

# INNOMED

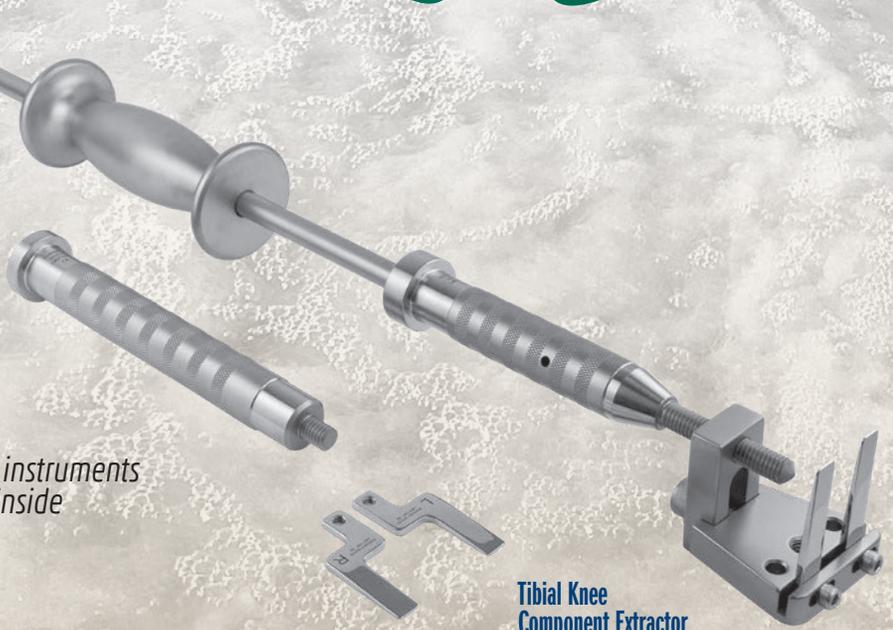
ORTHOPEDIC INSTRUMENTS



JULY  
2023



**Whang Tibial Osteotome**  
Page 9



**Tibial Knee  
Component Extractor**  
Page 8

Featuring many **New!** instruments inside



**Garneti Hip Cup Revision Osteotome Set**  
Page 26

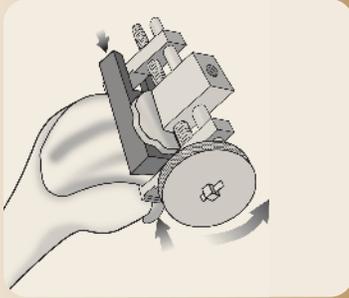


**Whelan Hip Stem  
Extractor**  
Page 20

## Revision/Extraction Instruments

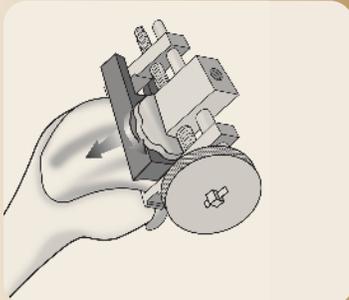
### Attaching Jaws To Component

The jaws are tightened against the femoral component with the socket wrench or tightening wheel.



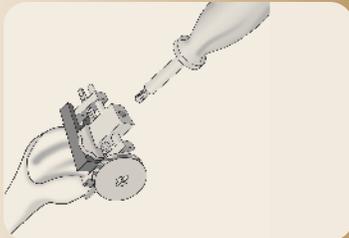
### Stabilizing The Component

The delrin stabilizing insert is tightened against the femoral component by rotating the thumbwheel.



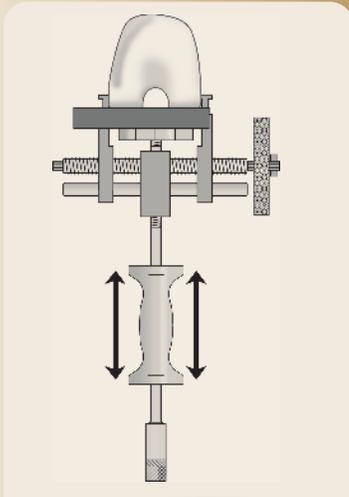
### Attaching Slap Hammer Assembly

The slap hammer assembly is threaded into the extractor body.



### Using Slap Hammer Assembly To Remove Component

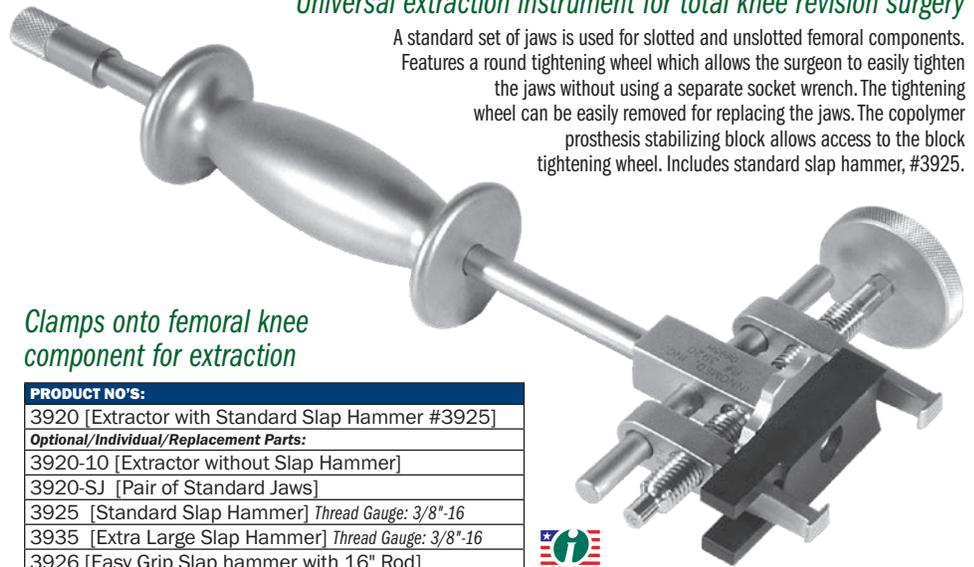
The slap hammer is also designed with a hammer flare for optional use with a mallet.



# 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

#### PRODUCT NO'S:

3920 [Extractor with Standard Slap Hammer #3925]

#### Optional/Individual/Replacement Parts:

3920-10 [Extractor without Slap Hammer]

3920-SJ [Pair of Standard Jaws]

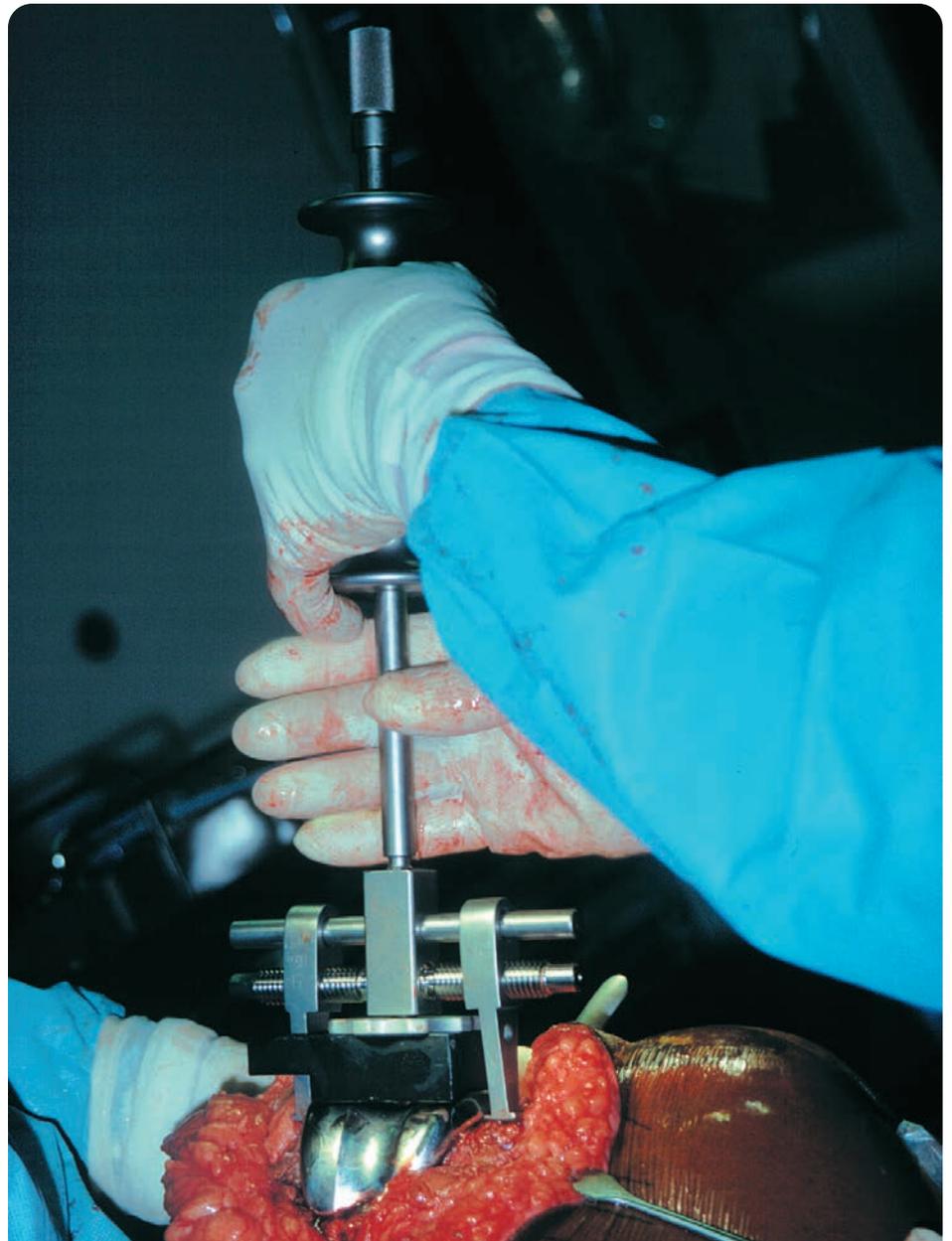
3925 [Standard Slap Hammer] Thread Gauge: 3/8"-16

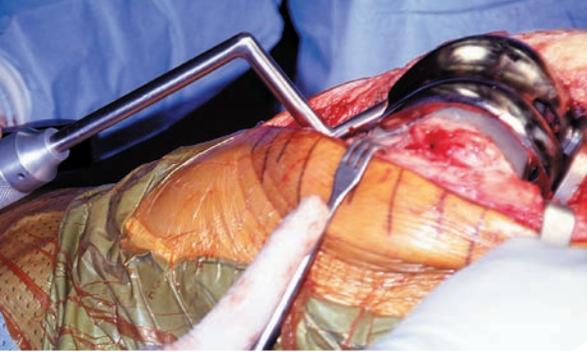
3935 [Extra Large Slap Hammer] Thread Gauge: 3/8"-16

3926 [Easy Grip Slap hammer with 16" Rod]



See page 21 for alternative slap hammers.





## Boynton Punch

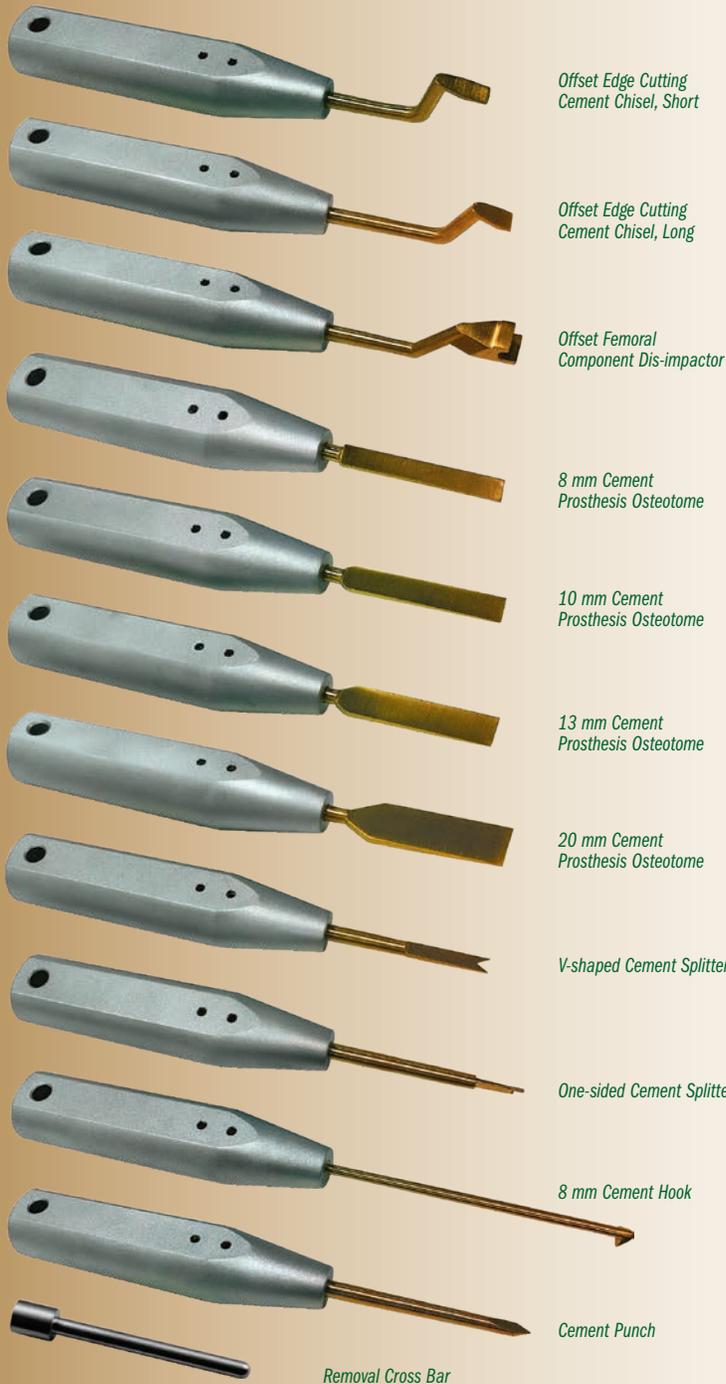
Designed by L. Boynton, MD

Helpful in removing trial, femoral and revision total knee components



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

PRODUCT NO'S:	
5120-01 [Standard] Overall Length: 11.75" (29,8 cm) Shaft Diameter: 9,5 mm	5120-02 [Offset] Overall Length: 11.75" (29,8 cm) Shaft Diameter: 9,5 mm Punch End Offset: 60 mm



Offset Edge Cutting Cement Chisel, Short

Offset Edge Cutting Cement Chisel, Long

Offset Femoral Component Dis-impactor

8 mm Cement Prosthesis Osteotome

10 mm Cement Prosthesis Osteotome

13 mm Cement Prosthesis Osteotome

20 mm Cement Prosthesis Osteotome

V-shaped Cement Splitter

One-sided Cement Splitter

8 mm Cement Hook

Cement Punch

Removal Cross Bar

## Lachiewicz Total Knee Revision Set

Designed by Paul F. Lachiewicz, MD

Used for total knee revision

PRODUCT NO'S:	
3700-00 [Complete Set]	
<b>Individual Instruments:</b>	
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]	



# Garneti Concave Hip/Knee Revision Osteotome

Designed by Mr Naren Garneti MSc (Tr) MRCS MCh (Orth) FRCS (Tr & Orth)

*Designed for use in primary and revision knee surgery*

During revision knee surgery, can be used to help disrupt the bone-implant, cement-bone and cement-implant interfaces. The osteotome can also be used to help extract the tibial and femoral components.

During primary knee surgery, can be used to help remove cement from the periphery of a tibial base plate and femoral component.

*New!*



See page 26 for use in hip revision surgery.

<b>PRODUCT NO:</b>
5275-03 [Garneti Concave Hip/Knee Osteotome]
Overall Length: 11.1" (28,2 cm)
Blade Width: .7" (1,8 cm)
Strike Plate End Diameter: 1.25" (3,2 cm)



# Eickmann Knee Revision Set

Designed by Thomas Eickmann, MD

*Used for total knee revision*

<b>PRODUCT NO'S:</b>
5470-00 [Complete Set]
<b>Individual Instruments:</b>
5470-08 [8 mm Chisel] Osteotome Width: 8 mm Blade Length: 2.375" (6 cm) Overall Length: 7.375" (18,7 cm)
5470-11 [11 mm Chisel] Osteotome Width: 11 mm Blade Length: 2.375" (6 cm) Overall Length: 7.375" (18,7 cm)
5470-20 [20 mm Chisel] Osteotome Width: 20 mm Blade Length: 2.375" (6 cm) Overall Length: 7.375" (18,7 cm)
5472-08 [8 mm Offset Cement Removal Chisel] Osteotome Dimensions: 8 mm Wide x 12 mm Long Blade Length: 2.375" (6 cm) Overall Length: 7.375" (18,7 cm)
5474-06 [6 mm Notched Cement Removal Chisel] Osteotome Width: 6 mm Blade Length: 2.625" (6 cm) Overall Length: 7.375" (18,7 cm)
5475-08 [8 mm Implant Remover] Diameter: 8 mm Blade Length: 2.625" (6 cm) Overall Length: 7.375" (18,7 cm)
5470-CASE [Case Only]





## Curved Osteotomes for Total Knee Revision

Designed by Morteza Meftah, MD

*Designed to help in the removal of a tibial component, the curved blade is designed to make contact from multiple angles*



### PRODUCT NO'S:

3622 [Standard]  
Overall Length: 11" (27,9 cm)  
Handle Length: 6" (15,2 cm)  
Blade Width: 12 mm  
Blade Thickness: 2 mm

3622-01 [Small]  
Overall Length: 8" (20,3 cm)  
Handle Length: 4.5" (11,4 cm)  
Blade Width: 12 mm  
Blade Thickness: 2 mm



## 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:

3621-00 [Complete Set]

Set Includes:

3621-01 [Standard]  
Blade Length: 10 mm  
Blade Width: 1/2" (1,3 cm)  
Blade Offset: 3/4" (1,9 cm)  
Overall Length: 8.5" (21,6 cm)

3621-02 [Medium]  
Blade Length: 14 mm  
Blade Width: 1/2" (1,3 cm)  
Blade Offset: 3/4" (1,9 cm)  
Overall Length: 8.5" (21,6 cm)

3621-03 [Deep]  
Blade Length: 18 mm  
Blade Width: 1,3 cm  
Blade Offset: 3/4" (1,9 cm)  
Overall Length: 8.5" (21,6 cm)

3040 [Slap Hammer]

1015 [Sterilization Case]



## 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*



See page 21 for alternative slap hammers.



### PRODUCT NO'S:

3650 [4 mm Gorski Hook w/Standard Slap Hammer #3925]

3650-01 [4 mm Gorski Hook Only]

3655 [8 mm Brown Gorski Hook w/Standard Slap Hammer #3925]

3655-01 [8 mm Brown Gorski Hook Only]

### Optional Items:

3935 [Extra Large Slap Hammer Only] Thread Gauge: 3/8"-16

3926 [Easy Grip Slap hammer with 16" Rod]

## Foster Cement Osteotome

Designed by Scott A. Foster, MD

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" (14,6 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.

MADE FOR INNOMED IN GERMANY

### PRODUCT NO'S:

5270-01  
Blade Width: 4 mm  
Overall Length: 7.25" (18,4 cm)  
Handle Length: 4" (10,2 cm)

5270-03  
Blade Width: 10 mm  
Overall Length: 7.25" (18,4 cm)  
Handle Length: 4" (10,2 cm)

5270-02  
Blade Width: 6 mm  
Overall Length: 7.25" (18,4 cm)  
Handle Length: 4" (10,2 cm)

5270-04  
Blade Width: 12 mm  
Overall Length: 7.25" (18,4 cm)  
Handle Length: 4" (10,2 cm)

## 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

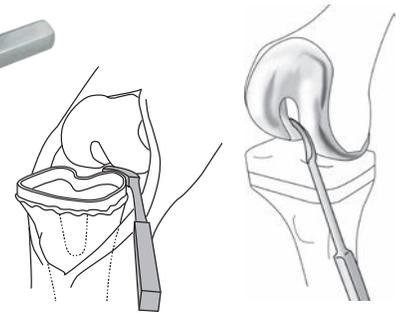
Designed to be inserted around the back of the tibia base to remove cement. The curve is congruent with most tibia bases. During revision knee surgery, can be used to help separate the prosthesis/bone or prosthesis/cement interface. The curve of the osteotome allows it to be used in the femoral notch 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)  
Handle Length: 3" (7,6 cm)  
Blade Width: 6,8 mm



## Chandran Bent Serrated Curette

Designed by Rama E. Chandran, MD

Serrated design allows for easier removal of cancellous bone in the proximal femur in total joint arthroplasty

### PRODUCT NO:

5171

Overall Length: 11.75" (29,8 cm)  
Handle Length: 5.5" (14 cm)  
Cup Size: 7 mm X 12 mm



## Sarraf Toothed Curettes

Designed by Khaled Sarraf, MD

Forward, straight, and reverse bent toothed curettes designed to aid in all types of joint arthroplasty surgery, especially in scraping any articular chondral islands within the acetabulum during THA preparation



- ▶ Valuable aid in revision arthroplasty (hip, knee, shoulder and ankle) for cement curettage
- ▶ Can also be used for the femoral canal in cemented and uncemented THA
- ▶ Useful tool in hip and knee primary arthroplasty as well as shoulder, elbow and ankle arthroplasty procedures

### PRODUCT NO'S:

5174-00 [Set]

Set Includes/ Available Separately:

5174-F [Forward]  
Overall Length: 11.5" (29,2 cm)  
Handle Length: 5.5" (14 cm)  
Angled Down: 30°

5174-R [Reverse]  
Overall Length: 11.5" (29,2 cm)  
Handle Length: 5.5" (14 cm)  
Angled Up: 30°

5174-S [Straight]  
Overall Length: 11.5" (29,2 cm)  
Handle Length: 5.5" (14 cm)



# Wagner Osteotome Handle

Designed by Russell Wagner, MD

Handle is designed for easier gripping, rotational control, and use with a mallet with a standard 1/4" Lambotte osteotome



<b>PRODUCT NO'S:</b>
5348 [Handle Only] Overall Length: 5.5" (14 cm)
5348-01 [1/4" Osteotome Only] Overall Length: 8.875" (22,5 cm)



# 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).



<b>PRODUCT NO'S:</b>
5350-00 [Set w/Case]
<b>Also Available Individually:</b>
5350-25* [1/4"] Overall Length: 9" (22,9 cm) Osteotome Width: .25" (6,4 mm)
5350-50* [1/2"] Overall Length: 9" (22,9 cm) Osteotome Width: .5" (12,7 mm)
5350-75 [3/4"] Overall Length: 9" (22,9 cm) Osteotome Width: .75" (19 mm)
5350-100 [1"] Overall Length: 9" (22,9 cm) Osteotome Width: 1" (25,4 mm)



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5350-125 [1-1/4"] Overall Length: 9" (22,9 cm) Osteotome Width: 1.25" (31,8 mm)
5350-150 [1-1/2"] Overall Length: 9" (22,9 cm) Osteotome Width: 1.5" (38,1 mm)
5350-CASE [Case] Dimensions: 12.25" x 11.25" x 1" (31,1 x 28,6 x 2,5 cm)
5350-CB [Cross Bar] Overall Length: 4.375" (11,1 cm)



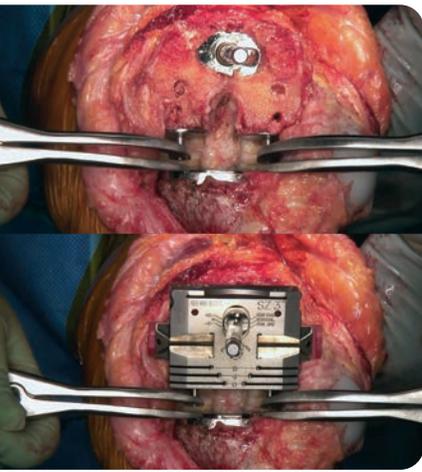
# Ring Curettes



<b>PRODUCT NO'S:</b>
<b>Straight Shaft</b> Overall Length: 8.75" (22,2 cm)
5150 [3 mm, Straight] Ring Diameter: 3 mm
5152 [6 mm, Straight] Ring Diameter: 6 mm
5154 [8 mm, Straight] Ring Diameter: 8 mm



<b>PRODUCT NO'S:</b>
<b>Bent Shaft</b> Overall Length: 8.625" (21,9 cm)
5156 [3 mm, Bent] Ring Diameter: 3 mm
5157 [6 mm, Bent] Ring Diameter: 6 mm
5158 [8 mm, Bent] Ring Diameter: 8 mm



# Lawrence Revision Knee Gap Balancing Tensorer Set

Designed by Jeffrey M. Lawrence, MD

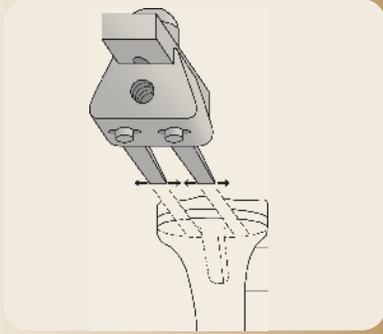
Designed to help tense the medial and lateral ligaments during total knee surgery, and can help prevent impingement of a 4-in-1 block

<b>PRODUCT NO'S:</b>
1896-01 [Set - Left & Right]
<b>Also available individually:</b>
1896-01L [Left] Overall Length: 9.25" (23,5 cm) Pad Diameter: 1" (2,5 cm)
1896-01R [Right] Overall Length: 9.25" (23,5 cm) Pad Diameter: 1" (2,5 cm)



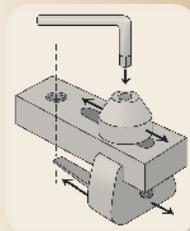
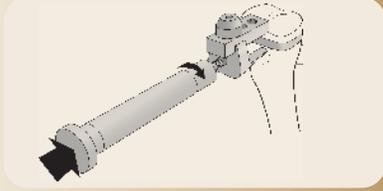
**Adjusting Blades To Fit Component**

The straight or angled blades are adjusted by loosening the attached screws and sliding the blades into the desired position.



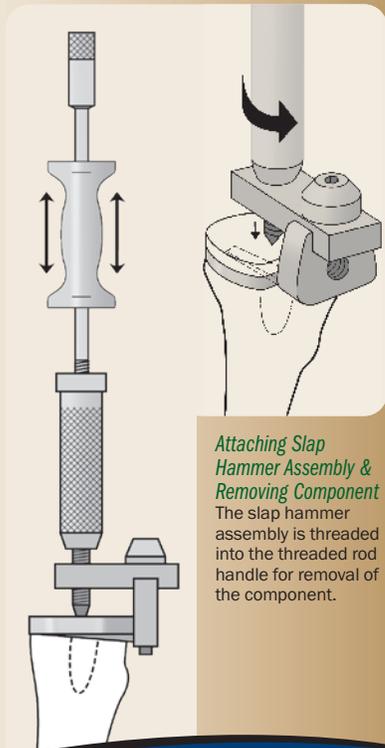
**Driving Blades Under Component**

The blades are driven under the tibial base.



**Tightening Threaded Rod Onto 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.

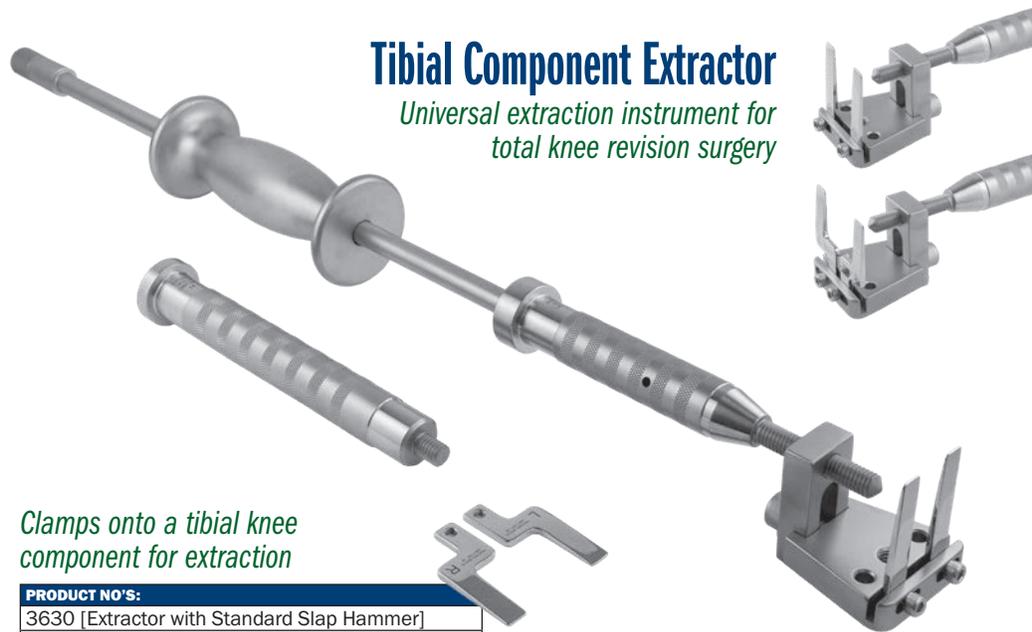


**Attaching Slap Hammer Assembly & Removing Component**

The slap hammer assembly is threaded into the threaded rod handle for removal of the component.

**Tibial Component Extractor**

*Universal extraction instrument for total knee revision surgery*



**Clamps onto a tibial knee component for extraction**

PRODUCT NO'S:	
3630	[Extractor with Standard Slap Hammer]
<b>Optional/Individual/Replacement Parts:</b>	
3630-01	[Pair of Standard Blades] 10 mm x 50 mm
3630-02	[Pair of Offset Blades] 10 mm x 50 mm, Offset 15 mm
3630-HS	[Hex Screws] Pkg of 6
3925	[Standard Slap Hammer] Thread Gauge: 3/8"-16
3935	[Extra Large Slap Hammer] Thread Gauge: 3/8"-16
3926	[Easy Grip Slap hammer with 16" Rod]

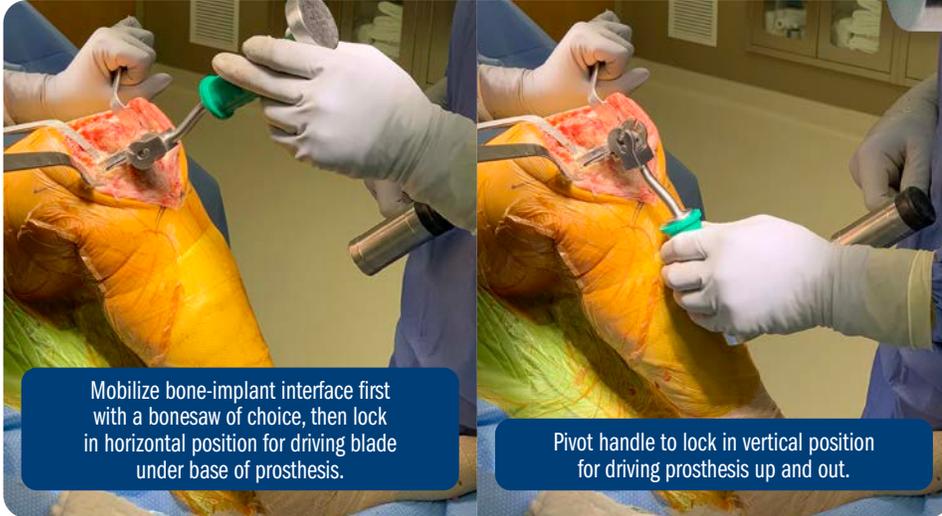
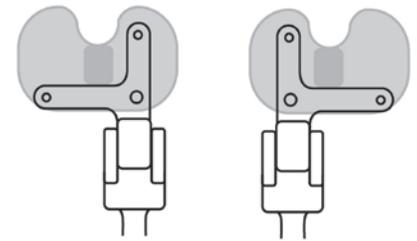
Designed to lock onto a tibial component and extract in line with the stem or pegs. Two adjustable osteotomes are inserted on the underside of the component. A locking screw clamps on to the top of the extractor to secure the component. Includes standard slap hammer, #3925.

See page 21 for alternative slap hammers.



## Foster Tibial Component Disimpactor

Designed by Scott A. Foster, MD  
Designed to help with removal of a total knee tibial component

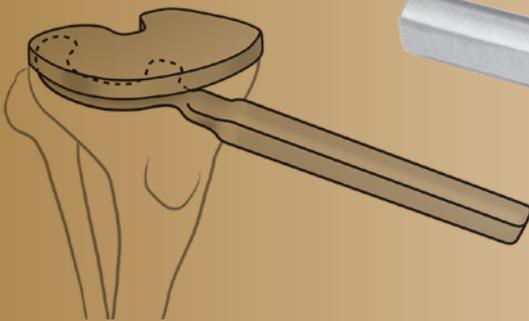


Mobilize bone-implant interface first with a bonesaw of choice, then lock in horizontal position for driving blade under base of prosthesis.

Pivot handle to lock in vertical position for driving prosthesis up and out.



<b>PRODUCT NO'S:</b>
1213-00 [Set]
<b>Set Includes/ Available Separately:</b>
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] <b>Two included in Set, one with this product number</b> Overall Length: 4.875" (12,4 cm) Handle Length: 4.5" (11,4 cm)
3924-RH [Silicone Grip Handle] Overall Length: 4" (10,2 cm)



## Whang Tibial Osteotome

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



<b>PRODUCT NO:</b>
5338
Overall Length: 8" (20,3 cm) Handle Length: 4.5" (11,4 cm) Blade Thickness: 2,5 mm

## 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 10 for system information.

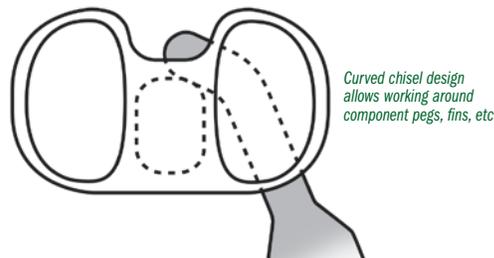
<b>PRODUCT NO'S:</b>
S1233-L [Left Curved Blade] 2" (5,1 cm) x 8 mm
S1233-R [Right Curved Blade] 2" (5,1 cm) x 8 mm



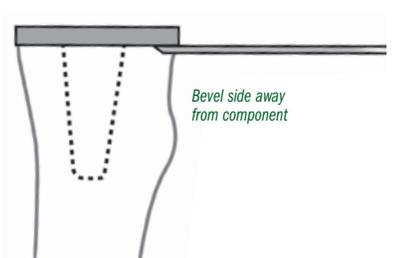
Left Curved Chisel Blade



Right Curved Chisel Blade



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



Bevel side away from component

# Flexible Osteotome System

Provides an assortment of osteotome blades for various orthopedic surgery procedures

PRODUCT NO'S:	
S0011-00	[Set with Quick-Coupling Handle and Case]
S0012-00	[Set with Locking Nut Handle and Case]
Individual Instruments Included in Sets:	
S1002	[Thin Osteotome Blade] 2.5" (6,3 cm) x 8 mm
S1003	[Thin Osteotome Blade] 2.5" (6,3 cm) x 10 mm
S1004	[Thin Osteotome Blade] 2.5" (6,3 cm) x 12 mm
S1005	[Thin Osteotome Blade] 2.5" (6,3 cm) x 20 mm
S1006	[Curved Thin Osteotome Blade] 2.5" (6,3 cm) x 12 mm
S1007	[Curved Thin Osteotome Blade] 5" (12,7 cm) x 20 mm
S1008	[Thin Osteotome Blade] 5" (12,7 cm) x 10 mm
S1009	[Thin Osteotome Blade] 5" (12,7 cm) x 8 mm
S1020	[Handle with Quick-Coupling End] 5" (12,7 cm) or
S1021	[Handle with Locking Nut] 5" (12,7 cm)
S1133	[Radial Osteotome] 5" (12,7 cm) x 10 mm
S1120	[Radial Osteotome] 5" (12,7 cm) x 12 mm
S1134	[Radial Osteotome] 5" (12,7 cm) x 14 mm
S1121	[Radial Osteotome] 5" (12,7 cm) x 16 mm
S1122	[Radial Osteotome] 5" (12,7 cm) x 20 mm
S2007	[Slap Hammer] 12" (30,5 cm)
9018	[Case]

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



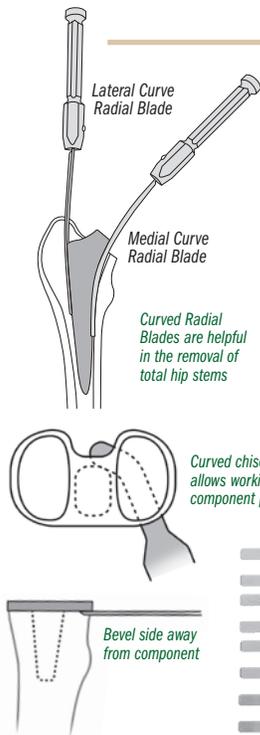
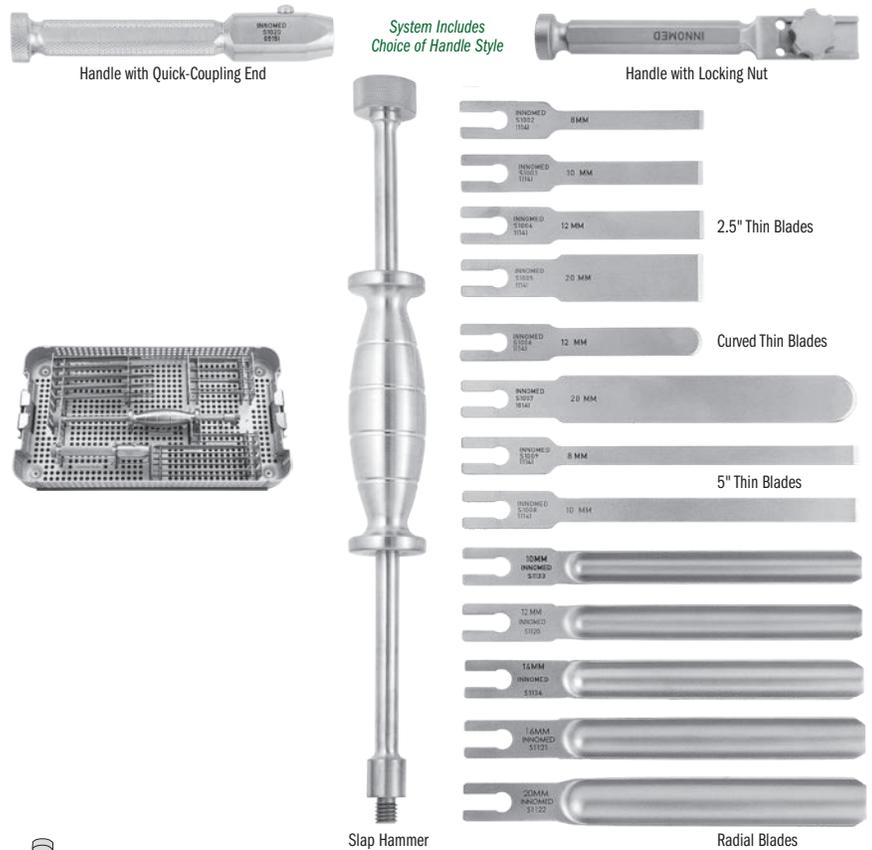
## Optional Parts and Blades

- ▶ 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 interval in TKA tibial tray and femoral component revisions. The curved design is useful in working around pegs & fins to get posterior cement access. Also helpful with removal of other implants, i.e shoulder, ankle, etc.

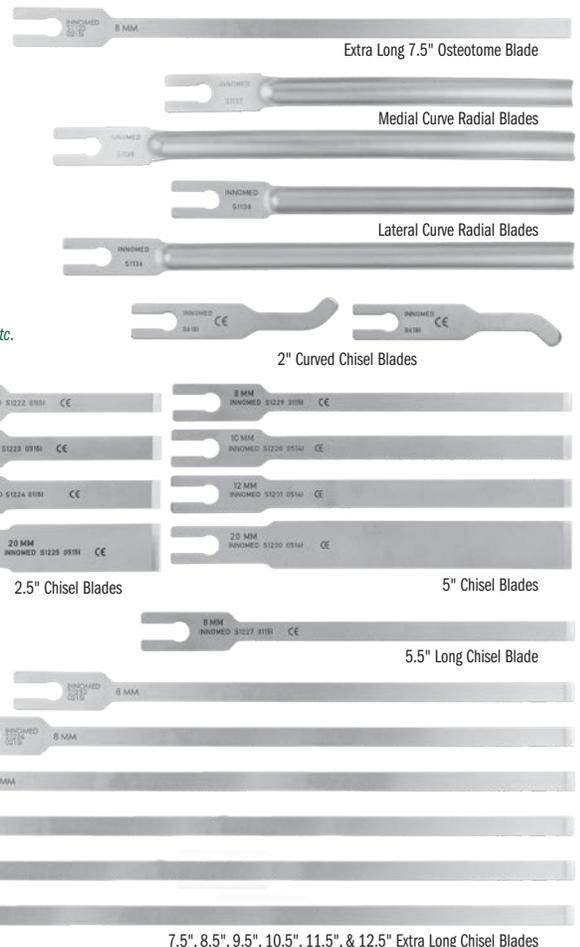
PRODUCT NO'S:	
S1020-SP	[Strike Plate for Handle] Diameter 1.625" (4,1 cm)
Optional Osteotome Blades (Not Included In Complete Set):	
S1123	[7.5" XL Osteotome Blade] 7.5" (19,1 cm) x 8 mm
S1135	[Radial Osteo. Medial Curve] 6.75" (17,1 cm) x 11 mm
S1136	[Radial Osteo. Lateral Curve] 6.75" (17,1 cm) x 11 mm
S1137	[Radial Osteo. Medial Curve] 5" (12,7 cm) x 11 mm
S1138	[Radial Osteo. Lateral Curve] 5" (12,7 cm) x 11 mm
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" (23,1 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

Blade lengths reflect the actual working portion of the blade only. For overall length, add 1.5" (3,8 cm) to blade length listed above.

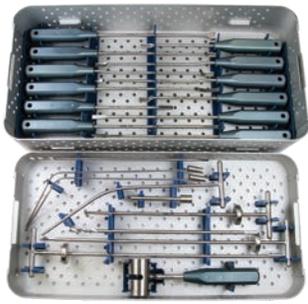
Medial and Lateral Curve Radial Blades designed by Henry Bouchet, MD  
Curved Chisel Blades designed by William McMaster, MD



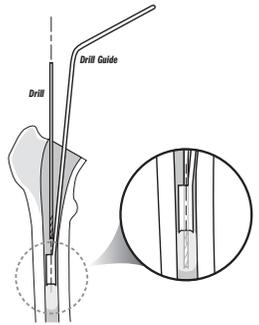
## Optional Parts and Blades



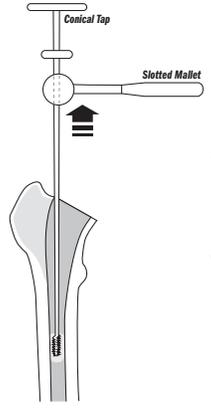
Designed for removal of well-fixed long bone intramedullary hardware



**Drill & Drill Guide**



**Conical Tap & Mallet**



# Mueller-Type Cement Removal Instruments

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

PRODUCT NO'S:	
S7500-00 [Complete Set with Case]	
<i>Individual Instruments:</i>	
S7505 [Narrow Cement Removal Gouge, Short] Shaft Length: 15 cm Gouge: 9 mm, negative	1
S7507 [Narrow Cement Removal Gouge, Long] Shaft Length: 24 cm Gouge: 9 mm, negative	2
S7510 [Narrow Offset Cement Removal Gouge] Shaft Length: 24 cm Gouge: 9 mm, negative	3
S7515 [Acetabular Chisel] Shaft Length: 24 cm Chisel: 7.5 mm	4
S7520 [Offset Chisel] Shaft Length: 15 cm Chisel: 9 mm	5
S7525 [Flared Angle Gouge] Shaft Length: 24 cm Gouge: 9 mm, positive, angle 15° down	6
S7530 [Wide Gouge] Shaft Length: 24 cm Gouge: 11.5 mm, negative	7
S7535 ["V" Splitter] V-Shaped Chisel: 7 mm	8
S7587 [Saddle Punch] Shaft Length: 24cm Punch: 16.5 mm x 6.5 mm	9
S7590 [Cement Splitting Osteotome] Shaft Length: 24 cm	10
S7595 [Cement Removal Osteotome, Short] Shaft Length: 15 cm Osteotome: 8 mm	11
S7597 [Cement Removal Osteotome, Long] Shaft Length: 24 cm Osteotome: 8 mm	12
S7540 [4.4 mm Drill]	13
S7545 [4.4 mm Drill Guide]	14
S7550 [6.4 mm Drill]	15
S7555 [6.4 mm Drill Guide]	16
S7560 [Straight Cement Removal Hook] Hook Curette: 10 mm	17
S7565 [Curved Cement Removal Hook] Hook Curette: 10 mm	18
S7570 [Cross Bar]	19
S7575 [7 mm T-Handle Conical Tap]	20
S7580 [9 mm T-Handle Conical Tap]	21
S7585 [Slotted Mallet]	22
9075 [Case Only]	



**Optional Instruments:**

*T-Handle Chuck for use with Drills*



PRODUCT NO'S:	
8247-00 [T-Handle Chuck & Key]	
8247-01 [T-Handle Chuck Only]	
8247-02 [Chuck Key Only]	

# 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.

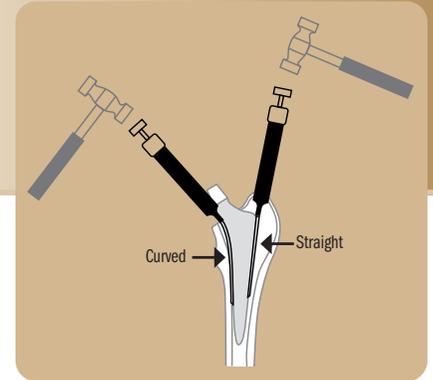
PRODUCT NO'S:	
5301-00	[Complete Set]
<b>Included In Set / Replacement Parts:</b>	
5301-01	[Guide Only] Overall Length: 5.5" to 8.5" (14 cm to 21,6 cm) w/o blade
5301-02	[10 mm Chisel Blade Only] Overall Length: 4.625" (11,7 cm) Blade Thickness: .020" (0,51 mm)
3040	[Slap Hammer]
1015	[Sterilization 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 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]
<b>Included In Set / Replacement Parts:</b>	
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

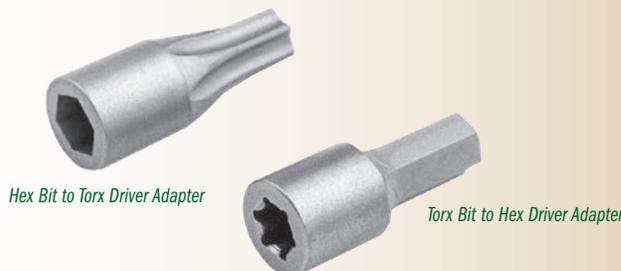
Two blades included in Set

# Torx/Hex Adapter Set

Designed by Stephen M. Walsh, MD

Designed for conversion of a 3.5 mm screwdriver

Especially helpful when an articulated, universal joint driver is needed (i.e. acetabular screws)

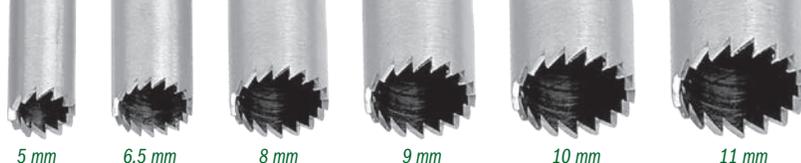


Hex Bit to Torx Driver Adapter

Torx Bit to Hex Driver Adapter

PRODUCT NO'S:	
8003-00	[Set - One Each]
<b>Set Includes/Available Separately:</b>	
8003-01	[Torx Bit to Hex Driver Adapter] Overall Length: .6" (1,54 cm)
8003-02	[Hex Bit to Torx Driver Adapter] Overall Length: .6" (1,54 cm)

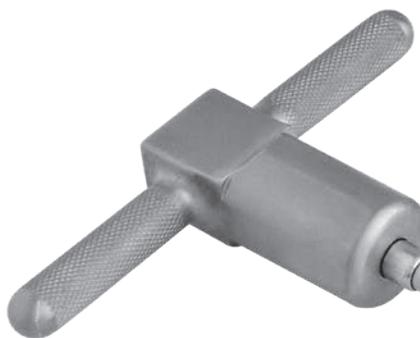




## Cheng Screw Removal and Bone Trephine Set

Designed by Edward Cheng, MD

### Trephine Sizes



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.

PRODUCT NO'S:	
1426-00	[Complete Set with Case]
<b>Set Includes/Available Separately:</b>	
1426-01	[5 mm Internal Diameter] Overall Length: 7.125" (18,1 cm)
1426-02	[6.5 mm Internal Diameter] Overall Length: 7.125" (18,1 cm)
1426-03	[8 mm Internal Diameter] Overall Length: 7.125" (18,1 cm)
1426-05	[9 mm Internal Diameter] Overall Length: 7.125" (18,1 cm)
1426-06	[10 mm Internal Diameter] Overall Length: 7.125" (18,1 cm)
1426-07	[11 mm Internal Diameter] Overall Length: 7.125" (18,1 cm)
1425-14	[Handle Assembly] Dimensions: 4" x 2" (10,2 cm x 5,1 cm)
1025	[Sterilization Case]
<b>Replacement Part:</b>	
1425-14-B-COMP	[Handle Retaining Screw]

K-wire not included.



### 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.



Set consists of one handle and one sterilization/storage case, plus seven double ended screwdriver bits:

- ▶ small & large single slot
- ▶ cross & cruciate
- ▶ 3.5 mm & 4.5 mm hex
- ▶ small & large phillips
- ▶ #6 & #8 star
- ▶ #10 & #15 star
- ▶ #20 & #25 star

## 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.

PRODUCT NO'S:	
5195	[Complete Set with Case] Also sold individually
5195-01	[Handle]
5195-02	[Straight (single slot)] Large: 7 x 1.5 mm, Small: 5 x 1 mm
5195-03	[Cross/Cruciate] Large: 7 mm, Small: 6 mm
5195-04	[Hex] Large: 4.5 mm, Small: 3.5 mm
5195-05	[Phillips] Large: 4 mm, Small: 3.5 mm
5195-08	[Small Star: #6 & #8]
5195-06	[Medium Star: #10 & #15]
5195-07	[Large Star: #20 & #25]



## Star Bit Driver Set

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

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" (10,2 cm) Handle]
5194-10	[T10 with A/O End]
5194-15	[T15 with A/O End]
5194-20	[T20 with A/O End]
5194-25	[T25 with A/O End]
9003	[Case]



Set in Storage 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.



## Universal Screw Removal Instrument System

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.

### Trephines

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.

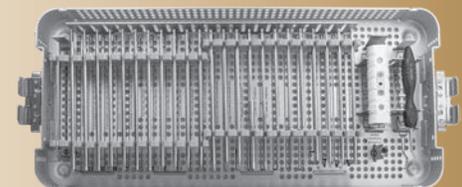
### Screwdrivers

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

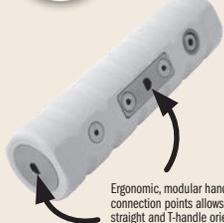
### Cannulated Drive Extension

Used when a longer instrument shaft is desired.

PRODUCT NO'S:	
S0010-00	[Complete System with Case]
Individual/Replacement Parts	
S0113	[Universal 4" (10,2 cm) Handle]
S0128	[1.5 mm Screw Extractor]
S0116	[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]
Case Dimensions: 21" x 9.5" x 2.25" (53,4 x 24,1 x 5,7 cm)	



Push button Quick-connect release mechanism



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



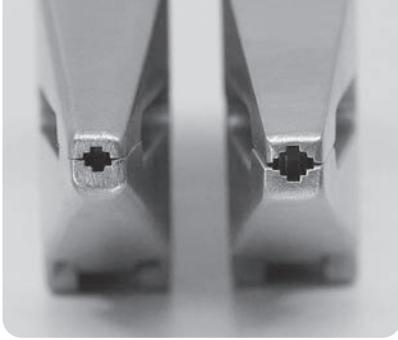
Extractor Wrench

### Universal Instrument Handle

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

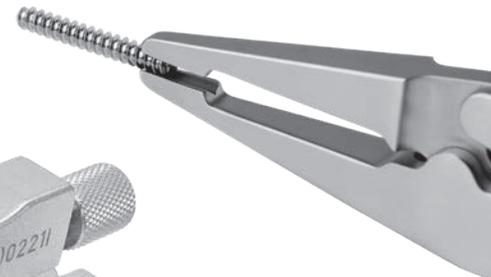
### Pick

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



## Screw/Pin Removal Locking Pliers

Unique jaw designed to solidly grip and clamp onto a screw head, broken screw, or pin for removal



**NEW Small Jaw End & Bite**  
Designed to securely grab pins as small as 1.4 mm (.055") up to 2.4 mm (.095")

**Standard Jaw End & Bite**  
Designed to securely grab larger pins, screw heads, or broken screws

Standard



Small

Reduced jaw size for smaller screws, pins and incisions



PRODUCT NO'S:	
S0142 [Standard]	Overall Length: 7.875" (20 cm) Jaw Width at End: 4 mm
S0142-01 [Small]	Overall Length: 7.875" (20 cm) Jaw Width at End: 4 mm

## Screw Extractor with Speed Lock

Designed by Khaled Sarraf, MD & Konstantinos Doudoulakis, MD

Universal extractor designed to accommodate a large range of screws and screw heads from 3.95 to 9.5 mm

Can also be used to help with removal of other devices that may require a twisting universal locking gripper.

**New!**



PRODUCT NO:
2021
Overall Length: 9.25" (23,5 cm)
Jaw Width: 11 mm
Jaw Length: 5 cm



## 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)



## 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

MADE EXCLUSIVELY  
 FOR INNOMED IN  
 GERMANY



## Delrin Insert Pliers

Designed to grasp an implant for adjustment without marring the implant surface

### PRODUCT NO'S:

2025  
 Overall Length: 8 (20,3 cm)  
 2025-03 [Replacement Insert]  
 Includes top and bottom delrin jaws, two screws and a hex wrench



## Broach Extraction OrthoVise™

Designed by Joel Matta, MD

Designed for hip broach extraction when the broach post is broken or there is a failure of the broach handle

### PRODUCT NO'S:

3976-00	[Broach Extraction OrthoVise Set with Small Slaphammer]
<b>Set includes / Available Individually:</b>	
3976-01	[Broach Extraction OrthoVise Only] Overall Length: 9" (22,9 cm)
3955	[Slap Hammer for Small OrthoVise] Overall Length: 8.75" (22,2 cm)
3985-03	[Threaded Adapting Screw-Small]



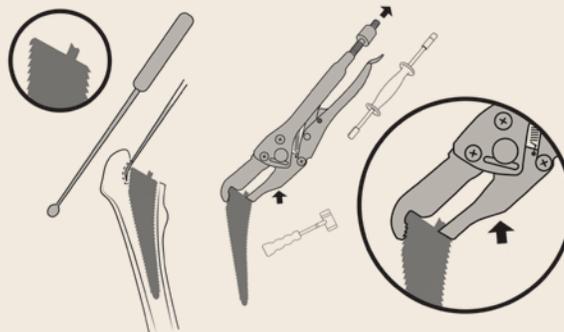
**New!**



Broach Extraction OrthoVise Set with Small Slaphammer

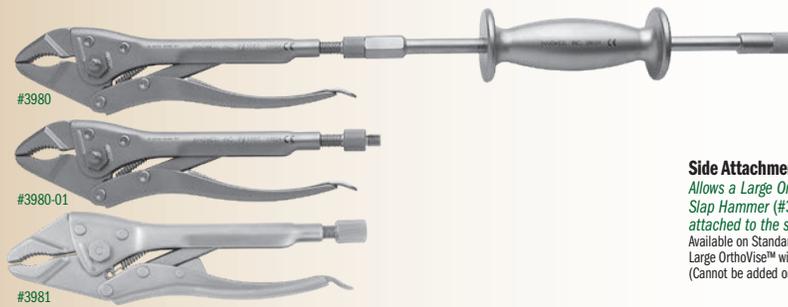
### Steps for use.

1. Apply vise grip to another broach of similar size to see how a secure fit is obtained.
2. Remove bone lateral to the super-lateral shoulder of the broach with a 1/4" curved osteotome, curette or powered burr. This will be cancellous bone from the medial greater trochanter.
3. Attempt to slide toothed lateral vise grip jaw into place to grip super-lateral broach surface. Remove further cancellous bone as necessary to allow full insertion. Insert lateral jaw to depth where jaw teeth are not visible and the jaw is ideally within 1 mm of the top of the broach.
4. Apply slotted medial vise grip jaw to broken post with tip of jaw flush with broach top. Adjust vise grip jaw width to fit, then close and lock handles against resistance. The vise grip should feel secure and not wobble in relation to the broach.
5. Remove broach by gripping vise grip handles and tapping with hammer on prominence of medial jaw. Alternatively or also apply extraction force with slap hammer.



## STANDARD LARGE

PRODUCT NO'S:	
	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)

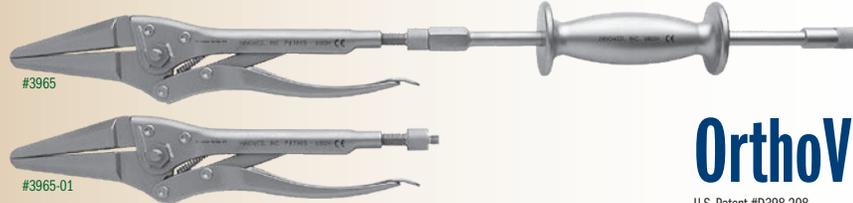


**Side Attachment Bolts**  
Allows a Large OrthoVise™ Slap Hammer (#3950) to be attached to the side of the device. Available on Standard Large and Long Nose Large OrthoVise™ with Attachment Bolts only. (Cannot be added on later.)



## LONG NOSE LARGE

PRODUCT NO'S:	
	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



**OrthoVise™**  
U.S. Patent #D398,208

## LONG NOSE LARGE BENT JAW

PRODUCT NO'S:	
	OrthoVise™ Length: 11.5" (29,2 cm)
3966	with Attachment Nut (end) with Standard Slap Hammer (#3925)
3966-01	without Slap Hammer with Attachment Nut (end) that accepts a Standard Slap Hammer (#3925 or 3926)

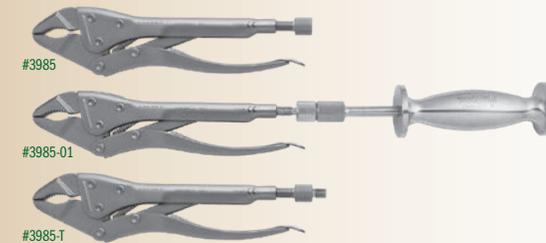


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GERMANY



## STANDARD SMALL

PRODUCT NO'S:	
	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

PRODUCT NO'S:	
	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
- ▶ 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

## SLAP HAMMERS

PRODUCT NO'S:	
3950	[Slap Hammer for Large OrthoVise] For use with 3965's, 3980's, 3981 Overall Length: 16.5" (41,9 cm)
3955	[Slap Hammer for Small OrthoVise] For use with: 3975's, 3985's Overall Length: 8.75" (22,2 cm)
3925	[Standard Slap Hammer w/16" Rod] For use with: 3966's Overall Length: 16" (40,7 cm)
3926	[Easy Grip Slap Hammer w/16" Rod] For use with: 3966's Overall Length: 16" (40,7 cm)

For Large  
OrthoVise



For Small  
OrthoVise



Standard  
with 16" Rod



Easy Grip Standard  
with 16" Rod



## THREADED ADAPTERS

PRODUCT NO'S:	
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
3985-03	[Threaded Adapting Screw - Small] For use with: 3975's, 3985's

Small Adapter



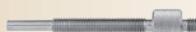
Small Adapter allows a Standard Slap Hammer (#3925 or #3926) to be used with any Large OrthoVise™ with Attachment Bolts

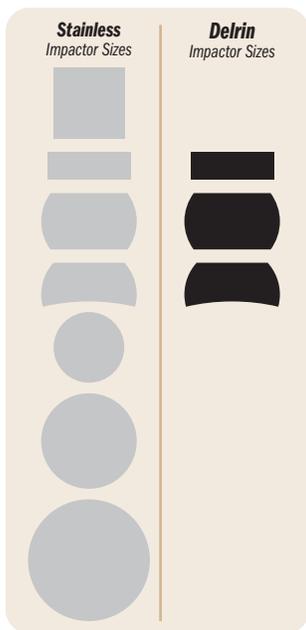
Threaded Large



Threaded Adapting Screws can be used to append the corresponding size OrthoVise™ with an Attachment Bolt for use with a Slap Hammer

Threaded Small





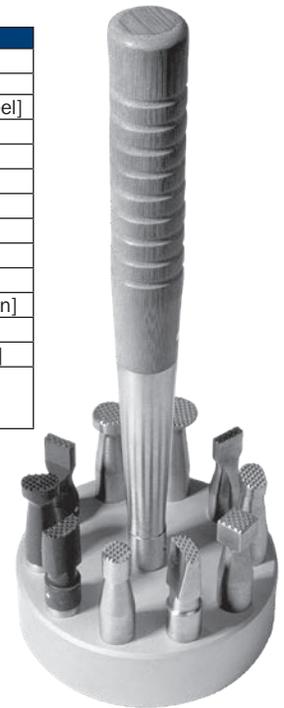
## Modular Impactor Set

*Makes multiple impactor heads easily visible and available*

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

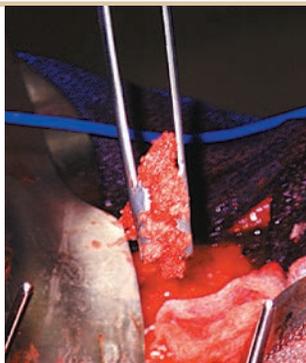


PRODUCT NO:	
5370	[Complete Set]
<b>Included In Set / Also Available Individually:</b>	
5370-01	[Rectangular Tip 11 mm x 4 mm Steel]
5370-02	[Oval Tip 13 mm x 8 mm Steel]
5370-03	[Crescent Tip 12 mm x 5 mm Steel]
5370-04	[Square Tip 9 mm x 9 mm Steel]
5370-05	[Round Tip 15 mm Steel]
5370-06	[Round Tip 12 mm Steel]
5370-07	[Round Tip 9 mm Steel]
5370-19	[Set Base] Base Diameter: 3.5" (8,9 cm)
5370-D1	[Rectangular Tip 11 mm 4 mm Delrin]
5370-D2	[Oval Tip 13 mm x 8 mm Delrin]
5370-D3	[Crescent Tip 12 mm x 5 mm Delrin]
5370-H	[Modular Handle]
Overall Length: 8" (20,3 cm)	
Grip Length: 4.5" (11,4 cm)	



## Ortho Impactors

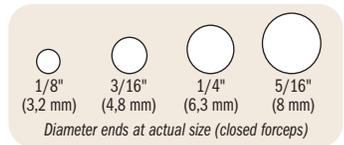
PRODUCT NO'S:	
Overall Length: 9" (22,9 cm)	
Shaft Diameter: 9 mm	
5331	[11 x 4 mm Rectangle]
5332	[12 x 7 mm Rectangle]
5333	[12 mm Tapered]
5334	[9 mm Square]
5335	[15 mm Round]
5336	[12 mm Round]
5337	[9 mm Round]



## Universal Bone Grafting/Impacting Forceps

Designed by J.A. Amis, MD

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



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



PRODUCT NO'S:	
<b>Short: 6" (15,2 cm) Length</b>	
5010-01	1/8" (3,2 mm) Diameter End
5010-02	3/16" (4,8 mm) Diameter End
5010-03	1/4" (6,3 mm) Diameter End
5010-04	5/16" (8 mm) Diameter End
<b>Long: 10" (25,4 cm) Length</b>	
5050-01	1/8" (3,2 mm) Diameter End
5050-02	3/16" (4,8 mm) Diameter End
5050-03	1/4" (6,3 mm) Diameter End
5050-04	5/16" (8 mm) Diameter End

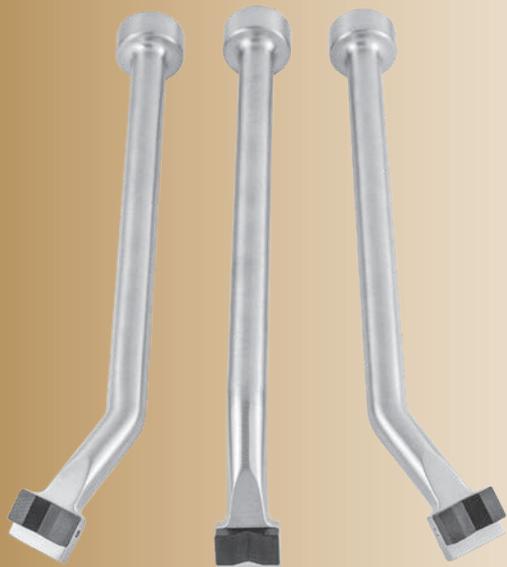
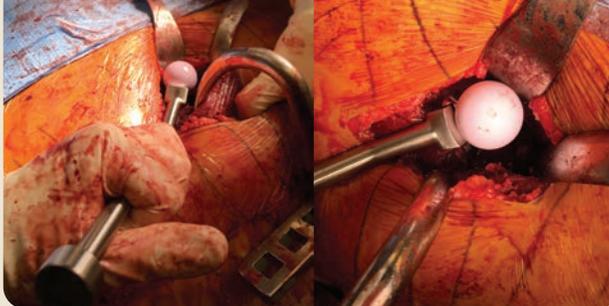
The forceps are designed with grasping ends for delivery of bone graft. When the graft is in place, the forceps are closed, which forms the ends into an impacting punch. A striking platform is attached to the end of the forceps for tapping and tamping the graft. Four end diameters are available in two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

MADE EXCLUSIVELY FOR INNOMED IN GERMANY

## Anterior Femoral Punches

Designed by Brandon Thompson, CST/CFA

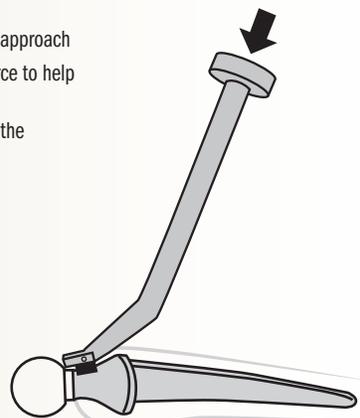
Designed with a delrin pad to help protect the femoral stem trunion while removing the femoral head during anterior approach total hip revision arthroplasty



- ▶ 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'S:

8626-A [Angled Up]	
Overall Length: 8.75" (22,2 cm)	
Up Angle: 40°	
8626-L [Left]	
Overall Length: 9" (22,9 cm)	
Left Angle: 40°	
8626-R [Right]	
Overall Length: 9" (22,9 cm)	
Right Angle: 40°	



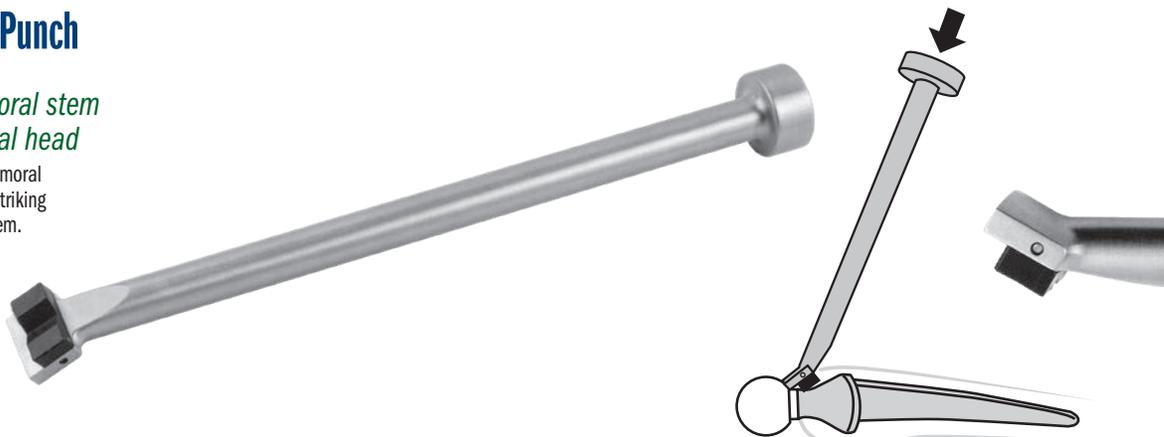
## Femoral Head Disengaging Punch

Designed by Brandon Thompson, CST/CFA

Designed to help protect the femoral stem trunion while removing the femoral head

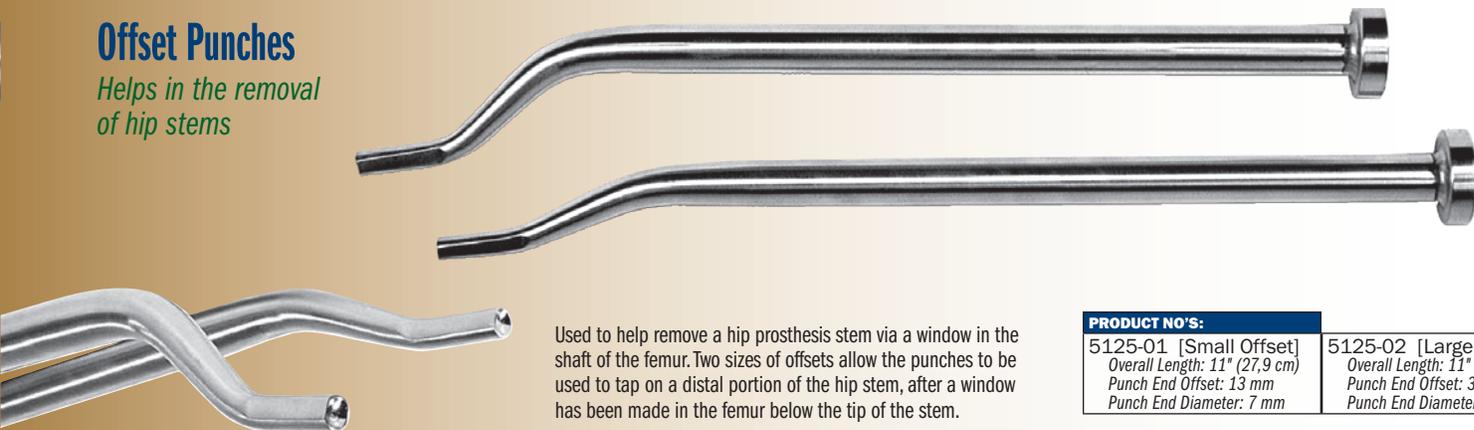
The delrin pad helps prevent scratching of the femoral stem trunion. The punch angle allows for better striking force to help break the taper of the head and stem.

<b>PRODUCT NO:</b>
8626
Overall Length: 9" (22,9 cm)
Shaft Diameter: .5" (12,7 mm)
Punch Platform Offset Angle: 30°
Punch Platform Delrin End: 10 mm x 20 mm



## 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.

### PRODUCT NO'S:

5125-01 [Small Offset]	5125-02 [Large Offset]
Overall Length: 11" (27,9 cm)	Overall Length: 11" (27,9 cm)
Punch End Offset: 13 mm	Punch End Offset: 32 mm
Punch End Diameter: 7 mm	Punch End Diameter: 7 mm

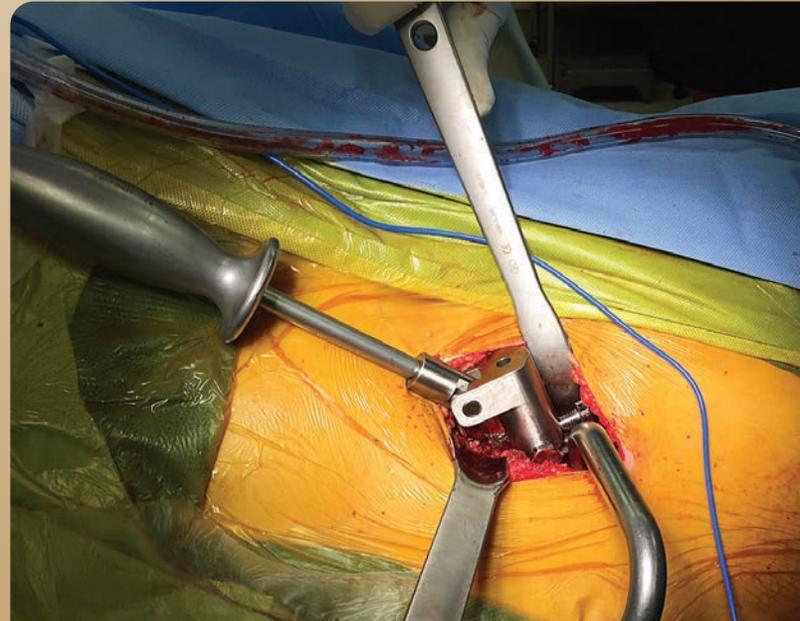
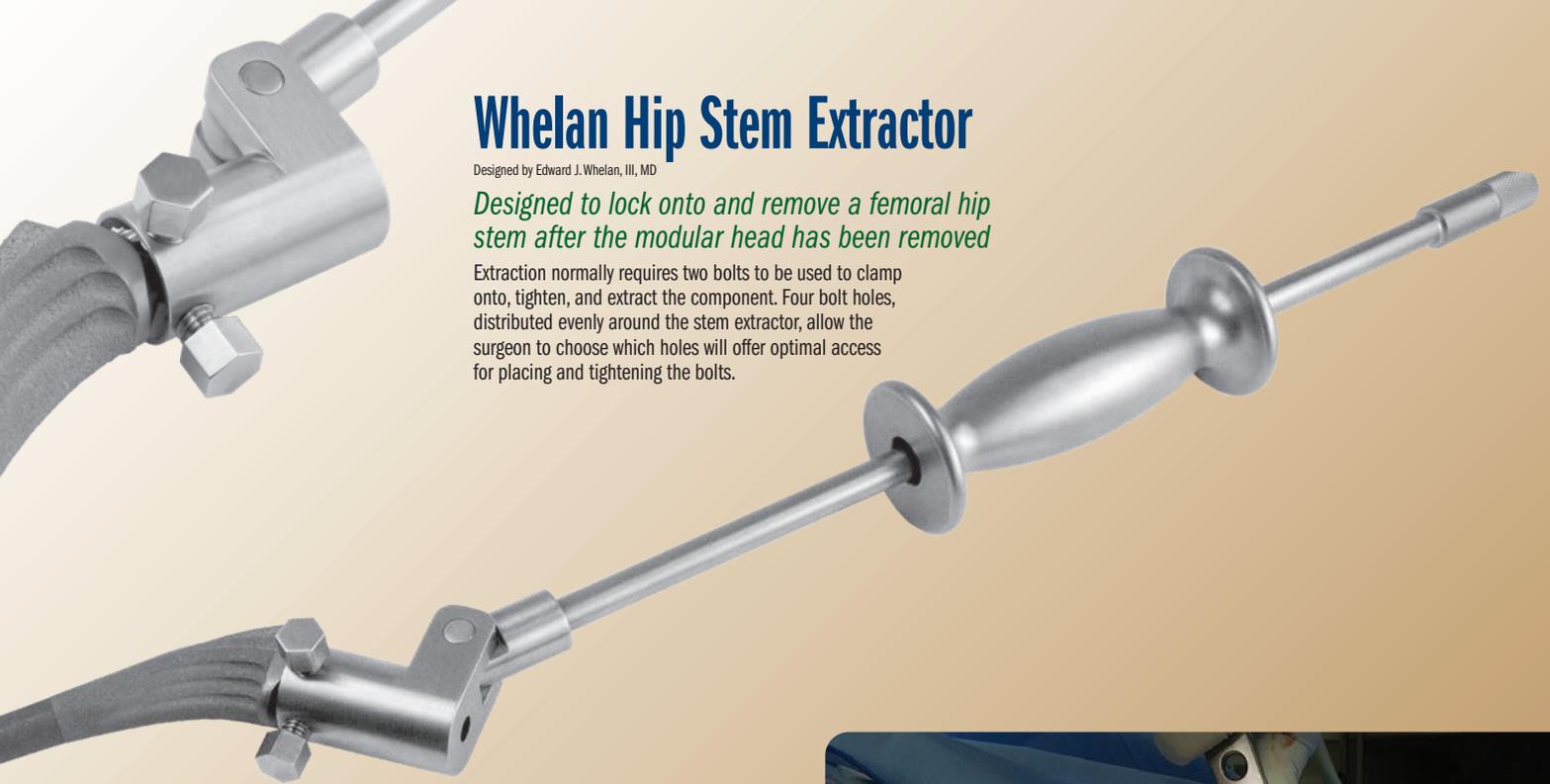


# Whelan Hip Stem Extractor

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.



Set Includes:  
Stem Extractor, Wrench, (4) Bolts, Standard Slap Hammer

PRODUCT NO'S:	
4175-00	[Complete Set]
Individual/Replacement Parts:	
4175-01	[Stem Extractor]
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*

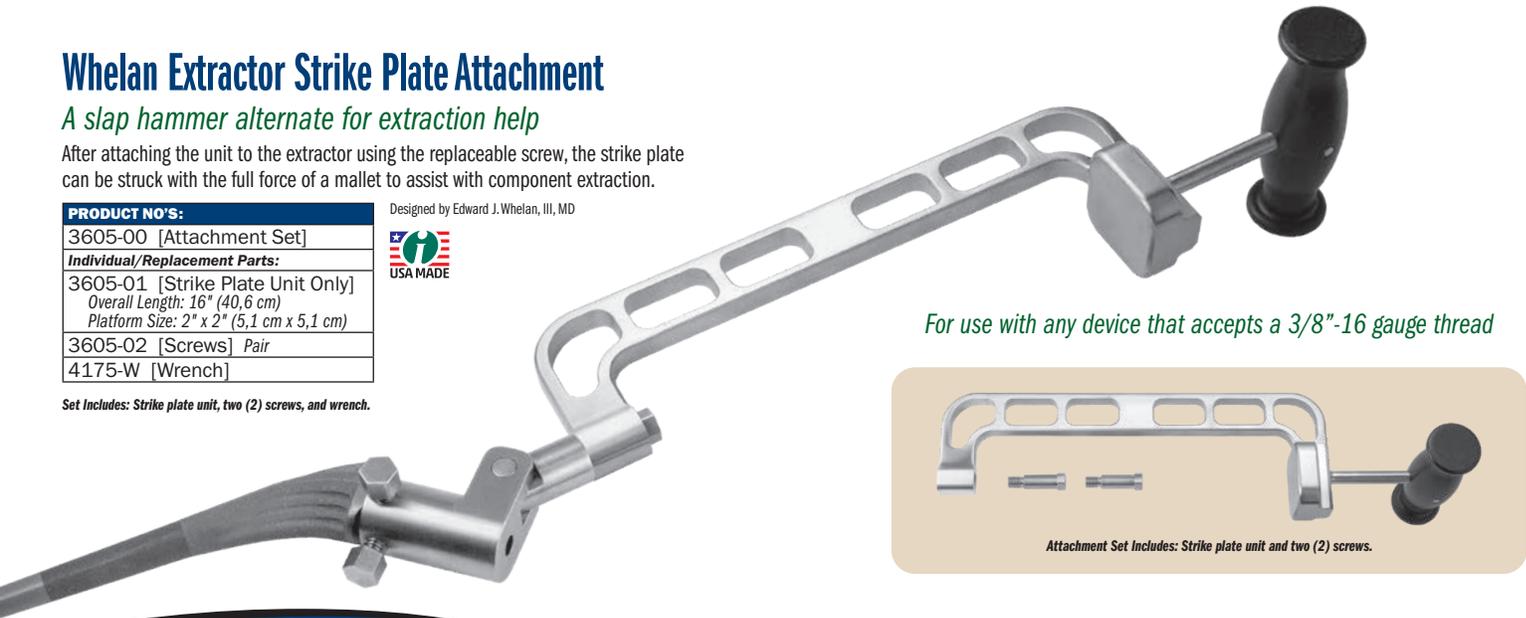
After attaching the unit to the extractor using the replaceable screw, the strike plate can be struck with the full force of a mallet to assist with component extraction.

Designed by Edward J. Whelan, III, MD

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*



Attachment Set Includes: Strike plate unit and two (2) screws.

# Femoral Extraction Instruments

Designed to help remove various types of femoral implants



Loop Extractor



J-Hook Extractor



One-Piece Extractor



Standard Slap Hammer

PRODUCT NO'S:	
S1202	[Loop Extractor with Standard Slap Hammer]
S1202-01	[Loop Extractor Only] Overall Length: 6.5" (16,5 cm)
S1203	[J-Hook Stem Extractor with Standard Slap Hammer]
S1203-01	[J-Hook Stem Extractor Only] Overall Length: 4.75" (12,1 cm)
S1204	[One-Piece Stem Extractor with Standard Slap Hammer]
S1204-01	[One-Piece Stem Extractor Only] Overall Length: 4.125" (10,5 cm)
3925	[Standard Slap Hammer] 3/8"-16 Thread Gauge
3935	[Extra Large Slap Hammer] 3/8"-16 Thread Gauge

See page 21 for alternative slap hammers.



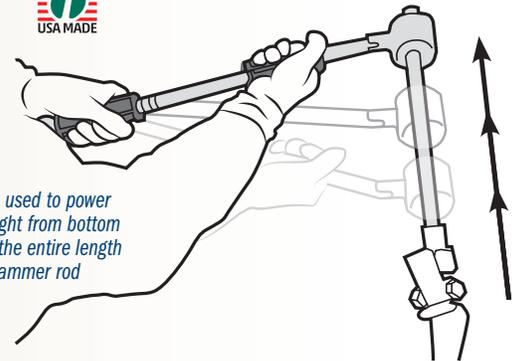
Slap hammer rod not included - available separately.

## Atlatl Super Slap Hammer

Designed for when extra powerful slap hammer force is needed

Slap hammer rod is not included.

PRODUCT NO'S:	
3924-S	[Atlatl Super Slap Hammer] Overall Length: 16" (40,7 cm) Slap hammer rod not included.
3925-A	[16" Rod only] 3/8"-16 Thread Gauge



Force can be used to power the drive weight from bottom to top along the entire length of the slap hammer rod

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
- S1202 Femoral Extraction Instrument - Loop
- S1203 Femoral Extraction Instrument - J-Hook
- S1203 Femoral Extraction Instrument - One-Piece

### Knee

- 3630 Tibial Knee Component Extractor
- 3920 Femoral Knee Component Extractor
- 3650 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

### Hip - Acetabular Cup/Shell/Liner

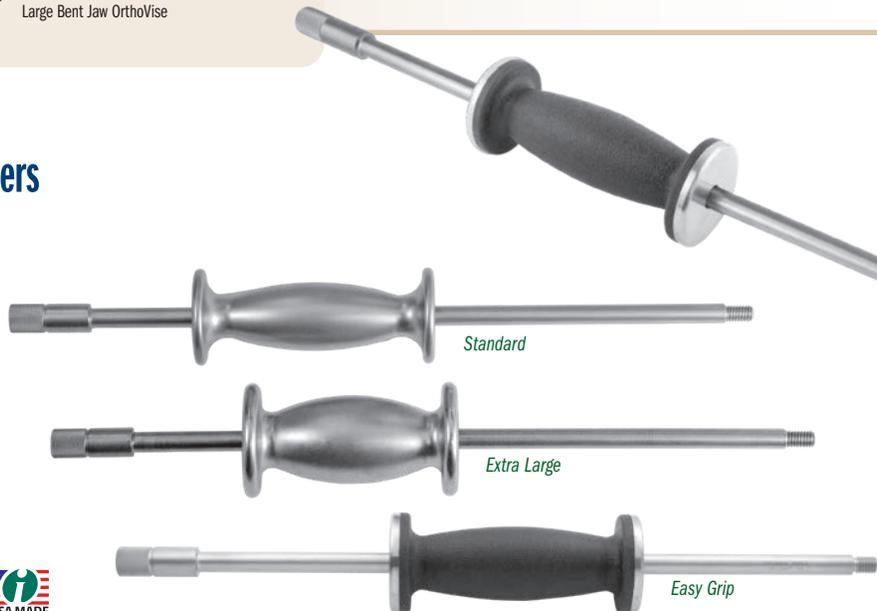
- 3638-00 Lombardi Hip Cup Liner/Shell Extractor

## 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:	
3925	[Standard Slap Hammer with 16" Rod] 3/8"-16 Thread Gauge
3935	[Extra Large Slap Hammer with 16" Rod] 3/8"-16 Thread Gauge
3926	[Easy Grip Slap hammer with 16" Rod] 3/8"-16 Thread Gauge
<b>Also available individually:</b>	
3925-HS	[Easy Grip Slap hammer only]
3925-A	[16" Rod only] 3/8"-16 Thread Gauge



Standard

Extra Large

Easy Grip

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

Push Rod Disengaged

Push Rod Engaged

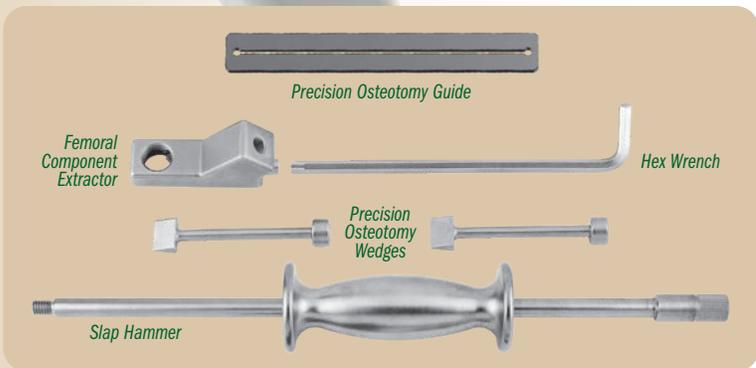
Attach the Slap Hammer to the Femoral Component Extractor and extract in line with the component shaft

# Unger Universal Femoral Component Extractor with Precision Osteotomy Guide

Designed by Anthony Unger, MD

*Designed to help extract a femoral component – includes a guide used to make an osteotomy cut and wedges to separate bone away from the component*

PRODUCT NO'S:	
3615-00	[Complete Assembly with Case]
<b>Individual/Replacement Parts:</b>	
3615-01	[Femoral Component Extractor] Overall Length: 3.25" (8,3 cm) Width: 1" (2,54 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] <b>Two included in set, one with this product number</b> Overall Length: 3.9" (9,9 cm)
3615-05	[Hex Wrench] Overall Length: 6.65" (16,9 cm)
3615-CASE	[Case]
3925	[Standard Slap Hammer with 16" Rod] Overall Length: 16" (40,7 cm)



## 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

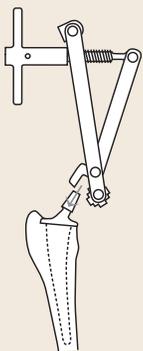
**Original Extractor**

See page 21 for alternative slap hammers.

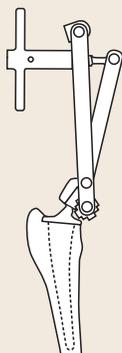


**PRODUCT NO'S:**

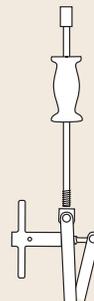
3610	[Original Extractor with Standard Slap Hammer #3925]
3610-R	[Anterior Approach Extractor with Standard Slap Hammer #3925]
<b>Optional/Individual Parts:</b>	
3610-01	[Original Extractor Only]
3610-R-01	[Anterior Approach Extractor Only]
3925	[Standard Slap Hammer] 3/8"-16 Thread Gauge
3935	[Extra Large Slap Hammer] 3/8"-16 Thread Gauge



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



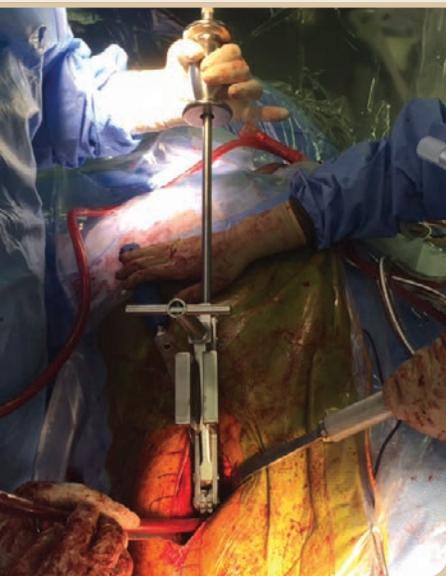
The taper is clamped between the rotating block and the taper anvil. Tightening the "T" handle holds a stem taper in place.



The slap hammer is screwed into the swivel block. The slap hammer can be aligned with the stem utilizing the swivel block.



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



## 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.

**PRODUCT NO'S:**

3611	[Extractor with Standard Slap Hammer #3925]
<b>Optional/Individual Parts:</b>	
3611-01	[Extractor Only]
3925	[Standard Slap Hammer] 3/8"-16 Thread Gauge
3935	[Extra Large Slap Hammer] 3/8"-16 Thread Gauge

See page 21 for alternative slap hammers.



◀ Strikeplate



acetabular cup extraction system

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 interoperatively

Ultra hard titanium nitride coating for extended blade life

**Stainless Steel Heads**  
In standard diameters of 22, 26, 28, 32 and 36 mm (38 mm optional).

**Fixed Blades in Two Lengths**

Blade Diameters from 42mm-80mm  
Can typically be used for multiple procedures, then replaced through our Blade Discount Program.

**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.

**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.

**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



### 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:

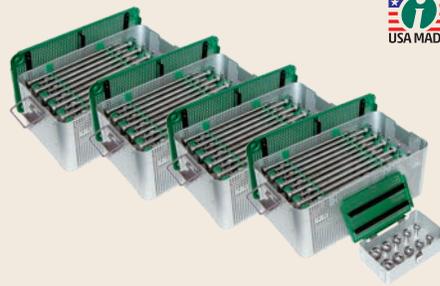
- 4 cases with all sizes, including 2 sets of heads
- 3 cases, including 2 sets of heads
- 2 cases, including 2 sets of heads
- 1 case, including 2 sets of heads
- 1 size (starter & finish), including 2 sets of heads

Each case includes 5 Starter and 5 Finish Instruments

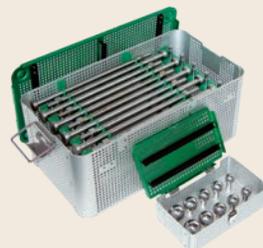
#### Rental Charges

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.**

COMPLETE INSTRUMENT SET	
5200	<b>Complete Set - Fixed Handle</b>
5208	<b>Complete Set - Wrench Handle</b>
20 Starter & 20 Finish Instruments 3 each of 5 Head sizes (22mm-36mm) 5 cases – 4 for Instruments, 1 for Heads Includes complete set of 5200-T CupX Blade Contour Checking Templates, plus Ring	



CUSTOM AND RANGED INSTRUMENT SETS	
5200-01	<b>Choice of sizes - Fixed Handle</b>
5208-01	<b>Choice of Sizes - Wrench Handle</b>
5 Starter and 5 Finish Instruments 2 each of 5 Head sizes (22mm-36mm) 2 cases – 1 for Instruments, 1 for Heads Includes CupX Blade Contour Checking Templates for corresponding Blade Sizes Chosen, plus Ring	
5200-02	<b>42 mm-50 mm - Fixed Handle</b>
5208-02	<b>42 mm-50 mm - Wrench Handle</b>
5 Starter and 5 Finish Instruments 2 each of 5 Head sizes (22mm-36mm) 2 cases – 1 for Instruments, 1 for Heads Includes CupX Blade Contour Checking Templates for 42 mm - 50 mm Blades, plus Ring	
5200-03	<b>52 mm-60 mm - Fixed Handle</b>
5208-03	<b>52 mm-60 mm - Wrench Handle</b>
5 Starter and 5 Finish Instruments 2 each of 5 Head sizes (22mm-36mm) 2 cases – 1 for Instruments, 1 for Heads Includes CupX Blade Contour Checking Templates for 52 mm - 60 mm Blades, plus Ring	
5200-04	<b>62 mm-70 mm - Fixed Handle</b>
5208-04	<b>62 mm-70 mm - Wrench Handle</b>
5 Starter and 5 Finish Instruments 2 each of 5 Head sizes (22mm-36mm) 2 cases – 1 for Instruments, 1 for Heads Includes CupX Blade Contour Checking Templates for 62 mm - 70 mm Blades, plus Ring	
5200-05	<b>72 mm-80 mm - Fixed Handle</b>
5208-05	<b>72 mm-80 mm - Wrench Handle</b>
5 Starter and 5 Finish Instruments 2 each of 5 Head sizes (22mm-36mm) 2 cases – 1 for Instruments, 1 for Heads Includes CupX Blade Contour Checking Templates for 72 mm - 80 mm Blades, plus Ring	



Any component may be purchased individually

INDIVIDUAL FIXED HANDLE SHAFTS WITH FIXED BLADES		Blade Arc Diameter	INDIVIDUAL WRENCH HANDLE SHAFTS WITH FIXED BLADES	
Starter	Finish		Starter	Finish
5200-42	5201-42	42 mm	5208-42	5209-42
5200-44	5201-44	44 mm	5208-44	5209-44
5200-46	5201-46	46 mm	5208-46	5209-46
5200-48	5201-48	48 mm	5208-48	5209-48
5200-50	5201-50	50 mm	5208-50	5209-50
5200-52	5201-52	52 mm	5208-52	5209-52
5200-54	5201-54	54 mm	5208-54	5209-54
5200-56	5201-56	56 mm	5208-56	5209-56
5200-58	5201-58	58 mm	5208-58	5209-58
5200-60	5201-60	60 mm	5208-60	5209-60
5200-62	5201-62	62 mm	5208-62	5209-62
5200-64	5201-64	64 mm	5208-64	5209-64
5200-66	5201-66	66 mm	5208-66	5209-66
5200-68	5201-68	68 mm	5208-68	5209-68
5200-70	5201-70	70 mm	5208-70	5209-70
5200-72	5201-72	72 mm	5208-72	5209-72
5200-74	5201-74	74 mm	5208-74	5209-74
5200-76	5201-76	76 mm	5208-76	5209-76
5200-78	5201-78	78 mm	5208-78	5209-78
5200-80	5201-80	80 mm	5208-80	5209-80

INTERCHANGEABLE DELRIN HEADS		
US Patent #7,998,146 B2		
5202-00	<b>Complete Set with Case</b>	
5202-39	39 mm	5202-50 50 mm
5202-40	40 mm	5202-51 51 mm
5202-41	41 mm	5202-52 52 mm
5202-42	42 mm	5202-53 53 mm
5202-43	43 mm	5202-54 54 mm
5202-44	44 mm	5202-55 55 mm
5202-45	45 mm	5202-56 56 mm
5202-46	46 mm	5202-57 57 mm
5202-47	47 mm	5202-58 58 mm
5202-48	48 mm	5202-59 59 mm
5202-49	49 mm	5202-60 60 mm

INDIVIDUAL INTERCHANGEABLE STEEL HEADS	
5202-22	22 mm
5202-26	26 mm
5202-28	28 mm
5202-32	32 mm
5202-36	36 mm
<b>Optional Size:</b>	
5202-38	38 mm

BLADE CONTOUR CHECKING TEMPLATES		
5200-T Complete Set with Ring		
5200-42G	42 mm	5200-62G 62 mm
5200-44G	44 mm	5200-64G 64 mm
5200-46G	46 mm	5200-66G 66 mm
5200-48G	48 mm	5200-68G 68 mm
5200-50G	50 mm	5200-70G 70 mm
5200-52G	52 mm	5200-72G 72 mm
5200-54G	54 mm	5200-74G 74 mm
5200-56G	56 mm	5200-76G 76 mm
5200-58G	58 mm	5200-78G 78 mm
5200-60G	60 mm	5200-80G 80 mm
		5200-GR Ring

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

## CupX Blade Contour Checking Templates



Designed for checking the contour of a CupX blade after use to evaluate arc accuracy

INDIVIDUAL CONTOUR TEMPLATES			
5200-T [Complete Set]			
5200-42G	42 mm	5200-62G	62 mm
5200-44G	44 mm	5200-64G	64 mm
5200-46G	46 mm	5200-66G	66 mm
5200-48G	48 mm	5200-68G	68 mm
5200-50G	50 mm	5200-70G	70 mm
5200-52G	52 mm	5200-72G	72 mm
5200-54G	54 mm	5200-74G	74 mm
5200-56G	56 mm	5200-76G	76 mm
5200-58G	58 mm	5200-78G	78 mm
5200-60G	60 mm	5200-80G	80 mm
		5200-GR	Ring

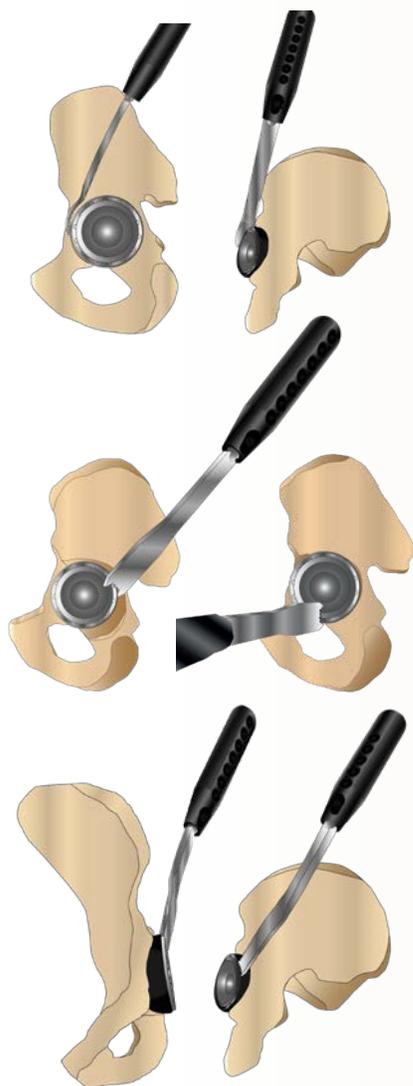


## Garneti Hip Cup Revision Osteotome Set

Designed by Mr Naren Garneti MSc (Tr) MRCS MCh (Orth) FRCS (Tr & Orth)

Designed to help extract a well-fixed cementless porous acetabular component

Technique can be used without extracting the liner. Helps to preserve bone stock.



**New!**

### Garneti Curved Hip Cup Revision Osteotome

Designed to clear the acetabular margins.



### Garneti Flat Hip Cup Revision Punch

Designed to tap the acetabular component in several quadrants, helping to disrupt the implant-bone interface.



### Garneti Concave Hip/Knee Revision Osteotome

Designed to tap the acetabular component in a clock-wise/anti-clockwise direction and finally in a retrograde direction to help with implant removal.



#### PRODUCT NO'S:

5275-00 [Set of One Each]

Set Includes / Available Individually:

5275-01 [Garneti Curved Hip Cup Revision Osteotome]

Overall Length: 11.4" (29 cm)  
Blade Width (Maximum): .75" (1,9 cm)  
Strike Plate End Diameter: 1.25" (3,2 cm)

5275-02 [Garneti Flat Hip Cup Revision Punch]

Overall Length: 11.2" (28,5 cm)  
Blade Width: .865" (2,2 cm)  
Strike Plate End Diameter: 1.25" (3,2 cm)

5275-03 [Garneti Concave Hip/Knee Revision Osteotome]

Overall Length: 11.1" (28,2 cm)  
Blade Width: .7" (1,8 cm)  
Strike Plate End Diameter: 1.25" (3,2 cm)



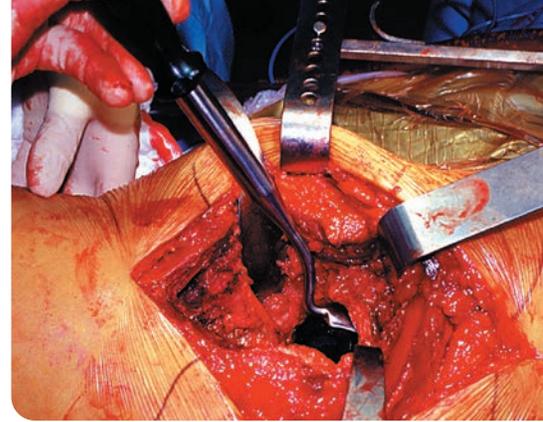


## Modified Smith-Peterson Style Osteotomes for Acetabular Cup Removal

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 cups outer surface. The osteotomes have a handle for better control, plus a hammering platform end.



PRODUCT NO'S:	
5280-02 [Medium]	Blade Dimensions: 20 mm x 35 mm Overall Length: 11.675" (29.6 cm) Handle Length: 5" (12.7 cm)
5280-03 [Long]	Blade Dimensions: 20 mm x 50 mm Overall Length: 12.25" (31.1 cm) Handle Length: 5" (12.7 cm)

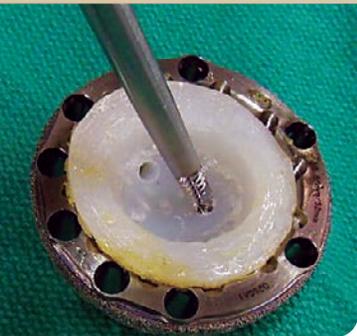


## Modified Lambotte Cup Removal Osteotomes

*Designed with different hemisphere 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.

PRODUCT NO'S:	
5240-44	Blade Width: 44 mm Overall Length: 12.75" (32.4 cm) Handle Length: 4.75" (12.1 cm)
5240-48	Blade Width: 48 mm Overall Length: 12.75" (32.4 cm) Handle Length: 4.75" (12.1 cm)
5240-52	Blade Width: 52 mm Overall Length: 12.75" (32.4 cm) Handle Length: 4.75" (12.1 cm)
5240-56	Blade Width: 56 mm Overall Length: 12.75" (32.4 cm) Handle Length: 4.75" (12.1 cm)

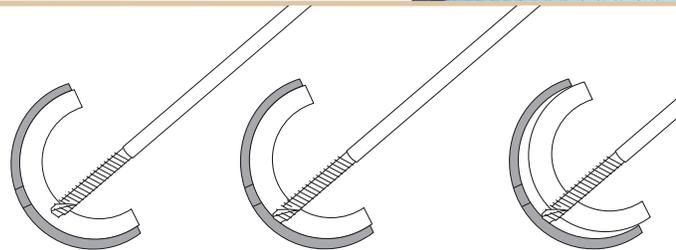


## Poly Cup Liner Removal Drill

Designed by Keith R. Berend, MD

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

PRODUCT NO:	
4052	Overall Length: 6" (15.2 cm)



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.





## Lombardi Hip Cup Liner/Shell Extractor

Designed by Adolph V. Lombardi, MD

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

### PRODUCT NO'S:

3638-00 [Set]

*Also Available Individually*

3638-01 [Remover Only]

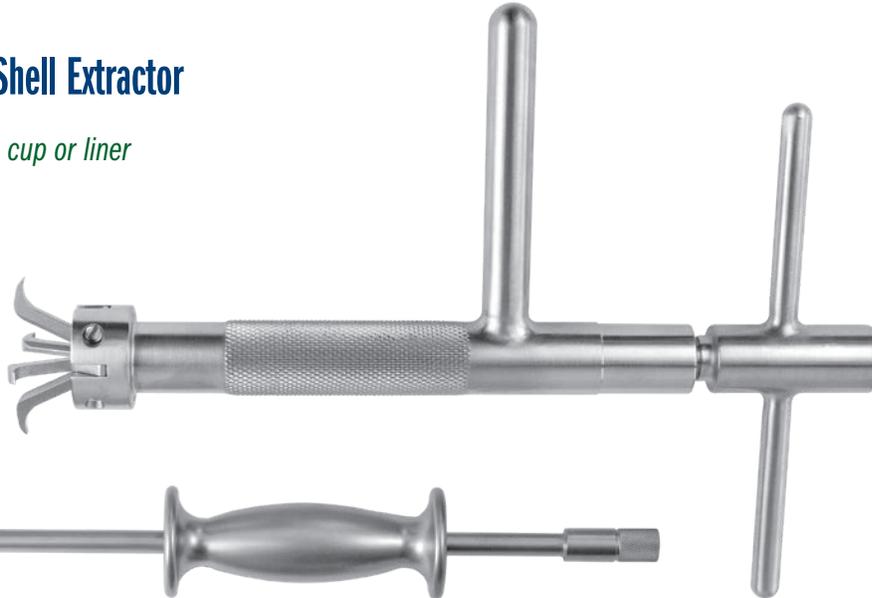
*Overall Length: 9.5" (24,1 cm)*

3925 [Standard Slap Hammer]

*3/8"-16 Thread Gauge*



See page 21 for alternative slap hammers.

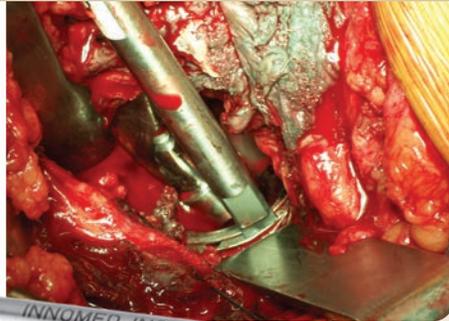


- ▶ Expandable flanges are designed to bite into the polyethylene of a total hip cup
- ▶ When the flanges have been expanded, a slap hammer is screwed into the extractor for removal
- ▶ Can also be used for removal of a metal hip cup shell if the shell has a groove around the rim for the flanges to lock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

## 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.



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

### PRODUCT NO:

5014

*Overall Length: 8" (20,3 cm)*



## 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]



## Soft Impact Mallets with Easy Grip Handles

Weidman handle designed by Kevin Weidman, MD

### Provides shock-absorbing force

Filled with a shock-absorbing media and has a flat striking surface to keep the mallet centered on an instrument while providing less bounce or wasted force.

The comfortable Easy Grip handle is made of a textured silicone that helps prevent the surgeon's gloved hand from slipping and helps maintain a solid grip. The bottom can also be used to tap an implant in place.

The mallet with delrin head features a replaceable delrin head.



### Easy Grip Handles

#### Textured Soft Silicone

Comfortable grip helps prevent the surgeon's gloved hand from slipping and helps maintain a solid grip.



PRODUCT NO'S:	
7820 [2 lbs. Standard]	Weight: 2 lbs. (.907 kg) Overall Length: 10.5" (26,7 cm) Handle Length: 5" (12,7 cm) Head Width: 3.5" (8,9 cm) Head Diameter: 1.375" (3,5 cm)
7821 [2 lbs. w/Weidman Handle]	Weight: 2 lbs. (.907 kg) Overall Length: 10.625" (27 cm) Grip Length: 5.5" (14 cm) Head Width: 3.5" (8,9 cm) Head Diameter: 1.375" (3,5 cm)
7832 [2 lbs. With Delrin End]	Weight: 2 lbs. (.907 kg) Overall Length: 10.5" (26,7 cm) Handle Length: 5" (12,7 cm) Head Width: 3.5" (8,9 cm) Head Diameter: 1.375" (3,5 cm)
7837 [3 lbs. Standard]	Weight: 3 lbs. (1,35 kg) Overall Length: 11" (27,9 cm) Handle Length: 5" (12,7 cm) Head Width: 3.5" (8,9 cm) Head Diameter: 1.875" (4,8 cm)
Delrin Head Replacements for 7832:	
7832-HEAD01 [.5" Stud]	Single
7832-HEAD02 [.5" Stud]	3-Pack
7832-HEAD03 [.875" Stud]	Single
7832-HEAD04 [.875" Stud]	3-Pack



Replacement Delrin Heads

## 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'S:	
7810 [Small]	Overall Length: 8" (20,3 cm) Handle Length: 4.5" (11,4 cm) Head Weight: 1 lb. (.45 kg) Head Diameter: 1.3125"
7815 [Large]	Overall Length: 8" (20,3 cm) Handle Length: 4.5" (11,4 cm) Head Weight: 1.75 lb. (.8 kg) Head Diameter: 1.5" (3,8 cm)



## 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" (21 cm) Head Width: 3" (7,6 cm) Head Diameter: 1.5" (3,8 cm)



## Aluminum Tapered Maul/Mallet

The large surface area allows the surgeon to focus on the action area of the instrument being struck, instead of making sure the mallet will strike the end of the instrument, much like a sculptors mallet



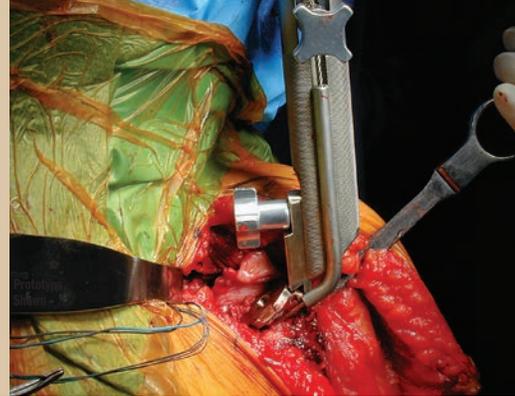
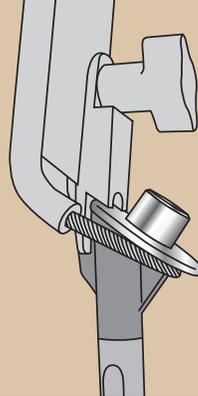
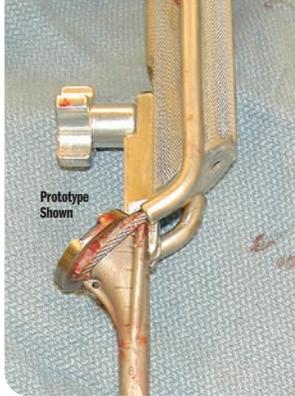
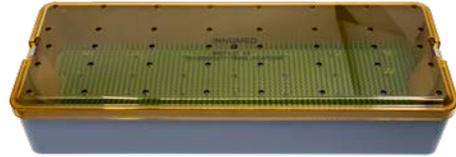
PRODUCT NO:	
7828 [2.5 lbs]	Overall Length: 9.15" (23,2 cm) Handle Length: 6" (15,2 cm) End Diameter: 3" (7,6 mm)



# Nicholson Universal Humeral Prosthesis Extractor

Designed by Gregory Nicholson, MD

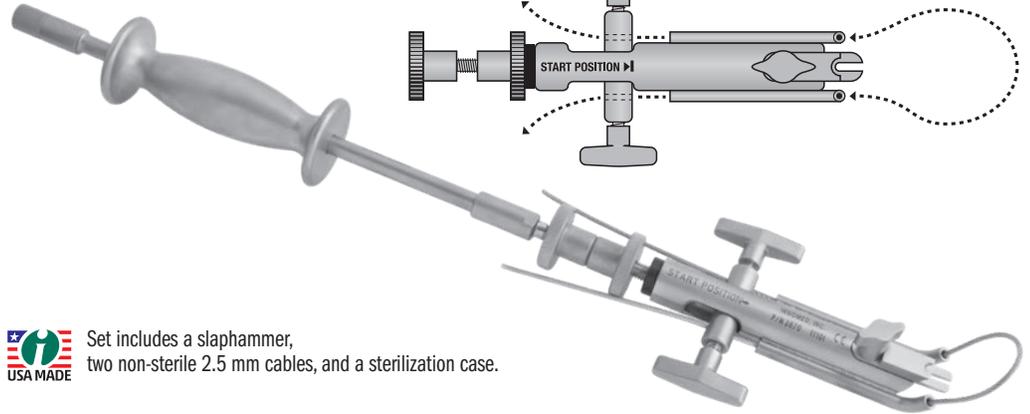
Designed to fit most humeral prostheses



PRODUCT NO'S:	
3670	[Extractor Set with Case]
<b>Individual/Replacement Parts:</b>	
3670-01	[Extractor Only]
3670-10	[Foot Adapter]
3670-CABLE	[2.5 mm Cable] Package of 2
9007	[Case Only]
3925-A12	[12" (30,5 cm) Slaphammer Rod Only]
3925-H	[Slaphammer Only (No Rod)]



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



# Nicholson Shoulder and Small Bone Cement Removal Instruments

Designed by Gregory Nicholson, MD

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



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

PRODUCT NO'S:	
Gouges Overall Length: 9" (22,9 cm)	
Gouges Handle Length: 4" (10,2 cm)	
5251-00	[Complete Set w/Case]
5251-05	[Extra Small] Gouge Width: 5 mm
5251-07	[Small] Gouge Width: 7 mm
5251-09	[Medium] Gouge Width: 9 mm
5251-11	[Large] Gouge Width: 11 mm
5252-07	[Small w/Splitter] Gouge Width: 7 mm Splitter Height: 4 mm
5252-09	[Medium w/Splitter] Gouge Width: 9 mm Splitter Height: 5 mm
5252-11	[Large w/Splitter] Gouge Width: 11 mm Splitter Height: 6 mm
5254	[Backhook] Overall Length: 12.5" (31,8 cm) Handle Length: 4.5" (11,4 cm) Shaft Diameter: 4 mm
5255	[Footed Impactor] Foot Pad Size: 8.5 mm x 11.5 mm Shaft Diameter: 8.5 mm (21,6 cm) Overall Length: 12.75" (32,4 cm) Handle Length: 4.5" (11,4 cm)
5253	[Case for Set]



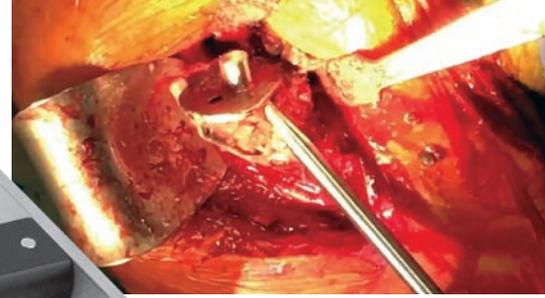
## Levy Humeral Stem Extraction Punch

Designed by Jonathan Levy, MD

Ultra hard cobalt chrome shaft and impactor tip designed to help remove a humeral stem during revision total shoulder arthroplasty

Can be used to open up distal cement mantle or pedestal during revisions.

PRODUCT NO:
8627
Overall Length: 12" (30,5 cm)
Handle/Platform Length: 4.75" (12,1 cm)
Punch Rod Length: 7.25" (18,4 cm)
Platform: 3" x .75" (7,6 cm x 1,9 cm)
Shaft Diameter: 8 mm, tapers to 4 mm at tip



## Nicholson Footed Impactor

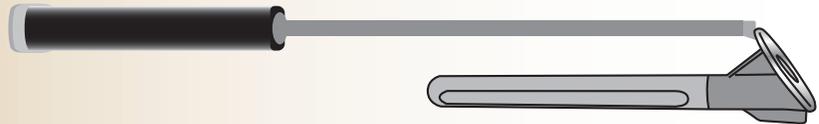
Designed by Gregory Nicholson, MD

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

PRODUCT NO:
5255
Foot Pad Size: 8.5 mm x 11.5 mm
Shaft Diameter: 8.5 mm (21,6 cm)
Overall Length: 12.75" (32,4 cm)
Handle Length: 4.5" (11,4 cm)



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



## Wagner Osteotome Handle

Designed by Russell Wagner, MD

Handle is designed for easier gripping, rotational control, and use with a mallet with a standard 1/4" Lambotte osteotome

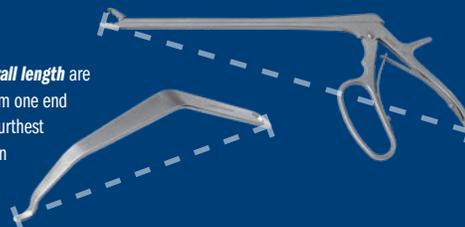
PRODUCT NO'S:
5348 [Handle Only]
Overall Length: 5.5" (14 cm)
5348-01 [1/4" Osteotome Only]
Overall Length: 8.875" (22,5 cm)



## Measurements in this Catalog

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

Measurements of **overall length** are the linear distance from one end of the product to the furthest opposite end, as shown in these examples:



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



# 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.

## Bechtold Ergonomic Orthopedic Mallet

Designed by Dustin Bechtold, MD

*Ergonomically designed for forward and backward strikes,  
featuring an ergonomic handle with a tamp*



- ▶ Stainless steel head and shaft with an aluminum handle with a right-handed grip
- ▶ Large and small striking heads with smooth surface
- ▶ Palmar side of the mallet features a flat surface to slide along a broach or impacting type instrument for back slapping and serves well as an additional striking surface

**PRODUCT NO:**

7822

Overall Length: 10.75" (27,3 cm)

Head Width: 4" (10,2 cm)

Large Head Diameter: 2" (5,1 cm)

Small Head Diameter: 1.5" (3,8 cm)



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