Curved Osteotomes for Total Knee Revision
Back Cover

Unger Universal Femoral Component Extractor with Precision Osteotomy Guide
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Curved Osteotomes

Long Nose OrthoVise™
Page 17

HIP & KNEE
Revision/Extraction Instruments
**Unger Universal Femoral Component Extractor with Precision Osteotomy Guide**

**Designed by Anthony Unger, MD**

Use the Precision Osteotomy Guide to make osteotomy parallel to the shaft.

Use the Precision Osteotomy Wedges to expand the osteotomy to help separate the bone from the component.

Lower the Femoral Component Extractor onto the component stem.

Use the Hex Wrench to engage the Threaded Push Rod onto the femoral component taper.

Attach a Slap Hammer to the Femoral Component Extractor and extract in line with the component shaft.

**Product No’s:**

- **3615-00** [Assembly]
- **3615-01** [Femoral Component Extractor]
  - Overall Length: 3.25" (8,3 cm)
  - Width: 1" (2,5 cm)
  - Height: 1.5" (3,8 cm)
- **3615-02** [Precision Osteotomy Guide]
  - Overall Length: 6" (15,2 cm)
  - Width: .75" (1,9 cm)
- **3615-03** [Precision Osteotomy Wedge]
  - Two included in set, one with this product number
  - Overall Length: 3.9" (9,9 cm)
- **3615-05** [Hex Wrench]
  - Overall Length: 6.65" (16.9 cm)
- **3925** [Standard Slap Hammer with 16" Rod]
  - Overall Length: 6.65" (16.9 cm)

Design to help extract a femoral component — includes a guide used to make an osteotomy cut and wedges to separate bone away from the component.

**FREE TRIAL ON MOST INSTRUMENTS**

WWW.INNOMED.NET
**Product No's:**

3610 [Original Extractor with Standard Slap Hammer #3925]
3610-R [Anterior Approach Extractor with Standard Slap Hammer #3925]

Optional/Individual Parts:

3610-01 [Original Extractor Only]
3610-R-01 [Anterior Approach Extractor Only]
3925 [Standard Slap Hammer] 3/8"-16 Thread Gauge
3935 [Extra Large Slap Hammer] 3/8"-16 Thread Gauge

See page 5 for alternative slap hammers.

**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.

**Anterior Approach Extractor**

Extractor with the handle reversed designed primarily for anterior approach

**Original Extractor**

The taper is clamped between the rotating block and the taper anvil. Tightening the “T” handle holds a stem taper in place.

The extractor is opened to accommodate any size taper on a modular head total hip stem.

**Heck Anterior Modular Hip Component Extractor with Strikeplate**

*Designed by David Heck, MD*

*Strikeplate provides additional help to remove a femoral hip stem*

Designed to clamp onto the taper of a femoral hip stem after the modular head has been removed. In the process of placing the extractor over the neck and tightening the locking screw, the upper flange surface of the strikeplate can be hit to help engagement. The inferior flange surface of the strikeplate can be hit in a vertical fashion when the femoral component is particularly well engaged. 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.
Whelan Hip Stem Extractor

Designed by Edward J. Whelan, III, MD

Designed to lock onto and remove a femoral hip stem after the modular head has been removed

Extraction normally requires two bolts to be used to clamp onto, tighten, and extract the component. Four bolt holes, distributed evenly around the stem extractor, allow the surgeon to choose which holes will offer optimal access for placing and tightening the bolts.

PRODUCT NO’S:

| 4175-00 | [Complete Set] |

Individual/Replacement Parts:

| 4175-01 | [Stem Extractor 13.5 mm] |
| 4175-W | [Stem Extractor Wrench] |
| 4175-03 | [Replacement Bolts] Pair |
| 3925 | [Standard Slap Hammer] 3/8"-16 Thread Gauge |

Whelan Extractor Strike Plate Attachment

A slap hammer alternate for extraction help

After attaching the unit to the extractor using the replaceable screw, the strike plate can be struck with the full force of a mallet to assist with component extraction.

PRODUCT NO’S:

| 3605-00 | [Attachment Set] |

Individual/Replacement Parts:

| 3605-01 | [Strike Plate Unit Only] Overall Length: 16" (40,6 cm) Platform Size: 2" x 2" (5,1 cm x 5,1 cm) |
| 3605-02 | [Screws] Pair |
| 4175-W | [Wrench] |

Set includes: Strike plate unit, two (2) screws, and wrench.

For use with any device that accepts a 3/8"-16 gauge thread
**Atlatl Super Slap Hammer**

*Designed for when extra powerful slap hammer force is needed*

Repositionable silicone grip handles are available for use with the long version of the Atlatl, and are removable for sterilization. Slap hammer rod is not included.

### PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3924-L-00</td>
<td>[Long with Silicone Handles] Overall Length: 22” (55,8 cm) Includes (2) 3924-RH Silicone Grip Handles. Slap hammer rod not included.</td>
</tr>
<tr>
<td>3924-L</td>
<td>[Long without Handles] Overall Length: 22” (55,8 cm) Slap hammer rod not included.</td>
</tr>
<tr>
<td>3924-S</td>
<td>[Short] Overall Length: 16” (40,7 cm) Slap hammer rod not included.</td>
</tr>
<tr>
<td>3924-RH</td>
<td>[Silicone Grip Handle] Overall Length: 4” (10,2 cm) (One handle only with this product number)</td>
</tr>
<tr>
<td>3925-A</td>
<td>[16” Rod only] 3/8”-16 Thread Gauge</td>
</tr>
</tbody>
</table>

For use with a 3/8” diameter slap hammer rod, including the Innomed #3925 & #3935 slap hammers on the following extraction instruments:

**Hip – Femoral Component**

- 3610 Universal Modular Hip Component Extractor – Standard
- 3610-R Universal Modular Hip Component Extractor – Anterior
- 3611 Heck Anterior Modular Hip Component Extractor
- 3615-00 Unger Universal Modular Hip Component Extractor
- 4175-00 Whelan Hip Stem Extractor
- 51202 Femoral Extraction Instrument – Loop
- 51203 Femoral Extraction Instrument - One-Piece

**Hip – Acetabular Cup/Shell/Liner**

- 3638-00 Lombardi Hip Cup Liner/Shell Extractor

**Knee**

- 3630 Tibial Knee Component Extractor
- 3920 Femoral Knee Component Extractor
- 3660 4 mm Tibia Tray Removal Hook
- 3655 8 mm Tibia Tray Removal Hook

**Shoulder**

- 3670 Nicholson Universal Humeral Prosthesis Extractor

**General**

- 3966 Large Bent Jaw OrthoVise

---

**Standard and Easy Grip Slap Hammers**

*For use with any device that accepts a 3/8”-16 gauge thread*

The textured silicone of the Easy Grip slap hammer helps to reduce the shock forces on the surgeon’s hand during extraction procedures, and helps the surgeon to maintain a solid grip and prevent the hand from slipping.

### PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3925</td>
<td>[Standard Slap Hammer with 16” Rod] 3/8”-16 Thread Gauge</td>
</tr>
<tr>
<td>3935</td>
<td>[Extra Large Slap Hammer with 16” Rod] 3/8”-16 Thread Gauge</td>
</tr>
<tr>
<td>3926</td>
<td>[Easy Grip Slap hammer with 16” Rod] 3/8”-16 Thread Gauge</td>
</tr>
<tr>
<td>3925-HS</td>
<td>[Easy Grip Slap hammer only]</td>
</tr>
<tr>
<td>3925-A</td>
<td>[16” Rod only] 3/8”-16 Thread Gauge</td>
</tr>
</tbody>
</table>
Femoral Extraction Instruments

Designed to help remove various types of femoral implants

Femoral Head Disengaging Punch

Designed by Brandon Thompson, CST/CFA

Designed to help protect the femoral stem trunion while removing the femoral head during anterior approach total hip revision arthroplasty

The delrin pad helps prevent scratching of the femoral stem trunion. The punch angle allows for better striking force to help break the taper of the head and stem.

PRODUCT NO:
8626
Overall Length: 9" (22.9 cm)
Shaft Diameter: 0.5" (12.7 mm)
Punch Platform Offset Angle: 30°
Punch Platform Delrin End: 10 mm x 20 mm

Product No's:

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
<th>Overall Length</th>
<th>Shaft Diameter</th>
<th>Punch Platform Offset Angle</th>
<th>Punch Platform Delrin End</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1202</td>
<td>Loop Extractor with Standard Slap Hammer</td>
<td>8.75&quot; (22.2 cm)</td>
<td>0.375&quot; (9.5 mm)</td>
<td>45°</td>
<td>10 mm x 20 mm</td>
</tr>
<tr>
<td>S1202-01</td>
<td>Loop Extractor Only</td>
<td>8.75&quot; (22.2 cm)</td>
<td>0.375&quot; (9.5 mm)</td>
<td>45°</td>
<td>10 mm x 20 mm</td>
</tr>
<tr>
<td>S1203</td>
<td>J-Hook Stem Extractor with Standard Slap Hammer</td>
<td>8.75&quot; (22.2 cm)</td>
<td>0.375&quot; (9.5 mm)</td>
<td>45°</td>
<td>10 mm x 20 mm</td>
</tr>
<tr>
<td>S1203-01</td>
<td>J-Hook Stem Extractor Only</td>
<td>8.75&quot; (22.2 cm)</td>
<td>0.375&quot; (9.5 mm)</td>
<td>45°</td>
<td>10 mm x 20 mm</td>
</tr>
<tr>
<td>S1204</td>
<td>One-Piece Stem Extractor with Standard Slap Hammer</td>
<td>9&quot; (22.9 cm)</td>
<td>0.5&quot; (12.7 mm)</td>
<td>45°</td>
<td>10 mm x 20 mm</td>
</tr>
<tr>
<td>S1204-01</td>
<td>One-Piece Stem Extractor Only</td>
<td>9&quot; (22.9 cm)</td>
<td>0.5&quot; (12.7 mm)</td>
<td>45°</td>
<td>10 mm x 20 mm</td>
</tr>
<tr>
<td>3925</td>
<td>Standard Slap Hammer</td>
<td>3/8&quot;-16 Thread Gauge</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3935</td>
<td>Extra Large Slap Hammer</td>
<td>3/8&quot;-16 Thread Gauge</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See page 5 for alternative slap hammers.

Anterior Femoral Punches

Designed by Brandon Thompson, CST/CFA

Designed with a delrin pad to help protect the femoral stem trunion while removing the femoral head during anterior approach total hip revision arthroplasty

- Three stem angles allow choice of optimal approach
- Angled punches allow for better striking force to help break the taper of the head and stem
- The delrin pad helps prevent scratching of the femoral stem trunion

PRODUCT NO:
8626-A [Angled Up]
Overall Length: 8.75" (22.2 cm)
Up Angle: 40°

8626-L [Left]
Overall Length: 8.75" (22.2 cm)
Left Angle: 40°

8626-R [Right]
Overall Length: 8.75" (22.2 cm)
Right Angle: 40°

See page 5 for alternative slap hammers.
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>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5125-01 [Small Offset]</td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
<td>Punch End Offset: 13 mm</td>
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<tr>
<td></td>
<td></td>
<td>Punch End Diameter: 7 mm</td>
</tr>
<tr>
<td>5125-02 [Large Offset]</td>
<td>Overall Length: 11&quot; (27.9 cm)</td>
<td>Punch End Offset: 32 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Punch End Diameter: 7 mm</td>
</tr>
</tbody>
</table>

Whelan Flexible Chisel Guide

Designed by Edward J. Whelan, III, MD

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

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

PRODUCT NO'S:

5301-00 [Complete Set]  
Included In Set / Replacement Parts:

5301-01 [Guide Only]  
Overall Length: 5.5" to 8.5" (14 cm to 21.6 cm) w/o blade

5301-02 [10 mm Chisel Blade Only]  
Overall Length: 4.625" (11.7 cm)  
Blade Thickness: .020" (.51 mm)

3040 [Slap Hammer]

1015 [Sterilization Case]

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

Complete Set

Two blades included in Set

Whelan Curved Chisel Guide

Designed by Edward J. Whelan, III, MD

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

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

PRODUCT NO'S:

5302-00 [Complete Set]  
Included In Set / Replacement Parts:

5302-01 [Guide Only]  
Overall Length: 5" to 8.75" (12.7 cm to 22.2 cm)

5302-02 [10 mm Curved Chisel Blade Only]  
Overall Length: 4.25" (10.8 cm)  
Blade Thickness: .020" (.51 mm)

3040 [Slap Hammer]

1015 [Sterilization Case]

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

Complete Set

Two blades included in Set
Ultra hard titanium nitride coating for extended blade life

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

**Fixed Blades in Two Lengths**
Blade diameters from 42mm-80mm
Can typically be used for multiple procedures, then replaced through our Blade Discount Program.

**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 interoperatively.

**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.

**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.

**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**

System Designed by James Kudrna, MD and Stephen Incavo, MD
Wrench Drive Handle Designed by Guido Grappiolo, MD
Delrin Heads Designed by Adolph Lombardi, MD

Helps to quickly and precisely remove an acetabular cup with minimal loss of bone
**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 60 mm in 1 mm increments.

*US Patent #7,998,146 B2*

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

**Instrument Discount Program**
For used CupX blade instruments we offer a Blade Discount Program. Please see our website or call for details.

**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.
**Modified Smith-Peterson Style Osteotomes for Acetabular Cup Removal**

Designed by Merrill Ritter, MD

*Multi-arch osteotomes help in removal of total hip cups*

For removal of total hip cups, the different curvatures help to fit next to a cup's outer surface. The osteotomes have a handle for better control and a hammering platform end.

**Modified Lambotte Cup Removal Osteotomes**

Designed with different hemispheres of curves to match cups of different sizes

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.

**Poly Cup Liner Removal Drill**

Designed by Keith R. Berend, MD

*Threaded, aggressive, drill tipped tool designed to facilitate removal of an acetabular liner*

When the flat-ended drill end reaches the metal of the acetabular cup, continue drilling and the liner will become engaged in the drill flutes and back off for removal.
**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*

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1151 [11/13]</td>
</tr>
<tr>
<td>1152 [12/14]</td>
</tr>
<tr>
<td>1153 [14/16]</td>
</tr>
</tbody>
</table>

**Lombardi Hip Cup Liner/Shell Extractor**

Designed by Adolph V. Lombardi, MD

*Used for removal of a total hip cup or liner*

- Expandable flanges are designed to bite into the polyethylene of a total hip cup
- When the flanges have been expanded, a slap hammer is screwed into the extractor for removal
- Can also be used for removal of a metal hip cup shell if the shell has a groove around the rim for the flanges to lock into
- Also helpful for cemented cup extraction
- Set includes standard slap hammer #3925.

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3638-00 [Set]</td>
</tr>
<tr>
<td>Also Available Individually</td>
</tr>
<tr>
<td>3638-01 [Remover Only]</td>
</tr>
<tr>
<td>Overall Length: 9.5” (24.1 cm)</td>
</tr>
<tr>
<td>3925 [Standard Slap Hammer]</td>
</tr>
<tr>
<td>3/8”-16 Thread Gauge</td>
</tr>
</tbody>
</table>

**Star Metal Cup Liner Removal Impactor**

Designed by Andrew M. Star, MD

*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.*

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5014</td>
</tr>
<tr>
<td>Overall Length: 8” (20.3 cm)</td>
</tr>
</tbody>
</table>

**See page 5 for alternative slap hammers.**
Flexible Osteotome System
Provides an assortment of osteotome blades for various orthopedic surgery procedures

Optional Parts and Blades

- Optional Strike Plate can be attached to the Handle for direct striking with a mallet
- Optional Curved Chisel Blades are designed to help loosen the cement/prosthesis from component pegs, fins, etc.
- Optional Strike Plate for Handle
- Extra Long Chisel Blades

Medial Curve Radial Blade
Curved Radial Blades are helpful in the removal of well-fixed long bone intramedullary hardware

EXTRA LONG CHISEL BLADES
Designed for removal of well-fixed long bone intramedullary hardware

Product No’s:
- S1121 [Radial Osteotome] 7.5" (19,1 cm) x 8 mm
- S1134 [Radial Osteotome] 7.5" (19,1 cm) x 11 mm
- S1135 [Radial Osteotome] 7.5" (19,1 cm) x 12 mm
- S1136 [Radial Osteotome] 7.5" (19,1 cm) x 14 mm
- S1137 [Radial Osteotome] 7.5" (19,1 cm) x 16 mm
- S1122 [Radial Osteotome] 5" (12,7 cm) x 12 mm
- S1200 [Slap Hammer] 12" (30,5 cm)
- 9018 [Case]

Product No’s:
- S1200-SP [Strike Plate for Handle] Diameter 1.625" (4,1 cm)
- S1123 [7.5" XL Osteotome Blade] 7.5" (19,1 cm) x 8 mm
- S1135 [Radial Osteotome, Medial Curve] 6.75" (17,1 cm) x 11 mm
- S1136 [Radial Osteotome, Lateral Curve] 6.75" (17,1 cm) x 11 mm
- S1137 [Radial Osteotome, Medial Curve] 5" (12,7 cm) x 11 mm
- S1138 [Radial Osteotome, Lateral Curve] 5" (12,7 cm) x 11 mm

Optional Chisel Blades (Not Included in Complete Set):
- S1233-L [2" Left Curved Chisel Blade] 2" (5,1 cm) x 8 mm
- S1233-R [2" Right Curved Chisel Blade] 2" (5,1 cm) x 8 mm
- S1222 [2.5" Chisel Blade – 8 mm] 2.5" (6,4 cm) x 8 mm
- S1223 [2.5" Chisel Blade – 10 mm] 2.5" (6,4 cm) x 10 mm
- S1224 [2.5" Chisel Blade – 12 mm] 2.5" (6,4 cm) x 12 mm
- S1225 [2.5" Chisel Blade – 20 mm] 2.5" (6,4 cm) x 20 mm
- S1229 [5" Chisel Blade – 8 mm] 5" (12,7 cm) x 8 mm
- S1228 [5" Chisel Blade – 10 mm] 5" (12,7 cm) x 10 mm
- S1231 [5" Chisel Blade – 12 mm] 5" (12,7 cm) x 12 mm
- S1230 [5" Chisel Blade – 20 mm] 5" (12,7 cm) x 20 mm
- S1227 [5.5" Long Chisel Blade] 5.5" (14 cm) x 8 mm
- S1232 [7.5" XL Chisel Blade] 7.5" (19,1 cm) x 8 mm
- S1234 [8.5" XL Chisel Blade] 8.5" (21,6 cm) x 8 mm
- S1235 [9.5" XL Chisel Blade] 9.5" (23,3 cm) x 8 mm
- S1236 [10.5" XL Chisel Blade] 10.5" (26,7 cm) x 8 mm
- S1237 [11.5" XL Chisel Blade] 11.5" (29,2 cm) x 8 mm
- S1238 [12.5" XL Chisel Blade] 12.5" (31,8 cm) x 8 mm

Optional Parts and Blades

- Strike Plate for Handle
- Extra Long 7.5" Osteotome Blade
- Medial Curve Radial Blades
- Lateral Curve Radial Blades
- 2" Curved Chisel Blades
- 5" Chisel Blades
- 5.5" Long Chisel Blade
- 7.5", 8.5", 9.5", 10.5", 11.5", & 12.5" Extra Long Chisel Blades

Optional Curved Chisel Blades are designed to help loosen the cement/prosthesis from component pegs, fins, etc.

- Curved chisel design allows working around component pegs, fins, etc.

Optional Strike Plate can be attached to the Handle for direct striking with a mallet

- Optional Curved Chisel Blades are designed to help loosen the cement/prosthesis from component pegs, fins, etc.

Optional Curved Chisel Blades are designed to help loosen the cement/prosthesis from component pegs, fins, etc.

- Curved chisel design allows working around component pegs, fins, etc.

Optional Curved Chisel Blades are designed to help loosen the cement/prosthesis from component pegs, fins, etc.

- Curved chisel design allows working around component pegs, fins, etc.
Mueller-Type Cement Removal Instruments
Used for cement removal in the hip, knee, and shoulder

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S7500-00</td>
<td>[Complete Set with Case]</td>
</tr>
</tbody>
</table>
| S7505        | [Narrow Cement Removal Gouge, Short]  
|              | Shaft Length: 15 cm  
|              | Gouge: 9 mm, negative |
| S7507        | [Narrow Cement Removal Gouge, Long]  
|              | Shaft Length: 24 cm  
|              | Gouge: 9 mm, negative |
| S7510        | [Narrow Offset Cement Removal Gouge]  
|              | Shaft Length: 24 cm  
|              | Gouge: 9 mm, negative |
| S7515        | [Acetabular Chisel]  
|              | Shaft Length: 24 cm  
|              | Chisel: 7.5 mm |
| S7520        | [Offset Chisel]  
|              | Shaft Length: 15 cm  
|              | Chisel: 9 mm |
| S7525        | [Flared Angle Gouge]  
|              | Shaft Length: 24 cm  
|              | Gouge: 9 mm, positive, angle 15° down |
| S7530        | [Wide Gouge]  
|              | Shaft Length: 24 cm  
|              | Gouge: 11.5 mm, negative |
| S7535        | [“V” Splitter]  
|              | V-Shaped Chisel: 7 mm |
| S7587        | [Saddle Punch]  
|              | Shaft Length: 24 cm  
|              | Punch: 16.5 mm x 6.5 mm |
| S7590        | [Cement Splitting Osteotome]  
|              | Shaft Length: 24 cm |
| S7595        | [Cement Removal Osteotome, Short]  
|              | Shaft Length: 15 cm  
|              | Osteotome: 8 mm |
| S7597        | [Cement Removal Osteotome, Long]  
|              | Shaft Length: 24 cm  
|              | Osteotome: 8 mm |
| S7540        | [4.4 mm Drill] |
| S7545        | [4.4 mm Drill Guide] |
| S7550        | [6.4 mm Drill] |
| S7555        | [6.4 mm Drill Guide] |
| S7560        | [Straight Cement Removal Hook]  
|              | Hook Curette: 10 mm |
| S7565        | [Curved Cement Removal Hook]  
|              | Hook Curette: 10 mm |
| S7570        | [Cross Bar] |
| S7575        | [7 mm T-Handle Conical Tap] |
| S7580        | [9 mm T-Handle Conical Tap] |
| S7585        | [Slotted Mallet] |
| 9075         | [Case Only] |

Optional Instruments:

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8247-00</td>
<td>[T-Handle Chuck &amp; Key]</td>
</tr>
<tr>
<td>8247-01</td>
<td>[T-Handle Chuck Only]</td>
</tr>
<tr>
<td>8247-02</td>
<td>[Chuck Key Only]</td>
</tr>
</tbody>
</table>
Universal Screw Removal Instrument System

**Product No:**
- S0010-00 [Complete System with Case]
- S0113 [Universal 4” (10,2 cm) Handle]
- S0128 [1.5 mm Screw Extractor]
- S016 [2.5 mm Screw Extractor]
- S0130 [3.5 mm Screw Extractor]
- S0117 [1.5 mm Hex Driver]
- S0114 [2.5 mm Hex Driver]
- S0115 [3.5 mm Hex Driver]
- S0132 [4.0 mm Hex Driver]
- S0133 [5.0 mm Hex Driver]
- S0136 [2.5 mm Cannulated Hex Driver]
- S0137 [3.5 mm Cannulated Hex Driver]
- S0138 [4.0 mm Cannulated Hex Driver]
- S0139 [5.0 mm Cannulated Hex Driver]
- S0118 [Large Cruciform Screwdriver]
- S0119 [Small Cruciform Screwdriver]
- S0141 [Mini Cruciform Screwdriver]
- S0120 [Single Slot Screwdriver]
- S0121 [2.2 mm Trephine]
- S0122 [3.2 mm Trephine]
- S0123 [4.2 mm Trephine]
- S0124 [4.7 mm Trephine]
- S0125 [7.2 mm 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]
- 9017 [Screw Removal Case Only]

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

**Star Bit Driver Set**

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

**Product No:**
- 5194-00 [4 Star Bits w/Handle & Case]
- 5194-01 [4 Star Bits w/Case only]

Also sold individually:
- S0113 [Universal 4” (10,2 cm) Handle]
- S0128 [1.5 mm Screw Extractor]
- S016 [2.5 mm Screw Extractor]
- S0130 [3.5 mm Screw Extractor]
- S0117 [1.5 mm Hex Driver]
- S0114 [2.5 mm Hex Driver]
- S0115 [3.5 mm Hex Driver]
- S0132 [4.0 mm Hex Driver]
- S0133 [5.0 mm Hex Driver]
- S0136 [2.5 mm Cannulated Hex Driver]
- S0137 [3.5 mm Cannulated Hex Driver]
- S0138 [4.0 mm Cannulated Hex Driver]
- S0139 [5.0 mm Cannulated Hex Driver]
- S0118 [Large Cruciform Screwdriver]
- S0119 [Small Cruciform Screwdriver]
- S0141 [Mini Cruciform Screwdriver]
- S0120 [Single Slot Screwdriver]
- S0121 [2.2 mm Trephine]
- S0122 [3.2 mm Trephine]
- S0123 [4.2 mm Trephine]
- S0124 [4.7 mm Trephine]
- S0125 [7.2 mm Trephine]
- S0127 [Universal Extractor – Shaft Only]
- 9003 [Case]

**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:**
- 5194-00 [4 Star Bits w/Handle & Case]
- 5194-01 [4 Star Bits w/Case only]

Also sold individually:
- S0113 [Universal 4” (10,2 cm) Handle]
- S0128 [1.5 mm Screw Extractor]
- S016 [2.5 mm Screw Extractor]
- S0130 [3.5 mm Screw Extractor]
- S0117 [1.5 mm Hex Driver]
- S0114 [2.5 mm Hex Driver]
- S0115 [3.5 mm Hex Driver]
- S0132 [4.0 mm Hex Driver]
- S0133 [5.0 mm Hex Driver]
- S0136 [2.5 mm Cannulated Hex Driver]
- S0137 [3.5 mm Cannulated Hex Driver]
- S0138 [4.0 mm Cannulated Hex Driver]
- S0139 [5.0 mm Cannulated Hex Driver]
- S0118 [Large Cruciform Screwdriver]
- S0119 [Small Cruciform Screwdriver]
- S0141 [Mini Cruciform Screwdriver]
- S0120 [Single Slot Screwdriver]
- S0121 [2.2 mm Trephine]
- S0122 [3.2 mm Trephine]
- S0123 [4.2 mm Trephine]
- S0124 [4.7 mm Trephine]
- S0125 [7.2 mm Trephine]
- S0127 [Universal Extractor – Shaft Only]
- 9003 [Case]

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

Six trephine sizes with reverse thread teeth designed to help with removal of screws with minimal bone loss, as well as gathering of core bone samples for biopsy or core decompression. Can be used with the T-handle or with power.

For Screw Removal
The trephine ends are designed to fit over embedded screws for extraction with minimal bone loss. Six sizes available — internal diameters of 5 mm, 6.5 mm, 8 mm, 9 mm, 10 mm, and 11 mm. The T-handle allows for precise, controlled use.

For Core Bone Sampling
Cannulated T-handle and trephines allow use of a standard 1.6 mm (.062”) threaded K-wire to help facilitate grasping and removal of a core bone sample for biopsy or core decompression. Variety of core diameters yields bone samples of sufficient size for pathology, K-wire not included.

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.

Torx/Hex Adapter Set
Designed for conversion of a 3.5 mm screwdriver
Especially helpful when an articulated, universal joint driver is needed (i.e. acetabular screws)
Screw Removal Pliers
Jaw designed to grasp onto a screw or screw head to help in removal

PRODUCT NO: 2020
Overall Length: 8 (20.3 cm)

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

PRODUCT NO: 2025
Overall Length: 8 (20.3 cm)
2025-03 [Replacement Insert]
Includes top and bottom delrin jaws, two screws and a hex wrench

Long Jaw Needle Nose Pliers

PRODUCT NO: 1833
Overall Length: 7" (17.8 cm)
Jaw Length: 2.25" (5.7 cm)
Jaw Width Tapered from: 8 mm to 1.5 mm
Jaw Height Tapered from: 12 mm to 2.5 mm

Screw/Pin Removal Locking Pliers
Unique jaw designed to solidly grip and clamp onto screw for removal

PRODUCT NO: S0142
Overall Length: 8" (20.3 cm)
Jaw Width: 4.5 mm
OrthoVise™

U.S. Patent #5,398,208

Made exclusively for Innomed in Germany

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

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

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

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

**Threaded Adapters**

**Product No.**

- 3980-02: [Small Adapter]
  - Changes Male End of a Slap Hammer to Female

- 3980-03: [Threaded Adapting Screw – Large]
  - For use with 3965’s, 3966’s, 3980’s, 3981’s

- 3980-03: [Threaded Adapting Screw – Small]
  - For use with 3975’s, 3985’s

**Slap Hammers**

- 3950: [Slap Hammer for Large OrthoVise]
  - For use with: 3965’s, 3980’s, 3981’s
  - Overall Length: 16.5” (41.9 cm)

- 3955: [Slap Hammer for Small OrthoVise]
  - For use with: 3975’s, 3985’s
  - Overall Length: 8.75” (22.2 cm)

- 3925: [Standard Slap Hammer w/16” Rod]
  - For use with: 3966’s
  - Overall Length: 16” (40.7 cm)

- 3926: [Easy Grip Slap Hammer w/16” Rod]
  - For use with: 3966’s
  - Overall Length: 16” (40.7 cm)

**OrthoVise™**

- **Standard Large**
  - OrthoVise™ Length: 10” (25.4 cm)
  - 3980: with Attachment Bolts (two sides & end)
  - with Large OrthoVise™ Slap Hammer (#3950)
  - 3980-01: with Attachment Bolts (two sides & end)
  - without Slap Hammer
  - 3981: without Attachment Bolts
  - without Slap Hammer
  - with End Attachment Nut that accepts a Standard Slap Hammer (#3925 or 3926)

- **Long Nose**
  - OrthoVise™ Length: 12” (30.5 cm)
  - 3965: with Attachment Bolts (two sides & end)
  - with Large OrthoVise™ Slap Hammer (#3950)
  - 3965-01: with Attachment Bolts (two sides & end)
  - without Slap Hammer

- **Long Nose Large Bent Jaw**
  - OrthoVise™ Length: 11.5” (29.2 cm)
  - 3966: with Attachment Nut (end)
  - with Standard Slap Hammer (#3925)
  - 3966-01: with Attachment Bolt (end)
  - without Slap Hammer

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

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

- **Made of stainless steel**

- **For Large OrthoVise**
  - Standard with 16” Rod
  - Easy Grip Standard with 16” Rod

- **For Small OrthoVise**
  - Standard with 16” Rod
  - Small Adapter allows a Standard Slap Hammer (#3925 or #3926) to be used with any Large OrthoVise™ with Attachment Bolts.

- **Threaded Adapters**

- **Slip Hammer for Large OrthoVise**
  - Changes Male End of a Slap Hammer to Female

- **Threaded Adapting Screw – Large**
  - For use with 3965’s, 3966’s, 3980’s, 3981’s

- **Threaded Adapting Screw – Small**
  - For use with 3975’s, 3985’s
Femoral Component Extractor

Universal extraction instrument for total knee revision surgery

A standard set of jaws is used for slotted and unslotted femoral components. Features a round tightening wheel which allows the surgeon to easily tighten the jaws without using a separate socket wrench. The tightening wheel can be easily removed for replacing the jaws. The copolymer prosthesis stabilizing block allows access to the block tightening wheel. Includes standard slap hammer, #3925.

Clamps onto femoral knee component for extraction

<table>
<thead>
<tr>
<th>PRODUCT NO’S:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3920 [Extractor with Standard Slap Hammer #3925]</td>
</tr>
<tr>
<td>Optional/Individual/Replacement Parts:</td>
</tr>
<tr>
<td>3920-SJ [Pair of Standard Jaws]</td>
</tr>
<tr>
<td>3925 [Standard Slap Hammer] Thread Gauge: 3/8”-16</td>
</tr>
<tr>
<td>3935 [Extra Large Slap Hammer] Thread Gauge: 3/8”-16</td>
</tr>
<tr>
<td>3926 [Easy Grip Slap hammer with 16” Rod]</td>
</tr>
</tbody>
</table>

See page 5 for alternative slap hammers.
Boynton Punch
Helpful in removing trial, femoral and revision total knee components

The flange end fits onto the flange of a femoral knee component or trial.

Lachiewicz Total Knee Revision Set
Used for total knee revision

PRODUCT NO'S:

5120-01 [Standard]
Overall Length: 11.75" (29.8 cm)
Shaft Diameter: 9.5 mm
Punch End Offset: 60 mm

5120-02 [Offset]
Overall Length: 11.75" (29.8 cm)
Shaft Diameter: 9.5 mm

The flange end fits onto the flange of a femoral knee component or trial.

PRODUCT NO'S:

3700-00 [Complete Set]

Individual Instruments:

3700-01 [Offset Edge Cutting Cement Chisel, Short]
Chisel Width: 10 mm

3700-02 [Offset Edge Cutting Cement Chisel, Long]
Chisel Width: 15 mm

3700-03 [Offset Femoral Component Dis-impactor]

3700-04 [8 mm Cement Prosthesis Osteotome]
Osteotome Width: 8 mm

3700-05 [10 mm Cement Prosthesis Osteotome]
Osteotome Width: 10 mm

3700-06 [13 mm Cement Prosthesis Osteotome]
Osteotome Width: 13 mm

3700-07 [20 mm Cement Prosthesis Osteotome]
Osteotome Width: 20 mm

3700-08 [V-shaped Cement Splitter]

3700-09 [One-sided Cement Splitter]

3700-10 [8 mm Cement Hook]
Hook Blade Width: 8 mm

3700-11 [Cement Punch]

3700-12 [Removal Cross Bar]

3700-CASE [Case]
Foster Cement Osteotome
Designed to help remove UKA/TKA component
Features a large handle and striking platform. The osteotome is nitrate coated to help protect the implant surface.

**PRODUCT NO:**
5232  
Osteotome Width: 6.7 mm  
Overall Length: 8.5" (21.6 cm)  
Handle Length: 5.75" (14.7 cm)

Mini-lexer Osteotomes
Helpful with osteophyte and cement removal
Small, thin osteotomes helpful with osteophyte and cement removal. Larger handle helps with better control.

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Blade Width</th>
<th>Overall Length</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 mm</td>
<td>7.25&quot; (18.4 cm)</td>
<td>4&quot; (10.2 cm)</td>
</tr>
<tr>
<td>6 mm</td>
<td>7.25&quot; (18.4 cm)</td>
<td>4&quot; (10.2 cm)</td>
</tr>
<tr>
<td>10 mm</td>
<td>7.25&quot; (18.4 cm)</td>
<td>4&quot; (10.2 cm)</td>
</tr>
<tr>
<td>12 mm</td>
<td>7.25&quot; (18.4 cm)</td>
<td>4&quot; (10.2 cm)</td>
</tr>
</tbody>
</table>

Curved Cement Osteotome
Helps remove cement around the back of the tibia base, and is useful in the femoral notch during removal of a knee femoral component
Designed to be inserted around the back of the tibia base to remove cement. The curve is congruent with most tibia bases. During revision knee surgery, can be used to help separate the prosthesis/bone or prosthesis/cement interface. The curve of the osteotome allows it to be used in the femoral notch of a femoral component. The osteotome is nitrate coated to help protect the implant surface.

**PRODUCT NO:**
5220  
Overall Length: 6.75" (17.1 cm)  
Blade Width: 6.8 mm

Eickmann Knee Revision Set
Used for total knee revision
Designed by Thomas Eickmann, MD

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Blade Width</th>
<th>Overall Length</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 mm Offset Cement Removal Chisel</td>
<td>7.25&quot; (18.4 cm)</td>
<td>4&quot; (10.2 cm)</td>
</tr>
<tr>
<td>6 mm Notched Cement Removal Chisel</td>
<td>7.25&quot; (18.4 cm)</td>
<td>4&quot; (10.2 cm)</td>
</tr>
<tr>
<td>8 mm Implant Remover</td>
<td>7.25&quot; (18.4 cm)</td>
<td>4&quot; (10.2 cm)</td>
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</table>

**PRODUCT NO:**
5470-00 [Complete Set]

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<th>Blade Width</th>
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<th>Handle Length</th>
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<tr>
<td>8 mm Chisel</td>
<td>7.25&quot; (18.4 cm)</td>
<td>4&quot; (10.2 cm)</td>
</tr>
<tr>
<td>11 mm Chisel</td>
<td>7.25&quot; (18.4 cm)</td>
<td>4&quot; (10.2 cm)</td>
</tr>
<tr>
<td>20 mm Chisel</td>
<td>7.25&quot; (18.4 cm)</td>
<td>4&quot; (10.2 cm)</td>
</tr>
</tbody>
</table>

**CASE**

CASE ONLY

WWW.INNOMED.NET  FREE TRIAL ON MOST INSTRUMENTS
**Lawrence Revision Knee Gap Balancing Tensioner Set**

Designed by Jeffrey M. Lawrence, MD

Designed to help tense the medial and lateral ligaments during total knee surgery, and can help prevent impingement of a 4-in-1 block.

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
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</thead>
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<tr>
<td>1896-01</td>
<td>[Set – Left &amp; Right]</td>
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<tr>
<td>1896-01L</td>
<td>[Left]</td>
<td>Overall Length: 9.25” (23.5 cm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pad Diameter: 1” (2.5 cm)</td>
</tr>
<tr>
<td>1896-01R</td>
<td>[Right]</td>
<td>Overall Length: 9.25” (23.5 cm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pad Diameter: 1” (2.5 cm)</td>
</tr>
</tbody>
</table>

**Optional Items:**

- 3935 [Extra Large Slap Hammer Only]
- 3925 [Thread Gauge: 3/8”-16] (1.6 mm-16)
- 3926 [Easy Grip Slap hammer with 16” Rod]

---

**Incavo Tibial Component Revision Osteotomes**

Designed by Stephen J. Incavo, MD

**Designed to help break the posterior cement-bone interface when removing a cemented tibial TKA component**

Also used to help break the posterior implant-bone interface when removing a cementless tibial TKA component.

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>3621-00</td>
<td>[Complete Set]</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Blade Length: 10 mm</td>
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<tr>
<td></td>
<td></td>
<td>Blade Width: 0.5” (1.3 cm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blade Offset: 0.75” (1.9 cm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Overall Length: 8.5” (21.6 cm)</td>
</tr>
<tr>
<td>3621-01</td>
<td>[Standard]</td>
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</tr>
<tr>
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<td></td>
<td>Blade Length: 14 mm</td>
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<td></td>
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<td>Blade Width: 0.5” (1.3 cm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blade Offset: 0.75” (1.9 cm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Overall Length: 8.5” (21.6 cm)</td>
</tr>
<tr>
<td>3621-02</td>
<td>[Medium]</td>
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<td></td>
<td></td>
<td>Blade Length: 18 mm</td>
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<tr>
<td></td>
<td></td>
<td>Blade Width: 0.5” (1.3 cm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blade Offset: 0.75” (1.9 cm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Overall Length: 8.5” (21.6 cm)</td>
</tr>
<tr>
<td>3621-03</td>
<td>[Deep]</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Blade Length: 22 mm</td>
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<td></td>
<td></td>
<td>Blade Width: 0.5” (1.3 cm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blade Offset: 0.75” (1.9 cm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Overall Length: 8.5” (21.6 cm)</td>
</tr>
</tbody>
</table>

---

**Tibia Tray Removal Hooks**

Designed by Jerrold Gorski, MD

Modified 8 mm version designed by Dennis Brown, MD

**Designed to be used with a slap hammer to remove a tibia tray during revision knee surgery**

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>3650</td>
<td>[4 mm Gorski Hook w/Standard Slap Hammer #3925]</td>
<td></td>
</tr>
<tr>
<td>3650-01</td>
<td>[4 mm Gorski Hook Only]</td>
<td></td>
</tr>
<tr>
<td>3655</td>
<td>[8 mm Brown Gorski Hook w/Standard Slap Hammer #3925]</td>
<td></td>
</tr>
<tr>
<td>3655-01</td>
<td>[8 mm Brown Gorski Hook Only]</td>
<td></td>
</tr>
<tr>
<td>3935</td>
<td>[Extra Large Slap Hammer Only]</td>
<td>Thread Gauge: 3/8”-16</td>
</tr>
<tr>
<td>3926</td>
<td>[Easy Grip Slap hammer with 16” Rod]</td>
<td></td>
</tr>
</tbody>
</table>

See page 5 for alternative slap hammers.
**Clamps onto a tibial knee component for extraction**

<table>
<thead>
<tr>
<th>PRODUCT NO's:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3630 [Extractor with Standard Slap Hammer]</td>
</tr>
<tr>
<td>Optional/Individual/Replacement Parts:</td>
</tr>
<tr>
<td>3630-01 [Pair of Standard Blades] 10 mm x 50 mm</td>
</tr>
<tr>
<td>3630-02 [Pair of Offset Blades] 10 mm x 50 mm, Offset 15 mm</td>
</tr>
<tr>
<td>3630-HS [Hex Screws] Pkg of 6</td>
</tr>
<tr>
<td>3925 [Standard Slap Hammer] Thread Gauge: 3/8&quot;-16</td>
</tr>
<tr>
<td>3935 [Extra Large Slap Hammer] Thread Gauge: 3/8&quot;-16</td>
</tr>
<tr>
<td>3926 [Easy Grip Slap hammer with 16&quot; Rod]</td>
</tr>
</tbody>
</table>

*Designed to lock onto a tibial component and extract in line with the stem or pegs. Two adjustable osteotomes are inserted on the underside of the component. A locking screw clamps on to the top of the extractor to secure the component. Includes standard slap hammer, #3925.*

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**Adjusting Blades To Fit Component**
The straight or angled blades are adjusted by loosening the attached screws and sliding the blades into the desired position.

**Driving Blades Under Component**
The blades are driven under the tibial base.

**Tightening Threaded Rod On Component**
The site hole for the pointed, threaded rod can be aligned with the proximal surface of the tibial component by using the included hex wrench system. The pointed, threaded rod is tightened onto either a polyethylene or metal tibial component.

**Attaching Slap Hammer Assembly & Removing Component**
The slap hammer assembly is threaded into the threaded rod handle for removal of the component.
Foster Tibial Component Disimpactor
Designed by Scott A. Foster, MD
Designed to help with removal of a total knee tibial component

PRODUCT NO’S:
1213-00 [Set]
Set Includes/Available Separately:
1213-01 [Foster Tibial Prosthesis Disimpactor]
Overall Length: 14” (35.6 cm)
Depth from Bend: 4.5” (11.4 cm)
Fixed Handle Width: 5.5” (14 cm)
1213-B [Foster Tibial Prosthesis Blade]
Two included in Set, one with this product number
Overall Length: 4.625” (12.4 cm)
Handle Length: 4.5” (11.4 cm)
3924-RH [Silicone Grip Handle]
Overall Length: 4” (10.2 cm)

Flexible Curved Chisel Blades for Flexible Osteotome System
Curved Chisel Blades designed by William McMaster, MD
An optional part of the Flexible Osteotome System designed to help remove a tibial knee component

Handle and other components sold separately.
See page 12 for system information.

PRODUCT NO’S:
S1233-L [Left Curved Blade] 2” (5.1 cm) x 8 mm
S1233-R [Right Curved Blade] 2” (5.1 cm) x 8 mm

Whang Tibial Osteotome
Designed by William Whang, MD
Designed to disrupt the interface of a well fixed tibial base, specifically the lateral portion

PRODUCT NO:
5338
Overall Length: 8” (20.3 cm)
Handle Length: 4.5” (11.4 cm)
Blade Thickness: 2.5 mm
FREE TRIAL on most instruments

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

*When shipped to a hospital or medical center; additional charge applies for expedited shipping. Free trial offer excludes implant extraction instruments, which are available as rentals. There is a pad replacement charge with the hip positioners.

Curved Osteotomes for Total Knee Revision

Designed by Mortaza Meftah, MD

Described to help in the removal of a tibial component, the curved blade is designed to hit from multiple angles

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PRODUCT NO’S:

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<th>No</th>
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<th>Handle Length</th>
<th>Blade Width</th>
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<td>3622</td>
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<td>6” (15.2 cm)</td>
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<td>Small</td>
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<td>4.5” (11.4 cm)</td>
<td>12 mm</td>
<td>2 mm</td>
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</tbody>
</table>

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