

# INNOMED

ORTHOPEDIC INSTRUMENTS



MAY 2020

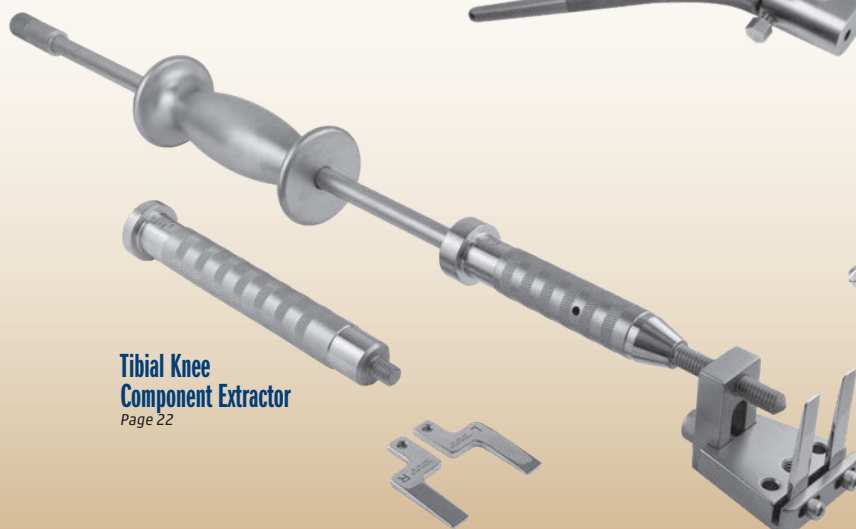


**CupX  
Acetabular Cup  
Extraction System**  
Page 8

Featuring many **New!** instruments throughout



**Whelan Hip Stem  
Extractor with Strike  
Plate Attachment**  
Page 4



**Tibial Knee  
Component Extractor**  
Page 22



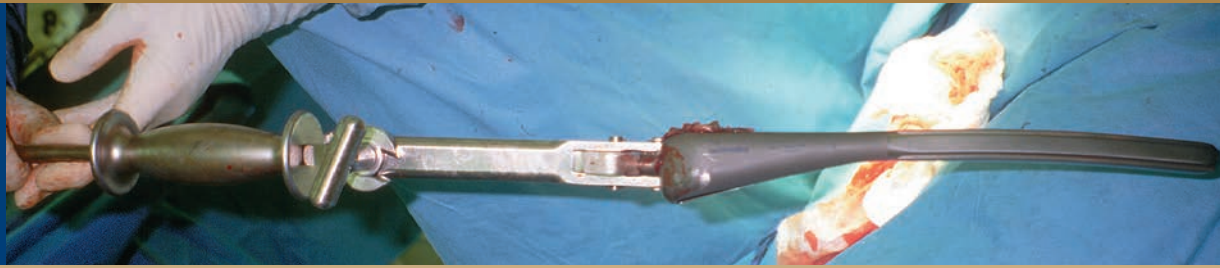
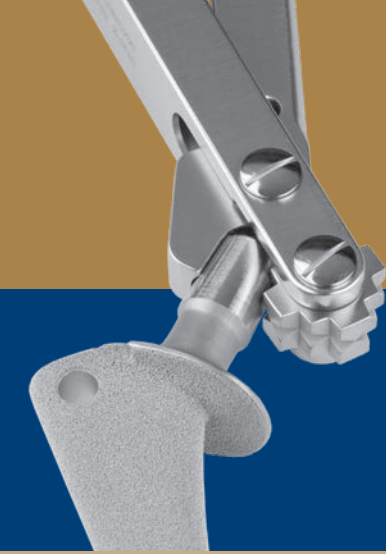
**Screw/Pin Removal  
Locking Pliers**  
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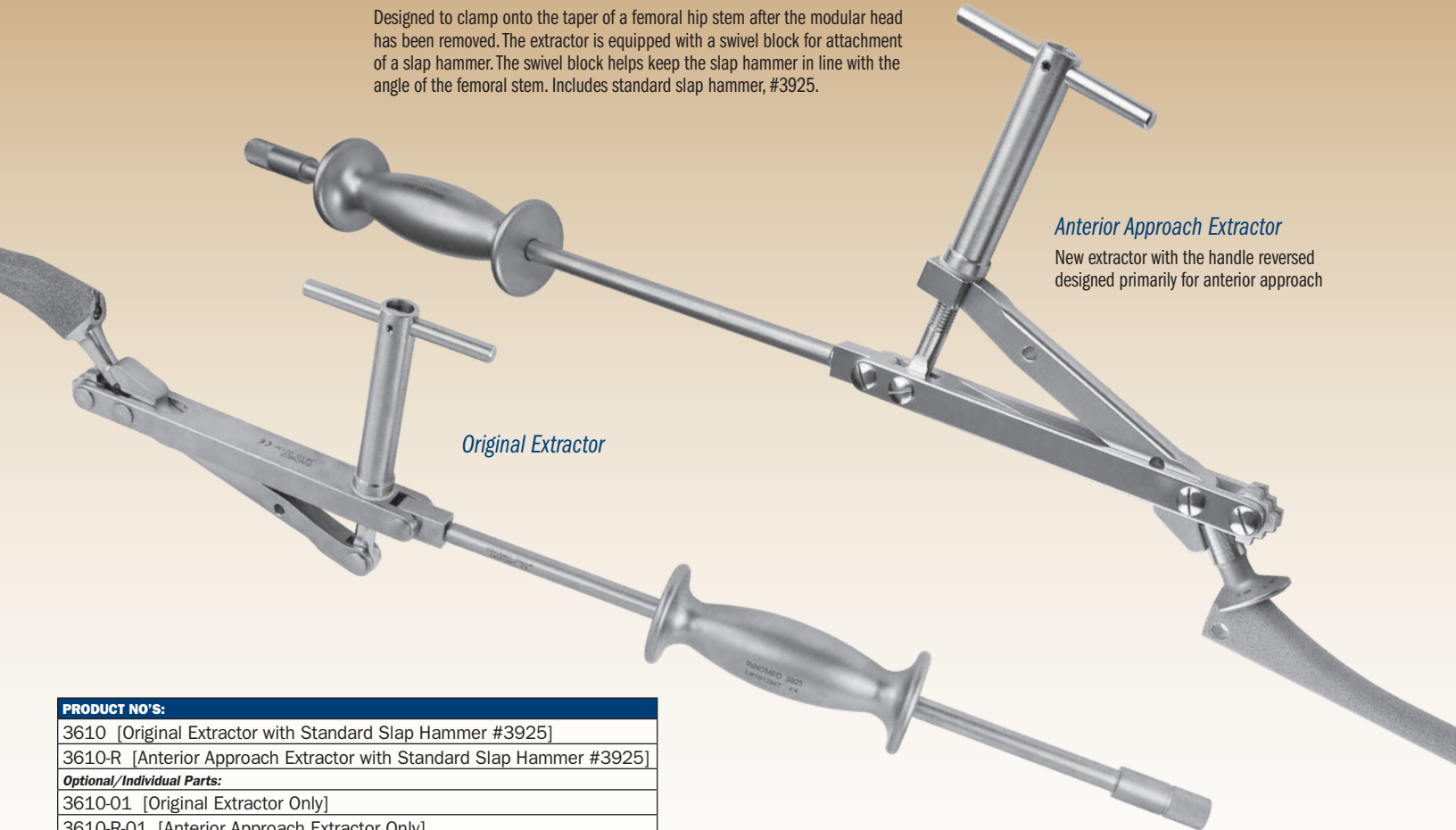
HIP & KNEE  
**Revision/Extraction Instruments**

# 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.



*Original Extractor*

*Anterior Approach Extractor*

New extractor with the handle reversed designed primarily for anterior approach

## PRODUCT NO'S:

3610 [Original Extractor with Standard Slap Hammer #3925]

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

## Optional/Individual Parts:

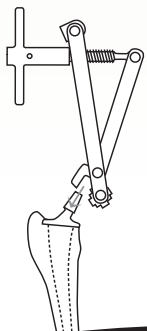
3610-01 [Original Extractor Only]

3610-R-01 [Anterior Approach Extractor Only]

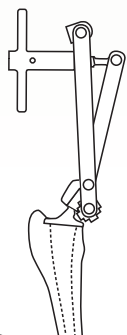
3925 [Standard Slap Hammer] 3/8"-16 Thread Gauge

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

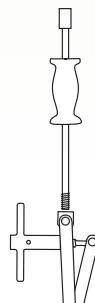
See page 5 for alternative slap hammers.



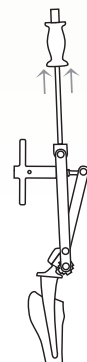
The extractor is opened to accommodate any size taper on a modular head total hip stem.



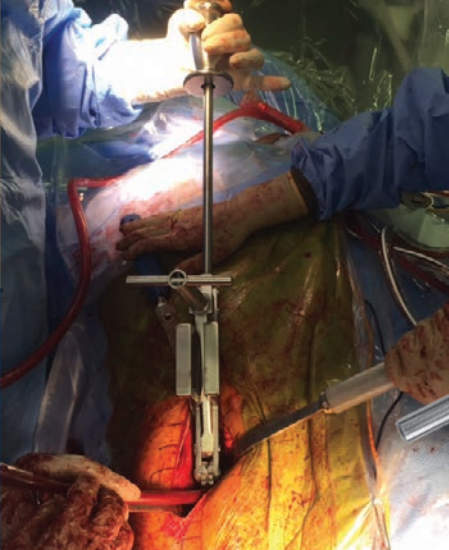
The taper is clamped between the rotating block and the taper anvil. Tightening the "T" handle holds a stem taper in place.



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.

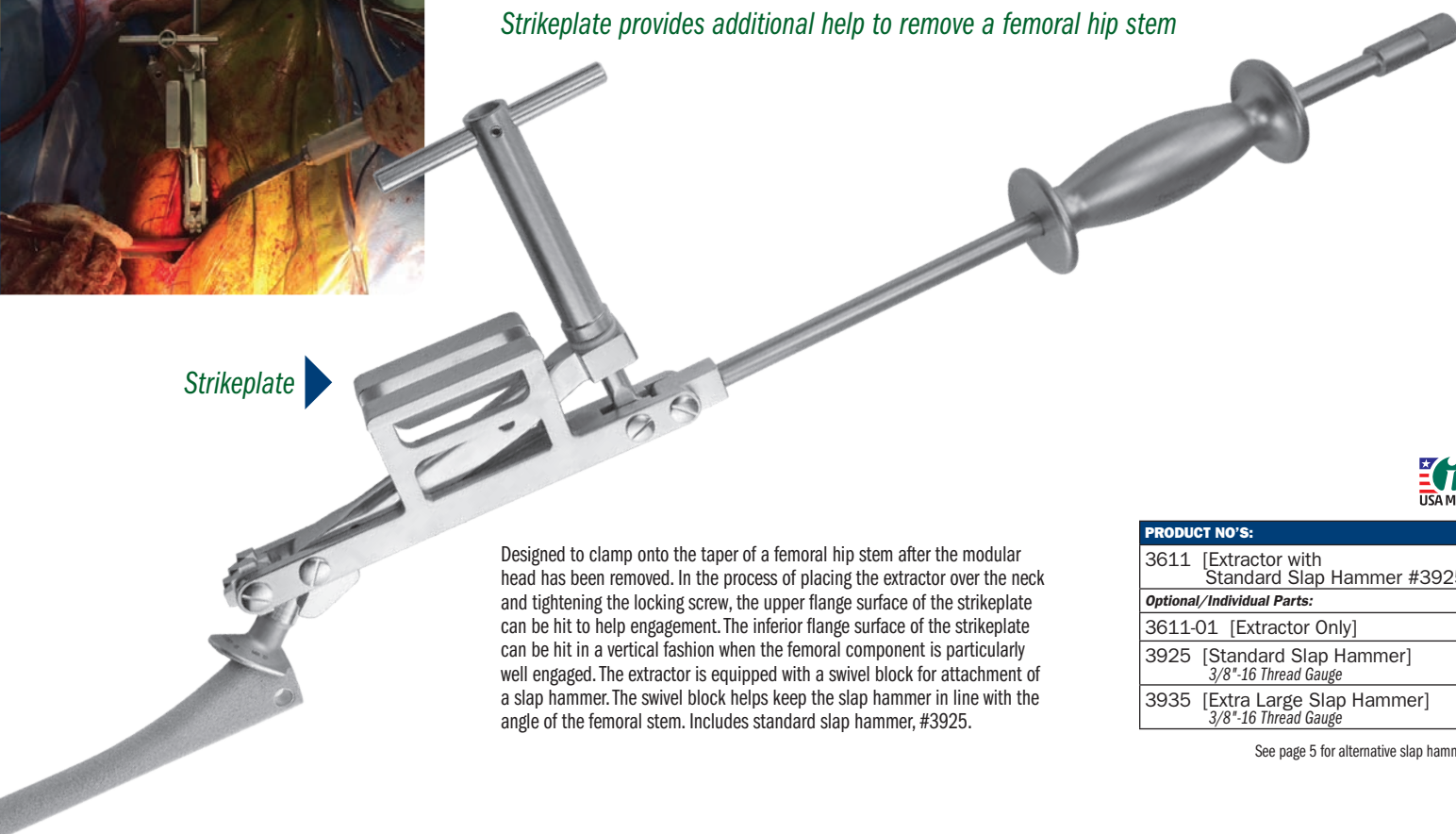


# Heck Anterior Modular Hip Component Extractor with Strikeplate

Designed by David Heck, MD

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

Strikeplate



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]
Optional/Individual Parts:	
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 5 for alternative slap hammers.



Loop Extractor



J-Hook Extractor



One-Piece Extractor

## Femoral Extraction Instruments

*Designed to help remove various types of femoral implants*



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 5 for alternative slap hammers.



Standard Slap Hammer

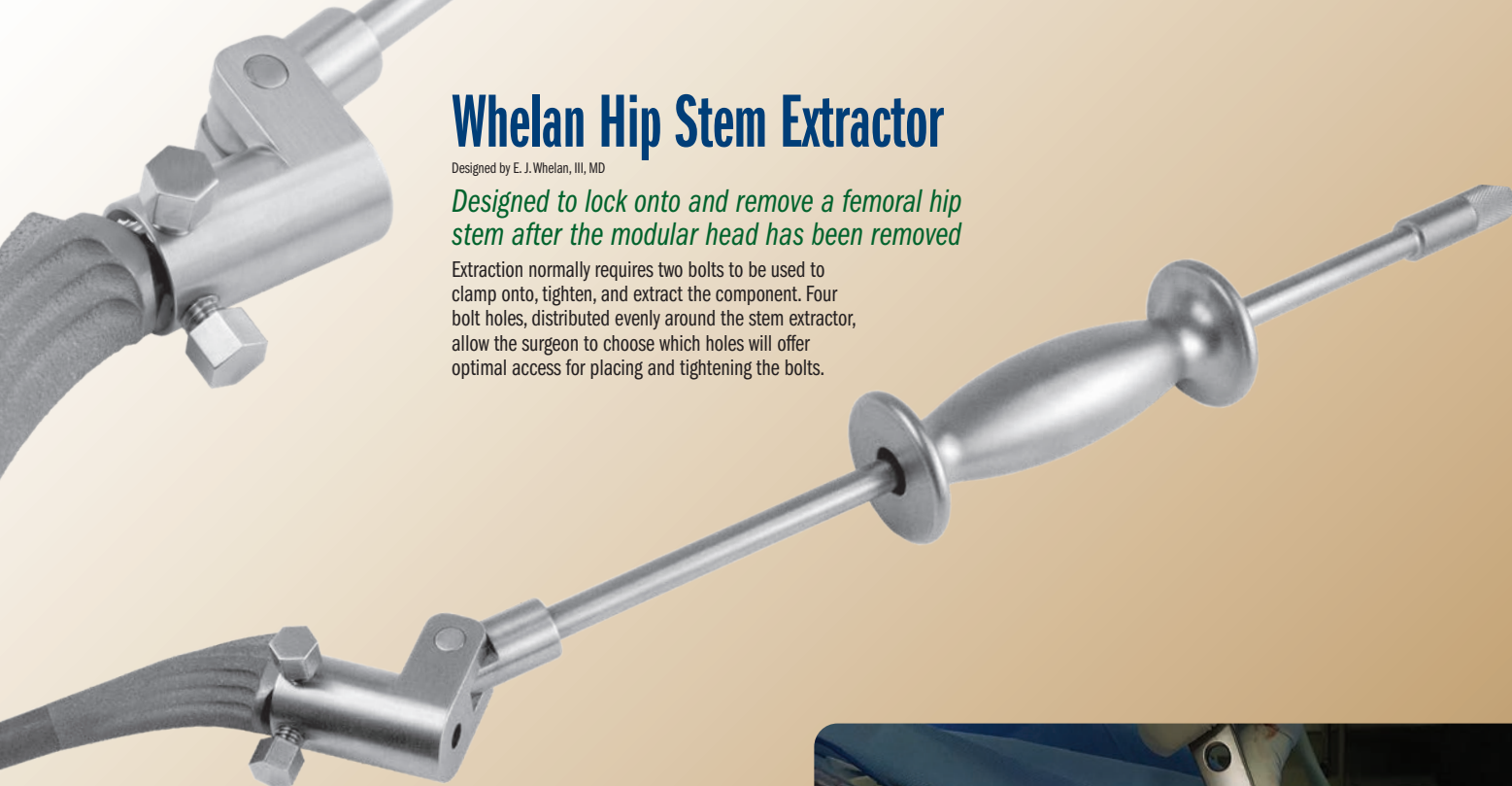


# Whelan Hip Stem Extractor

Designed by E. J. Whelan, III, MD

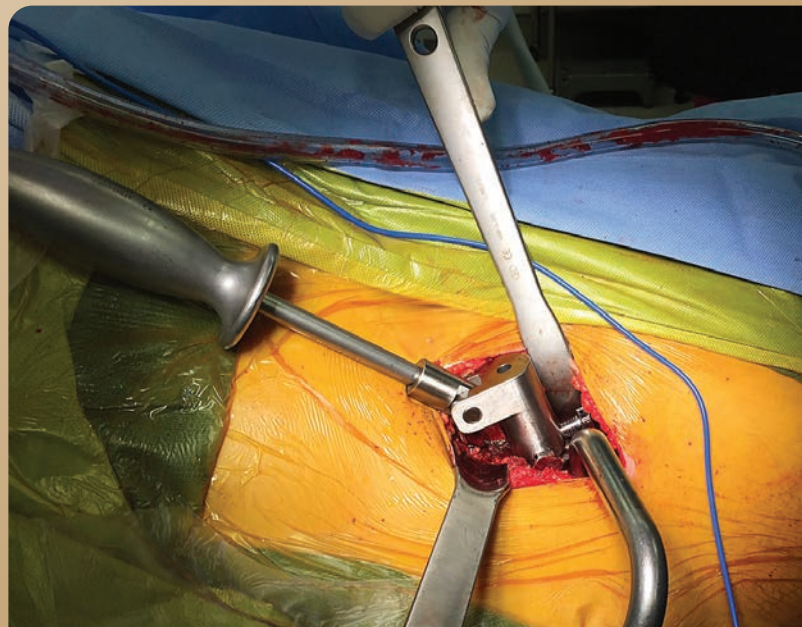
*Designed to lock onto and remove a femoral hip stem after the modular head has been removed*

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 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*

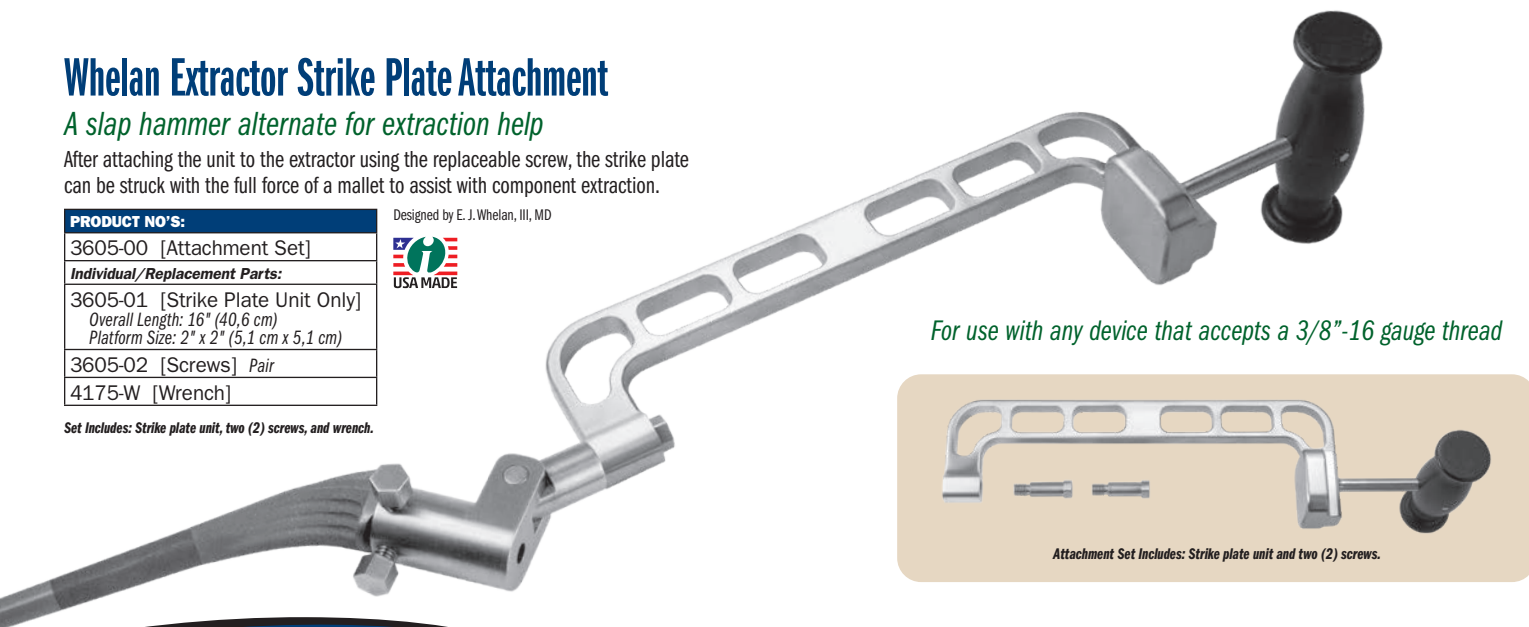
After attaching the unit to the extractor using the replaceable screw, the strike plate can be struck with the full force of a mallet to assist with component extraction.

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]

Designed by E. J. Whelan, III, MD



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

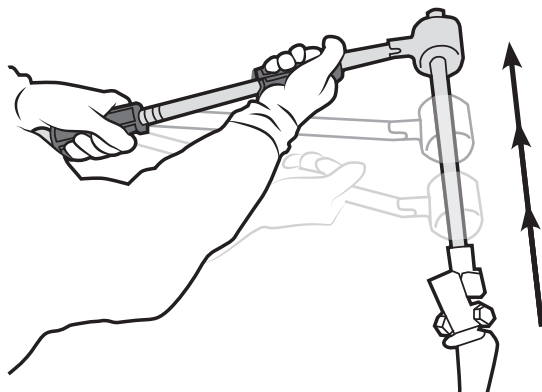


*For use with any device that accepts a 3/8"-16 gauge thread*

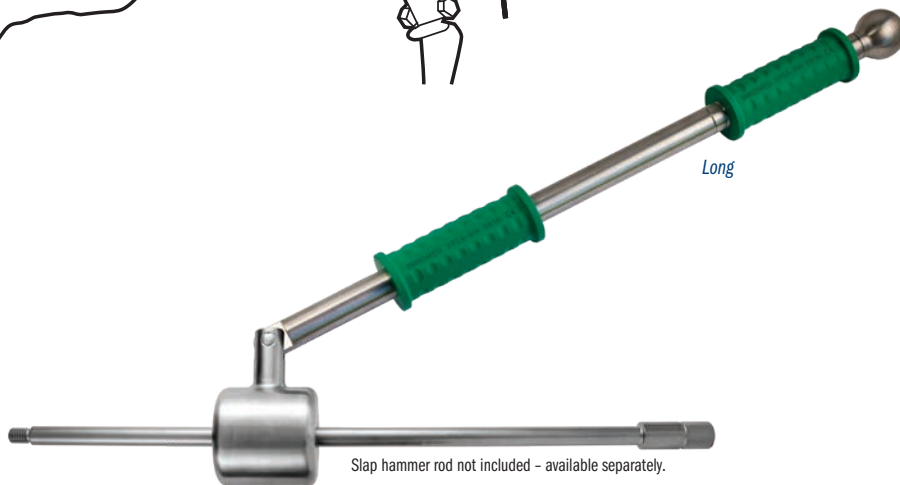


Attachment Set Includes: Strike plate unit and two (2) screws.

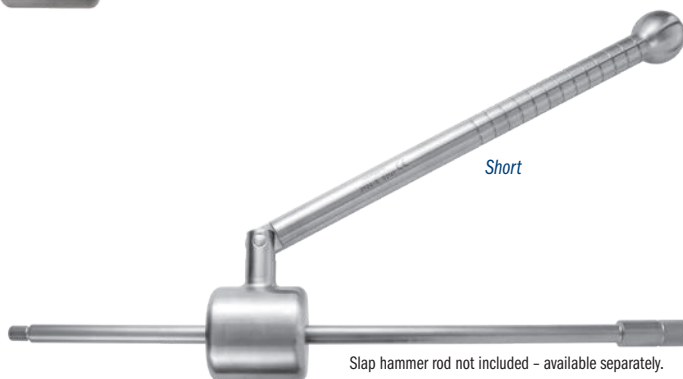




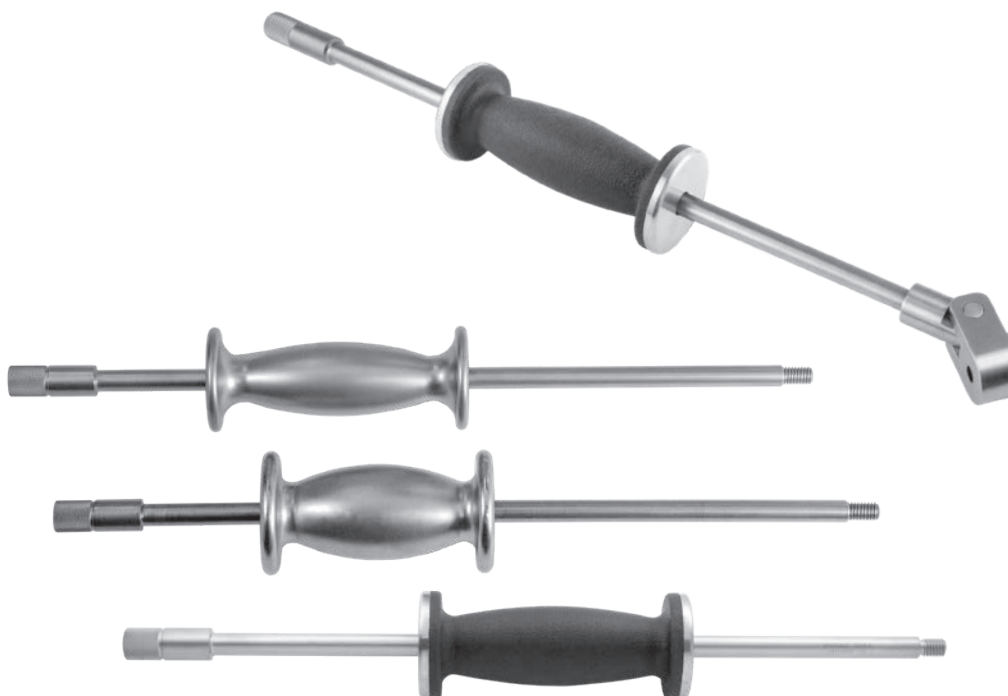
With the long Super Slap Hammer, two handed force can be used to power the drive weight from bottom to top along the entire length of the slap hammer rod



Slap hammer rod not included - available separately.



Slap hammer rod not included - available separately.



## Atlal 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 Atlal, and are removable for sterilization. Slap hammer rod is not included.



### PRODUCT NO'S:

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

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
4175-00	Whelan Hip Stem Extractor
S1202	Femoral Extraction Instrument - Loop
S1203	Femoral Extraction Instrument - J-Hook
S1203	Femoral Extraction Instrument - One-Piece

### Hip - Acetabular Cup/Shell/Liner

3638-00	Lombardi Hip Cup Liner/Shell Extractor
3665	Gorski Hip Cup Extraction Hook - 5.0 mm

### 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
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### General

3966	Large Bent Jaw OrthoVise
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## 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:

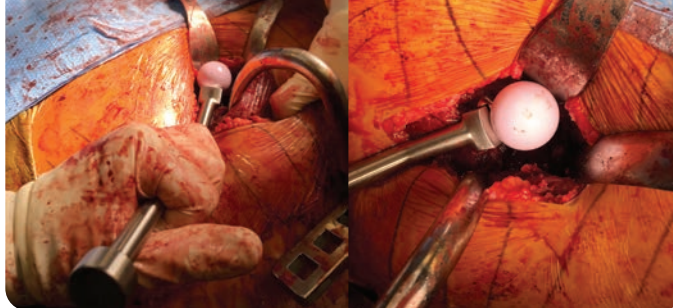
3925 [Standard Slap Hammer with 16" Rod] 3/8"-16 Thread Gauge
3935 [Extra Large Slap Hammer with 16" Rod] 3/8"-16 Thread Gauge
3926 [Easy Grip Slap hammer with 16" Rod] 3/8"-16 Thread Gauge
<b>Also available individually:</b>
3925-HS [Easy Grip Slap hammer only]
3925-A [16" Rod only] 3/8"-16 Thread Gauge



## 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*



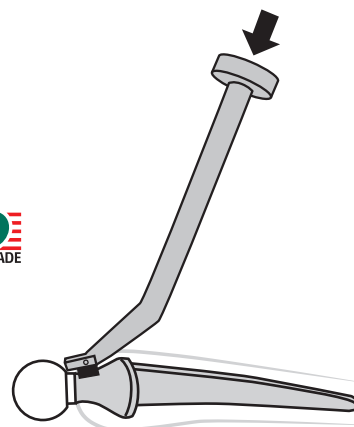
- ▶ Three stem angles allow choice of optimal approach
- ▶ Angled punches allow for better striking force to help break the taper of the head and stem
- ▶ The delrin pad helps prevent scratching of the femoral stem trunion

### 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°



Angled Up

Left

Right

## Femoral Head Disengaging Punch

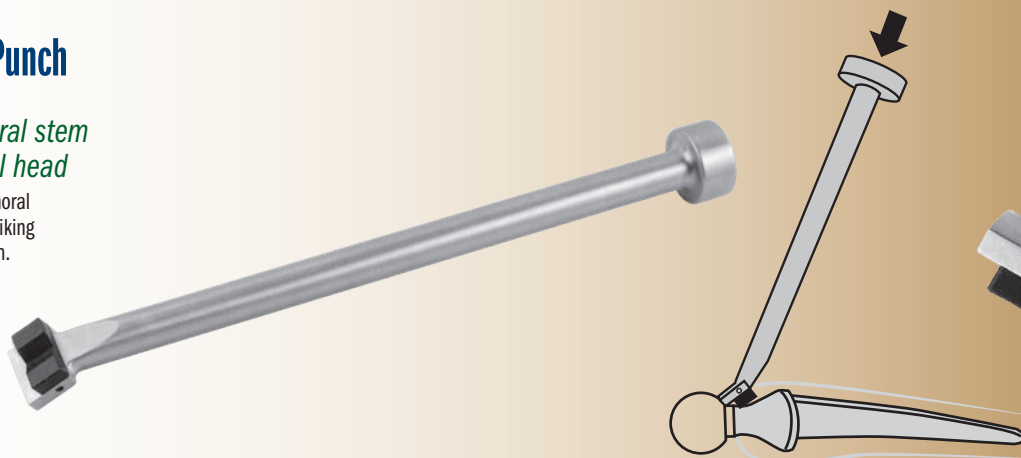
Designed by Brandon Thompson, CST/CFA

*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.

### PRODUCT NO:

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]  
Overall Length: 11" (27,9 cm)  
Punch End Offset: 13 mm  
Punch End Diameter: 7 mm

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



## Whelan Flexible Chisel Guide

Designed by E. J. Whelan, III, MD



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

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

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" (0,51 mm)
3040	[Slap Hammer]
1015	[Sterilization Case]

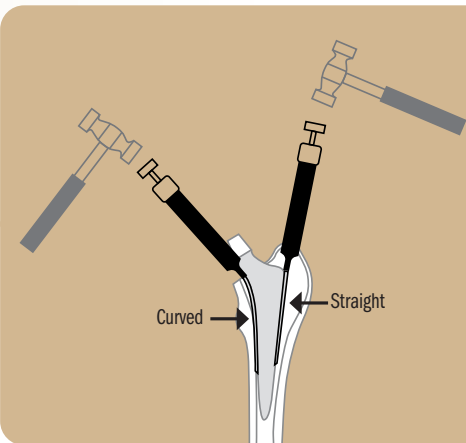
Chisel blade features an ultra hard titanium nitride coating to help extend life by increasing surface hardness, prolonging sharpness, and resisting chemicals and corrosion.



Complete Set



Two blades included in Set



## Whelan Curved Chisel Guide

Designed by E. 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]
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

## 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]







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 intraoperatively*

#### **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.

**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).

#### **Non-modular blade system**

Helps to decrease costs while increasing  
surgical efficiency as blades don't need to  
be changed intraoperatively.

#### **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:

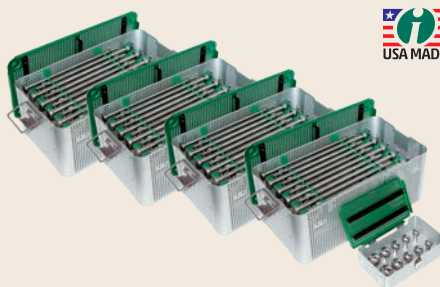
- 4 cases with all sizes, including 2 sets of heads
- 3 cases, including 2 sets of heads
- 2 cases, including 2 sets of heads
- 1 case, including 2 sets of heads
- 1 size (starter & finish), including 2 sets of heads

Each case includes 5 Starter and 5 Finish Instruments

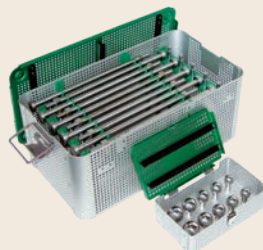
### Rental Charges

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 DELIRIN HEADS		US Patent #7,998,146 B2	
5202-00	Complete Set with Case		
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	<b>Complete Set with Ring</b>		
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



Helps to  
evaluate  
blade arc  
accuracy  
after use



INSTRUMENT AND HEAD CASES ONLY	
9014	Case for 22 Delrin Heads
9015	Case for 5 Starter and 5 Finish Blades, plus 5 Heads
9016	Case for 10 Steel Heads



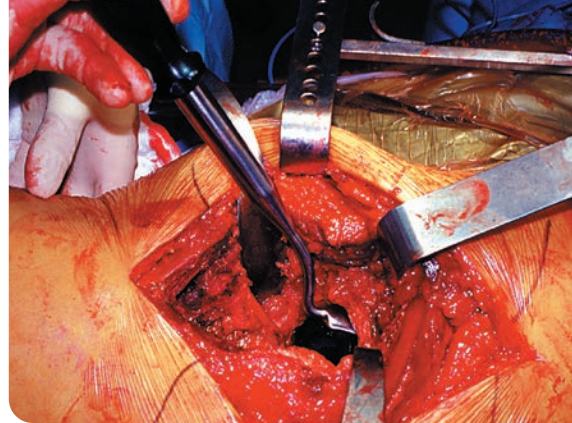


## Modified Smith-Peterson Style Osteotomes for Acetabular Cup Removal

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

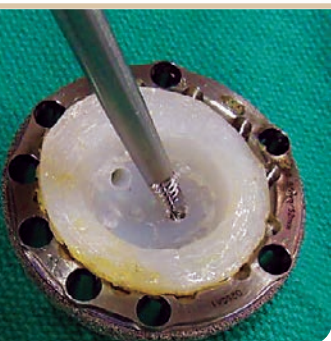
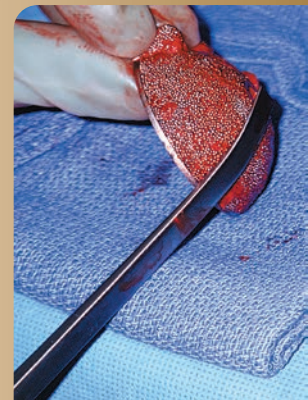
Blade Width: 48 mm  
Overall Length: 12.75" (32,4 cm)  
Handle Length: 4.75" (12,1 cm)

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

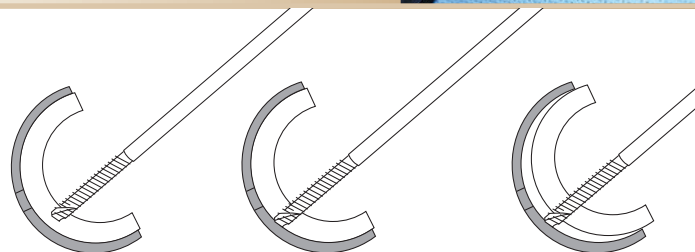
Designed by Keith R. Berend, MD

*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.





## Gorski Hip Cup Extraction Hook

Designed by Jerrold Gorski, MD

*Helps in the removal of a hip cup*



### PRODUCT NO'S:

**Hook for 5.0 mm Screw Holes**

3665 [Hook w/Standard Slap Hammer]

3665-01 [Hook w/o Slap Hammer]

### Optional:

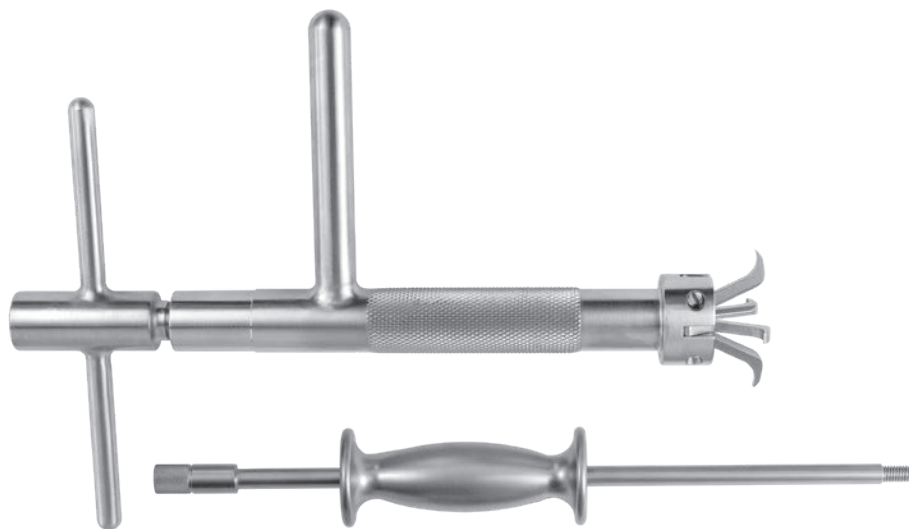
3935 [XL Slap Hammer] 3/8"-16 Thread Gauge



See page 5 for alternative slap hammers.



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



## 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.

### 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 5 for alternative slap hammers.



## Star Metal Cup Liner Removal Impactor

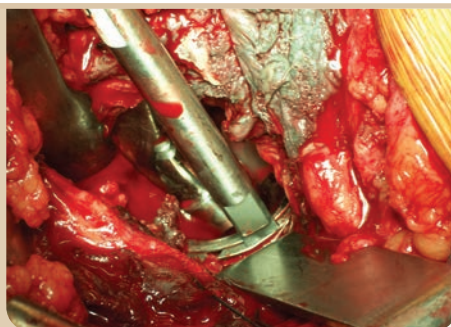
Designed by Andrew M. Star, MD

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.

### PRODUCT NO:

5014

Overall Length: 8" (20,3 cm)



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



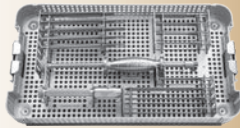
# Flexible Osteotome System

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

## Optional Parts and Blades

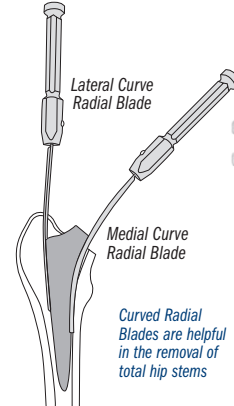
### PRODUCT NO'S:

S1020-SP	[Strike Plate for Handle] Diameter 1.625" (4,1 cm)
<b>Optional Blades (Not Included In Complete Set)</b>	
S1123	[Extra Long Osteotome Blade] 7.5" (19,1 cm) x 8 mm
S1135	[Radial Osteo. Medial Curve] 6.75" (17,1 cm) x 11 mm
S1136	[Radial Osteo. Lateral Curve] 6.75" (17,1 cm) x 11 mm
S1137	[Radial Osteo. Medial Curve] 5" (12,7 cm) x 11 mm
S1138	[Radial Osteo. Lateral Curve] 5" (12,7 cm) x 11 mm
S1222	[Chisel Blade] 2.5" (6,4 cm) x 8 mm
S1223	[Chisel Blade] 2.5" (6,4 cm) x 10 mm
S1224	[Chisel Blade] 2.5" (6,4 cm) x 12 mm
S1225	[Chisel Blade] 2.5" (6,4 cm) x 20 mm
S1228	[Chisel Blade] 5" (12,7 cm) x 10 mm
S1229	[Chisel Blade] 5" (12,7 cm) x 8 mm
S1230	[Chisel Blade] 5" (12,7 cm) x 20 mm
S1231	[Chisel Blade] 5" (12,7 cm) x 12 mm
S1232	[Extra Long Chisel Blade] 7.5" (19,1 cm) x 8 mm
S1233-L	[Flexible Left Curved Chisel] 2" (5,1 cm) x 8 mm
S1233-R	[Flexible Right Curved Chisel] 2" (5,1 cm) x 8 mm

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



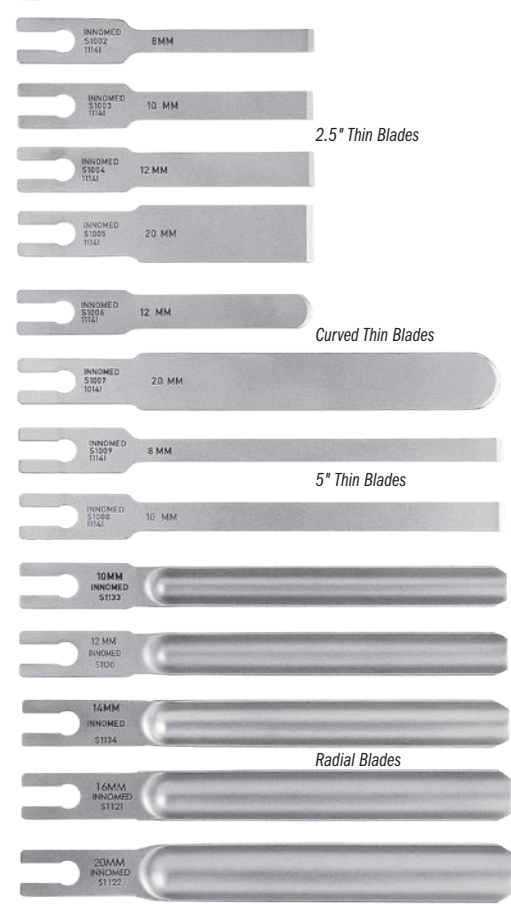
Slap Hammer



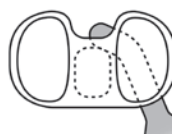
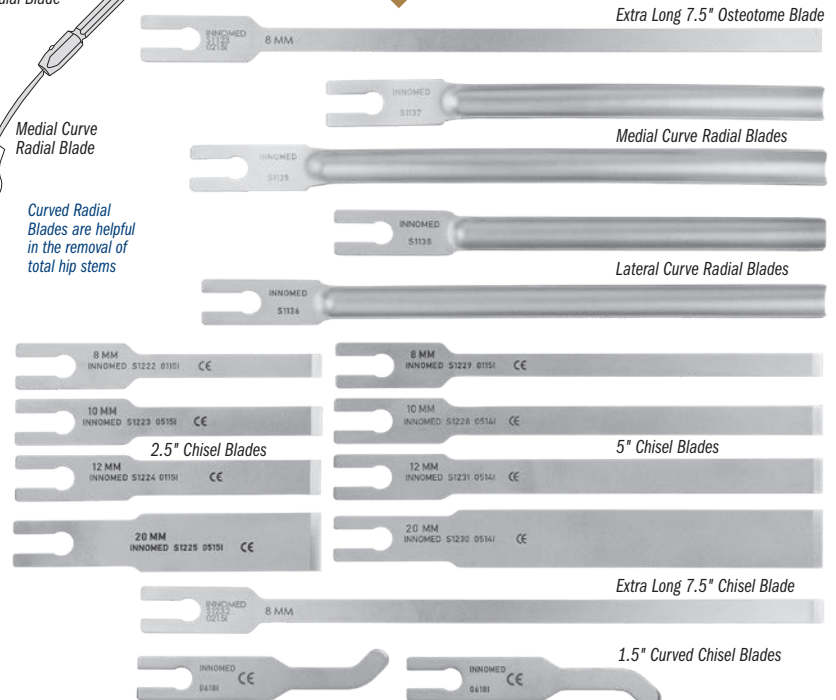
Curved Radial Blades are helpful in the removal of total hip stems

System Includes  
Choice of  
Handle Style

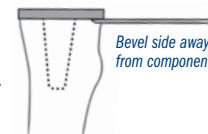
Handle with Locking Nut



## Optional Parts and Blades



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

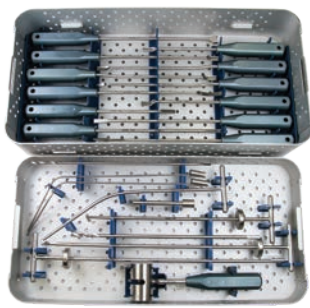


Bevel side away from component



Strike Plate for Handle





Narrow Cement Removal Gouge, Short

1

Narrow Cement Removal Gouge, Long

2

Narrow Offset Cement Removal Gouge

3

Acetabular Chisel

4

Offset Chisel

5

Flared Angle Chisel

6

Wide Gouge

7

"V" Splitter

8

Saddle Punch

9

Cement Splitting Osteotome

10

Cement Removal Osteotome, Short

11

Cement Removal Osteotome, Long

12

4.4 mm Drill & Drill Guide

13

6.4 mm Drill & Drill Guide

14

Straight Cement Removal Hook

15

Curved Cement Removal Hook

16

Cross Bar

17

7 mm T-Handle Conical Tap

18

9 mm T-Handle Conical Tap

19

Slotted Mallet

20

# Mueller-Type Cement Removal Instruments

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

## PRODUCT NO'S:

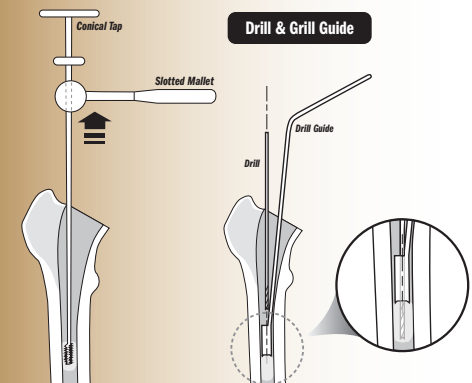
S7500-00 [Complete Set with Case]

## Individual Instruments:

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]	

## Conical Tap & Mallet

## Drill & Drill Guide







**PRODUCT NO:**

S0142  
Overall Length: 8" (20,3 cm)  
Jaw Width: 4.5 mm



## Screw/Pin Removal Locking Pliers

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

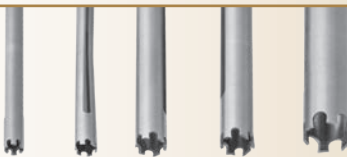
## Universal Screw Removal Instrument System

*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.

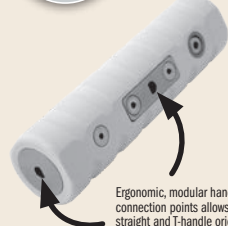


### Cannulated Drive Extension

Used when a longer instrument shaft is desired.



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.

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

**PRODUCT NO'S:**

S0010-00 [Complete System with Case]

**Individual/Replacement Parts**

S0113 [Universal 4" (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]

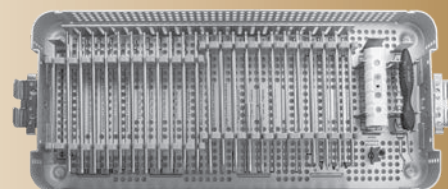
S0127-04 [Extractor Wrench]

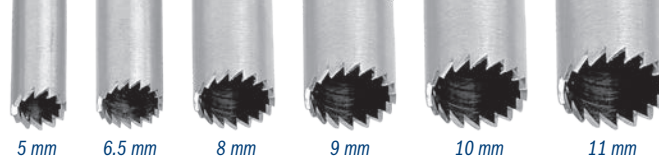
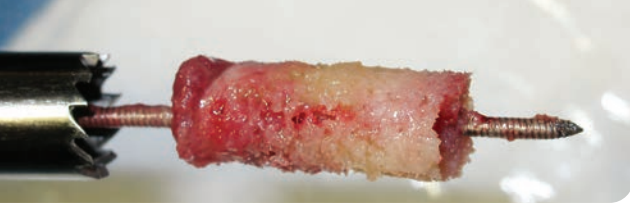
S0129 [Pick]

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)





## 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*

**New!**

LARGER TREPHINE SIZES AVAILABLE!



K-wire not included.

### PRODUCT NO'S:

1426-00 [Complete Set with Case]

### Set Includes/Available Separately:

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)

1426-04 [Handle Assembly]

Dimensions: 4" x 2" (10,2 cm x 5,1 cm)

1025 [Sterilization Case]

### Replacement Part:

1425-14-B-COMP [Handle Retaining Screw]

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.

## Screw Removal Pliers

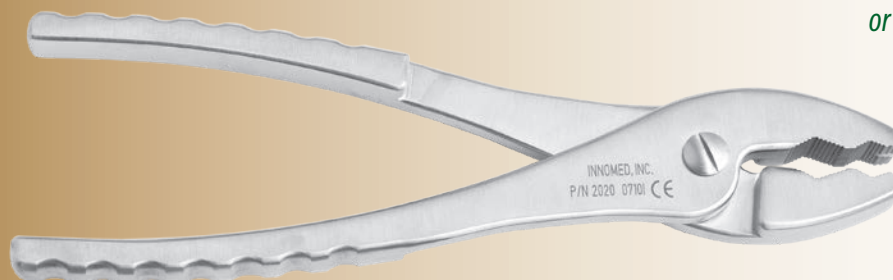
*Jaw designed to grasp onto a screw or screw head to help in removal*



### 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'S:

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)

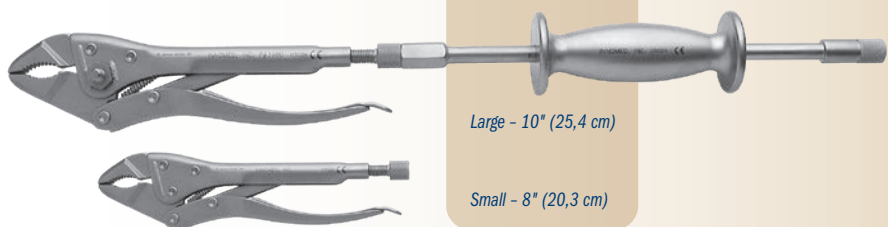
Jaw Width Tapered from: 8 mm to 1.5 mm

Jaw Height Tapered from: 12 mm to 2.5 mm

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FOR INNOMED IN  
GERMANY



### Standard



Large - 10" (25,4 cm)

Small - 8" (20,3 cm)

## OrthoVise™

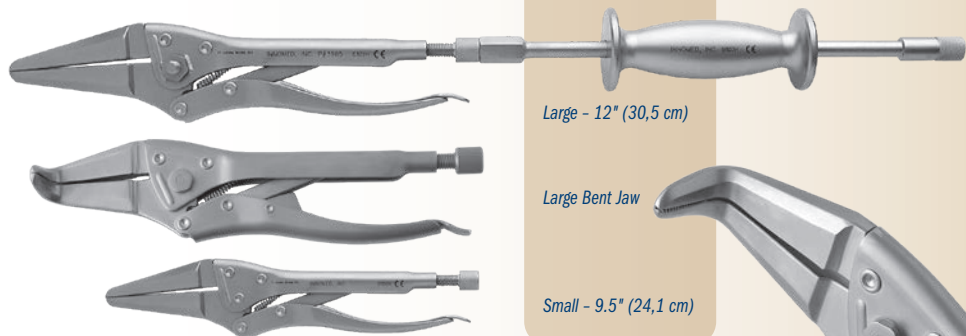
Made of stainless steel and designed with the option of using a slap hammer for greater adaptability.

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

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



### Long Nose



Large - 12" (30,5 cm)

Large Bent Jaw

Small - 9.5" (24,1 cm)

### PRODUCT NO'S:

#### Standard

3980	[Large] Overall Length: 10" (25,4 cm) with Attachment Bolts with Large OrthoVise™ Slap Hammer (#3950)
3980-01	[Large] Overall Length: 10" (25,4 cm) with Attachment Bolts without Slap Hammer
3981	[Large] Overall Length: 10" (25,4 cm) without Attachment Bolts without Slap Hammer
3985	[Small] Overall Length: 8" (20,3 cm) without Attachment Bolt without Slap Hammer
3985-01	[Small] Overall Length: 8" (20,3 cm) with Attachment Bolt with Small OrthoVise™ Slap Hammer (#3955)
3985-T	[Small] Overall Length: 8" (20,3 cm) with Attachment Bolt without Slap Hammer

#### Long Nose

3965	[Large] Overall Length: 12" (30,5 cm) with Attachment Bolts with Large OrthoVise™ Slap Hammer (#3950)
3965-01	[Large] Overall Length: 12" (30,5 cm) with Attachment Bolt without Slap Hammer
3966	[Large Bent Jaw] with Attachment Bolt with Standard Slap Hammer (#3925)
3966-01	[Large Bent Jaw] with Attachment Bolt without Slap Hammer
3975	[Small] Overall Length: 9.5" (24,1 cm) without Attachment Bolt without Slap Hammer
3975-01	[Small] Overall Length: 9.5" (24,1 cm) with Attachment Bolt with Small OrthoVise™ Slap Hammer (#3955)
3975-T	[Small] Overall Length: 9.5" (24,1 cm) with Attachment Bolt without Slap Hammer

#### Threaded Adapters

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

#### Slap Hammers

3950	[Slap Hammer for Large OrthoVise] For use with 3965's, 3980's, 3981
3955	[Slap Hammer for Small OrthoVise] For use with: 3975's, 3985's
3925	[Standard Slap Hammer] For use with: 3966's

U.S. Patent #D398,208

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GERMANY



## Star Bit Driver Set

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



Set in Storage Case

### PRODUCT NO'S:

5194-00 [4 Star Bits w/Handle & Case]
5194-01 [4 Star Bits w/Case only]
<b>Also sold individually:</b>
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]



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.



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]
<i>Also sold individually</i>
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]

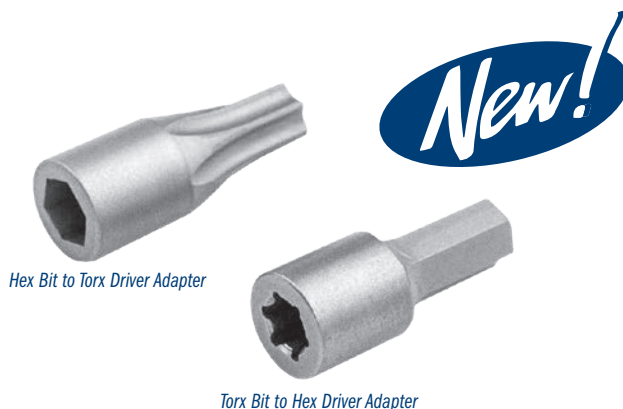


## Torx/Hex Adapter Set

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

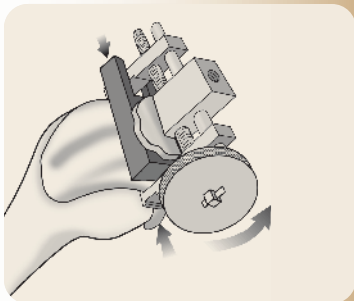
### PRODUCT NO'S:

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)



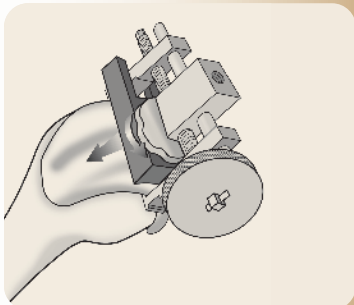
#### Attaching Jaws To Component

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



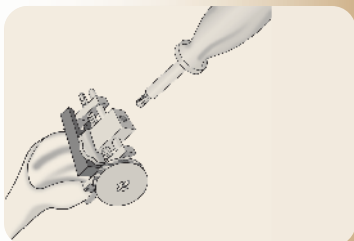
#### Stabilizing The Component

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



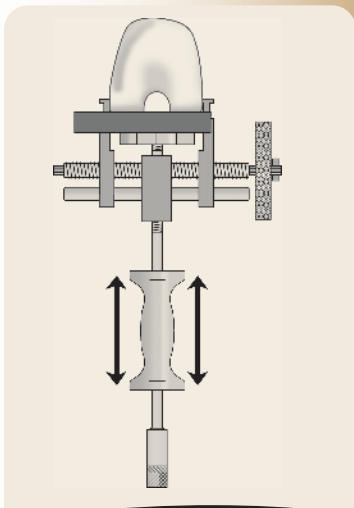
#### Attaching Slap Hammer Assembly

The slap hammer assembly is threaded into the extractor body.



#### Using Slap Hammer Assembly To Remove Component

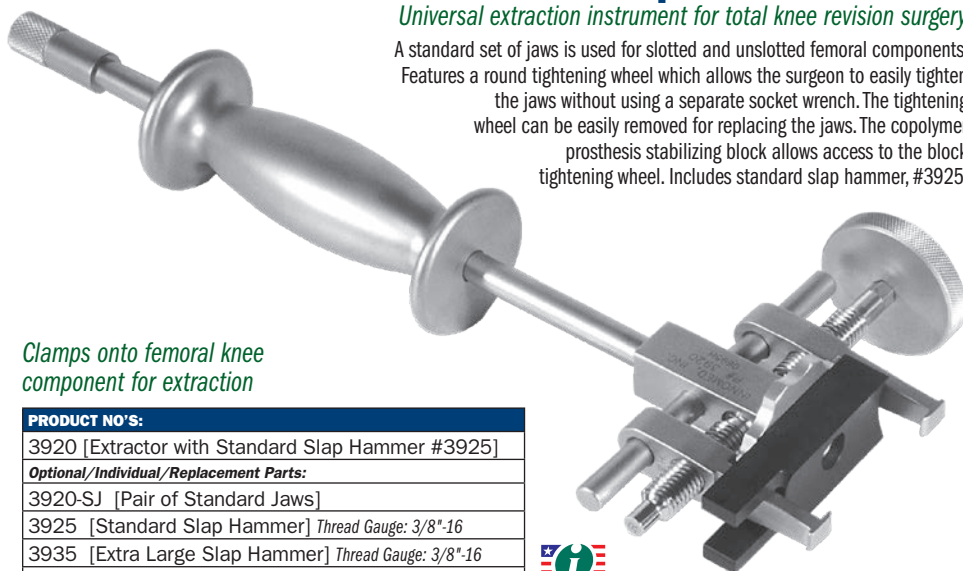
The slap hammer is also designed with a hammer flare for optional use with a mallet.



## 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-SJ [Pair of Standard Jaws]

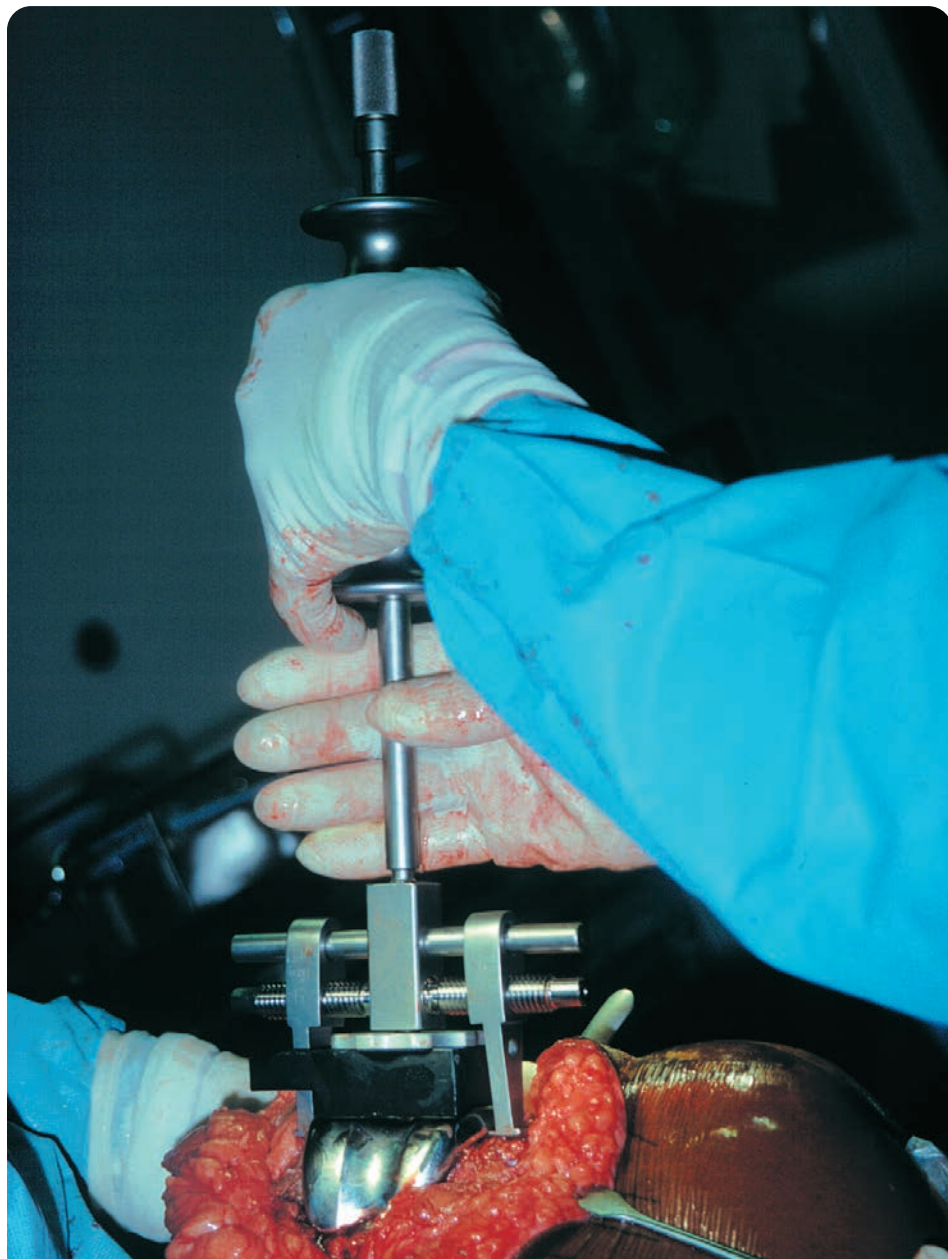
3925 [Standard Slap Hammer] Thread Gauge: 3/8"-16

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

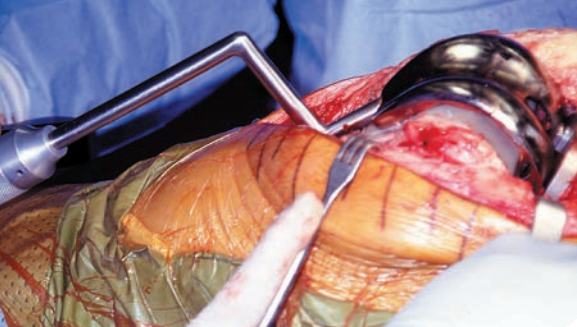
3926 [Easy Grip Slap hammer with 16" Rod]



See page 5 for alternative slap hammers.







## Boynton Punch

Designed by L. Boynton, MD

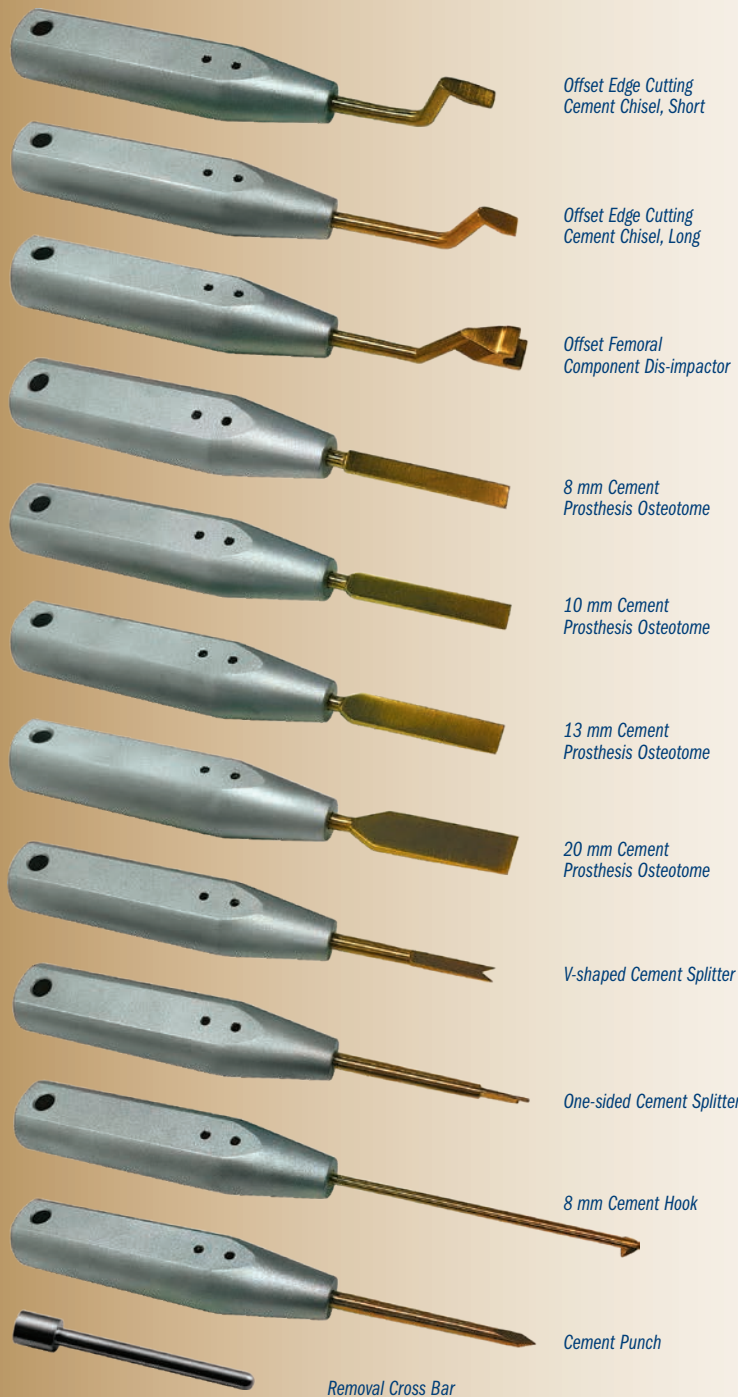
*Helpful in removing trial, femoral and revision total knee components*



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



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



## Lachiewicz Total Knee Revision Set

Designed by Paul F. Lachiewicz, MD

*Used for total knee revision*

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 by Scott A. Foster, MD

*Designed to help remove UKA/TKA component*

Features a large handle and striking platform.

PRODUCT NO:
5232
Osteotome Width: 6.7 mm
Overall Length: 8.5" (21,6 cm)
Handle Length: 5.75" (14,6 cm)



*New!*



## Mini-Ilexer 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:
5270-01
Blade Width: 4 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)
5270-03
Blade Width: 10 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)

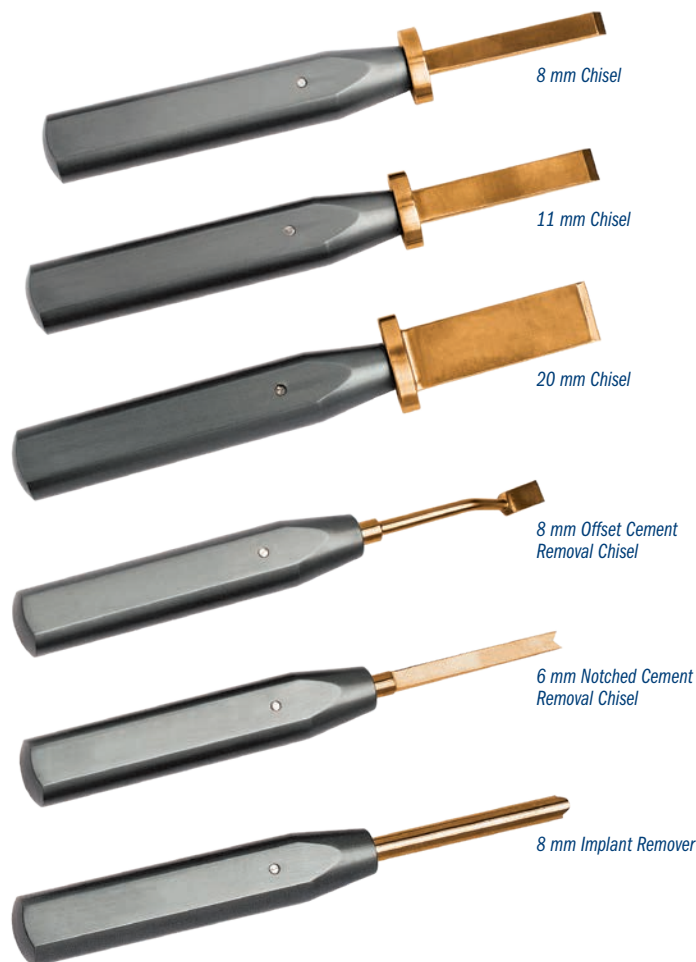
MADE FOR INNOVED IN GERMANY

## Eickmann Knee Revision Set

Designed by Thomas Eickmann, MD

*Used for total knee revision*

PRODUCT NO'S:
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 Cement Osteotome

*Helps remove cement around the back of the tibia base, and 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.

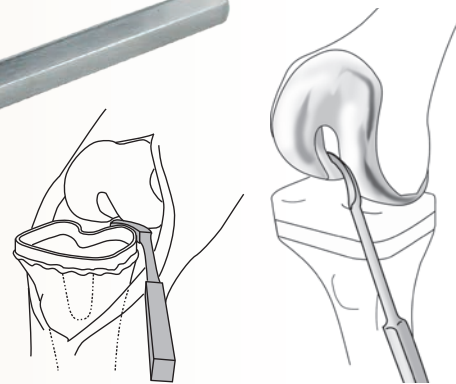
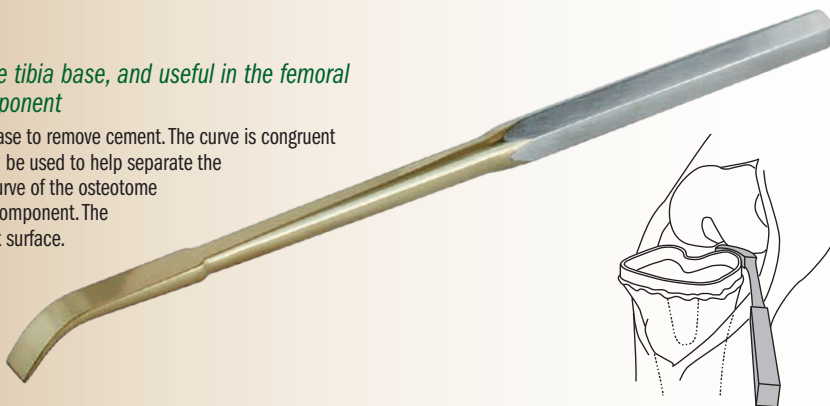
### PRODUCT NO:

5220

Overall Length: 6.75" (17,1 cm)

Handle Length: 3" (7,6 cm)

Blade Width: 6,8 mm



## 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:

1896-01 [Set – Left & Right]

Also available individually:

1896-01L [Left]

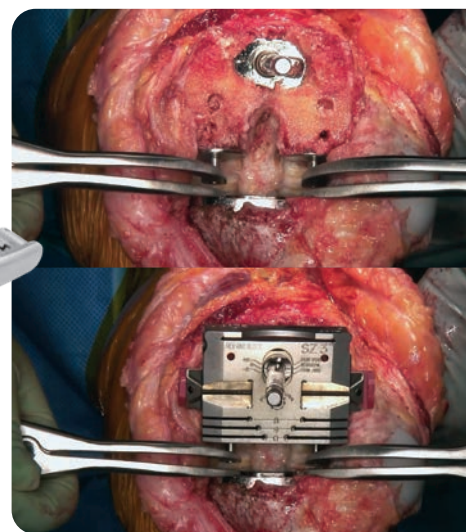
Overall Length: 9.25" (23,5 cm)

Pad Diameter: 1" (2,5 cm)

1896-01R [Right]

Overall Length: 9.25" (23,5 cm)

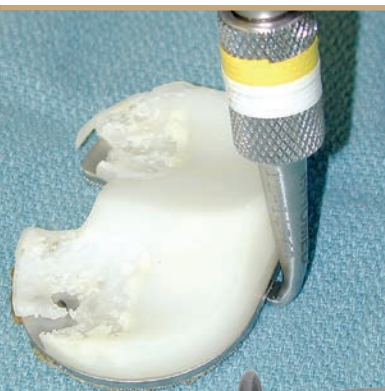
Pad Diameter: 1" (2,5 cm)



## 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*



4 mm Gorski Hook



8 mm Brown Gorski Hook



### 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

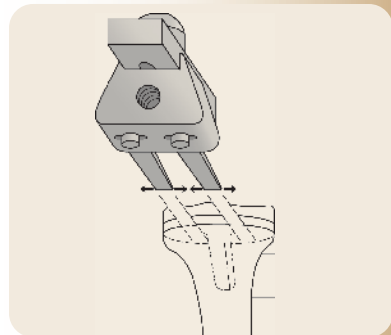
3926 [Easy Grip Slap hammer with 16" Rod]

See page 5  
for alternative  
slap hammers.



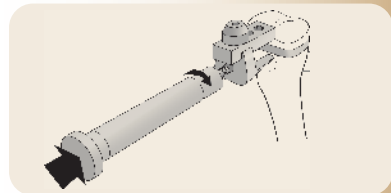
### Adjusting Blades To Fit Component

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



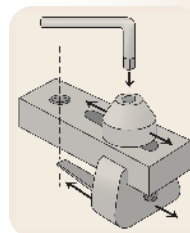
### Driving Blades Under Component

The blades are driven under the tibial base.



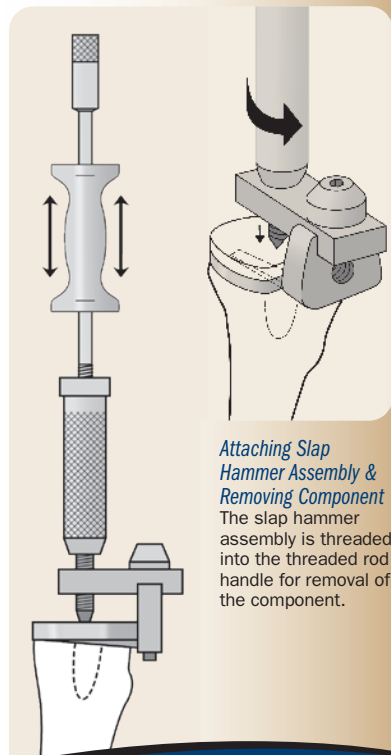
### Tightening Threaded Rod Onto Component

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.



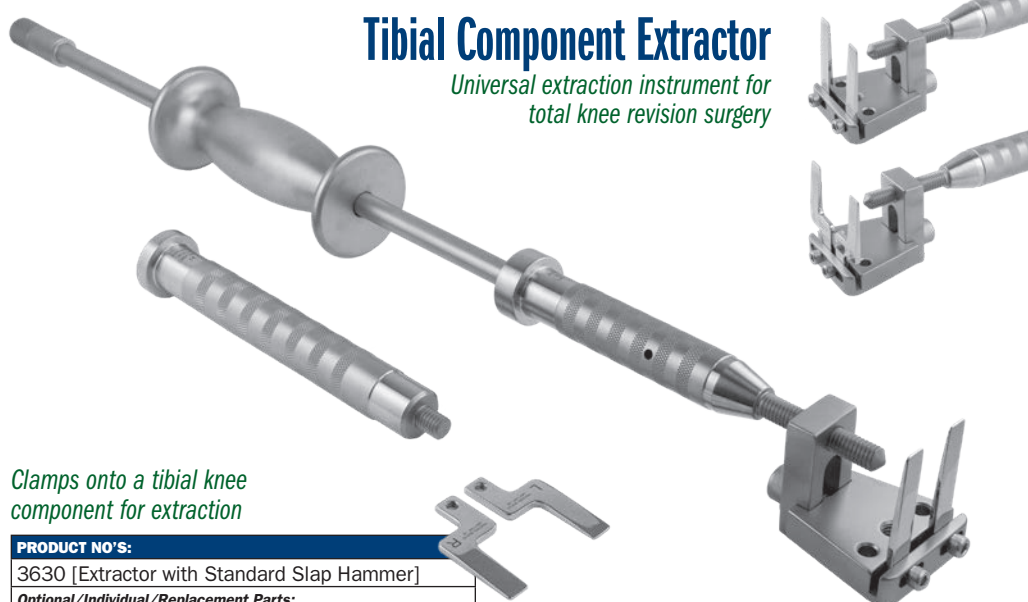
### Attaching Slap Hammer Assembly & Removing Component

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]

#### Optional/Individual/Replacement Parts:

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

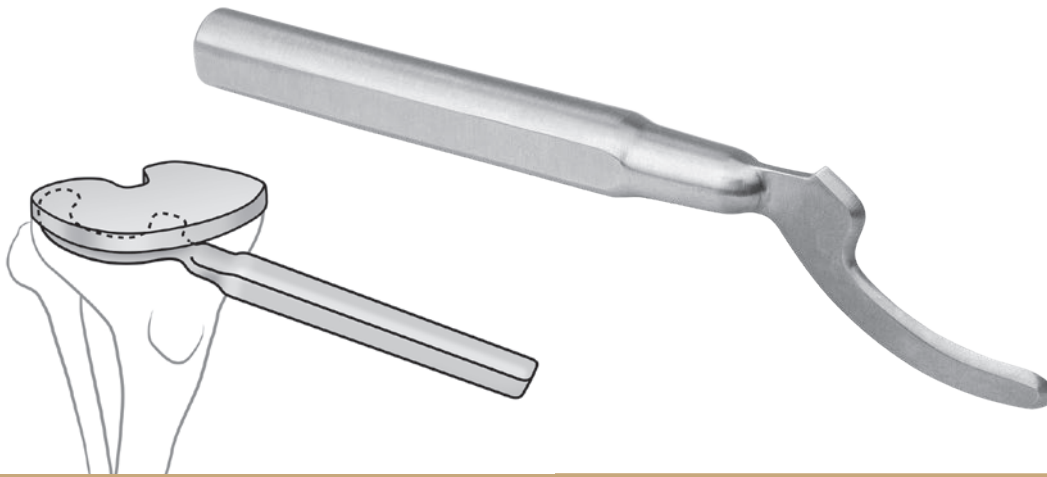
3926 [Easy Grip Slap hammer with 16" Rod]

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 5 for alternative slap hammers.







## 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



## 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 [Flexible Left Curved Chisel] 2" (5,1 cm) x 8 mm

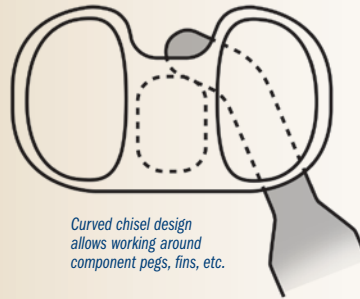
S1233-R [Flexible Right Curved Chisel] 2" (5,1 cm) x 8 mm



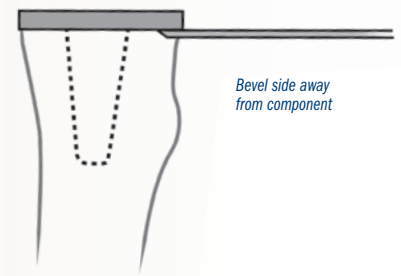
Left Curved Chisel Blade



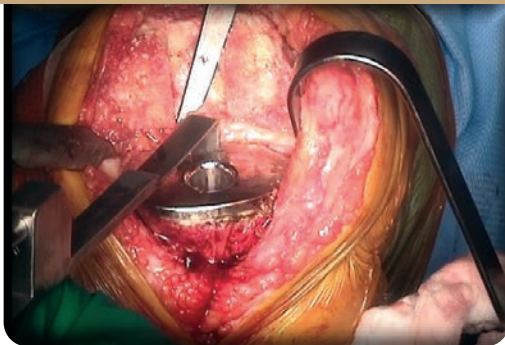
Right Curved Chisel Blade



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



Bevel side away from component

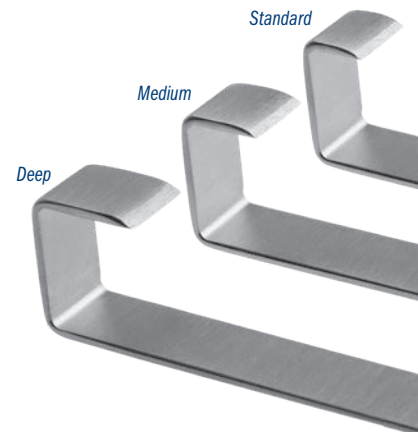


## Incavo Tibial Component Revision Osteotomes

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]



# 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.

### 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 Textured Soft Silicone Handles



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



Replacement Delrin Heads



#### 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

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