Primary & Revision Hip

INSTRUMENTS

INSTRUMENTS FOR ORTHOPEDIC SURGERY

1.800.548.2362
WWW.INNOMED.NET


plus a new instrument section
for knee, trauma, shoulder, small bone, and spine
Extra Long Rongeur
Helpful in minimally invasive total hip surgery by keeping hands out of the field of view

**PRODUCT NO'S:**
- **1771-01**
  - Jaw Bite: 5 x 16mm
  - Overall Length: 14"
- **1771-02**
  - Jaw Bite: 8 x 16mm
  - Overall Length: 14"
- **1771-03**
  - Jaw Bite: 12 x 16mm
  - Overall Length: 14"

Mazzara Pistol Grip Extra Long Rongeur
Designed by James T. Mazzara, MD
Pistol Grip handle lessens hand fatigue and slippage, and allows for better visualization

**PRODUCT NO:**
- **1768-02**
  - Jaw Bite: 8 x 16mm
  - Overall Length: 12.5"
  - Shaft-to-End Length: 6"

Hannum Tissue Grasper
Designed by Scott Hannum, MD
Teeth in jaw firmly holds bone and tissue
Three jaw sizes available.
Mazzara Rongeur with Pistol Grip Handle
Designed by James T. Mazzara, MD

Pistol Grip handle lessens hand fatigue and slippage, and allows for better visualization

PRODUCT NO’S:
1765-01  Jaw Bite: 5 x 14mm  Overall Length: 10”
1765-02  Jaw Bite: 7 x 16mm  Overall Length: 10”
1765-03  Jaw Bite: 10 x 16mm  Overall Length: 10”

Macko Square Tipped Rongeur
Designed by Victor W. Macko, MD

Unique square tipped rongeur features 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  Jaw Bite: 5 x 18mm  Overall Length: 10”
1778-02  Jaw Bite: 7 x 18mm  Overall Length: 10”
1778-03  Jaw Bite: 10 x 18mm  Overall Length: 10”

Ortho Rongeur with Easy Grip Handle
Offset handle lessens hand fatigue and slippage, and allows for better visualization

PRODUCT NO’S:
1780-01  Jaw Bite: 5 x 14mm  Overall Length: 8.75”
1780-02  Jaw Bite: 7 x 16mm  Overall Length: 8.75”
1780-03  Jaw Bite: 10 x 16mm  Overall Length: 8.75”

Offset handle gives better gripping power and helps reduce hand fatigue. Finger grooves help to prevent hand slippage. The offset handle also allows for better visualization. Available in three jaw bite sizes.
Hurst Alpha Angle Tool
Designed by Jason M Hurst, MD
Used for the quick measurement of the alpha angle and lateral center-edge angle from both plain hip radiographs or digital images displayed on a computer monitor.

To measure the alpha angle from lateral radiographs:
The device is held up to the computer monitor or light box with the center screw of the tool placed in the center of the femoral head. The concentric circles are used as a “perfect circle” reference for the femoral head so that the center screw can be placed in the absolute center.
The “0 degree line” is then directed vertically on the pelvis, with the 90 degree line parallel to the transischial line.
The outer disc with the dashed line is rotated until it intersects with the region of femoral head asphericity—where the head begins to go “out of round.”
The corresponding angle measurement is the representative alpha angle.

To measure the lateral center-edge angle from AP radiographs:
The center screw of the tool is placed in the center of the femoral head using the concentric circles to center the device.
The “0 degree line” is then directed vertically on the pelvis, with the 90 degree line parallel to the transischial line.
The outer disc with the dashed line is rotated until it intersects with the lateral edge of the acetabular rim.
The corresponding angle measurement is the representative lateral center-edge angle.

Cheng Biopsy Trephine System
Designed by Edward Cheng, MD
Using a threaded K-wire facilitates grasping and removal of a core bone sample for biopsy or core decompression.

- Allows use of trephine at oblique angles to bone surface by using an anchoring K-wire and cannulated trephine
- Avoids “skipping” of trephine teeth on bone surface
- Facilitates optimal approach angle and direction of trephine
- Variety of core diameters yields bone samples of sufficient size for pathology
- Adapters allow for use of a power drill
- Minimally invasive — soft tissue sleeve protects surrounding structures and tissue
- Can also be used for bone graft harvesting
- Repositioning guide allows easy adjustment of targeting K-wire
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.

**PRODUCT NO’S:**
- 2000 [Set of 3]
- 2005 [Finger-size]
- 2010 [Medium]
- 2015 [Large]

Overall Length:
- 5”
- 8”
- 14”

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**Cheng Screw Removal and Bone Trephine Set**
*Designed by Edward Cheng, MD*

**PRODUCT NO’S:**
- 1426-00 [Complete Set with Case]
- 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]
- 1025 [Sterilization Case]
- 1425-14-B-COMP [Handle Retaining Screw]

**Trephine Tips**

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**Sterilizable Level**
*Steam sterilizable for use in surgery*

Helpful in hip surgery to ensure the leg is in the same position when checking leg length.

**PRODUCT NO:**
- 1180
- Dimensions: 2” x .5” x .75”
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
- cross & cruciate
- 3.5mm & 4.5mm hex
- #10 & #15 star
- #20 & #25 star

PRODUCT NO'S:

5195 [Complete Set with Storage Case] Also sold individually
5195-01 [Handle]
5195-02 [Straight (single slot)]
  Large: 7x1.5mm, Small: 5x1mm
5195-03 [Cross, Cruciate]
  Large: 7mm, Small: 6mm
5195-04 [Hex]
  Large: 4.5mm, Small: 3.5mm
5195-05 [Phillips]
  Large: 4mm, Small: 3.5mm
5195-06 [Small Star: #10 & #15]
5195-07 [Large Star: #20 & #25]
Unger
Canal Finder Rasp
Designed by Anthony Unger, MD
Designed to help shape the femoral canal after reaming

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
<th>Overall Length: 11”</th>
<th>Handle Length: 5”</th>
</tr>
</thead>
<tbody>
<tr>
<td>3004 [Straight]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3004-01 [Curved]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Rockowitz T-Handle Femoral Canal Finder Rasp
Designed by Neal L. Rockowitz, MD
Designed to sound the femoral canal prior to stem broaching, especially useful to help start the broach path during the direct anterior approach

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Overall Length: 11”</th>
</tr>
</thead>
<tbody>
<tr>
<td>4990</td>
<td></td>
</tr>
</tbody>
</table>

Namba Hip Slide
Designed by Robert S. Namba, MD
Safely glides femoral heads into the acetabulum — essential for ceramic heads

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
<th>Overall Length: 12”</th>
</tr>
</thead>
<tbody>
<tr>
<td>6890</td>
<td>For 22–40mm heads</td>
</tr>
<tr>
<td>6891</td>
<td>For 40–48mm heads</td>
</tr>
<tr>
<td>6892</td>
<td>For 50–60mm heads</td>
</tr>
</tbody>
</table>

Facilitates MIS hip replacement procedures
Smallest size now accommodates up to 40mm
Wixson Leg Length Gauge
Designed by R.L. Wixson, MD

Used for interoperative leg length measurement during minimally invasive total hip arthroplasty
Fits in 5/64 drill hole in trochanter underneath fascia and skin incision. Measures to a skin mark over the iliac crest with the leg supported in a standardized position (e.g. resting on a Mayo stand).

AccuAngle Indicator
Designed by S. David Stulberg, MD, A. Llinas, MD and J. Navas, MD

Helps to accurately predetermine angles for acetabular cup positioning and insertion

Calibrated from 0 to 45°, the indicator may be used on the reamer shaft, the trial cup shaft and the cup impactor shaft.
Designed to allow the surgeon to consistently and quickly achieve the desired component position during each step of acetabular preparation and component positioning: acetabular reaming, trial component positioning, and actual component insertion. Steam sterilizable without vacuum.
**Leg Length Caliper**

*Designed by Michael Cannestra, MD*

*Designed to help measure and evaluate pre- and post-THR leg length in conjunction with X-ray calibration and clinical judgement*

Utilizes a 5/32" (4mm) pin in the wound just proximal to the acetabulum and a 1/8" (3.2mm) pin in the greater trochanter. (The soft tissue is cleared away and a single drill hole is made in the trochanter to accommodate the distal pin; the hole is marked with methyline blue so it can be easily found.) Alternatively, a 7.3mm cannulated screw that accepts a 3.2mm pin may be used in the greater trochanter. Using the sliding caliper, the difference in leg length measurement before hip dislocation and after the THR procedure helps show the change in leg length.

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>1195 [Complete Set]</th>
<th>Includes: Caliper, Sterilizable Level, and Sterilization Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>1195-01 [Caliper Only]</td>
<td>Overall Length: 4.5-6.5&quot;</td>
</tr>
<tr>
<td>1180 [Sterilizable Level Only]</td>
<td>Dimensions: 2&quot; x .5&quot; x .75&quot;</td>
</tr>
<tr>
<td>1025 [Sterilization Case]</td>
<td>Helps to ensure the leg is in the same plane when initially putting the leg length caliper on and when reattaching the caliper.</td>
</tr>
</tbody>
</table>

**Cannestra Hip Length Gauge**

*Designed by Vincen Cannestra, MD*

*Helps determine leg length and hip offset in total hip arthroplasty, including minimally invasive techniques*

Set consists of one Ruler, one Pin Inserter/Extractor Handle, one 100mm Pin and one 130mm Pin.

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>1327-00 [Set]</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1327-01 [Pin – 100mm]</td>
<td></td>
</tr>
<tr>
<td>1327-02 [T-Handle]</td>
<td>Dimensions: 8&quot; x 5&quot;</td>
</tr>
<tr>
<td>1327-03 [Ruler]</td>
<td></td>
</tr>
<tr>
<td>1327-04 [Pin – 130mm]</td>
<td></td>
</tr>
</tbody>
</table>

**Contact us for a detailed instruction brochure.**

*Made in the USA*
O’Reilly Femoral Head Extractor

Designed by Michael F. O’Reilly, MD

**O’Reilly Femoral Head Extractor**

**PRODUCT NO:**
3675
- Overall Length: 9.5"
- Hammer Platform: 1.125" Dia.
- Width at End: 1.1"

**Designed to help remove the femoral head during THA, MIS Direct Anterior THA, and hip fracture surgery/hemiarthroplasty**

The perpendicular osteotome blades help provide purchase in osteoporotic bone, while the central osteotome provides a visual estimate of the instrument’s depth of penetration to avoid acetabular injury with use during hemiarthroplasty.

The handle helps obtain rotational torque needed to rotate and dislocate the femoral head in direct anterior hip arthroplasty.

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Two Pin Extractor

**Helps to control rotation when removing a resected femoral head**

Can be used with two femoral head removal pins to help remove a femoral head in total hip or hip fracture surgery. The side by side pins help to control rotation, giving the surgeon better control of the resected head.

**PRODUCT NO:**
3032
- [For pins up to 3/16" (4.8mm)]
- Overall Length: 5.5"

Optional Long Pins:
- 1310
- Overall Length: 9"
- Diameter: 5/32"

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Femoral Head Removal Pin

**Used to help remove a femoral head during total hip surgery**

Partial threaded pin can be used to help remove a femoral head during total hip surgery. The pin is especially helpful in minimally invasive total hip surgery where access to the femoral head is limited. The pin is attached to a pin driver which clamps onto a Jacob chuck. When the pin is drilled in place, the driver is easily removed from the pin, as the pin is held by a friction ring. The head can be removed by gripping the pin by hand or by using a large pin inserter/extractor.

**PRODUCT NO’S:**
- 1310 [Pin]
  - Overall Length: 9"
  - Diameter: 5/32"
- Optional Inserters/Extractors:
  - 1205 [Pin Driver]
  - 3030 [Pin Inserter/Extractor]
  - 3032 [Two Pin Extractor]
**Femoral Head Removal Clamp**

Firmly locks onto a resected femoral head during total hip, hip fracture, and MIS total hip surgery.

Designed to firmly lock onto a resected femoral head during total hip surgery or hip fracture. Narrow design is also useful in minimally invasive total hip surgery with limited access to the femoral head.

**PRODUCT NO:** 3680

**Overall Length:** 10.75"  
MADE EXCLUSIVELY FOR INNOMED IN GERMANY

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**Expanding Cannulated Corkscrew Femoral Head Remover**

Designed with internal blades which can be expanded from the inside out to better engage a femoral head for successful removal.

- Can be inserted with hand pressure or with tap and turn method
- Engagement blades are aligned perpendicular to the large T-handle

**PRODUCT NO:** 3710

**Overall Length:** 10.5"  
MADE IN THE USA PROUDLY

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**Self Tapping Femoral Head Remover**

Used to remove femoral heads during total hip arthroplasty or fracture surgery.

**PRODUCT NO:** 3690

**Overall Length:** 8.75"  
MADE IN THE USA PROUDLY

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**Femoral Head Remover with Hudson Style Quick-Connect**

Used to remove a femoral head during total hip arthroplasty or fracture surgery.

**PRODUCT NO:** 3688

**Overall Length:** 8.5"  
MADE IN THE USA PROUDLY

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**Engagement blades expanded**

**Engagement blades not expanded**

**Designed by Tim Seachris**
Long Bonney Tissue Forceps
Extra length—3" more than standard—allows for use in deep wound areas

PRODUCT NO: 5040
Overall Length: 10"

Made Exclusively for Innomed in Germany

Charnley Type Tissue Needle Forceps
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"

Made Exclusively for Innomed in Germany

Lombardi Self-holding X-ray Magnification Marker
Helps to remove the variable of X-Ray magnification factor from the process of Orthopedic templating

Fully positionable, this orthopedic X-Ray calibration and marking device features a 1" (25.4mm) stainless steel ball which, when properly positioned at bone level on a precise anatomical plane, will be this exact size when viewed from all angles, allowing it be used as a calibration marker in surgical planning software applications, helping to gauge the size of other components on that plane. This helps establish precise anatomical measurement.

PRODUCT NO: 2672
Base Dimensions: 11" x 5.25"
Post Height: 7"
Arm Maximum Length: 13"

Proudly Made in the USA
**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”

**Made Exclusively for Innomed in Germany**

**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.

**PRODUCT NO:**

1798 [Standard]  
Jaw Size: 6mm x 10mm  
Overall Length: 10”  
Shaft Length: 7”

1799 [Long Shaft]  
Jaw Size: 6mm x 10mm  
Overall Length: 12”  
Shaft Length: 9”

**Made Exclusively for Innomed in Germany**

**Orthopedic Needle Holder/Scissors**

**Drive a needle and cut a suture without changing instruments**

**PRODUCT NO’S:**

- Standard Tips
  - 3050 5.5”
  - 3060 6.5”
  - 3070 7.0”

- Tungsten Carbide Tips
  - 3045 4.5”
  - 3055 5.5”
  - 3065 6.5”
  - 3075 7.0”

**Made for Innomed in Germany**

**Longer sizes are helpful in orthopedics.**
**Modular Head Holder**

Designed to hold 22mm to 36mm heads for ease of insertion in minimally invasive THR

Head holding ends are plastic coated to help eliminate any damage to the implant. Available in two lengths. Steam and gas sterilizable.

**PRODUCT NO'S:**
- 8290-01
  - Overall Length: 7"
- 8290-02
  - Overall Length: 9"

**Designed by Byron E. Dunaway, MD & Wayne Goldstein, MD**

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**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**

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**Offset Cup Liner Inserter**

Offset to improve visualization and for mis hip surgery

**PRODUCT NO'S:**

- 5022
  - Head Diameter: 22mm
  - Overall Length: 16.25"
- 5026
  - Head Diameter: 26mm
  - Overall Length: 16.25"
- 5028
  - Head Diameter: 28mm
  - Overall Length: 16.25"
- 5032
  - Head Diameter: 32mm
  - Overall Length: 16.25"
- 5036
  - Head Diameter: 36mm
  - Overall Length: 16.25"
- 5038
  - Head Diameter: 38mm
  - Overall Length: 16.25"

**Designed by Byron E. Dunaway, MD & Wayne Goldstein, MD**

---

**Taper Head Impactor**

Designed to impact a modular head during minimally invasive THR

The impactor has a protective coating to interface against the implant to help prevent damage while seating the implant. Can be used with 22mm to 36mm heads. Steam and gas sterilizable.

**PRODUCT NO:**
- 7840
  - Overall Length: 12"

**Designed by Byron E. Dunaway, MD & Wayne Goldstein, MD**

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### Tissue Protector Sleeve for Intramedullary Reaming
*Helps minimize soft tissue damage and damage to the hip abductor mechanism while reaming the intramedullary canal*

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>6010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length:</td>
<td>5&quot;</td>
</tr>
<tr>
<td>Tube Internal Diameter:</td>
<td>5/8&quot;</td>
</tr>
</tbody>
</table>

### Tissue Protector
*Helps protect tissue when a straight reamer is being used*

Designed to be used when a straight reamer is being used in a bone canal. Very useful in minimally invasive total hip arthroplasty.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5480-01</td>
<td>Inside Diameter: 19mm</td>
</tr>
<tr>
<td>Overall Length:</td>
<td>6.5&quot;</td>
</tr>
<tr>
<td>Tube Depth:</td>
<td>3.875&quot;</td>
</tr>
<tr>
<td>5480-02</td>
<td>Inside Diameter: 24mm</td>
</tr>
<tr>
<td>Overall Length:</td>
<td>6.5&quot;</td>
</tr>
<tr>
<td>Tube Depth:</td>
<td>3.875&quot;</td>
</tr>
</tbody>
</table>

### Angled Capsule Scissors
*Angled scissors allow a greater range of capsular access*

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3079 [45°]</td>
<td>Overall Length: 9.5&quot;</td>
</tr>
<tr>
<td>Scissor Angle:</td>
<td>45°</td>
</tr>
<tr>
<td>3082 [30°]</td>
<td>Overall Length: 10&quot;</td>
</tr>
<tr>
<td>Scissor Angle:</td>
<td>20°</td>
</tr>
</tbody>
</table>

### Mongold Capsule Knife
*Designed to reach behind the femoral head to release the capsule ligament*

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>4115</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length:</td>
<td>7.75&quot;</td>
</tr>
<tr>
<td>Blade Diameter:</td>
<td>2&quot;</td>
</tr>
<tr>
<td>Blade Width:</td>
<td>.5&quot;</td>
</tr>
</tbody>
</table>
Large Handle Chuck Key
For easy tightening/untightening of a chuck
Designed to allow a chuck to be tightened and untightened easily.

PRODUCT NO:
5517-01
Chuck Size: 1/4"
Overall Length: 10.5"
Handle Length: 4.5"

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.

PRODUCT NO:
5560
Overall Length: 4"

Curved Femoral Head Impactor
Allows for in-line femoral head impaction during minimally invasive THR
The curved offset handle allows the head impactor to be slid under the skin of a small incision, and helps provide hand-held stability and maneuverability within the wound, while the impaction platform is easily accessible outside the wound. The impaction disc is made of delrin, which helps prevent marring and scratching of components.

PRODUCT NO:
3644
Overall Length: 7.25"
Reusable delrin scraper is designed to help remove cement around a knee or hip prosthesis

**Product No:**
5218
**Overall Length:** 5"
**Thickness:** 1/8" (3.1mm)

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 nitrite coated to help eliminate metal transfer.

Seachris Delrin Cement Scraper
Designed by Timothy Seachris
Reusable delrin scraper is designed to help remove cement around a knee or hip prosthesis

**Product No:**
5245
**Overall Length:** 8.5"

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 nitrite coated to help eliminate metal transfer.

**Product No:**
5218
**Overall Length:** 5"
**Thickness:** 1/8" (3.1mm)

Seachris Delrin Cement Scraper
Designed by Timothy Seachris
Reusable delrin scraper is designed to help remove cement around a knee or hip prosthesis

**Product No:**
5245
**Overall Length:** 8.5"

Robb Cement Curette
Designed by William Robb, MD
Designed to help remove cement around a hip or knee prosthesis

**Product No:**
5635
**Overall Length:** 8"
**Freer End:** 5mm
**Cup End:** 10mm

Made of Delrin

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

**Product No:**
4995
**Overall Length:** 9.75"

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 nitrite coated to help eliminate metal transfer.

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**Product No:**
5245
**Overall Length:** 8.5"

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

**Product No:**
4995
**Overall Length:** 9.75"
Clear Vision Debris Shield  Designed by R. Barry Sorrells, MD

Provides a degree of restriction from flying debris or liquid during surgery

Held between the surgical site and the operating personnel, the shield provides a clear undistorted view, while helping to protect the patient and personnel from possible contamination. The reamer-slotted version allows the shield to straddle a reamer shaft or drill bit, allowing the shield to be closer to the incision. Both shields and the sterilization case are autoclavable and gas sterilizable.

**PRODUCT NO'S:**
- Shield Dimensions: 8" x 10.25" (not incl. handle)
  - 8031  [No Reamer Slot, with Case]
  - 8031-01  [No Reamer Slot, No Case]
  - 8031-C  [Sterilization Case, Dimensions: 9.25" x 4.375" x .675"]
  - 8033  [With Reamer Slot, with Case]
  - 8033-01  [With Reamer Slot, No Case]

**Debris Shield w/ Sterilization Case**

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”)

**Incavo Wire Passer**

Extra Leverage Side Cutter  Designed to allow one-handed cutting of a wire

Used for cutting wires up to 3.2mm (1/8”,.125”)

**PRODUCT NO:**
- 1116  
  - Overall Length: 8”

**Extra Leverage Side Cutter**
### 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:**

<table>
<thead>
<tr>
<th>Product No:</th>
<th>Overall Length:</th>
<th>Handle Width:</th>
<th>End Diameter:</th>
</tr>
</thead>
<tbody>
<tr>
<td>8729</td>
<td>4.5”</td>
<td>2.625”</td>
<td>15mm</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
Adjustable Wrench
Designed for quick one-handed adjustments
Opens to 7/8”

PRODUCT NO:
5015
Overall Length: 8”
Handle Length: 5.5”

Lombardi Cement/Antibiotic Sifter
Designed by Adolph V. Lombardi Jr., MD

PRODUCT NO:
5215
Overall Length: 14”
Sifter Diameter: 5”

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

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

Primary & Revision Hip Instruments
FREE TRIAL ON MOST INSTRUMENTS
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

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

**PRODUCT NO’S:**
4860 [Left] Overall Length: 8” Handle Length: 6.25” Mirror #1: 32x13mm Mirror #2: 19x16mm
4861 [Right] Overall Length: 8” Handle Length: 6.25” Mirror #1: 32x13mm Mirror #2: 19x16mm

Incision Aligner
Designed by DWP
Designed to align an incision during closing

**PRODUCT NO:** 1330
Overall Length: 14” Blade Offset: 45mm

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.

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’S:**
3450 [Curved] Overall Length: 7.5” Handle Length: 4.5” Blade Size: 16x13mm
3455 [Straight] Overall Length: 7.5” Handle Length: 4.5” Blade Size: 19x14mm
**Large Bone Curettes**

*Designed with a handle for better control, which helps reduce rotation of the osteotome during use. The handle also provides a larger striking area for use with a mallet. The osteotome shafts are manufactured with stainless steel and are available both straight and curved.*

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5160</td>
<td>Set of 1 each including Case</td>
</tr>
<tr>
<td>5160-01</td>
<td>[Angled Small] Curette End: 10mm X 18mm Overall Length: 15” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5160-02</td>
<td>[Straight Small] Curette End: 10mm X 18mm Overall Length: 15” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5160-03</td>
<td>[Angled Medium] Curette End: 10mm X 24mm Overall Length: 15” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5160-04</td>
<td>[Angled Large] Curette End: 24mm X 24mm Overall Length: 15” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5160-05</td>
<td>[Straight Medium] Curette End: 10mm X 24mm Overall Length: 15” Handle Length: 4.5”</td>
</tr>
</tbody>
</table>

**Lambotte Osteotomes with Handle**

*Handle allows for better control, reducing rotation during use.*

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5250-01</td>
<td>[Straight] Blade Wdth: .25” (6.3mm) Overall Length: 13” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5260-01</td>
<td>[Curved] Blade Wdth: .25” (6.3mm) Overall Length: 13” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5170-01</td>
<td>[Straight] Curette End: 3mm x 6mm Overall Length: 21.5” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5170-02</td>
<td>[Straight] Curette End: 6mm x 9mm Overall Length: 21.5” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5170-03</td>
<td>[Arced] Curette End: 3mm x 6mm Overall Length: 21.5” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5170-04</td>
<td>[Arced] Curette End: 6mm x 9mm Overall Length: 21.5” Handle Length: 4.5”</td>
</tr>
</tbody>
</table>

**Long Curettes**

*Used for limited access cement or bone removal*.

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5160-01</td>
<td>[Straight] Curette End: 10mm X 18mm Overall Length: 15” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5160-02</td>
<td>[Curved] Curette End: 10mm X 18mm Overall Length: 15” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5170-01</td>
<td>[Straight] Curette End: 3mm X 6mm Overall Length: 21.5” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5170-02</td>
<td>[Straight] Curette End: 6mm X 9mm Overall Length: 21.5” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5170-03</td>
<td>[Arced] Curette End: 3mm X 6mm Overall Length: 21.5” Handle Length: 4.5”</td>
</tr>
<tr>
<td>5170-04</td>
<td>[Arced] Curette End: 6mm X 9mm Overall Length: 21.5” Handle Length: 4.5”</td>
</tr>
</tbody>
</table>

**Primary & Revision Hip Instruments**

*1.800.548.2362 | Free Trial on Most Instruments*
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.

PRODUCT NO:
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 lb. Standard]
Overall Length: 11”
Handle Length: 5”
Head Width: 3.5”
Head Diameter: 1.375”

Jones Mallet

Designed by Dickie Jones, MD

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.

PRODUCT NO:
7825 [2.4 lbs]
Overall Length: 8.25”
Handle Length: 3”
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.

PRODUCT NO’s:
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 lb. Standard]
Overall Length: 11”
Handle Length: 5”
Head Width: 3.5”
Head Diameter: 1.375”

PRODUCT NO:
7805 [Cloward-Style]
Overall Length: 9”
Handle Length: 4.5”
Head Weight: 1 lb.
Head Diameter: 1”
Ball Pean Diameter: .75”

7810 [Small]
Overall Length: 9”
Handle Length: 4.5”
Head Weight: 1 lb.
Head Diameter: 1.3125”

7815 [Large]
Overall Length: 9”
Handle Length: 4.5”
Head Weight: 1.75 lb.
Head Diameter: 1.5”

MADE IN THE USA PROUDLY

INNOMED.NET 1.800.548.2362 July 2013
Bone Hooks

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

Designed by R.L. Wixson, MD

Lombardi Bone Hooks

Designed by Adolph V. Lombardi, MD

PRODUCT NO’S:

5925 [Small]
Curve Diameter: 25mm
Overall Length: 10"

5930 [Medium]
Curve Diameter: 35mm
Overall Length: 10"

5935 [Large]
Curve Diameter: 55mm
Overall Length: 10"
Universal Bone Grafting/Impacting Forceps  
Designed by J.A. Amis, 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.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Short: 6” Length</th>
<th>Long: 10” Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5010-01</td>
<td>1/8” Diameter End</td>
<td>5050-01</td>
</tr>
<tr>
<td>5010-02</td>
<td>3/16” Diameter End</td>
<td>5050-02</td>
</tr>
<tr>
<td>5010-03</td>
<td>1/4” Diameter End</td>
<td>5050-03</td>
</tr>
<tr>
<td>5010-04</td>
<td>5/16” Diameter End</td>
<td>5050-04</td>
</tr>
</tbody>
</table>

When the forceps are closed, they form into an impacting punch.

Namba Bone Graft Slide  
Designed by Robert S. Namba, MD  

Helps to efficiently guide allograft material into the acetabulum  
Helps reduce waste of expensive allograft material by providing a holding trough and slide for effective, directed delivery.

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>6888</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Overall Length: 7.75”</td>
</tr>
</tbody>
</table>

Allograft Bone Vise  
Holds allograft bone for reaming, shaping or cutting  
The vise is designed with two sets of vise jaws for reaming of two femoral heads and also for holding a long bone horizontally and vertically. The base plate is designed with a table flange for stabilization during use. The vise is completely autoclavable.
Bone Mill

Used to produce allograft material

- Grinds bone of various densities
- Produces bone graft of excellent quality for impaction
- 2 cutting cylinders are included for variable size bone graft
- Attaches securely with table clamp
- Fully autoclavable and easy to dismantle for cleaning
- Includes housing, two cutting cylinders, handle, push block and table clamp

**PRODUCT NO’S:**

8205 [Compete Unit including 2 Cylinders and Clamp]
   Overall Length (without crank): 12”

**Replacement Cutting Cylinders:**

8205-01 [3.2mm Hole Diameter/5 Cutting Rows]
8205-02 [4.2mm Hole Diameter/4 Cutting Rows]

DMP Coring Instrument and Head Holder

Designed by DMP

**Designed for handheld removal of cancellous bone from a resected femoral head**

A resected or allograft femoral head can be held with the Head Holder for reaming with the Coring Instrument. Cancellous bone is contained within the reamer head, which can be removed from the shaft for easy removal of the cancellous bone.

**PRODUCT NO’S:**

8250 [Set]

**Individual/Replacement Parts:**

8250-01 [Coring Instrument]
   Overall Length: 4.125”
8250-02 [Reamer Head]
8260 [Head Holder]
   Overall Length: 8.25”

Kudrna Hip Stem Taper Protectors

Designed by James Kudrna, MD

**Used to cover and protect the hip stem taper of a femoral component — especially helpful in cup revision surgery**

**PRODUCT NO’S:**

1151 [11/13]
1152 [12/14]
1153 [14/16]
**Offset Long Curettes**
Offset bayonet shaft allows for better visualization and the large handle can be used two-handed
Oval Cup Curettes with an Up Angle Tip, Offset Bayonet Shaft, and a Two-Handed Handle

**Offset ergonomic design offers a clear line of sight over the users hands**

---

**Extra Long Double Action Needle Nose Graspers**

**PRODUCT NO’S:**
- 1845 [Wide Jaw]
  - Jaw Width: 3mm
  - Jaw Length: 26mm
  - Overall Length: 18"
- 1846 [Narrow Jaw]
  - Jaw Width: 2mm
  - Jaw Length: 26mm
  - Overall Length: 18"

---

**Extra Long Grasper**
Designed for reaching deep into the medullary canal

**PRODUCT NO’S:**
- 1781 [With Ratchet Handle]
  - Overall Length: 18.5"
- 1782 [Without Ratchet Handle]
  - Overall Length: 18.5"
Byrd Arthroscopic Hip Curettes & Elevators

Designed for use in various arthroscopic hip procedures

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

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

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

Extended Double Action Pliers

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Overall Length</th>
<th>Jaw Length</th>
<th>Jaw Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>3962</td>
<td>Needle Nose</td>
<td>13&quot;</td>
<td>2.625&quot;</td>
<td>2.5mm</td>
</tr>
<tr>
<td>3961</td>
<td>Blunt Nose</td>
<td>11.75&quot;</td>
<td>1.25&quot;</td>
<td>10mm</td>
</tr>
</tbody>
</table>

Long Jaw Needle Nose Pliers

**PRODUCT NO:**

1833

Overall Length: 7"
Jaw Length: 2.25"
Jaw Width Tapered from: 8mm to 1.5mm
Jaw Height Tapered from: 12mm to 2.5mm

MADE EXCLUSIVELY FOR INNOMED IN GERMANY

NEW
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

MADE EXCLUSIVELY FOR INNOMED IN GERMANY

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Standard</th>
<th>Long Nose</th>
</tr>
</thead>
<tbody>
<tr>
<td>3980 [Large (10”) with Large Slap Hammer]</td>
<td>3965 [Large (12”) with Large Slap Hammer]</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>3986 [Large Bent Jaw w/Slap Hammer]</td>
</tr>
<tr>
<td>3985 [Small (8”) without Slap Hammer or Attachments]</td>
<td>3986-01 [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>

The anatomically shaped and sized acetabular graft protector allows suction of blood after acetabular bone grafting. The protector helps protect the grafted bone from being dislodged during suctioning.

Acetabular Graft Protectors

Designed by Steven B. Zelicof, MD

Helps protect grafted bone from being dislodged during suctioning.
Designed with serrated, stainless steel tips and available in three shapes: round, square and rectangular.

**Bone Graft Impactors**

*Tap bone graft or bone parts into place with minimal bone trauma*

Designed with serrated, stainless steel tips and available in three shapes: round, square and rectangular.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Head Dimensions</th>
<th>Overall Length</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5310 [Round]</td>
<td>Overall Length: 9&quot;</td>
<td>Head Diameter: 12.5mm</td>
<td>Overall Length: 9.5&quot;</td>
<td>Handle Length: 4.25&quot;</td>
</tr>
<tr>
<td>5320 [Square]</td>
<td>Overall Length: 9&quot;</td>
<td>Head Dimensions: 10mm x 10mm</td>
<td>Overall Length: 9.5&quot;</td>
<td>Handle Length: 4.25&quot;</td>
</tr>
<tr>
<td>5325 [Square with Delrin Tip]</td>
<td>Overall Length: 9&quot;</td>
<td>Head Dimensions: 10mm x 10mm</td>
<td>Overall Length: 9.5&quot;</td>
<td>Handle Length: 4.25&quot;</td>
</tr>
<tr>
<td>5330 [Rectangular]</td>
<td>Overall Length: 9&quot;</td>
<td>Overall Length: 9.5&quot;</td>
<td>Handle Length: 4.25&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**Ortho Impactors**

- **5310** [Round]
  - Overall Length: 9"
  - Head Diameter: 12.5mm
  - Handle Length: 4.25"
- **5320** [Square]
  - Overall Length: 9"
  - Head Dimensions: 10mm x 10mm
  - Handle Length: 4.25"
- **5325** [Square with Delrin Tip]
  - Overall Length: 9"
  - Head Dimensions: 10mm x 10mm
  - Handle Length: 4.25"
- **5330** [Rectangular]
  - Overall Length: 9"
  - Overall Length: 9.5"
  - Handle Length: 4.25"

**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.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Overall Handle Length</th>
<th>Grip Length</th>
<th>Exposed Impactor Head Lengths</th>
<th>Base Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>5370 [Complete Set]</td>
<td>Overall Handle Length: 8&quot;</td>
<td>Grip Length: 4.5&quot;</td>
<td>Exposed Impactor Head Lengths: 1.45&quot;</td>
<td>Base Diameter: 3.5&quot;</td>
<td></td>
</tr>
</tbody>
</table>
helps to quickly and precisely remove an acetabular cup with minimal loss of bone

non-modular blade system helps reduce both cost and surgical time, as blades don’t need to be changed interopera
tively.

new ultra hard titanium nitride coating for extended blade life

system designed by james kudrna, md and stephen incavo, md
wrench drive handle designed by guido grappulo, md
delrin heads designed by adolph lombardi, md

stainless steel heads
in standard diameters of 22, 26, 28, 32 and 36 mm (38 mm optional).

non-modular blade system
helps to decrease costs while increasing surgical efficiency as blades don’t need to be changed interopera
tively.

fixed blades in two lengths
Can typically be used for multiple procedures, then can be returned to innomed for a nominal replacement change.

impaction platform
strike with a mallet to help drive in the blade.

handle styles
two handle styles to choose from—wrench drive or fixed.

handle placement
near the end of the shaft allows for better leverage and easier rotation.

shaft alignment
the shaft is aligned directly over the head, which helps prevent the head from riding out of the cup while keeping the instrument properly centered. with proper centering, the curvature of the blades will more closely match the hemispherically-shaped outer surface of the acetabular cup when rotating, thus minimizing bone loss and creating a relatively intact acetabular recess for fitting of a new cup.

benefits of our titanium nitride coated blades

- extends blade life...by increasing surface hardness
- prolongs sharpness...with an ultra hard, heat resistant coating
- more wear resistant...due to high lubricity of titanium nitride coating
- prevents galling...won’t chip, peel, or flake
- reduces friction...eliminates seizing in metal-on-metal contact
- chemical and corrosion resistant
- non-toxic...medically approved and proven

extended blade life leads to long term savings

innomed
www.innomed.net | 1.800.548.2362 | july 2013

system designed by james kudrna, md and stephen incavo, md
wrench drive handle designed by guido grappulo, md
delrin heads designed by adolph lombardi, md
**Fully Customizable Sets**
Rent or purchase — configure with as few or as many options required.

**Optional Large Delrin Heads**
Designed to provide tight, secure surface contact when removing larger size acetabular cups, and can also be used if the cup liner of a standard size cup is worn and must be removed. Available in diameters from 39 to 60mm in 1mm increments.

*US Patent #7,998,146 B2*

**Optional Wrench Drive Handles**
Works like a socket wrench, allowing improved torque without changing positions.

---

**System Rental Available**
Available on a single procedure basis

**Rental Details**
Rental is available in several configurations:
- 4 cases with all sizes, including 2 sets of heads
- 3 cases, including 2 sets of heads
- 2 cases, including 2 sets of heads
- 1 case, including 2 sets of heads
- 1 size (starter & finish), including 2 sets of heads

Each case includes 5 Starter and 5 Finish Instruments

**Rental Charges**
In addition to a rental fee, there is a charge for each instrument used (not heads). Also, an additional charge applies if the used instruments are kept instead of returned. **Rental is for one surgical procedure only, and must be returned within 5 days following the procedure.**

---

**CUSTOM AND RANGED INSTRUMENT SETS**
Choice of Sizes – Wrench Handle

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5200-01</td>
<td>Starter and 5 Finish Instruments each of 5 Head sizes (22mm-36mm) 2 cases — 1 for Instruments, 1 for Heads</td>
</tr>
<tr>
<td>5208-01</td>
<td>42mm-50mm – Fixed Handle 42mm-50mm – Wrench Handle</td>
</tr>
<tr>
<td>5200-02</td>
<td>5 Starter and 5 Finish Instruments each of 5 Head sizes (22mm-36mm) 2 cases — 1 for Instruments, 1 for Heads</td>
</tr>
<tr>
<td>5208-02</td>
<td>52mm-60mm – Fixed Handle 52mm-60mm – Wrench Handle</td>
</tr>
<tr>
<td>5200-03</td>
<td>52mm-60mm – Fixed Handle 52mm-60mm – Wrench Handle</td>
</tr>
<tr>
<td>5208-03</td>
<td>5 Starter and 5 Finish Instruments each of 5 Head sizes (22mm-36mm) 2 cases — 1 for Instruments, 1 for Heads</td>
</tr>
<tr>
<td>5200-04</td>
<td>52mm-70mm – Fixed Handle 52mm-70mm – Wrench Handle</td>
</tr>
<tr>
<td>5208-04</td>
<td>5 Starter and 5 Finish Instruments each of 5 Head sizes (22mm-36mm) 2 cases — 1 for Instruments, 1 for Heads</td>
</tr>
<tr>
<td>5200-05</td>
<td>52mm-80mm – Fixed Handle 52mm-80mm – Wrench Handle</td>
</tr>
<tr>
<td>5208-05</td>
<td>5 Starter and 5 Finish Instruments each of 5 Head sizes (22mm-36mm) 2 cases — 1 for Instruments, 1 for Heads</td>
</tr>
</tbody>
</table>

**INDIVIDUAL WRENCH HANDLE SHAFTS WITH FIXED BLADES**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5208-27</td>
<td>New Instrument Exchange Instrument Blade Arc Diameter</td>
</tr>
<tr>
<td>5208-28</td>
<td>Starter Finish Starter Finish</td>
</tr>
<tr>
<td>5200-29</td>
<td>5202-29</td>
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<tr>
<td>5200-30</td>
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**INDIVIDUAL INTERCHANGEABLE DELRIN HEADS**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>5202-04</td>
<td>Starter Finish Starter Finish</td>
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<td>5200-37</td>
<td>5202-37</td>
</tr>
<tr>
<td>5200-38</td>
<td>5202-38</td>
</tr>
</tbody>
</table>

**INSTRUMENT AND HEAD CASES ONLY**
9014 Case for 22 Delrin Heads
9015 Case for 5 Starter and 5 Finish Blades, plus 5 Heads
9016 Case for 10 Steel Heads
Modified Lambotte Cup Removal Osteotomes

Four osteotomes with different hemispherical radii allow the osteotomes to fit next to the outer surface of different size acetabular hip cups. The osteotomes have a handle for better control and a hammering platform.

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Product No</th>
<th>Blade Width</th>
<th>Overall Length</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5240-44</td>
<td>44mm</td>
<td>12.75&quot;</td>
<td>4.75&quot;</td>
</tr>
<tr>
<td>5240-48</td>
<td>48mm</td>
<td>12.75&quot;</td>
<td>4.75&quot;</td>
</tr>
<tr>
<td>5240-52</td>
<td>52mm</td>
<td>12.75&quot;</td>
<td>4.75&quot;</td>
</tr>
<tr>
<td>5240-56</td>
<td>56mm</td>
<td>12.75&quot;</td>
<td>4.75&quot;</td>
</tr>
</tbody>
</table>

Modified Smith-Petersen Style Osteotomes for Acetabular Cup Removal

Four styles of osteotomes offer a selection for removal of total hip cups. The different curvatures help to fit next to a cups outer surface. The osteotomes have a handle for better control, plus a hammering platform end.

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Product No</th>
<th>Blade Dimensions</th>
<th>Overall Length</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5280-01</td>
<td>20mm x 20mm</td>
<td>10.875&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>5280-02</td>
<td>20mm x 35mm</td>
<td>11.675&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>5280-03</td>
<td>20mm x 50mm</td>
<td>12.25&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>5280-04</td>
<td>20mm x 65mm</td>
<td>12.75&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>5280-01</td>
<td>20mm x 20mm</td>
<td>10.875&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>5280-02</td>
<td>20mm x 35mm</td>
<td>11.675&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>5280-03</td>
<td>20mm x 50mm</td>
<td>12.25&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>5280-04</td>
<td>20mm x 65mm</td>
<td>12.75&quot;</td>
<td>5&quot;</td>
</tr>
</tbody>
</table>

Designed with different hemisphere of curves to match cups of different sizes
Designed to quickly fit into a screw hole of a hip cup after the screws have been removed and the cup loosened. The slap hammer helps to remove the cup in the angle it was inserted.

**Gorski Hip Cup Extraction Hook**
*Helps in the removal of a hip cup*

Designed by Jerrold Gorski, MD

**PRODUCT NO’S:**
- Hook for 6.5mm Screw Holes
  - 3660 [Hook w/Standard Slap Hammer]
  - 3660-01 [Hook w/o Slap Hammer]
- Hook for 5.0mm Screw Holes
  - 3665 [Hook w/Standard Slap Hammer]
  - 3665-01 [Hook w/o Slap Hammer]
- Optional:
  - 3935 [XL Slap Hammer] 3/8" - 16 Thread Gauge

MADE IN THE USA

**Star Metal Cup Liner Removal Impactor**
*Designed by Andrew M. Star, MD*

Designed to help disengage the rim of a metal cup for removal

Low profile design can be used through a limited incision. Vibration from tapping the edge of the shell helps cause the liner to become disengaged for removal.

**PRODUCT NO:**
- 5014 Overall Length: 8”

MADE IN THE USA

**Cannestra Extended Femoral Osteotomy Guide**
*Designed by Vincen Cannestra, MD*

Designed for femoral shaft osteotomies during hip revision surgery

Set includes a sterilization case, and a package of 10 short and 10 long threaded bone pins with collar.
Universal Modular Femoral Hip Component Extractor

Helps remove a femoral hip stem after the modular head has been removed

Designed to clamp onto the taper of a femoral hip stem after the modular head has been removed. The extractor is equipped with a swivel block for attachment of a slap hammer. The swivel block helps keep the slap hammer in line with the angle of the femoral stem. Includes standard slap hammer, #3925.

New extractor with the handle reversed designed primarily for anterior approach

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>NO</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3610</td>
<td>Original Extractor with Standard Slap Hammer #3925</td>
</tr>
<tr>
<td>3610-R</td>
<td>Anterior Approach Extractor with Standard Slap Hammer #3925</td>
</tr>
</tbody>
</table>

Optional/Individual Parts:

<table>
<thead>
<tr>
<th>NO</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3610-01</td>
<td>Original Extractor Only</td>
</tr>
<tr>
<td>3610-01-R</td>
<td>Anterior Approach Extractor Only</td>
</tr>
<tr>
<td>3925</td>
<td>Standard Slap Hammer 3/8&quot;-16 Thread Gauge</td>
</tr>
<tr>
<td>3935</td>
<td>Extra Large Slap Hammer 3/8&quot;-16 Thread Gauge</td>
</tr>
</tbody>
</table>

Extraction is carried out by the slap hammer or by utilizing a mallet on the hammer flares of the slap hammer.
**Femoral Extraction Instruments**

*Designed to help remove various types of femoral implants*

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1202 [Loop Extractor with Standard Slap Hammer]</td>
</tr>
<tr>
<td>S1202-01 [Loop Extractor Only] Overall Length: 6.5”</td>
</tr>
<tr>
<td>S1203 [J-Hook Stem Extractor with Standard Slap Hammer]</td>
</tr>
<tr>
<td>S1203-01 [J-Hook Stem Extractor Only] Overall Length: 4.75”</td>
</tr>
<tr>
<td>S1204 [One-Piece Stem Extractor with Standard Slap Hammer]</td>
</tr>
<tr>
<td>S1204-01 [One-Piece Stem Extractor Only] Overall Length: 4.125”</td>
</tr>
<tr>
<td>3925 [Standard Slap Hammer] 3/8“-16 Thread Gauge</td>
</tr>
<tr>
<td>3935 [Extra Large Slap Hammer] 3/8“-16 Thread Gauge</td>
</tr>
</tbody>
</table>

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**Femoral Extraction Instruments**

*Designed to help remove various types of femoral implants*

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1202 [Loop Extractor with Standard Slap Hammer]</td>
</tr>
<tr>
<td>S1202-01 [Loop Extractor Only] Overall Length: 6.5”</td>
</tr>
<tr>
<td>S1203 [J-Hook Stem Extractor with Standard Slap Hammer]</td>
</tr>
<tr>
<td>S1203-01 [J-Hook Stem Extractor Only] Overall Length: 4.75”</td>
</tr>
<tr>
<td>S1204 [One-Piece Stem Extractor with Standard Slap Hammer]</td>
</tr>
<tr>
<td>S1204-01 [One-Piece Stem Extractor Only] Overall Length: 4.125”</td>
</tr>
<tr>
<td>3925 [Standard Slap Hammer] 3/8“-16 Thread Gauge</td>
</tr>
<tr>
<td>3935 [Extra Large Slap Hammer] 3/8“-16 Thread Gauge</td>
</tr>
</tbody>
</table>

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**Offset Punches**

*Helps in the removal of hip stems*

Used to help remove a hip prosthesis stem via a window in the shaft of the femur. Two sizes of offsets allow the punches to be used to tap on a distal portion of the hip stem, after a window has been made in the femur below the tip of the stem.

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5125-02 [Large Offset] Overall Length: 11” Punch End Offset: 32mm Punch End Diameter: 7mm</td>
</tr>
<tr>
<td>5125-01 [Small Offset] Overall Length: 11” Punch End Offset: 13mm Punch End Diameter: 7mm</td>
</tr>
</tbody>
</table>

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**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).

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5350-00 [Set w/Case]</td>
</tr>
<tr>
<td>Also Available Individually:</td>
</tr>
<tr>
<td>5350-25 [1/4”] Overall Length: 9” Osteotome Width: .25” (6.35mm)</td>
</tr>
<tr>
<td>5350-50 [1/2”] Overall Length: 9” Osteotome Width: .5” (12.7mm)</td>
</tr>
<tr>
<td>5350-75 [3/4”] Overall Length: 9” Osteotome Width: .75” (19mm)</td>
</tr>
<tr>
<td>5350-CB [Cross Bar]</td>
</tr>
<tr>
<td>5350-100 [1”] Overall Length: 9” Osteotome Width: 1” (25.4mm)</td>
</tr>
<tr>
<td>5350-125 [1-1/4”] Overall Length: 9” Osteotome Width: 1.25” (31.75mm)</td>
</tr>
<tr>
<td>5350-150 [1-1/2”] Overall Length: 9” Osteotome Width: 1.5” (38.1mm)</td>
</tr>
<tr>
<td>5350-CASE [Case]</td>
</tr>
</tbody>
</table>

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MADE EXCLUSIVELY FOR INNOMED IN GERMANY
Flexible Osteotome System

Provides an assortment of osteotome blades for various orthopedic surgery procedures

PRODUCT NO'S:

<table>
<thead>
<tr>
<th>Individual Instruments:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>S1002 [Thin Osteotome Blade]</td>
<td>3&quot; x 8mm</td>
</tr>
<tr>
<td>S1003 [Thin Osteotome Blade]</td>
<td>3&quot; x 10mm</td>
</tr>
<tr>
<td>S1004 [Thin Osteotome Blade]</td>
<td>3&quot; x 12mm</td>
</tr>
<tr>
<td>S1005 [Thin Osteotome Blade]</td>
<td>3&quot; x 20mm</td>
</tr>
<tr>
<td>S1006 [Curved Thin Osteotome Blade]</td>
<td>3&quot; x 12mm</td>
</tr>
<tr>
<td>S1007 [Curved Thin Osteotome Blade]</td>
<td>3&quot; x 20mm</td>
</tr>
<tr>
<td>S1008 [Thin Osteotome Blade]</td>
<td>5&quot; x 10mm</td>
</tr>
<tr>
<td>S1009 [Thin Osteotome Blade]</td>
<td>5&quot; x 8mm</td>
</tr>
<tr>
<td>S1020 [Handle with Quick-Coupling End]</td>
<td>6&quot;</td>
</tr>
<tr>
<td>S1120 [Radial Osteotome]</td>
<td>5&quot; x 12mm (not shown)</td>
</tr>
<tr>
<td>S1121 [Radial Osteotome]</td>
<td>5&quot; x 16mm</td>
</tr>
<tr>
<td>S1122 [Radial Osteotome]</td>
<td>5&quot; x 20mm (not shown)</td>
</tr>
<tr>
<td>S2007 [Small Slap Hammer]</td>
<td>12&quot;</td>
</tr>
<tr>
<td>9018 [Case]</td>
<td></td>
</tr>
<tr>
<td>Optional Blades (Not Included In Complete Set)</td>
<td></td>
</tr>
<tr>
<td>S1123 [Extra Long Osteotome Blade]</td>
<td>9&quot; x 8mm</td>
</tr>
<tr>
<td>S1135 [Radial Osteo. Medial Curve]</td>
<td>6.75&quot; x 11mm</td>
</tr>
<tr>
<td>S1136 [Radial Osteo. Lateral Curve]</td>
<td>6.75&quot; x 11mm</td>
</tr>
<tr>
<td>S1137 [Radial Osteo. Medial Curve]</td>
<td>5&quot; x 11mm</td>
</tr>
<tr>
<td>S1138 [Radial Osteo. Lateral Curve]</td>
<td>5&quot; x 11mm</td>
</tr>
<tr>
<td>S1222 [Chisel Blade]</td>
<td>2.5&quot; x 8mm</td>
</tr>
<tr>
<td>S1223 [Chisel Blade]</td>
<td>2.5&quot; x 10mm</td>
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<tr>
<td>S1224 [Chisel Blade]</td>
<td>2.5&quot; x 12mm</td>
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<tr>
<td>S1225 [Chisel Blade]</td>
<td>2.5&quot; x 20mm</td>
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<tr>
<td>S1228 [Chisel Blade]</td>
<td>5&quot; x 10mm</td>
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<tr>
<td>S1229 [Chisel Blade]</td>
<td>5&quot; x 8mm</td>
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<tr>
<td>S1230 [Chisel Blade]</td>
<td>5&quot; x 20mm</td>
</tr>
<tr>
<td>S1231 [Chisel Blade]</td>
<td>5&quot; x 12mm</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

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

PRODUCT NO: S0142
Overall Length: 8"
Jaw Width: 4.5mm

Screw/Pin Removal Locking Pliers

Handle with Quick-Coupling End (2 included per set)

<table>
<thead>
<tr>
<th>Optional Blades (Not Included In Complete Set)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>S1123 [Extra Long Osteotome Blade]</td>
<td>9&quot; x 8mm</td>
</tr>
<tr>
<td>S1135 [Radial Osteo. Medial Curve]</td>
<td>6.75&quot; x 11mm</td>
</tr>
<tr>
<td>S1136 [Radial Osteo. Lateral Curve]</td>
<td>6.75&quot; x 11mm</td>
</tr>
<tr>
<td>S1137 [Radial Osteo. Medial Curve]</td>
<td>5&quot; x 11mm</td>
</tr>
<tr>
<td>S1138 [Radial Osteo. Lateral Curve]</td>
<td>5&quot; x 11mm</td>
</tr>
<tr>
<td>S1222 [Chisel Blade]</td>
<td>2.5&quot; x 8mm</td>
</tr>
<tr>
<td>S1223 [Chisel Blade]</td>
<td>2.5&quot; x 10mm</td>
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<tr>
<td>S1224 [Chisel Blade]</td>
<td>2.5&quot; x 12mm</td>
</tr>
<tr>
<td>S1225 [Chisel Blade]</td>
<td>2.5&quot; x 20mm</td>
</tr>
<tr>
<td>S1228 [Chisel Blade]</td>
<td>5&quot; x 10mm</td>
</tr>
<tr>
<td>S1229 [Chisel Blade]</td>
<td>5&quot; x 8mm</td>
</tr>
<tr>
<td>S1230 [Chisel Blade]</td>
<td>5&quot; x 20mm</td>
</tr>
<tr>
<td>S1231 [Chisel Blade]</td>
<td>5&quot; x 12mm</td>
</tr>
</tbody>
</table>

MADE IN THE USA
PROUDLY

Flexible Chisel Blades
Mueller-Type Cement Removal Instruments

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

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Description</th>
<th>Shaft Length</th>
<th>Gouge</th>
<th>Chisel</th>
</tr>
</thead>
<tbody>
<tr>
<td>S7500-00</td>
<td>[Complete Set with Case]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S7505</td>
<td>[Narrow Cement Removal Gouge, Short]</td>
<td>150mm</td>
<td>9mm, negative</td>
<td></td>
</tr>
<tr>
<td>S7507</td>
<td>[Narrow Cement Removal Gouge, Long]</td>
<td>240mm</td>
<td>9mm, negative</td>
<td></td>
</tr>
<tr>
<td>S7510</td>
<td>[Narrow Offset Cement Removal Gouge]</td>
<td>240mm</td>
<td>9mm, negative</td>
<td></td>
</tr>
<tr>
<td>S7515</td>
<td>[Acetabular Chisel]</td>
<td>240mm</td>
<td>7.5mm</td>
<td></td>
</tr>
<tr>
<td>S7520</td>
<td>[Offset Chisel]</td>
<td>150mm</td>
<td>3mm</td>
<td></td>
</tr>
<tr>
<td>S7525</td>
<td>[Flared Angle Gouge]</td>
<td>240mm</td>
<td>9mm, positive, angle 15° down</td>
<td></td>
</tr>
<tr>
<td>S7530</td>
<td>[Wide Gouge]</td>
<td>240mm</td>
<td>11.5mm, negative</td>
<td></td>
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<tr>
<td>S7535</td>
<td>[“V” Splitter]</td>
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<td>7mm</td>
</tr>
<tr>
<td>S7587</td>
<td>[Saddle Punch]</td>
<td>240mm</td>
<td>Punch: 16.5mm x 6.5mm</td>
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<tr>
<td>S7590</td>
<td>[Cement Splitting Osteotome]</td>
<td>240mm</td>
<td></td>
<td></td>
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<tr>
<td>S7595</td>
<td>[Cement Removal Osteotome, Short]</td>
<td>150mm</td>
<td>8mm</td>
<td></td>
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<tr>
<td>S7597</td>
<td>[Cement Removal Osteotome, Long]</td>
<td>240mm</td>
<td>8mm</td>
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<tr>
<td>S7540</td>
<td>[4.4mm Drill]</td>
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<tr>
<td>S7545</td>
<td>[4.4mm Drill Guide]</td>
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<tr>
<td>S7550</td>
<td>[6.4mm Drill]</td>
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<td></td>
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</tr>
<tr>
<td>S7555</td>
<td>[6.4mm Drill Guide]</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>S7560</td>
<td>[Straight Cement Removal Hook]</td>
<td></td>
<td>Hook Curette: 10mm</td>
<td></td>
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<tr>
<td>S7565</td>
<td>[Curved Cement Removal Hook]</td>
<td></td>
<td>Hook Curette: 10mm</td>
<td></td>
</tr>
<tr>
<td>S7570</td>
<td>[Cross Bar]</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>S7575</td>
<td>[7mm T-Handle Conical Tap]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S7580</td>
<td>[9mm T-Handle Conical Tap]</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>S7585</td>
<td>[Slotted Mallet]</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>9075</td>
<td>[Case Only]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**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]

**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” 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]
- S0130 [3.5mm 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]
- S0130 [Cannulated Drive Extension]
- 9017 [Screw Removal Case Only]

**Case Dimensions:** 20” x 9.25”

**Set in Storage 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.

**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.

**Hex Drivers**
Solid shaft in all standard hex sizes.

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

**Universal Extractor**
Designed to remove screws with heads partially or completely missing. The cone shaped head fully engages the remaining screw and optimizes the force 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.

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

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

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

**Push button Quick-connect release mechanism**
Ergonomic, modular handle with two connection points allows for both straight and T-handle orientations.
Screw Extractor Set
Designed to help remove screws with stripped or damaged heads

- 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.

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>Description</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>7250-00</td>
<td>(Set with Case)</td>
<td>6”</td>
</tr>
<tr>
<td>7250-01</td>
<td>[Small]</td>
<td>6”</td>
</tr>
<tr>
<td>7250-02</td>
<td>[Medium]</td>
<td>6”</td>
</tr>
<tr>
<td>7250-03</td>
<td>[Large]</td>
<td>6”</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1215-00</td>
<td>Includes Sterilization Case</td>
</tr>
</tbody>
</table>

Screw Removal Pliers
Jaw designed to grasp onto a screw or screw head to help in removal

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>Description</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td></td>
<td>8”</td>
</tr>
</tbody>
</table>

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

MADE IN THE USA
PROUDLY MADE IN THE USA

FREE TRIAL ON MOST INSTRUMENTS
1.800.548.2362
Measurements of overall length are the linear distance from one end of the product to the furthest opposite end, as shown in these examples:

<table>
<thead>
<tr>
<th>Measurements</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000 00-24</td>
<td>6.75</td>
</tr>
<tr>
<td>0000 01-04</td>
<td>8</td>
</tr>
<tr>
<td>0000 05-08</td>
<td>10.5</td>
</tr>
<tr>
<td>0000 09-12</td>
<td>13</td>
</tr>
<tr>
<td>0000 13-15</td>
<td>15.5</td>
</tr>
<tr>
<td>0000 16-18</td>
<td>18</td>
</tr>
</tbody>
</table>

Measurements are the linear distance from one side of the product to the opposite side, typically at the widest point, as shown in this example:

<table>
<thead>
<tr>
<th>Measurements</th>
<th>Overall Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000 00-24</td>
<td>5.375</td>
</tr>
<tr>
<td>0000 01-04</td>
<td>7.5</td>
</tr>
<tr>
<td>0000 05-08</td>
<td>10</td>
</tr>
<tr>
<td>0000 09-12</td>
<td>12.5</td>
</tr>
<tr>
<td>0000 13-15</td>
<td>15</td>
</tr>
<tr>
<td>0000 16-18</td>
<td>17.5</td>
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</table>

Numerical & Alphabetic Index

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000 00-24</td>
<td>2.5mm Blade Width, 1.0mm Thick, 16mm Long</td>
</tr>
<tr>
<td>0000 01-04</td>
<td>3mm Blade Width, 1.5mm Thick, 20mm Long</td>
</tr>
<tr>
<td>0000 05-08</td>
<td>4mm Blade Width, 2.0mm Thick, 25mm Long</td>
</tr>
<tr>
<td>0000 09-12</td>
<td>5mm Blade Width, 2.5mm Thick, 30mm Long</td>
</tr>
<tr>
<td>0000 13-15</td>
<td>6mm Blade Width, 3.0mm Thick, 35mm Long</td>
</tr>
<tr>
<td>0000 16-18</td>
<td>7mm Blade Width, 3.5mm Thick, 40mm Long</td>
</tr>
</tbody>
</table>

Search by Product Number

Search by Product Name

Numerical & Alphabetic Index

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000 00-24</td>
<td>2.5mm Blade Width, 1.0mm Thick, 16mm Long</td>
</tr>
<tr>
<td>0000 01-04</td>
<td>3mm Blade Width, 1.5mm Thick, 20mm Long</td>
</tr>
<tr>
<td>0000 05-08</td>
<td>4mm Blade Width, 2.0mm Thick, 25mm Long</td>
</tr>
<tr>
<td>0000 09-12</td>
<td>5mm Blade Width, 2.5mm Thick, 30mm Long</td>
</tr>
<tr>
<td>0000 13-15</td>
<td>6mm Blade Width, 3.0mm Thick, 35mm Long</td>
</tr>
<tr>
<td>0000 16-18</td>
<td>7mm Blade Width, 3.5mm Thick, 40mm Long</td>
</tr>
</tbody>
</table>
Williams Distal Radius Fracture Retractor  
**Designed by Craig S. Williams, MD and Eric Dahlinger**  
Designed to provide excellent exposure during fracture reduction and plating. Left and right available.

**NEW**

**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

Bhargava Modified Meniscal Clamp  
**Designed by Tarun Bhargava, MD**  
Low-profile design helps facilitate grasping the posterior portion of the meniscus.

**NEW**

**PRODUCT NO: 1886**  
Overall Length: 7”  
Teeth Length: 1mm  
Jaw Length: 1.125”

Double Prong Soft Tissue Retractor  
**Designed by Adolph V. Lombardi Jr., MD**  
Designed to help retract myofascial sleeves about the hip during hip surgery and other soft tissue retraction.

**NEW**

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

Paulos Osteo Wedges  
**Designed by Lonnie E. Paulos, MD**  
Rounded corners and a blunt wedged edge help minimize damage to the soft tissues on the opposite side.

**NEW**

**PRODUCT NO'S:**
- 6425-01  [Small]  
  Overall Length: 9.375”  
  Blade Width: 13.9mm
- 6425-02  [Medium]  
  Overall Length: 9.375”  
  Blade Width: 25.1mm
- 6425-03  [Large]  
  Overall Length: 9.375”  
  Blade Width: 37.8mm

OrthoLucent™ Mini Hohmann Retractors  
**Radiolucent, lightweight retractors**  
Designed by Jeffrey Lawton, MD

**NEW**

**PRODUCT NO'S:**
- 1591-R  6mm Blade, Bent  
  Overall Length: 7”
- 1592-R  8mm Blade, Deep Bent  
  Overall Length: 7”
- 1593-R  8mm Blade, Bent  
  Overall Length: 7”
- 1594-R  8mm Blade  
  Overall Length: 6.675”
- 1595-R  6mm Blade  
  Overall Length: 6.875”
- 1596-R  8” Extender  
  Overall Length: 6.875”
- 1597-R  16mm Blade  
  Overall Length: 6.875”

Weinert Elbow Retractor  
**Designed for use within the elbow joint to retract the anterior capsule, and provide full exposure of the anterior articular surface for reduction and fixation of displaced lateral condyle fractures**

**NEW**

**PRODUCT NO: 4697**  
Overall Length: 6”  
Blade Width: 1.5”

Lubahn Carpal Corkscrew  
**Designed by John D. Lubahn, MD**  
Can also be used to facilitate a proximal row carpectomy as it fits the scaphoid, lunate, and triquetrum.

**NEW**

**PRODUCT NO: 1191**  
Overall Length: 2.25”

Scoville-type Nerve Root Retractor with Suction  
**Designed by L. Mercer McKelvey, MD**  
Designed to retract with a Scoville-type blade and provide varied suction—tube can be angled and locked for ease of use.

**NEW**

**PRODUCT NO: 5008**  
Overall Length: 9.375”  
Arm Length: 4.25”

For more information on these New Products, visit our website at www.innomed.net/new.htm
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.

Mueller Style Hip Instruments

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>Description</th>
<th>Overall Length (in)</th>
<th>Osteotome Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6865-01</td>
<td>Flat Blade Osteotome</td>
<td>11.125</td>
<td>20</td>
</tr>
<tr>
<td>6865-02</td>
<td>Femoral Head Dislocation Lever</td>
<td>11.375</td>
<td>25x57</td>
</tr>
<tr>
<td>6865-03</td>
<td>Narrow Curved Osteotome</td>
<td>12</td>
<td>9</td>
</tr>
<tr>
<td>6865-04</td>
<td>Wide Curved Osteotome</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>6865-05</td>
<td>Swan Neck Curved Gouge</td>
<td>12</td>
<td>23</td>
</tr>
<tr>
<td>5350-CB</td>
<td>Cross Bar</td>
<td></td>
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</table>