PRODUCT NO:**
- 1815 Overall Length: 5” Guide Diameter: 6.2mm Calibrations from 6mm to 24mm
O’Brien Bone Clamps
Designed by Todd O’Brien, DPM

*Designed for use in stabilization of a fracture or osteotomy*

Allows for placement of the bone clamp where it can best stabilize bone fragments. The drill guide allows for screw placement through the top of the clamp. Calibrations on the handle help eliminate the use of a depth gauge.

**Integrated drill guide and bone diameter gauge**

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>PRODUCT NO</th>
<th>TYPE</th>
<th>Drill Guide Diameter</th>
<th>Screws Accommodated</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1890-02</td>
<td>[Large]</td>
<td>10mm</td>
<td>6.5mm screw</td>
<td>9.25”</td>
</tr>
<tr>
<td>1890-01</td>
<td>[Small]</td>
<td>8mm</td>
<td>4mm screw</td>
<td>6”</td>
</tr>
</tbody>
</table>

Teurlings Medial Malleolar Clamp w/Wire Guide
Designed by Luc Teurlings, MD

*Helps to stabilize the medial malleolar fragment during internal fixation*

**PRODUCT NO:**

<table>
<thead>
<tr>
<th>NO.</th>
<th>Description</th>
<th>Size</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1803</td>
<td>Cannula Diameter: .062” (1.6mm)</td>
<td>5.25”</td>
<td></td>
</tr>
</tbody>
</table>
Macko Square Tipped Rongeur
Designed by Victor W. Macko, MD

Square tipped rongeur with an ergonomic grip, double action mechanism, long reach, and low profile for use in total knee, ankle, hip, and spine surgery
When used for morcelizing bone graft, the shallow, wide jaw helps avoid impaction.

**PRODUCT NO'S:**
- 1778-01  [Small]
  Jaw Bite: 5 x 18mm
  Overall Length: 10”
- 1778-02  [Large]
  Jaw Bite: 7 x 18mm
  Overall Length: 10”
- 1778-03  [X-Large]
  Jaw Bite: 10 x 18mm
  Overall Length: 10”

Incavo Wire Passer
Designed by Stephen J. Incavo, MD

Designed to pass multiple cerclage wires around a bone during a multiple wire wrap procedure

**PRODUCT NO'S:**
- 8610-01  [Small]
  Overall Length: 7.5”
  Accepts Wire Up To: 4mm (5/32”)
- 8610-02  [Large]
  Overall Length: 8.675”
  Accepts Wire Up To: 4mm (5/32”)

Digit Aligner
Radiolucent design helps to reduce fractures of the small digits

**PRODUCT NO'S:**

- 12 Hole Digit Aligner (Finger)
  | 1190-12L [Large] | 1190-12M [Medium] | 1190-12S [Small] |
  | Outside Diameter: 1.840” | Outside Diameter: 1.340” | Outside Diameter: 1.105” |
  | Inside Diameter: 1.515” | Inside Diameter: 1.015” | Inside Diameter: 1.015” |
  | Overall Length: 1.660” | Overall Length: 1.660” | Overall Length: 1.660” |

- 8 Hole Digit Aligner (Toe)
  | Outside Diameter: 1.840” | Outside Diameter: 1.340” | Outside Diameter: 1.105” |
  | Inside Diameter: 1.515” | Inside Diameter: 1.015” | Inside Diameter: 1.015” |
  | Overall Length: 1.240” | Overall Length: 1.240” | Overall Length: 1.240” |
**K-Wire Bender/Cutter**

**Designed to bend a K-wire while extending from bone without applying mechanical strain**

Can bend and cut K-wires measuring 1 to 1.6mm (.039–.062”) in diameter

The pin only needs to extend 20mm from the skin surface to be bent.

**PRODUCT NO:** 2111

**Overall Length:** 6.5”

**MADE EXCLUSIVELY FOR INNOMED IN GERMANY**

Can bend and cut K-wires measuring 1 to 1.6mm (.039–.062”) in diameter

The pin only needs to extend 20mm from the skin surface to be bent.

**Cutting**

The pin is inserted into the cutting groove and the bender/cutter cuts by shearing (like a cigar cutter), not crushing. The result is a clean and burr-free cut surface.

**Bending**

With the jaw of the instrument opened wide, the K-wire is inserted from the side into one of the slots of the lower jaw. During bending, the pin is forced backwards by the nose of the upper jaw and guided by a small groove.

The right slot of the instrument’s lower jaw can hold pins with a diameter of 1.2mm or 1.6mm. The smaller left slot can hold pins measuring 1mm or 1.2mm in diameter.

---

**Sanders Pin Inserter**

**Designed by Richard Sanders, MD**

**Two Sizes Available**

- **PRODUCT NO’S:**
  - 3015-081
    - Accepts k-wires up to: .081” (2mm)
    - Tube Length: 1.875”
    - Overall Length: 4.25”
    - Handle Length: 3.15”
  - 3015-052
    - Accepts k-wires up to: .052” (1.25mm)
    - Tube Length: 1.875”
    - Overall Length: 4.25”
    - Handle Length: 3.15”

**Designed to aim and control the placement of flexible k-wires when they contact hard cortical bone, while helping to protect neurovascular structures from the spinning wire**

The ends of the guide are smooth and can be passed through skin and tissue with less danger to neurovascular structures. Narrow guides are ideal for wrist surgery such as distal radius fractures, intercarpal fusions, carpal dislocations, etc., where K-wires must be inserted from angles not accessible through the initial incision. The guides can be inserted through appropriately placed small peripheral incisions and placed on the bone with direct vision from the primary incision. The K wire is then passed through the guide, helping to protect adjacent soft tissue structures.

---

**Stanton Bent Pin Extractor**

**Designed by John L. Stanton, MD, FACS**

**Designed to tightly grasp bent pins and apply torque to help remove fixation pins**

The “T” handle allows for a strong grasp and pull during removal. Will grasp pins up to 2mm.

**PRODUCT NO:** 1891

**Overall Length:** 5”

**MADE IN THE USA**

**FREE TRIAL ON MOST INSTRUMENTS**
Lower Extremity Leg Positioner
Designed by Ronald Romanelli, MD

**Designed to lift the knee for lower extremity casting applications**
Also well suited for use with ankle fractures. Supplied with one autoclavable silicone pad. Positioner is radiolucent and gas or steam sterilizable.

**PRODUCT NO’S:**
- 2745
  - Dimensions: 5.5” H x 9.5” L x 9.25” W

**Replacement Parts:**
- 2760-P [Silicone Pad]

---

Sanders Extremity Positioning Tubes
Designed by Richard A. Sanders, MD

**Designed to support the knee and ankle during lower extremity surgery**
The 6” tube lifts the knee off the operating table and allows for approximately 30° of knee flexion. Very useful for closure of total knee incisions, supporting fractures of the distal femur, and tibia plateau fractures. The 4” tube elevates the foot and ankle for ankle fracture surgery. The tubes are made of aluminum, allowing them to be autoclaved. They help eliminate the need for rolled sheet bolsters.

**PRODUCT NO’S:**
- 2740-01 [Small]
  - Diameter: 6”
  - Width: 8”
- 2740-02 [Large]
  - Diameter: 6”
  - Width: 8”

---

Cherf Cast Stand
Designed by John Cherf, MD

**Assists in applying short leg casts**
Designed to assist in applying short leg casts, the adjustable height permits optimal leg position for the seated patient and helps insure the application of a cast with the foot/ankle at 90 degrees to the leg. The foot is placed on the tongue of the stand. Stockinette is pulled over the foot and tongue. Cast padding and plaster/fiberglass is used in a routine fashion. The cast stand is slipped forward disengaging the foot after the cast has hardened.

**PRODUCT NO:**
- 2040
  - Base: 18.5” x 14.5”
  - Height: Adjusts from 14” to 23.75”
  - Foot Rest: 11” x 1.75”
Shereff Ankle Distractor

Helps to increase the ease and effectiveness of operative arthroscopy of the ankle with non-invasive distraction

**Designed by Michael Shereff, MD**

---

**PRODUCT NO'S:**

- 1805 [Distractor Only]
- 1805-S [Strap Only]

---

**Fromm Femur & Tibia Triangles**

Used for femur and tibia positioning during nailing, repairs and fractures

**Designed by S.E. Fromm, MD & Kenneth Merriman, MD**

- Designed to position and hold the femur and tibia during intramedullary nailing of the tibia, ligament repairs and extremity fractures. Allows knee to be flexed greater than 90° to allow reaming and nail insertion without displacing fracture. The triangles are available in four heights: 8.5", 11", 14", and 16". The three smaller triangles are designed to fit inside the larger triangle for storage. They are supplied with an autoclavable silicone cushioning pad and velcro® straps. The triangles are also radiolucent and gas or steam sterilizable.

**PRODUCT NO'S:**

- 2760-00 [Set of 3] Angles: Top 30°, Two Bottom 75°
- 2760-01 [11"] Base: 6”, Height: 11”
- 2760-02 [14"] Base: 7”, Height: 14”
- 2760-03 [16"] Base: 9”, Height: 16”

**Sold Separately – Not In Set:**

- 2760-XS [8.5”] Base 5”, Height: 8.5” **New Size!**

**Replacement Parts:**

- 2760-P [Silicone Pad]
- 2760-S [Straps] Package of 18
- 8120-SP [Straps for XS] Package of 10

*Velcro® is a registered trademark of the Velcro Companies.*

---

**Retrograde Femoral Nailing**

Triangle holds femur reduced (prevents sagging)

---

**Tibia Reduced For:**

- Open Reduction and Internal Fixation (ORIF)
- Application of uni- or multi-plane external fixator
- Bone ligament repairs and/or reconstruction

---

**Made in the USA**

**Proudly Made in the USA**

---

**Page Quality:**

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FREE TRIAL ON MOST INSTRUMENTS
**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:**

<table>
<thead>
<tr>
<th>2445 [Fracture Board – Pediatric]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Board Dimensions: 22&quot; x 12&quot;</td>
</tr>
<tr>
<td>Crossbar Height Adjusts From: 4.5&quot; to 7.5&quot;</td>
</tr>
</tbody>
</table>

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

**Freeman Arm Holder**

Designed by Carl R. Freeman, MD

*Allows intraoperative positioning for use in all open, arthroscopic, and replacement shoulder procedures*

- Simple design for fast and easy positioning
- Multiple elbows allow a wide range of positioning
- Arm connector is mobile and can be easily released for repositioning
- Connects over the drape in the sterile field using the supplied rail clamp
- Compact for easy storage
- Complete unit is autoclavable

**PRODUCT NO’S:**

| 2420 |
| Includes: |
| 2595 [Table Clamp] |
Nicholson Headrest

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.

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

PRODUCT NO'S:

<table>
<thead>
<tr>
<th>2450 [Headrest]</th>
<th>Main Plate Dimensions: 6” x 18”</th>
<th>Neck Offset Adjustment: 8”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes:</td>
<td>2450-S [Strap with gel pad]</td>
<td></td>
</tr>
</tbody>
</table>

MADE IN THE USA

UPPER EXTREMITY INSTRUMENTS | 1.800.548.2362 | FREE TRIAL ON MOST INSTRUMENTS

Before

Provides excellent exposure to the shoulder, and patient support
**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.

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>NO</th>
<th>Blade Width</th>
<th>Overall Length</th>
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</thead>
<tbody>
<tr>
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<td>10mm</td>
<td>11”</td>
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<tr>
<td>1985</td>
<td>12mm</td>
<td>11”</td>
</tr>
<tr>
<td>1990</td>
<td>19mm</td>
<td>11”</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.

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>NO</th>
<th>Blade Width</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
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<td>14mm</td>
<td>11”</td>
</tr>
<tr>
<td>1920</td>
<td>22mm</td>
<td>11”</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 subacapularis removal. May also be used to retract the humeral shaft posteriorly to help expose the glenoid.

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>NO</th>
<th>Blade Width</th>
<th>Overall Length</th>
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</thead>
<tbody>
<tr>
<td>1950</td>
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<td>10.75”</td>
</tr>
<tr>
<td>1955</td>
<td>12mm</td>
<td>10.75”</td>
</tr>
<tr>
<td>1960</td>
<td>19mm</td>
<td>10.75”</td>
</tr>
<tr>
<td>1965</td>
<td>25mm</td>
<td>10.75”</td>
</tr>
</tbody>
</table>

**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.

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>NO</th>
<th>Blade Width</th>
<th>Overall Length</th>
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</thead>
<tbody>
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<td>11”</td>
</tr>
<tr>
<td>1990</td>
<td>19mm</td>
<td>11”</td>
</tr>
</tbody>
</table>
**Bicep Elevator**

The bicep elevator is 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.

**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.

**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.

**Modified Fukuda-type Retractor with Reamer Slot**

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

Not included in Set.

**NEW**
Evans Modified
Fukuda-type Retractors
Designed by Peter J. Evans, MD

Designed to retract the humeral shaft posteriorly, helping to expose the glenoid surface
Center groove allows a reamer shaft to fit more posteriorly.

**PRODUCT NO:**
- **T1007**
  - Blade Width: 33mm
  - Prong Width: 6mm | 21mm Gap | 6mm
  - Overall Length: 7"**

**MADE FOR INNOMED IN GERMANY**

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:**
- **S3008**
  - Overall Length: 9"
  - Blade Width at Tip: 21mm

**MADE IN THE USA PROUDLY**

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"
  - Blade Width: 18mm

**MADE IN THE USA PROUDLY**

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

**PRODUCT NO:**
- **T1007**
  - Blade Width: 33mm
  - Prong Width: 6mm | 21mm Gap | 6mm
  - Overall Length: 7"**

**MADE FOR INNOMED IN GERMANY**

Evans Modified
Fukuda-type Retractors
Designed by Peter J. Evans, MD

Designed to retract the humeral shaft posteriorly, helping to expose the glenoid surface
Center groove allows a reamer shaft to fit more posteriorly.

**PRODUCT NO:**
- **5180-N [Narrow]**
  - Overall Length: 8.625"
  - Blade Width: 1" (25.4mm)
  - Blade Depth: 3.75"
- **5180-W [Wide]**
  - Overall Length: 8.625"
  - Blade Width: 1.25" (31.7mm)
  - Blade Depth: 3.5"

**MADE FOR INNOMED IN GERMANY**

Evans Modified
Fukuda-type Retractors
Designed by Peter J. Evans, MD

Designed to retract the humeral shaft posteriorly, helping to expose the glenoid surface
Center groove allows a reamer shaft to fit more posteriorly.

**PRODUCT NO:**
- **5180-N [Narrow]**
  - Overall Length: 8.625"
  - Blade Width: 1" (25.4mm)
  - Blade Depth: 3.75"
- **5180-W [Wide]**
  - Overall Length: 8.625"
  - Blade Width: 1.25" (31.7mm)
  - Blade Depth: 3.5"

**MADE FOR INNOMED IN GERMANY**

Evans Modified
Fukuda-type Retractors
Designed by Peter J. Evans, MD

Designed to retract the humeral shaft posteriorly, helping to expose the glenoid surface
Center groove allows a reamer shaft to fit more posteriorly.

**PRODUCT NO:**
- **5180-N [Narrow]**
  - Overall Length: 8.625"
  - Blade Width: 1" (25.4mm)
  - Blade Depth: 3.75"
- **5180-W [Wide]**
  - Overall Length: 8.625"
  - Blade Width: 1.25" (31.7mm)
  - Blade Depth: 3.5"

**MADE FOR INNOMED IN GERMANY**
Deltoid Retractor
Fits easily under the acromion, deltoid and over the humeral head

Posterior Glenoid Neck Retractor
Used during osteotomy of the humeral head and approaches to the glenoid

Anterior Glenoid Neck Retractor
Teeth are specifically designed to retract the subscapularis and capsule medially during a Bankart procedure

Goldstein Glenoid Neck Retractor
Placed along the glenoid rim during open Bankart procedure to allow excellent exposure

- Used in most open procedures
- Designed to allow one finger retraction
- Contours to allow teeth to fit behind the glenoid, retracting tissue for easy access to the glenoid
- The wide midsection retracts the soft tissue during anterior glenoid work
- The curved handle allows the assistant to use minimal pressure to achieve 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: T1001
Width: 30mm
Overall Length: 8"

PRODUCT NO: T1002
Width: 30mm
Overall Length: 10"

PRODUCT NO: T1003
Width: 25mm
Overall Length: 11"

PRODUCT NO: T1004
Blade Width at Teeth: 18mm
Blade Width at Widest: 36mm
Overall Length: 8.5"

MADE IN THE USA PROUDLY
Levy Wide Deltoid Retractor  
Designed by Jonathan Ley, MD

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

Agrawal Talon Retractor
Designed by Vivek Agrawal, MD

PRODUCT NO: 4695
Overall Length: 7.875"
Blade Width: 40.7mm

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
PRODUCT NO: 1672
Overall Length: 11.75"
Blade at Widest: 2.5"
Blade Depth: 1.375"

Patent Pending

Agrawal Talon Retractor
PRODUCT NO: 4695
Overall Length: 7.875"
Blade Width: 40.7mm

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.

PRODUCT NO'S:
T1008-01 [3 Prongs]
Overall Length: 10"
Prong Length: 30mm
T1008 [2 Prongs]
Overall Length: 10"
Prong Length: 30mm
T1009 [1 Prong]
Overall Length: 10"
Prong Length: 30mm
Kaminsky OrthoLucent™
Browne-type Deltoid Retractors

**Designed by Sean B. Kaminsky, MD**

**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:**

<table>
<thead>
<tr>
<th>Blade Width</th>
<th>Overall Length: 11.5”</th>
</tr>
</thead>
<tbody>
<tr>
<td>1670-01R [Small]</td>
<td>Blade Width: 45mm</td>
</tr>
<tr>
<td>1670-02R [Large]</td>
<td>Blade Width: 57mm</td>
</tr>
</tbody>
</table>

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

**Designed by Sean B. Kaminsky, MD**

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

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Blade Width</th>
<th>Overall Length: 11.5”</th>
</tr>
</thead>
<tbody>
<tr>
<td>1670-01 [Small]</td>
<td>Blade Width: 45mm</td>
</tr>
<tr>
<td>1670-02 [Large]</td>
<td>Blade Width: 57mm</td>
</tr>
</tbody>
</table>

**Browne Deltoid Retractor**

**Used for the Delto-Pectoral Approach**

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

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Blade Width</th>
<th>Overall Length: 11.5”</th>
</tr>
</thead>
<tbody>
<tr>
<td>1670-01 [Small]</td>
<td>Blade Width: 45mm</td>
</tr>
<tr>
<td>1670-02 [Large]</td>
<td>Blade Width: 57mm</td>
</tr>
</tbody>
</table>

**Humeral Head Depressor**

**Designed by William J. Mallon, 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:**

<table>
<thead>
<tr>
<th>Overall Length: 8”</th>
</tr>
</thead>
<tbody>
<tr>
<td>1520</td>
</tr>
</tbody>
</table>
Ortholuent™ 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.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Blade Width</th>
<th>Overall Length</th>
<th>Blade Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>3231-23R [23mm]</td>
<td>16mm</td>
<td>13&quot;</td>
<td>37mm x 52mm</td>
</tr>
<tr>
<td>3231-30R [30mm]</td>
<td>19mm</td>
<td>13&quot;</td>
<td>44mm x 78mm</td>
</tr>
</tbody>
</table>

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 two blade sizes: 5/8” and 3/4”.
Carbon fiber material is strong, lightweight, completely radiolucent, can be steam sterilized, and helps to prevent from marring component surfaces.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Blade Width</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>3220-01 [5/8&quot;]</td>
<td>16mm</td>
<td>9.125&quot;</td>
</tr>
<tr>
<td>3220-02 [3/4&quot;]</td>
<td>19mm</td>
<td>9.125&quot;</td>
</tr>
<tr>
<td>3220-03 [1&quot;]</td>
<td>25.4mm</td>
<td>9.125&quot;</td>
</tr>
</tbody>
</table>

Evans Reverse Hohmann Retractor
Designed by Peter J. Evans, MD
Designed for total shoulder arthroplasty and open rotator cuff procedures
Smaller size useful for retracting the deltoid muscle and other structures.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Blade Width</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4547</td>
<td>Tapers from 30mm to 18mm</td>
<td>8.5&quot;</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 glenoid, acromion and rotator cuff.

**PRODUCT NO’S:**
- T1006 [Standard]
  - Overall Length: 7.25”
- T1006-01 [Deep]
  - Overall Length: 7.25”

**Glenoid Spreader with Forked/Disc Ends**

Designed to aid glenoid exposure

**PRODUCT NO’S:**
- 1861-R [Right]
  - Overall Length: 10.5”
- 1861-L [Left]
  - Overall Length: 10.5”

**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.

**PRODUCT NO:**
- T1005
  - Overall Length: 7”
Self-Retaining Soft Tissue Retractors with Modular Blades

Used for soft tissue retraction during 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.
Modifed Kolbel Self-Retaining Glenoid Retractor with Hinge
Two pairs of snap-in, freely pivoting blades included.

**PRODUCT NO'S:**

| T1014-01 [Set] |
| Set Includes: |
| T1015-01 [Retractor] |
| Overall Length: 8.25" |
| Length-to-hinge: 6" |
| Arm Length: 2.25" |
| T1018-P [Blades–Pair] 36mm X 36mm |
| T1019-P [Blades–Pair] 36mm X 53mm |

Kolbel Self-Retaining Glenoid Retractor
Two pairs of snap-in, freely pivoting blades included.

**PRODUCT NO'S:**

| T1014 [Set] |
| Set Includes: |
| T1015 [Retractor] |
| Overall Length: 8.25" |
| T1018-P [Blades–Pair] 36mm X 36mm |
| T1019-P [Blades–Pair] 36mm X 53mm |

Kolbel Self-Retaining Glenoid Retractor with Center Blade
Blade can be reversed for shallow or deep retraction
Two pairs of snap-in, freely pivoting blades included.

**PRODUCT NO'S:**

| T1050 [Set] |
| Set Includes: |
| T1050-01 [Retractor] |
| Overall Length: 8" |
| T1050-02 [Center Blade] |
| Length-to-blade: 6.25" |
| Depth: 2.5" |
| T1018-P [Blades–Pair] 36mm X 36mm |
| T1019-P [Blades–Pair] 36mm X 53mm |

Kolbel Self-Retaining Retractor
Two pairs of snap-in, freely pivoting blades included.

**PRODUCT NO'S:**

| T1016 [Set] |
| Set Includes: |
| T1017 [Retractor] |
| Overall Length: 8.125" |
| Arm Length: 6.125" |
| Arm Length-to-hinge: 3" |
| T1018-P [Blades–Pair] 36mm X 36mm |
| T1019-P [Blades–Pair] 36mm X 53mm |

Kolbel Self-Retaining Retractor Blades
Two pairs of snap-in, freely pivoting blades included.

**PRODUCT NO'S:**

| T1018 [36mm X 36mm Blade] |
| T1019 [36mm X 53mm Blade] |
| T1020 [36mm X 68mm Blade] |
| T1021 [36mm X 85mm Blade] |

MADE FOR INNOMED IN GERMANY
Gerber Sub-Acromion Retractors

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.

Gerber Sub-Acromion Retractors

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
<th>Standard</th>
<th>Modified</th>
</tr>
</thead>
<tbody>
<tr>
<td>1640-01 [Right]</td>
<td>Blade Length: 19mm Inside Ring Dia.: 32mm Overall Length: 7”</td>
<td>1641-01 [Right]</td>
</tr>
<tr>
<td>1640-02 [Left]</td>
<td>Blade Length: 19mm Inside Ring Dia.: 32mm Overall Length: 7”</td>
<td>1641-02 [Left]</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>5076</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length: 8.5”</td>
<td></td>
</tr>
</tbody>
</table>

Rotator Cuff Awl

Designed to create a hole in the proximal humerus for reattachment of the rotator cuff

Ergonomic Radel® R Handle provides comfort and a secure grip.

PRODUCT NO: S0107
Overall Length: 9.625”
Handle Length: 5”
Awl Point Depth: 12.7mm
Glenoid Punch
For Bankart repair

PRODUCT NO: T1010
Overall Length: 8.625"

Made for Innomed in Germany

Ligature Carrier
For Bankart repair

PRODUCT NO: T1011
Overall Length: 7.25"

Percussion Awl
Used to begin tunneling the cortical bone during rotator cuff repairs or Bankart procedures

PRODUCT NO: T1012
Overall Length: 8.625"

Made for Innomed in Germany

Crochet Hook Suture Passer
Notched at tip to hook looped sutures and pull through tunneled bone

PRODUCT NO: T1013
Overall Length: 7"
Handle Length: 4"

Arthroscopic Shoulder Rasp
Used to abrade the anterior scapular neck to stimulate a vascular healing response
Terminal bend matches the angle of the scapular neck from a standard anterior portal.

PRODUCT NO: 2310
Overall Length: 9.625"
Handle Length: 3.5"

Made in the USA

UPPER EXTREMITY INSTRUMENTS
1.800.548.2362
FREE TRIAL ON MOST INSTRUMENTS

35
Sheffield Universal Prosthetic Elbow Extraction System

**Designed to aid in the extraction of the four commonly used elbow prostheses**

Based on the principle that the device should have good hold and that the force used to extract the prosthesis should be applied in line with the long axis of the implant.

Designed to help extract the humeral and ulnar components during total elbow revision surgery. The system includes two modular extraction heads for both humeral and ulnar components, a hook with a narrow tip for help in removing the bearing inserts and extracting the humeral and ulnar components, a locking mechanism release and pin remover, a T-wrench for tightening the extractors onto the components, and a slap hammer.

Designed by Mr. Amjid A. Ali & Mr. David Stanley

**PRODUCT NO:**

3620  [Complete Set]
**Weinert Elbow Retractor**

*Designed by Carl R. Weinert, MD*

*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 tip hooks over the intact medial condyle.

---

**OrthoVise™**

Made of stainless steel, the OrthoVise™ is designed with the option of using a slap hammer for greater adaptability.

On OrthoVise™ models equipped with attachments, a slap hammer can be attached to the end of the OrthoVise™, as well as to either side of the large slap hammers (except the bent jaw model).

A different size slap hammer is used for the large and small sizes of OrthoVise™, and all Slap Hammers are designed with a hammer plate if the additional use of a mallet is desired.

U.S. Patent #D398,208

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**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Large – 10” with Large Slap Hammer</th>
</tr>
</thead>
<tbody>
<tr>
<td>3980</td>
<td>3965</td>
</tr>
<tr>
<td>3980-01 [Large (10”) w/o Slap Hammer, w/Attachments]</td>
<td>3965-01 [Large (12”) w/o Slap Hammer, w/Attachments]</td>
</tr>
<tr>
<td>3981 [Large (10”) without Slap Hammer or Attachments]</td>
<td>3966 [Large Bent Jaw w/Slap Hammer]</td>
</tr>
<tr>
<td>3985 [Small (8”) without Slap Hammer or Attachments]</td>
<td>3966-01 [Large Bent Jaw w/o Slap Hammer, w/Attachment]</td>
</tr>
<tr>
<td>3985-01 [Small (8”) with Small Slap Hammer]</td>
<td>3975 [Small (9.5”) without Slap Hammer or Attachments]</td>
</tr>
<tr>
<td></td>
<td>3975-01 [Small (9.5”) with Small Slap Hammer]</td>
</tr>
</tbody>
</table>

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**Made Exclusively for Innomed in Germany**

---

**MADE EXCLUSIVELY FOR INNOMED IN GERMANY**

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**Weinert Elbow Retractor**

*Designed by Carl R. Weinert, MD*

*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 tip hooks over the intact medial condyle.
Nicholson Small Bone and Shoulder Cement Removal Instruments

Designed to facilitate cement removal in smaller diameter bone of the humerus, ulna, and smaller implant geometries

Designed by Gregory Nicholson, MD

- **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.

**PRODUCT NO’S:**

- **Gouges**
  - Overall Length: 9”
  - Gouges Handle Length: 4”
  - **Complete Set w/Case:** 5251-00
  - **Extra Small:** 5251-05
  - **Small:** 5251-07
  - **Medium:** 5251-09
  - **Large:** 5251-11
  - **Small w/Splitter:** 5252-07
  - **Medium w/Splitter:** 5252-09
  - **Large w/Splitter:** 5252-11

- **Backhook**
  - Overall Length: 12.5”
  - Handle Length: 4.5”
  - Shaft Diameter: 4mm

- **Footed Impactor**
  - Foot Pad Size: 8.5mm x 11.5mm
  - Shaft Diameter: 8.5mm
  - Overall Length: 12.75”
  - Handle Length: 4.5”

**MADE IN THE USA**

**WWW.INNOMED.NET I 1.800.548.2362 I May 2013**
**Nicholson Universal Humeral Prosthesis Extractor**

Designed by Gregory Nicholson, MD

Designed to fit most humeral prostheses

Set includes a slaphammer, two non-sterile 2.5mm cables, and a sterilization case.

**PRODUCT NO’S:**
- 3670 [Extractor Set with Case]
- 3670-01 [Extractor Set without Case]
- 3670-10 [Foot Adapter]
- 3670-CABLE [2.5mm Cable] Package of 2
- 3670-CASE [Case Only]
- 3925 [Slaphammer with 12” Rod]

**Bozeman Cement Trimmer**

Designed by Daniel M. Gannon, MD

The tool has a blunt blade tip on one end to help with separation of the trimmed cement. The angled curette end helps gather the trimmed cement. The thin shank and angled curette can reach into tight spaces such as the back of the implants to remove excess cement. The ends are titanium nitride coated to help eliminate metal transfer.

**PRODUCT NO:**
- 5245 [Overall Length: 8.5”]
Flexible Osteotome System

Provides an assortment of osteotome blades for various orthopedic surgery procedures

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>product</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S0011-00</td>
<td>Complete Set with Case</td>
</tr>
<tr>
<td>S1002</td>
<td>Thin Osteotome Blade 3&quot; x 8mm</td>
</tr>
<tr>
<td>S1003</td>
<td>Thin Osteotome Blade 3&quot; x 10mm</td>
</tr>
<tr>
<td>S1004</td>
<td>Thin Osteotome Blade 3&quot; x 12mm</td>
</tr>
<tr>
<td>S1005</td>
<td>Thin Osteotome Blade 3&quot; x 20mm</td>
</tr>
<tr>
<td>S1006</td>
<td>Curved Thin Osteotome Blade 3&quot; x 12mm</td>
</tr>
<tr>
<td>S1007</td>
<td>Curved Thin Osteotome Blade 3&quot; x 20mm</td>
</tr>
<tr>
<td>S1008</td>
<td>Thin Osteotome Blade 5&quot; x 10mm</td>
</tr>
<tr>
<td>S1009</td>
<td>Thin Osteotome Blade 5&quot; x 8mm</td>
</tr>
<tr>
<td>S1020</td>
<td>Handle with Quick-Coupling End 6&quot; One Handle Only with this Product Number</td>
</tr>
<tr>
<td>S1133</td>
<td>Radial Osteotome 5&quot; x 10mm</td>
</tr>
<tr>
<td>S1120</td>
<td>Radial Osteotome 5&quot; x 12mm (not shown)</td>
</tr>
<tr>
<td>S1134</td>
<td>Radial Osteotome 5&quot; x 14mm</td>
</tr>
<tr>
<td>S1121</td>
<td>Radial Osteotome 5&quot; x 16mm</td>
</tr>
<tr>
<td>S1122</td>
<td>Radial Osteotome 5&quot; x 20mm (not shown)</td>
</tr>
<tr>
<td>S2007</td>
<td>Small Slap Hammer 12&quot;</td>
</tr>
<tr>
<td>9018</td>
<td>Case</td>
</tr>
</tbody>
</table>

**Optional Blades (Not Included in Complete Set):**

<table>
<thead>
<tr>
<th>product</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1123</td>
<td>Extra Long Osteotome Blade 9&quot; x 8mm</td>
</tr>
<tr>
<td>S1135</td>
<td>Radial Osteo Medical Curve 6.75&quot; x 11mm</td>
</tr>
<tr>
<td>S1136</td>
<td>Radial Osteo Lateral Curve 6.75&quot; x 11mm</td>
</tr>
<tr>
<td>S1137</td>
<td>Radial Osteo Medical Curve 5&quot; x 11mm</td>
</tr>
<tr>
<td>S1138</td>
<td>Radial Osteo Lateral Curve 5&quot; x 11mm</td>
</tr>
<tr>
<td>S1222</td>
<td>Chisel Blade 2.5&quot; x 8mm</td>
</tr>
<tr>
<td>S1223</td>
<td>Chisel Blade 2.5&quot; x 10mm</td>
</tr>
<tr>
<td>S1224</td>
<td>Chisel Blade 2.5&quot; x 12mm</td>
</tr>
<tr>
<td>S1225</td>
<td>Chisel Blade 2.5&quot; x 20mm</td>
</tr>
<tr>
<td>S1228</td>
<td>Chisel Blade 5&quot; x 10mm</td>
</tr>
<tr>
<td>S1229</td>
<td>Chisel Blade 5&quot; x 8mm</td>
</tr>
<tr>
<td>S1230</td>
<td>Chisel Blade 5&quot; x 20mm</td>
</tr>
<tr>
<td>S1231</td>
<td>Chisel Blade 5&quot; x 12mm</td>
</tr>
</tbody>
</table>

**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>product</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5350-00</td>
<td>Set w/Case</td>
</tr>
<tr>
<td>5350-25</td>
<td>[1/4&quot;] Overall Length: 9&quot; Osteotome Width: .25&quot; (6.35mm)</td>
</tr>
<tr>
<td>5350-50</td>
<td>[1/2&quot;] Overall Length: 9&quot; Osteotome Width: .5&quot; (12.7mm)</td>
</tr>
<tr>
<td>5350-75</td>
<td>[3/4&quot;] Overall Length: 9&quot; Osteotome Width: .75&quot; (19mm)</td>
</tr>
<tr>
<td>5350-CB</td>
<td>[Cross Bar] 5350-CASE [Case]</td>
</tr>
</tbody>
</table>

- 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 handles are made of high impact surgical stainless steel and have 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.

**Flexible Chisel Blades:**

- Extra Long (9") Blade
- Curved Radial Blades are helpful in the removal of total hip stems.
Mueller-Type Cement Removal Instruments

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

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>S7500-00 [Complete Set with Case]</td>
</tr>
<tr>
<td>Individual Instruments:</td>
</tr>
<tr>
<td>S7505 [Narrow Cement Removal Gouge, Short]</td>
</tr>
<tr>
<td>Shaft Length: 150mm</td>
</tr>
<tr>
<td>Gouge: 9mm, negative</td>
</tr>
<tr>
<td>S7507 [Narrow Cement Removal Gouge, Long]</td>
</tr>
<tr>
<td>Shaft Length: 240mm</td>
</tr>
<tr>
<td>Gouge: 9mm, negative</td>
</tr>
<tr>
<td>S7510 [Narrow Offset Cement Removal Gouge]</td>
</tr>
<tr>
<td>Shaft Length: 240mm</td>
</tr>
<tr>
<td>Gouge: 9mm, negative</td>
</tr>
<tr>
<td>S7515 [Acetabular Chisel]</td>
</tr>
<tr>
<td>Shaft Length: 240mm</td>
</tr>
<tr>
<td>Chisel: 7.5mm</td>
</tr>
<tr>
<td>S7520 [Offset Chisel]</td>
</tr>
<tr>
<td>Shaft Length: 150mm</td>
</tr>
<tr>
<td>Chisel: 3mm</td>
</tr>
<tr>
<td>S7525 [Flared Angle Gouge]</td>
</tr>
<tr>
<td>Shaft Length: 240mm</td>
</tr>
<tr>
<td>Gouge: 9mm, positive, angle 15° down</td>
</tr>
<tr>
<td>S7530 [Wide Gouge]</td>
</tr>
<tr>
<td>Shaft Length: 240mm</td>
</tr>
<tr>
<td>Gouge: 11.5mm, negative</td>
</tr>
<tr>
<td>S7535 [&quot;V&quot; Splitter]</td>
</tr>
<tr>
<td>V-Shaped Chisel: 7mm</td>
</tr>
<tr>
<td>S7587 [Saddle Punch]</td>
</tr>
<tr>
<td>Shaft Length: 240mm</td>
</tr>
<tr>
<td>Punch: 16.5mm x 6.5mm</td>
</tr>
<tr>
<td>S7590 [Cement Splitting Osteotome]</td>
</tr>
<tr>
<td>Shaft Length: 240mm</td>
</tr>
<tr>
<td>S7595 [Cement Removal Osteotome, Short]</td>
</tr>
<tr>
<td>Shaft Length: 150mm</td>
</tr>
<tr>
<td>Osteotome: 8mm</td>
</tr>
<tr>
<td>S7597 [Cement Removal Osteotome, Long]</td>
</tr>
<tr>
<td>Shaft Length: 240mm</td>
</tr>
<tr>
<td>Osteotome: 8mm</td>
</tr>
<tr>
<td>S7540 [4.4mm Drill]</td>
</tr>
<tr>
<td>S7545 [4.4mm Drill Guide]</td>
</tr>
<tr>
<td>S7550 [6.4mm Drill]</td>
</tr>
<tr>
<td>S7555 [6.4mm Drill Guide]</td>
</tr>
<tr>
<td>S7560 [Straight Cement Removal Hook]</td>
</tr>
<tr>
<td>Hook Curette: 10mm</td>
</tr>
<tr>
<td>S7565 [Curved Cement Removal Hook]</td>
</tr>
<tr>
<td>Hook Curette: 10mm</td>
</tr>
<tr>
<td>S7570 [Cross Bar]</td>
</tr>
<tr>
<td>S7575 [7mm T-Handle Conical Tap]</td>
</tr>
<tr>
<td>S7580 [9mm T-Handle Conical Tap]</td>
</tr>
<tr>
<td>S7585 [Slotted Mallet]</td>
</tr>
<tr>
<td>9075 [Case Only]</td>
</tr>
</tbody>
</table>

Made in the USA

Proudly

UPPER EXTREMITY REVISION INSTRUMENTS

1.800.548.2362

FREE TRIAL ON MOST INSTRUMENTS
Craig-Type Extractor Set
Designed to firmly tighten circumferentially around a wire, pin, broken screw, etc. for removal — especially helpful for the removal of threaded pins
- Removes pins & screws up to 5mm (.2") diameter and wires as small as .8mm (1/32") diameter
- Five interchangeable collets for various grasping capacities
- Two cross-handle insert rods give strong leverage for locking the collet securely onto the pin
- Slap hammer included

Set includes:
- (1) handle draw bar,
- (1) closing sleeve with hand wheel,
- (5) collets (1mm to 5mm),
- (2) cross-handle insert rods,
- (1) slap hammer,
- (1) sterilization case

Shark Tooth Grasper  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.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1798 [Standard]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jaw Size:</td>
<td>6mm x 10mm</td>
</tr>
<tr>
<td>Overall Length:</td>
<td>10&quot;</td>
</tr>
<tr>
<td>Shaft Length:</td>
<td>7&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1799 [Long Shaft]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jaw Size:</td>
<td>6mm x 10mm</td>
</tr>
<tr>
<td>Overall Length:</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Shaft Length:</td>
<td>9&quot;</td>
</tr>
</tbody>
</table>

MADE EXCLUSIVELY FOR INNOMED IN GERMANY

Long Jaw Needle Nose Pliers

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>1833</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length:</td>
<td>7&quot;</td>
</tr>
<tr>
<td>Jaw Length:</td>
<td>2.25&quot;</td>
</tr>
<tr>
<td>Jaw Width Tapered from:</td>
<td>8mm to 1.5mm</td>
</tr>
<tr>
<td>Jaw Height Tapered from:</td>
<td>12mm to 2.5mm</td>
</tr>
</tbody>
</table>

MADE IN THE USA PROUDLY

WWW.INNOMED.NET  | 1.800.548.2362 | May 2013
Screw Extractor Set

**Designed to help remove screws with stripped or damaged heads**

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>S0142</td>
<td>Overall Length: 8&quot;</td>
</tr>
<tr>
<td>7250-00 [Set with Case]</td>
<td>Overall Length: 6&quot;</td>
</tr>
<tr>
<td>7250-01 [Small]</td>
<td>Overall Length: 6&quot;</td>
</tr>
<tr>
<td>7250-02 [Medium]</td>
<td>Overall Length: 6&quot;</td>
</tr>
<tr>
<td>7250-03 [Large]</td>
<td>Overall Length: 6&quot;</td>
</tr>
</tbody>
</table>

- Extractors must be used with drill in reverse.
- Screw head is reamed with burnishing end, and is then removed with the left turn thread end.
- Care must be taken to burnish no more than 1/16" (1.5mm) deep, as burnishing too deep can weaken the screw head.

Screw/Pin Removal Locking Pliers

**Unique jaw designed to solidly grip and clamp onto screw for removal**

Screw Removal Pliers

**Jaw designed to grasp onto a screw or screw head to help in removal**
Push button Quick-connect release mechanism

Ergonomic, modular handle with two connection points allows for both straight and T-handle orientations.

Universal Instrument Handle
The single handle allows the surgeon to decide which direction is most efficient and comfortable. The quick-connect release mechanism allows for quick interoperative exchange.

Universal Screw Removal Instrument System

The drive end (A/O) is designed for easy and quick engagement with the universal instrument handle.

PRODUCT NO’S:
S0010-00 [Complete System with Case]
Individual/Replacement Parts
S0113 [Universal 4” Instrument Handle]
S0128 [1.5mm Screw Extractor]
S0116 [2.5mm Screw Extractor]
S0130 [3.5mm Screw Extractor]
S0117 [1.5mm Hex Driver]
S0114 [2.5mm Hex Driver]
S0115 [3.5mm Hex Driver]
S0132 [4.0mm Hex Driver]
S0133 [5.0mm Hex Driver]
S0136 [2.5mm Cannulated Hex Driver]
S0137 [3.5mm Cannulated Hex Driver]
S0138 [4.0mm Cannulated Hex Driver]
S0139 [5.0mm Cannulated Hex Driver]
S0118 [Large Cruciform Screwdriver]
S0119 [Small Cruciform Screwdriver]
S0141 [Mini Cruciform Screwdriver]
S0120 [Single Slot Screwdriver]
S0121 [2.2mm Trephine]
S0122 [3.2mm Trephine]
S0123 [4.2mm Trephine]
S0124 [4.7mm Trephine]
S0125 [7.2mm Trephine]
S0127 [Universal Extractor – Shaft Only]
S0127-01 [Large Extraction Bolt Body]
S0127-03 [Small Extraction Bolt Body]
S0127-04 [Extractor Wrench]
S0129 [Pick]
S0140 [Cannulated Drive Extension]
S0147 [Screw Removal Case Only]  
Case Dimensions: 20” x 9.25”

Star Bit Driver Set

Helps eliminate the opening of multiple sterile packs when a specific size of star bit is needed

Helpful during revision total joint surgery. Set consists of four star bits — T10, T15, T20, & T25, a handle which accommodates any of the above bits, and a sterilization case. The drive end (A/O) is designed for easy and quick engagement with the universal instrument handle. The ergonomic, modular handle has two connection points, allowing for both straight and T-handle orientations.

PRODUCT NO’S:
5194-00 [4 Star Bits w/Handle & Case]
5194-01 [4 Star Bits w/Case only]
Also sold individually:
S0113 [Universal 4” Handle]
S0194-10 [T10 with A/O End]
S0194-15 [T15 with A/O End]
S0194-20 [T20 with A/O End]
S0194-25 [T25 with A/O End]
9003 [Case]

Designed to help remove a variety of screws—solid and cannulated: stripped hex screws, buried screws, partial screws with broken screw heads

Screw Extractors
Unique thread design accommodates removal of stripped screws. The instrument “locks” into the screw head and allows removal once engaged. Designed to be used in a counter-clockwise direction.

Hex Drivers
Solid shaft in all standard hex sizes.

Cannulated Hex Drivers
Four sizes with a cannulated shaft for easier removal of buried screws.

Trophines
Designed to fit over submerged screws for extraction with minimal bone loss. Extraction is enhanced by the unique tooth design. Designed to be used in a counter-clockwise direction.

Screwdrivers
Standard cruciform screwdrivers in large, small, and mini, and single slot.

Pick
Used to remove fragments and bone or tissue from screw head.

Universal Extractor
Designed to remove screws with heads partially or completely missing. The cone shaped head fully engages the remaining screw and optimizes the bite needed for removal. The bolt is disposable and locks into place using a unique thread design. Designed to be used in a counter-clockwise direction.

Cannulated Drive Extension
Used when a longer instrument shaft is desired.

Star Bit Driver Set

Helps eliminate the opening of multiple sterile packs when a specific size of star bit is needed

Helpful during revision total joint surgery. Set consists of four star bits — T10, T15, T20, & T25, a handle which accommodates any of the above bits, and a sterilization case. The drive end (A/O) is designed for easy and quick engagement with the universal instrument handle. The ergonomic, modular handle has two connection points, allowing for both straight and T-handle orientations.

PRODUCT NO’S:
5194-00 [4 Star Bits w/Handle & Case]
5194-01 [4 Star Bits w/Case only]
Also sold individually:
S0113 [Universal 4” Handle]
S0194-10 [T10 with A/O End]
S0194-15 [T15 with A/O End]
S0194-20 [T20 with A/O End]
S0194-25 [T25 with A/O End]
9003 [Case]
Cheng Screw Removal and Bone Trephine Set

Designed by Edward Cheng, MD

A standard 1.6mm (.062") threaded K-wire is used to help facilitate grasping and removal of a core bone sample. Cannulated handle assembly allows the passing of the threaded K-wire. (K-wire not included.)

**Product No's:**
- 1426-00 [Complete Set with Case]
  - Includes:
    - 1426-01 [Small Trephine] 5mm Internal Diameter Overall Length: 7.125"
    - 1426-02 [Medium Trephine] 6.5mm Internal Diameter Overall Length: 7.125"
    - 1426-03 [Large Trephine] 8mm Internal Diameter Overall Length: 7.125"
    - 1426-04 [Handle Assembly] Dimensions: 4" x 2"
- 1025 [Sterilization Case]
- Replacement Part: 1425-14-B-COMP [Handle Retaining Screw]

---

Hannum Tissue Grasper

Designed by Scott Hannum, MD

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.

**Product No's:**
- 1775-01 [Short Jaw] Jaw Width: 8mm Overall Length: 9.25"
- 1775-02 [Medium Jaw] Jaw Width: 5mm Overall Length: 9.25"
- 1775-03 [Long Jaw] Jaw Width: 3mm Overall Length: 9.25"

---

Comfort Grip Handle Retractors

Comfort grip ergonomic handle helps reduce fatigue and slippage.

**Product No's:**
- 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")
**Modular Impactor Set**

*Makes multiple impactor heads easily visible and available*

Designed to have available to the operating surgeon multiple types of impactors utilizing one handle. The rack uses less space and allows the surgeon to quickly see the designs available. The impactors are supplied with stainless steel tips for bone and delrin tips which can be used against an implant for slight placement adjustments.

**PRODUCT NO:**

5370 [Complete Set]

Overall Handle Length: 8”

Grip Length: 4.5”

Exposed Impactor Head Lengths: 1.45”

Base Diameter: 3.5”

**Ortho Impactors**

**PRODUCT NO’s:**

<table>
<thead>
<tr>
<th>Overall Length: 9”</th>
<th>Shaft Diameter: 9mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>5331</td>
<td>1/8” x 4mm Rectangle</td>
</tr>
<tr>
<td>5332</td>
<td>3/16” x 7mm Rectangle</td>
</tr>
<tr>
<td>5333</td>
<td>1/4” Diameter</td>
</tr>
<tr>
<td>5334</td>
<td>15mm Square</td>
</tr>
<tr>
<td>5335</td>
<td>12mm Round</td>
</tr>
<tr>
<td>5336</td>
<td>9mm Round</td>
</tr>
<tr>
<td>5337</td>
<td>11mm Round</td>
</tr>
</tbody>
</table>

**Universal Bone Grafting/Impacting Forceps**

*Designed by J.A. Aris, MD*

**Bone graft can be grasped, placed & impacted without changing hands or instruments**

The forceps are designed with grasping ends for delivery of bone graft. When the graft is in place, the forceps are closed, which forms the ends into an impacting punch. A striking platform is attached to the end of the forceps for tapping and tamping the graft. Four end diameters are available in two lengths.

**PRODUCT NO’s:**

<table>
<thead>
<tr>
<th>Overall Length: 9”</th>
<th>Shaft Diameter: 9mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>5010-01</td>
<td>1/8” Diameter</td>
</tr>
<tr>
<td>5010-02</td>
<td>3/16” Diameter</td>
</tr>
<tr>
<td>5010-03</td>
<td>1/4” Diameter</td>
</tr>
<tr>
<td>5010-04</td>
<td>5/16” Diameter</td>
</tr>
<tr>
<td>5050-01</td>
<td>1/8” Diameter</td>
</tr>
<tr>
<td>5050-02</td>
<td>3/16” Diameter</td>
</tr>
<tr>
<td>5050-03</td>
<td>1/4” Diameter</td>
</tr>
<tr>
<td>5050-04</td>
<td>5/16” Diameter</td>
</tr>
</tbody>
</table>

**Delrin Impactor Sizes**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>End Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8”</td>
<td>3/16”</td>
</tr>
<tr>
<td>1/4”</td>
<td>5/16”</td>
</tr>
</tbody>
</table>

**Stainless Impactor Sizes**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>End Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8”</td>
<td>3/16”</td>
</tr>
<tr>
<td>1/4”</td>
<td>5/16”</td>
</tr>
</tbody>
</table>

**Ortho Impactors**

**PRODUCT NO:**

5370 [Complete Set]

Overall Handle Length: 8”

Grip Length: 4.5”

Exposed Impactor Head Lengths: 1.45”

Base Diameter: 3.5”

**Ortho Impactors**

**PRODUCT NO’s:**

<table>
<thead>
<tr>
<th>Overall Length: 9”</th>
<th>Shaft Diameter: 9mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>5331</td>
<td>1/8” x 4mm Rectangle</td>
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<td>5333</td>
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<td>5334</td>
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</tr>
<tr>
<td>5335</td>
<td>12mm Round</td>
</tr>
<tr>
<td>5336</td>
<td>9mm Round</td>
</tr>
<tr>
<td>5337</td>
<td>11mm Round</td>
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</tbody>
</table>

**Ortho Impactors**

**PRODUCT NO’s:**

<table>
<thead>
<tr>
<th>Overall Length: 9”</th>
<th>Shaft Diameter: 9mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>5331</td>
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<td>15mm Square</td>
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<td>12mm Round</td>
</tr>
<tr>
<td>5336</td>
<td>9mm Round</td>
</tr>
<tr>
<td>5337</td>
<td>11mm Round</td>
</tr>
</tbody>
</table>
Ortho Mallets with Easy Grip Handles

These solid stainless steel mallets each have a comfortable 4½" grip made of a textured silicone that helps prevent the surgeon’s gloved hand from slipping and helps maintain a solid grip.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>PRODUCT DETAILS</th>
</tr>
</thead>
</table>
| 7805 [Cloward-Style] | Overall Length: 8"  
Handle Length: 4.5"  
Head Weight: 1 lb.  
Head Diameter: 1"  
Ball Pean Diameter: .75" |
| 7810 [Small] | Overall Length: 8"  
Handle Length: 4.5"  
Head Weight: 1 lb.  
Head Diameter: 1.3125" |
| 7815 [Large] | Overall Length: 8"  
Handle Length: 4.5"  
Head Weight: 1.75 lb.  
Head Diameter: 1.5" |

Soft Impact Mallets with Easy Grip Handles

Provides shock-absorbing force

Designed to have a shock-absorbing force, providing less bounce or wasted force. The Mallet is filled with a shock-absorbing media and has a flat striking surface to keep the Mallet centered on an instrument. The standard handle is manufactured of copolymer. The bottom can also be used to tap an implant in place.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>PRODUCT DETAILS</th>
</tr>
</thead>
</table>
| 7820 [2 lb. Standard] | Overall Length: 10.5"  
Handle Length: 5"  
Head Width: 3.5"  
Head Diameter: 1.375" |
| 7832 [2 lb. with Delrin End] | Overall Length: 10.5"  
Handle Length: 5"  
Head Width: 3.5"  
Head Diameter: 1.375" |
| 7837 [3 lbs. Standard] | Overall Length: 11"  
Handle Length: 5"  
Head Width: 3.5"  
Head Diameter: 1.875" |

Jones Mallet

Unique hand fitting shape provides superior gripping strength

This striking instrument has a unique hand fitting shape that provides superior gripping strength for accurate light to heavy impaction.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>PRODUCT DETAILS</th>
</tr>
</thead>
</table>
| 7825 [2.4 lbs] | Overall Length: 8.25"  
Head Width: 3"  
Head Diameter: 1.5" |
Cutting blade is easily replaceable, ensuring a sharp, precise cut every time — uses standard #10 scalpel blades (not included).

Spring clamp holds the cutting rail down, and can be moved aside, allowing the cutting rail to be rotated upward to facilitate a quick blade change.

Suture hook is used to grasp the suture and slightly pull it away, applying the proper tension for a clean, precise cut.

Pistol grip handle allows comfortable, one-handed use.

Push button is depressed with the thumb to engage the forward cutting action.

Internal stainless steel cannula (2mm) can be completely exposed by opening the swinging latch-cover mechanism, allowing easy insertion/release of a wire.

Budny Wire Drill Guide
Designed by Adam Budny, DPM

Designed to be used for the insertion of smooth and olive wires during the application of ring-based external fixation systems

Internal stainless steel cannula (2mm) can be completely exposed by opening the swinging latch-cover mechanism, allowing easy insertion/release of a wire.

PRODUCT NO: 1188
Wire not included.

The entire unit is autoclavable.

Goldstein Suture Cutter
Designed by Wayne M. Goldstein, MD

Allows for the use of a replaceable standard #10 scalpel blade, ensuring a precise cut and reducing the risk of tearing a suture, suture material, or surrounding tissue.

The entire unit is autoclavable.

PRODUCT NO: 5159
Overall length: 8.25"
Shaft length: 4.25"

Orthopedic Needle Holder/Scissors
Drive a needle and cut a suture without changing instruments

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
<th>Standard Tips</th>
<th>Tungsten Carbide Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>3045</td>
<td>4.5&quot;</td>
<td></td>
</tr>
<tr>
<td>3050 5.5&quot;</td>
<td>3055 5.5&quot;</td>
<td></td>
</tr>
<tr>
<td>3060 6.5&quot;</td>
<td>3065 6.5&quot;</td>
<td></td>
</tr>
<tr>
<td>3070 7.0&quot;</td>
<td>3075 7.0&quot;</td>
<td></td>
</tr>
</tbody>
</table>

The 10cm long cannula helps to provide stability and directional control during wire insertion.

Pistol grip allows ambidextrous use.

Longer sizes are helpful in orthopedics.
Universal Screwdriver Set
Helps eliminate the opening of multiple sterile packs when a specific size or style of screwdriver is needed

Helpful during revision total joint surgery where screws have been used, removal of bone plates, fracture fixation screws or bone graft screws.

Set consists of one handle and one sterilization/storage case, plus six double ended screwdriver bits:
- small & large single slot
- 3.5mm & 4.5mm hex
- small & large phillips
- #10 & #15 star
- #20 & #25 star

Product No’s:

<table>
<thead>
<tr>
<th>Product No’s</th>
<th>5 Pairs/Pack</th>
<th>25 Pairs/Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>5195</td>
<td>6.5</td>
<td>6.5</td>
</tr>
<tr>
<td>5195-01</td>
<td>7.0</td>
<td>7.0</td>
</tr>
<tr>
<td>5195-02</td>
<td>7.5</td>
<td>7.5</td>
</tr>
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<td>5195-03</td>
<td>8.0</td>
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<td>5195-04</td>
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</tr>
<tr>
<td>5195-05</td>
<td>9.0</td>
<td>9.0</td>
</tr>
</tbody>
</table>

Average Radiation Attenuation Levels Measured in the Direct Beam

<table>
<thead>
<tr>
<th>Beam Quality</th>
<th>Aluminum Half Value Layer</th>
<th>Measured Attenuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 kVp</td>
<td>HVL = 2.3mm</td>
<td>58.7%</td>
</tr>
<tr>
<td>80 kVp</td>
<td>HVL = 3.3mm</td>
<td>49.9%</td>
</tr>
<tr>
<td>100 kVp</td>
<td>HVL = 4.3mm</td>
<td>44.6%</td>
</tr>
<tr>
<td>120 kVp</td>
<td>HVL = 5.6mm</td>
<td>40.6%</td>
</tr>
</tbody>
</table>

Note: Double gloving with conventional latex surgical gloves provides only 1% attenuation.

Levels are measured by a fixed filter equivalent: 2.5mm Al.

Protect your hands!
Radiation Attenuating Surgical Gloves
Powder-free gloves provide increased protection from direct x-ray beam and scattered radiation

Reduced Exposure
Lead-free, surgical gloves attenuate direct or scattered rays and are an environmentally friendly alternative to leaded gloves.

Freedom of Movement
Gloves are very thin—ONLY 0.007”—to allow the greatest possible flexibility, dexterity, and sensitivity of touch while decreasing finger fatigue.

Natural Latex Free & Powder-Free
Reduced risk of natural rubber latex allergies.

Quality Guaranteed
All gloves are 100% tested for pin holes and leaks.

Applications: Fluoroscopy, Orthopedics, Radiotope Handling, Cardiology, Radiology, Dental, Nuclear Medicine

Average Radiation Attenuation Levels Measured in the Direct Beam

<table>
<thead>
<tr>
<th>Beam Quality</th>
<th>Aluminum Half Value Layer</th>
<th>Measured Attenuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 kVp</td>
<td>HVL = 2.3mm</td>
<td>58.7%</td>
</tr>
<tr>
<td>80 kVp</td>
<td>HVL = 3.3mm</td>
<td>49.9%</td>
</tr>
<tr>
<td>100 kVp</td>
<td>HVL = 4.3mm</td>
<td>44.6%</td>
</tr>
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Ring Curettes

Product No’s:

<table>
<thead>
<tr>
<th>Product No’s</th>
<th>5mm, Straight</th>
<th>6mm, Straight</th>
<th>8mm, Straight</th>
</tr>
</thead>
<tbody>
<tr>
<td>5150</td>
<td>3mm</td>
<td>5mm</td>
<td>5mm</td>
</tr>
<tr>
<td>5152</td>
<td>6mm</td>
<td>6mm</td>
<td>8mm</td>
</tr>
<tr>
<td>5154</td>
<td>8mm</td>
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<td>8mm</td>
</tr>
</tbody>
</table>

NB: Made for Innomed in Germany

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Note: Double gloving with conventional latex surgical gloves provides only 1% attenuation.

Levels are measured by a fixed filter equivalent: 2.5mm Al.

Universal Screwdriver Set
Helps eliminate the opening of multiple sterile packs when a specific size or style of screwdriver is needed

Helpful during revision total joint surgery where screws have been used, removal of bone plates, fracture fixation screws or bone graft screws.

Set consists of one handle and one sterilization/storage case, plus six double ended screwdriver bits:
- small & large single slot
- 3.5mm & 4.5mm hex
- small & large phillips
- #10 & #15 star
- #20 & #25 star

Product No’s:

<table>
<thead>
<tr>
<th>Product No’s</th>
<th>5mm, Bent</th>
<th>6mm, Bent</th>
<th>8mm, Bent</th>
</tr>
</thead>
<tbody>
<tr>
<td>5156</td>
<td>3mm</td>
<td>6mm</td>
<td>8mm</td>
</tr>
<tr>
<td>5157</td>
<td>3mm</td>
<td>6mm</td>
<td>8mm</td>
</tr>
<tr>
<td>5158</td>
<td>3mm</td>
<td>6mm</td>
<td>8mm</td>
</tr>
</tbody>
</table>

NB: Made for Innomed in Germany
**Angled Lowman-Type Bone Clamp**  
Designed by John J. McLeod, Jr., MD  
Angled for easier insertion of the jaws around the bone

**Durkan Ratchet Bone Clamps**  
Designed by John Durkan, MD  
Design of ratcheting mechanism allows for quick tightening and release around the bone

**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**

Designed to aid in the reduction of various fractures such as: spiral, transverse, compound, oblique, or butterfly. The clamp can also be manipulated with the clamp being used as a lever. Available in two sizes, large and small, it has teeth in the jaws for a better grip and a ratchet locking handle for use on various bone diameters.

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**Cartilage Grasper**

*Helps to grasp and hold cartilage, tendons, soft tissues and loose bodies*

Long 6” shaft allows for use in narrow spaces.

**Product No:**

1785

- **Shaft Length:** 6”
- **Overall Length:** 9.25”

**Made Exclusively For Innomed in Germany**

**Designed by T. Eickmann, MD**

---

**Ortho Suction Tube**

*Designed by T. Eickmann, MD*

*Very effective for suction and minor retracting*

Helps eliminate plugging due to bone, cement fragments, blood clots, etc.

**Product No:**

5465

- **Overall Length:** 9.25” (8.25” from knurl)
- **End Hole Dia.:** 1mm
- **Side Hole Dia.:** 1.5mm

**Made in the USA**

**Proudly**

---

**Ortho Caliper**

*Designed by Odell Woods*

**Product No:**

5285

- **Caliper:** 0 to 12cm
- **Leg Depth:** 2”
- **Overall Length:** 6” (expands to 10.5”)
- **Width:** 8mm

**Made in the USA**

**Proudly**

---

**DMP Wire Tightener**

*Designed by DMP*

*Used to hand tighten a cerclage wire around a bone*

Now with four wire holes — two for up to 20 gauge wires, and two for up to 18 gauge wires. T-Handle end is used to hand tighten a wire.

**Product No:**

8729

- **Overall Length:** 4.5”
- **Handle Width:** 2.625”
- **End Diameter:** 15mm

**Made in the USA**

**Proudly**

---

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Now with four wire holes — two for up to 20 gauge wires, and two for up to 18 gauge wires. T-Handle end is used to hand tighten a wire.

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**Made in the USA**

**Proudly**

---
Universal Multi-Nut Wrench  Designed to allow single-tool adjustment to any size nut from 1/4" to 3/4", reducing the need for multiple instruments.

Adjustable Wrench  Designed for quick one-handed adjustments
Opens to 7/8"

Large Handle Chuck Key  For easy tightening/untightening of a chuck
Designed to allow a chuck to be tightened and untightened easily.

Chuck Key Handle  Snaps onto a standard chuck key for better leverage
Designed to snap onto a standard chuck key giving better leverage during tightening of a chuck. Also helps keep a chuck key from slipping or being dropped during surgery.
Radiopaque Goniometers
Designed for Angle Determination
Transparent to X-ray—only white radiopaque markings show for easy reading. Used to check for X-ray distortion.
Ethylene Oxide Sterilize Only.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000 [Set of 3]</td>
</tr>
<tr>
<td>2006 [Finger-size] Overall Length: 5&quot;</td>
</tr>
<tr>
<td>2010 [Medium] Overall length: 8&quot;</td>
</tr>
<tr>
<td>2015 [Large] Overall length: 14&quot;</td>
</tr>
</tbody>
</table>

Incision Aligner
Designed by DMP
Designed to align an incision during closing
The bent ends of the aligner are placed at each end of an incision, which is aligned by pulling outward on each end. The sliding end will lock in place when it is tensioned. Pressing inward slightly on the sliding end will allow the aligner to be collapsed and removed.

| PRODUCT NO:
| 1330 Overall Length: 14" Blade Offset: 45mm |

Delrin Insert Pliers
Designed to grasp an implant for adjustment without marring the implant surface

| PRODUCT NO:
| 2025 Overall Length: 8 |
| 2025-03 [Replacement Insert] Includes top and bottom delrin jaws, two screws and a hex wrench |

Periosteal Elevator
Designed for better control
Designed with a curved end for easier use, and sharper sides for ease of elevating and stripping. The handle is designed for better control.

| PRODUCT NO:
| 3450 [Curved] Overall Length: 7.5" Handle Length: 4.5" Blade Size: 16x13mm |
| 3455 [Straight] Overall Length: 7.75" Handle Length: 4.5" Blade Size: 19x14mm |
Charnley Type Tissue Needle Forceps  
**Designed by Arnal Das Jr., MD**  
*Helpful for wound closure in deep areas with fascia under tension such as hip or knee replacement*  
Can also help retrieve a needle in a tight area.

**PRODUCT NO:**  
1165  
Overall Length: 6.875”

---

Long Bonney Tissue Forceps  
**PRODUCT NO:**  
5040  
Overall Length: 10”

---

Freeman Forceps  
**Designed by Carl R. Freeman, MD**  
*Designed to help with hand pain, fatigue, and hand arthritis*  
Allows surgeons to utilize a forceps or pickup type instrument using a more mechanically and ergonomically favorable grip. Forceps can be used with a full-hand grip or “palmed.”

**PRODUCT NO:**  
1174  
Overall Length: 6.875”

---

Mini-lexer Osteotomes  
**PRODUCT NO’S:**  
5270-01  
Blade Width: 4mm  
Overall Length: 7.25”  
Handle Length: 4”  
5270-02  
Blade Width: 6mm  
Overall Length: 7.25”  
Handle Length: 4”  
5270-03  
Blade Width: 10mm  
Overall Length: 7.25”  
Handle Length: 4”  
5270-04  
Blade Width: 12mm  
Overall Length: 7.25”  
Handle Length: 4”

---

Helpful in osteophyte and cement removal  
Small, thin osteotomes helpful in osteophyte and cement removal in total joint surgery. Larger handle helps with better control.
differences may exist between actual...
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.

NEW
Williams Distal Radius Fracture Retractor
Designed by Craig S. Williams, MD and Eric Dahlinger

Designed to provide excellent exposure during fracture reduction and plating

PRODUCT NO’S:
1837-L [Left] For Pins up to .045" (1.1mm)
Overall Length: 4.5"
Blade Depth: 20mm
Blade Width: 12.5mm

1837-R [Right] For Pins up to .045" (1.1mm)
Overall Length: 4.5"
Blade Depth: 20mm
Blade Width: 12.5mm

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