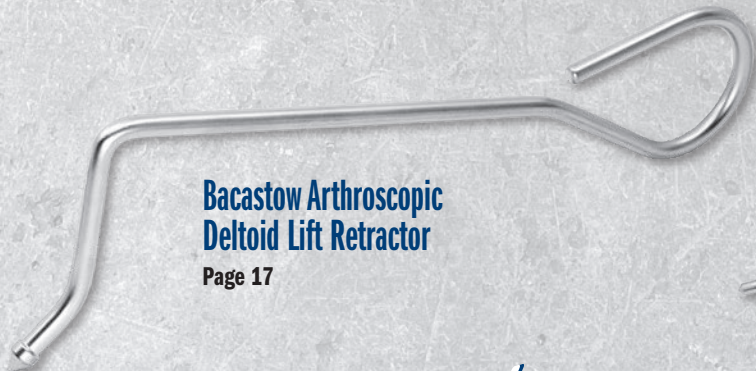


# INNOMED

ORTHOPEDIC INSTRUMENTS



OCTOBER  
2024



**Bacastow Arthroscopic  
Deltoid Lift Retractor**

Page 17



**Levy Humeral Stem  
Extraction Punch**

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Featuring many **New!** instruments throughout



**Meyer Latarjet  
Drill Guide &  
Forceps Assembly**

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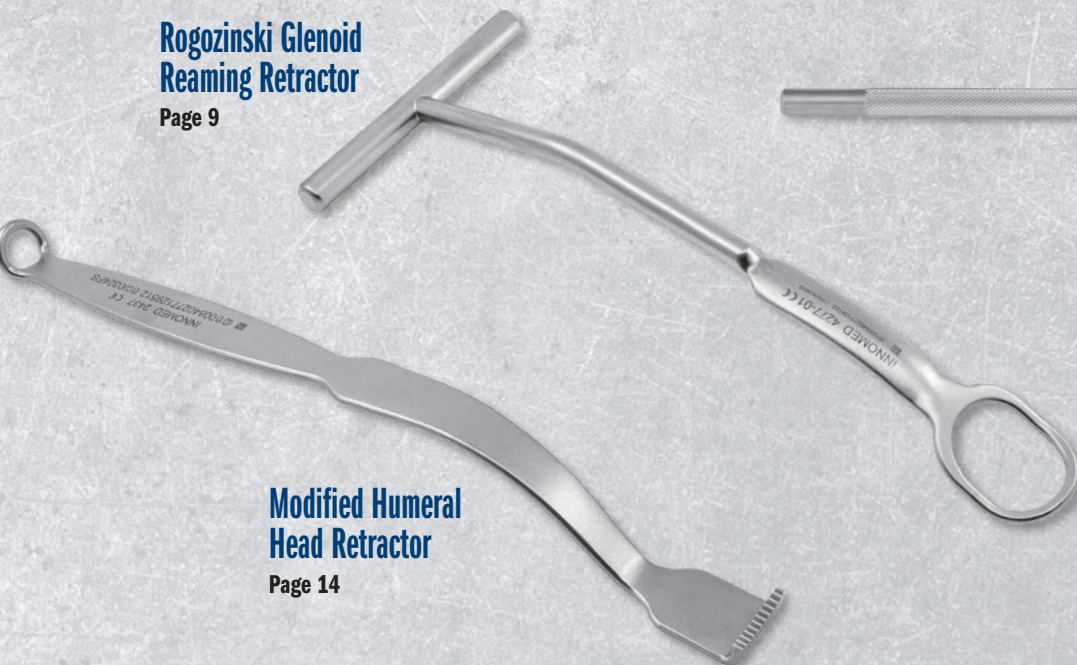
**Rogozinski Glenoid  
Reaming Retractor**

Page 9



**Knurled Kolbel  
Self-Retaining  
Retractor Blades**

Page 18



**Modified Humeral  
Head Retractor**

Page 14



## Shoulder & Elbow Instruments

1.800.548.2362

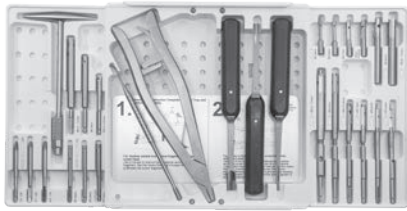


INNOMED.NET



# What's New In This Catalog?

a snapshot of all the *New!* instruments within



## Basic Screw Removal System

Back Cover

## Becker Hammerhead Rongeur

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## Knurled Blades for Kolbel Self-Retaining Retractors

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## Levy Anterior Glenoid Retractors

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## Modified Humeral Head Retractors

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## Rogozinski Glenoid Retractor

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## Rogozinski Glenoid Reaming Retractor

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## Superior Coracoid Retractor

Page 3



## Wiater Shoulder Drape Crossbar

Page 23



## Evans Reverse Hohmann Retractor

Designed by Peter J. Evans, MD

*Smaller size useful for retracting the deltoid superiorly or laterally, and also protecting the axillary nerve inferiorly while simultaneously exposing the glenoid*



### PRODUCT NO:

**4547**

Overall Length: 8.5" (21,6 cm)

Blade Width: Tapers from 30 mm to 18 mm

Blade Depth: 3" (7,6 cm)

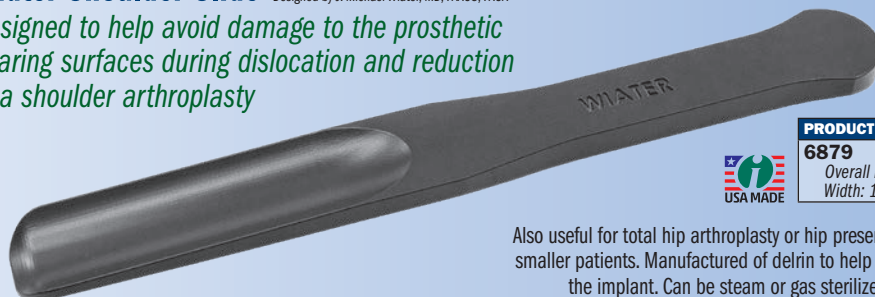
Prong Width: 6 mm



## Wiater Shoulder Slide

Designed by J. Michael Wiater, MD, FAOS, FAOA

*Designed to help avoid damage to the prosthetic bearing surfaces during dislocation and reduction of a shoulder arthroplasty*



### PRODUCT NO:

**6879**

Overall Length: 11" (27,9 cm)

Width: 1.375" (3,5 cm)



Also useful for total hip arthroplasty or hip preservation procedures in smaller patients. Manufactured of delrin to help eliminate damage to the implant. Can be steam or gas sterilized and is radiolucent.

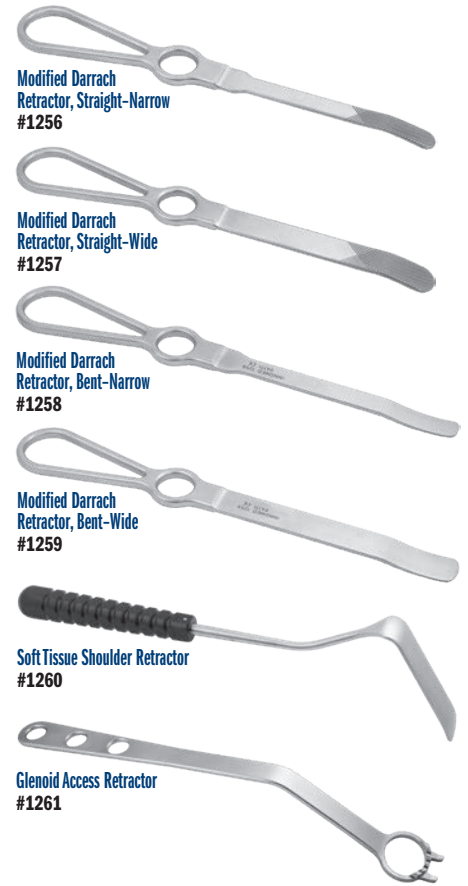
PRODUCT NO'S:
<b>1251-00</b> [Complete System]
<i>Included in Set/Available individually:</i>
<b>1252-N</b> [Modified Thin Glenoid Retractor–Narrow] <i>Two included in set; one with this product number</i> Overall Length: 11.875" (30,2 cm) Blade Width: 15 mm
<b>1252-W</b> [Modified Thin Glenoid Retractor–Wide] <i>Two included in set; one with this product number</i> Overall Length: 11.875" (30,2 cm) Blade Width: 23 mm
<b>1253</b> [Right Angle Hohmann Retractor] Overall Length: 8.125" (20,6 cm) Depth from Bend: 4.25" (10,8 cm) Blade Width: 16 mm
<b>1254</b> [Modified Fukuda Retractor] Overall Length: 8.625" (21,9 cm) Depth: 2.75" (7 cm) Blade Width: 39 mm
<b>1255-L</b> [Brown Deltoid/Richardson Retractor–Large] Overall Length: 10.5" (26,7 cm) Depth: 2.5" (6,4 cm) Blade Width: 60 mm
<b>1255-S</b> [Brown Deltoid/Richardson Retractor–Small] Overall Length: 10.5" (26,7 cm) Depth: 2.5" (6,4 cm) Blade Width: 44 mm
<b>1256</b> [Modified Darrach Retractor, Straight–Narrow] Overall Length: 10.25" (26 cm) Blade Width: 12,7 mm
<b>1257</b> [Modified Darrach Retractor, Straight–Wide] Overall Length: 10.25" (26 cm) Blade Width: 19 mm
<b>1258</b> [Modified Darrach Retractor, Bent–Narrow] Overall Length: 10.75" (27,3 cm) Blade Width: 12,7 mm
<b>1259</b> [Modified Darrach Retractor, Bent–Wide] Overall Length: 10.75" (27,3 cm) Blade Width: 19 mm
<b>1260</b> [Soft Tissue Shoulder Retractor] Overall Length: 10" (25,4 cm) Depth from Bend: 3" (7,6 cm) Blade Width: 19 mm
<b>1261</b> [Glenoid Access Retractor] Overall Length: 13.5" (34,3 cm) Access Hole Internal Diameter: 36 mm X 30 mm Depth of Prongs: 8.5 mm



System includes two of each size of the Modified Thin Glenoid Retractors, and one of each of the other retractors.

# Shoulder Surgery Retractor System

*Developed in collaboration with Mayo Clinic.*



## Superior Coracoid Retractor

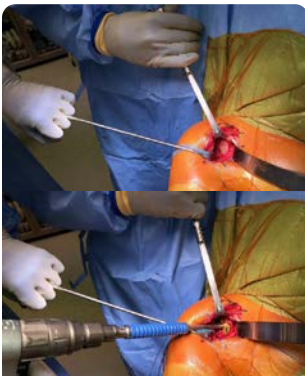
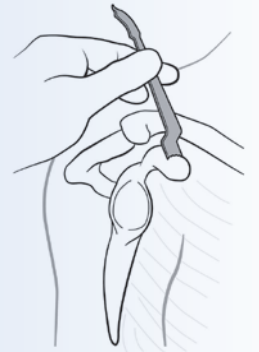
Can also be used as a modified mini hohmann retractor in small bone surgery.

PRODUCT NO:
<b>1666-02</b> Overall Length: 6.25" (15,9 cm)



Superior Coracoid Modification

**New!**



## Wiater Shoulder Bone Hook

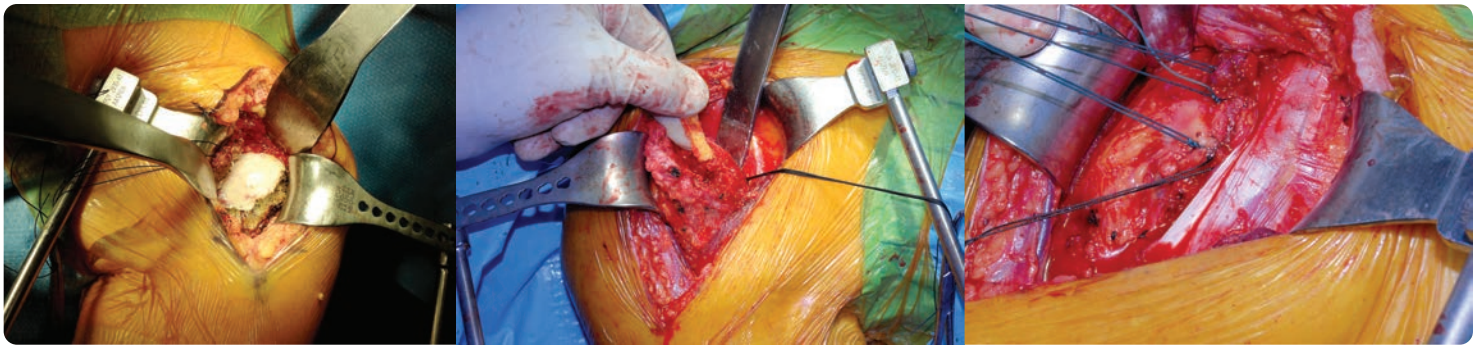
Designed by J. Michael Wiater, MD, FAOS, FAOA

*Large bone hook designed to retract the proximal humerus posteriorly to help provide exposure for glenoid reaming during open shoulder procedures*

PRODUCT NO:
<b>5079</b> Curve Diameter: 2.68" (68 mm) Overall Length: 11.25" (28,6 cm) Handle Width: 4" (10,2 cm)

Also useful for other large joint procedures.



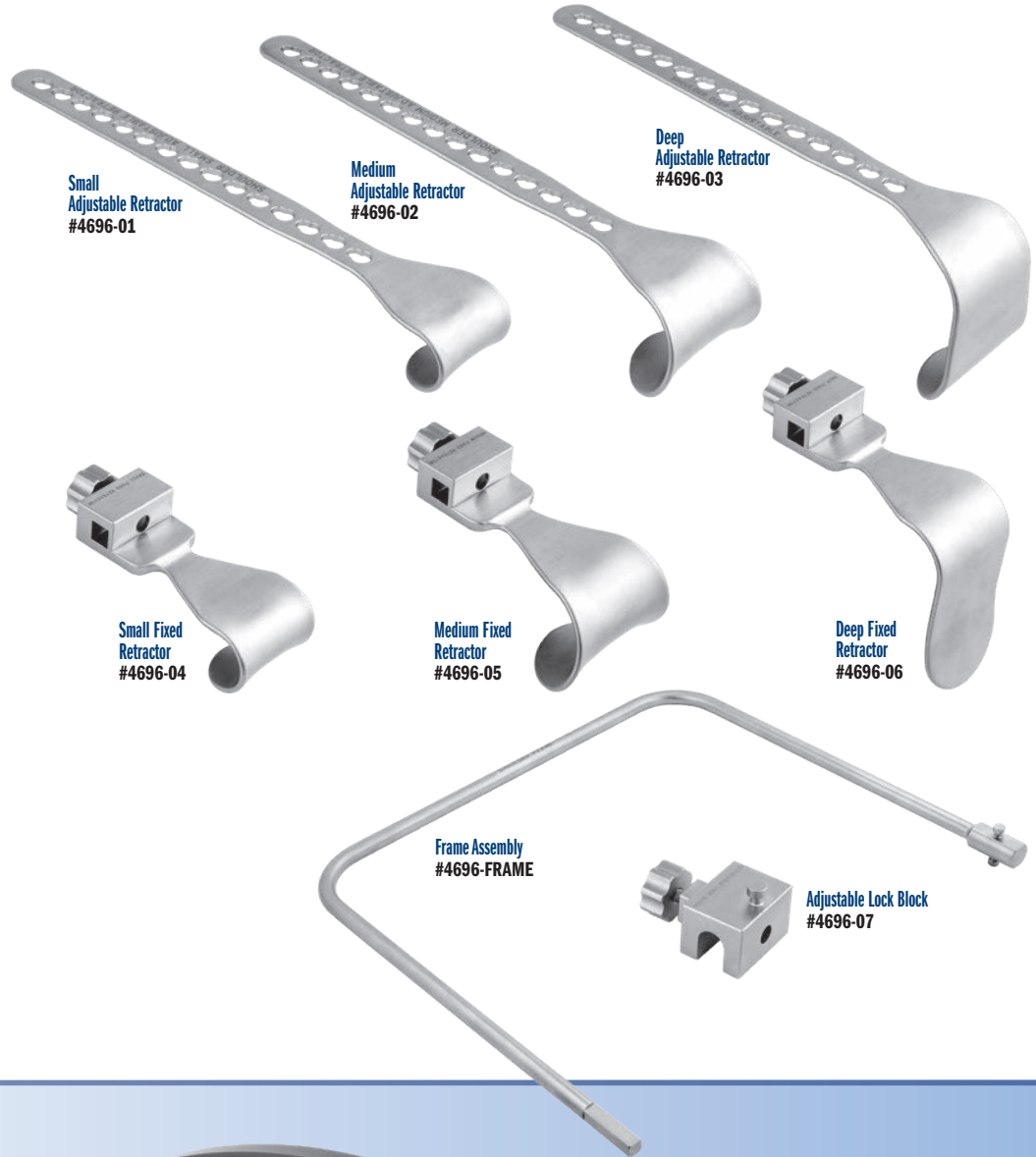


## Bell-Hawkins Shoulder Frame and Blade Set

Designed by Robert H. Bell, MD and Richard Hawkins, MD

*Retractor and Frame System for Total Shoulder Arthroplasty*

PRODUCT NO'S:	
<b>4696-00</b>	[Bell-Hawkins – Complete Set]
<i>Included in Set/Available individually:</i>	
<b>4696-01</b>	[Small Adjustable Retractor] Overall Length: 7.375" (18,7 cm) Handle Length: 6" (15,2 cm) Blade Width: 1.25" (32 mm) Blade Depth: .8" (20 mm)
<b>4696-02</b>	[Medium Adjustable Retractor] Overall Length: 7.375" (18,7 cm) Handle Length: 6" (15,2 cm) Blade Width: 1.7" (43 mm) Blade Depth: 1.25" (32 mm)
<b>4696-03</b>	[Deep Adjustable Retractor] Overall Length: 7.375" (18,7 cm) Handle Length: 6" (15,2 cm) Blade Width: 1.6" (41 mm) Blade Depth: 2" (51 mm)
<b>4696-04</b>	[Small Fixed Retractor] Overall Length: 3" (7,6 cm) Handle Length: 1.5" (3,8 cm) Blade Width: 1.25" (32 mm) Blade Depth: .8" (20 mm)
<b>4696-05</b>	[Medium Fixed Retractor] Overall Length: 3" (7,6 cm) Handle Length: 1.5" (3,8 cm) Blade Width: 1.7" (43 mm) Blade Depth: 1.25" (32 mm)
<b>4696-06</b>	[Deep Fixed Retractor] Overall Length: 3" (7,6 cm) Handle Length: 1.5" (3,8 cm) Blade Width: 1.25" (32 mm) Blade Depth: 2.375" (60 mm)
<b>4696-07</b>	[Adjustable Lock Block] Dimensions: 1.375" x 1" x .85" (35 mm x 25 mm x 20 mm)
<b>4696-Frame</b>	[Frame Assembly] Dimensions: 10" x 9" (25,4 cm x 22,9 cm)



Small Adjustable Retractor #4696-01

Medium Adjustable Retractor #4696-02

Deep Adjustable Retractor #4696-03

Small Fixed Retractor #4696-04

Medium Fixed Retractor #4696-05

Deep Fixed Retractor #4696-06

Frame Assembly #4696-FRAME

Adjustable Lock Block #4696-07

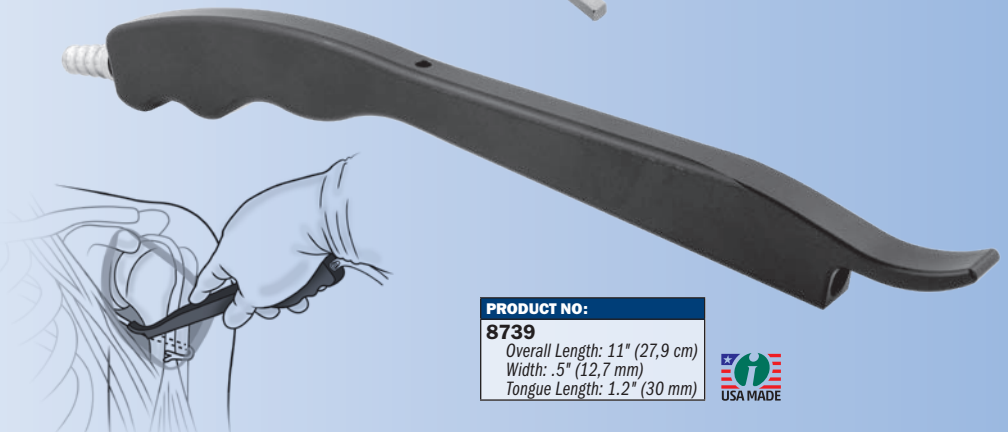


## Bacastow Axillary Nerve Retractor with Suction

Designed by David Bacastow, MD

*Designed with a curved tip to slip all the way under the capsule during shoulder surgery, helping to protect the axillary nerve, while also providing suction of smoke away from the surgical site*

Made of autoclavable Radel material, the unit is non-conductive of current and resists the high temperatures associated with the use of electrocautery.



PRODUCT NO:  
**8739**  
Overall Length: 11" (27,9 cm)  
Width: .5" (12,7 mm)  
Tongue Length: 1.2" (30 mm)







**Small Spreader w/Articular Arms #5090**

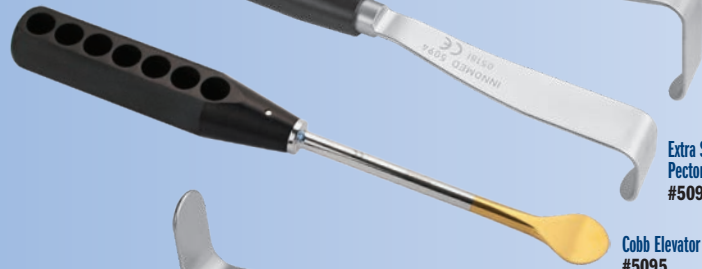
**Large Spreader w/Articular Arms #5091**



**Anterior Capsular Retractor #5092**

**Small Pectoralis Retractor #5093**

**Extra Small Pectoralis Retractor #5094**



**Cobb Elevator #5095**



**Humeral Head Retractor #5096**



**Anterior Glenoid Retractor #5097**



**Deltoid Retractor #5098**

**Modified Darrach Retractor #5099**

# Hawkins Shoulder Instruments

Designed by Richard J. Hawkins, MD

*Designed to enhance exposure during shoulder arthroplasty procedures*

PRODUCT NO'S:
<b>5090</b> [Small Spreader w/Articular Arms] Overall Length: 6.25" (15,9 cm) Arm Depth: 2.25" (5,7 cm) Prong Width: 21 mm Prong Length: 16 mm
<b>5091</b> [Large Spreader w/Articular Arms] Overall Length: 10.5" (26,7 cm) Arm Depth: 2.375" (6 cm) Prong Width: 23 mm Prong Length: 23 mm
<b>5092</b> [Anterior Capsular Retractor] Overall Length: 11.25" (28,6 cm) Handle Length: 5.25" (13,3 cm) Blade Depth: 3.25" (8,3 cm) Blade Width: 19 mm
<b>5093</b> [Small Pectoralis Retractor] Overall Length: 10.25" (26 cm) Handle Length: 5.25" (13,3 cm) Blade Depth: 2.5" (6,4 cm) Blade Width: 25 mm
<b>5094</b> [Extra Small Pectoralis Retractor] Overall Length: 11" (27,9 cm) Handle Length: 5.25" (13,3 cm) Blade Depth: 1.5" (3,8 cm) Blade Width: 25 mm
<b>5095</b> [Cobb Elevator] Overall Length: 11" (27,9 cm) Handle Length: 5.5" (14 cm) Blade Width: 19 mm
<b>5096</b> [Humeral Head Retractor] Overall Length: 9" (22,9 cm) Blade Depth: 2.75" (7 cm) Blade Width: 37 mm
<b>5097</b> [Anterior Glenoid Retractor] Overall Length: 11" (27,9 cm) Blade Depth: 2.75" (7 cm) Blade Width @ Fat Pad: 34 mm Blade Width @ Neck: 18 mm
<b>5098</b> [Deltoid Retractor] Overall Length: 9.5" (24,1 cm) Blade Depth: 3.75" (9,5 cm) Blade Width @ Fat Pad: 45 mm Blade Width @ Neck: 32 mm
<b>5099</b> [Modified Darrach Retractor] Overall Length: 10.75" (27,3 cm) Blade Width: 19 mm



## Axillary Nerve Protector

Designed by Brett Sanders, MD

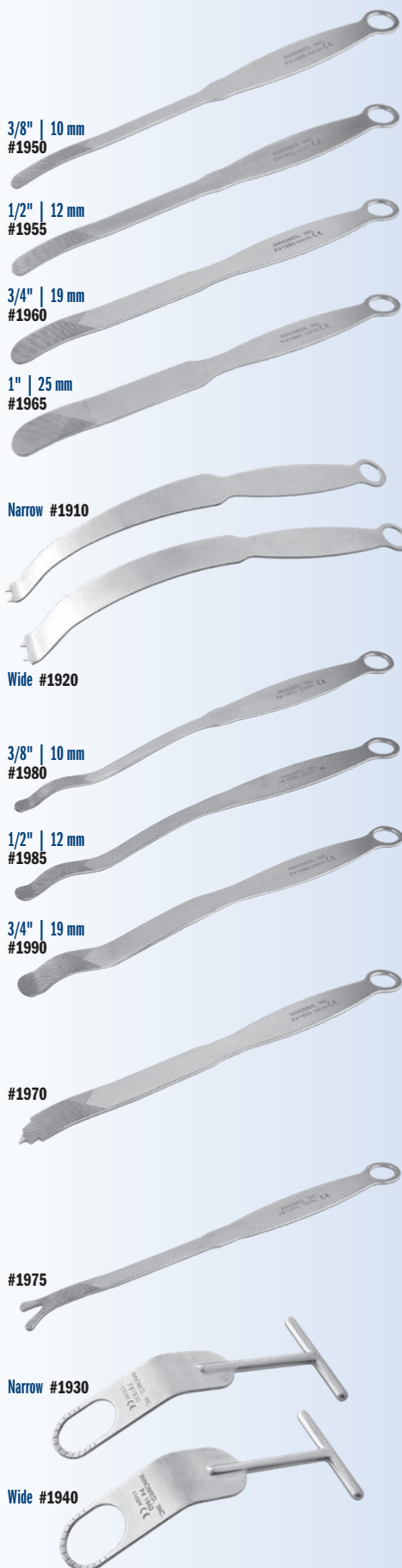
*Designed for inferior capsular release during shoulder arthroplasty and glenoid exposure*

The tapered freer end helps separate the axillary nerve and inferior capsule, even in difficult exposures. Non-conductive material allows the use of a bovie knife directly in the small channel cutting guide (on both sides). Reversible for right and left use.



PRODUCT NO:
<b>8029</b> Overall Length: 7.125" (18,1 cm) Width: 12 mm Thickness: 4 mm





## Modified Darrach-type Elevators

Available in four widths. Used for soft tissue retraction and exposure. May also be used to lever the humeral head inferiorly or superiorly and medially to expose the humeral head from the glenoid while dislocating the humeral head after subacromioclavicular removal. May also be used to retract the humeral shaft posteriorly to help expose the glenoid.



PRODUCT NO'S:	
<b>1950</b> [3/8" (10 mm)]	Blade Width: 10 mm Overall Length: 10.75" (27,3 cm)
<b>1955</b> [1/2" (13 mm)]	Blade Width: 12 mm Overall Length: 10.75" (27,3 cm)
<b>1960</b> [3/4" (19 mm)]	Blade Width: 19 mm Overall Length: 10.75" (27,3 cm)
<b>1965</b> [1.0" (25 mm)]	Blade Width: 25 mm Overall Length: 10.75" (27,3 cm)

## Thin Glenoid Retractors

Available in narrow and wide sizes. Used for retraction of the anterior and posterior aspects of the anterior and posterior glenoid rim.



PRODUCT NO'S:	
<b>1910</b> Narrow	Blade Width: 14 mm Overall Length: 11" (27,9 cm)
<b>1920</b> Wide	Blade Width: 22 mm Overall Length: 11" (27,9 cm)

## Posterior Glenoid Elevators

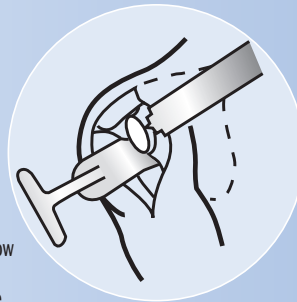
Available in three widths. Used to help expose the posterior aspect of the glenoid. The curved tip allows the elevator to fit on the posterior rim of the glenoid. The curve in the elevator contours to the humeral shaft for posterior retraction.



PRODUCT NO'S:	
<b>1980</b> [3/8" (10 mm)]	Blade Width: 10 mm Overall Length: 11" (27,9 cm)
<b>1985</b> [1/2" (13 mm)]	Blade Width: 12 mm Overall Length: 11" (27,9 cm)
<b>1990</b> [3/4" (19 mm)]	Blade Width: 19 mm Overall Length: 11" (27,9 cm)

## Spiked Darrach-type Elevator

The spiked elevator is used slightly below the anterior rim of the glenoid to help retract the labrum and anterior capsule.



PRODUCT NO:	
<b>1970</b> Narrow	Blade Width: 19 mm Overall Length: 10.75" (27,3 cm)

## Bicep Elevator

Used to help retract the biceps tendon superiorly. The two extensions allow the long head of the biceps to fit between them. The edges fit on the superior portion of the glenoid rim.



PRODUCT NO:	
<b>1975</b>	Blade Width: 25 mm Overall Length: 10.75" (27,3 cm)

## Modified Fukuda-type Retractors

Available in small and large sizes. Used to retract the humeral shaft posteriorly and helping to expose the entire glenoid surface.



PRODUCT NO'S:	
<b>1930</b> Narrow	Blade Width: 32 mm Opening: 25 x 40 mm Overall Length: 7.25" (18,4 cm)
<b>1940</b> Wide	Blade Width: 38 mm Opening: 32 x 40 mm Overall Length: 7.25" (18,4 cm)



## OrthoLucent™ Modified Fukuda-type Retractors

Used to retract the humeral shaft posteriorly, helping to expose the entire glenoid surface

The carbon fiber PEEK composite material is strong, lightweight, completely radiolucent, helps to prevent from marring component surfaces, and can be steam sterilized

### PRODUCT NO'S:

#### 1930-R [OrthoLucent™ Narrow]

Blade Width: 32 mm  
Opening: 25 x 40 mm  
Overall Length: 7.5" (19,1 cm)

#### 1940-R [OrthoLucent™ Wide]

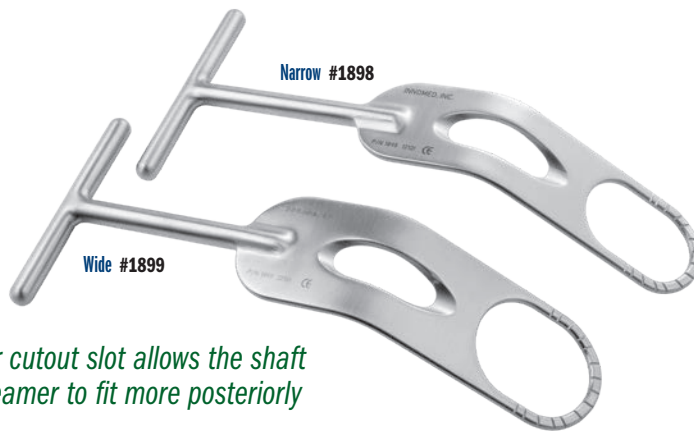
Blade Width: 38 mm  
Opening: 32 x 40 mm  
Overall Length: 7.5" (19,1 cm)

MADE EXCLUSIVELY  
FOR INNOVED IN  
SWITZERLAND



OrthoLucent™ Wide  
#1940-R

OrthoLucent™ Narrow  
#1930-R



Narrow #1898

Wide #1899

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

## Modified Fukuda-type Retractor with Reamer Slot

Designed by Richard J. Miller, MD

### PRODUCT NO'S:

#### 1898 [Narrow]

Overall Length: 7.25" (18,4 cm)  
Blade Width: 32 mm  
Opening: 25 x 40 mm

#### 1899 [Wide]

Overall Length: 7.25" (18,4 cm)  
Blade Width: 38 mm  
Opening: 32 x 40 mm



## Evans Modified Fukuda-type Retractors

Designed by Peter J. Evans, MD

Designed to retract the humeral shaft posteriorly, helping to expose the glenoid surface

Center groove allows a reamer shaft to fit more posteriorly.

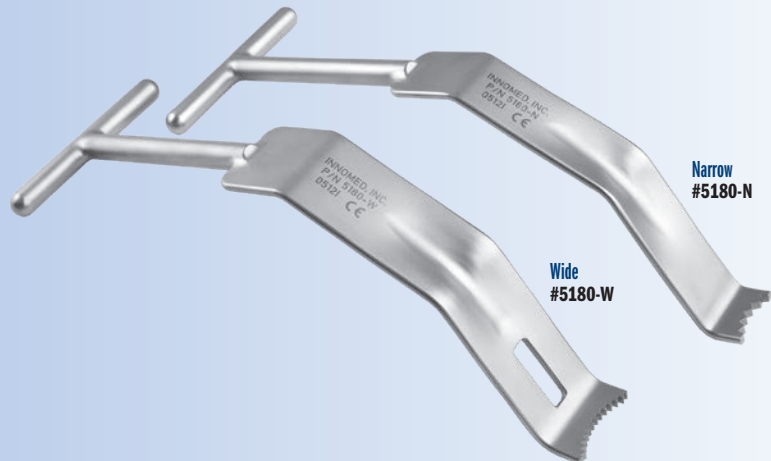
### PRODUCT NO'S:

#### 5180-N [Narrow]

Overall Length: 8.625" (21,9 cm)  
Blade Width: 1" (25,4 mm)  
Blade Depth: 3.75" (9,5 cm)

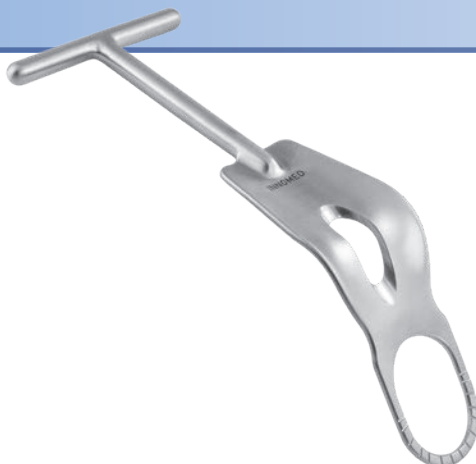
#### 5180-W [Wide]

Overall Length: 8.625" (21,9 cm)  
Blade Width: 1.25" (31,7 mm)  
Blade Depth: 3.75" (9,5 cm)



Narrow  
#5180-N

Wide  
#5180-W



## Modified Winged Fukuda Retractor

Designed by Scot Rheinecker, PA

Designed with flared edges for less pressure on soft tissues

### PRODUCT NO:

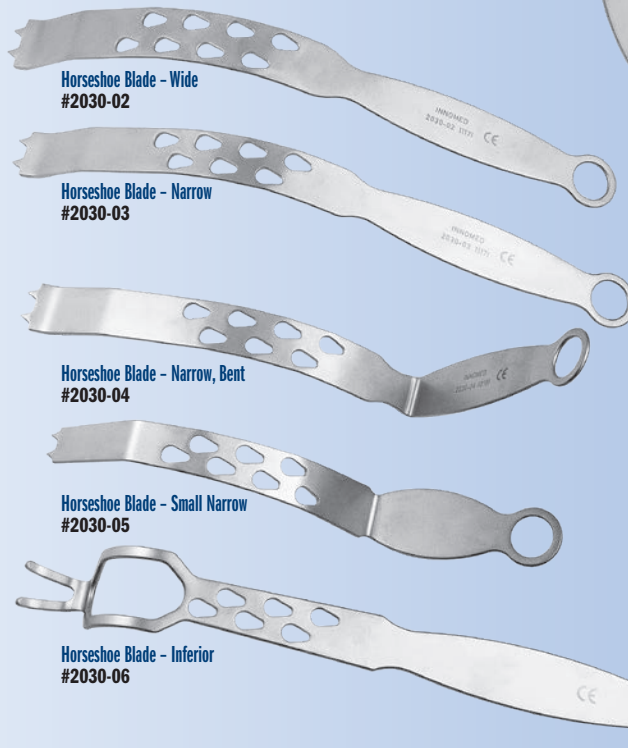
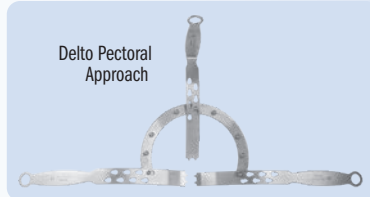
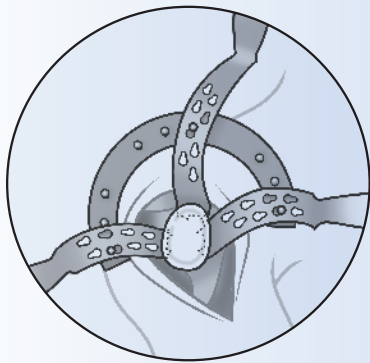
#### 1896

Overall Length: 7.5 (19,1 cm)  
Blade Width: 36 mm  
Opening: 29 x 40 mm



# Horseshoe Shoulder Frame and Blade Assembly

Designed to enhance exposure during shoulder arthroplasty procedures



PRODUCT NO'S:	
<b>2030-00</b> [Set]	Includes the frame and the five blades
<b>Also available individually:</b>	
<b>2030-01</b> [Horseshoe Frame]	Overall Dimensions: 7" x 5" (17,8 cm x 12,7 cm) Frame Width: .7" (15 mm)
<b>2030-02</b> [Blade - Wide]	Blade Width: 22 mm Overall Length: 11" (27,9 cm)
<b>2030-03</b> [Blade - Narrow]	Blade Width: 14 mm Overall Length: 11" (27,9 cm)
<b>2030-04</b> [Blade - Narrow, Bent]	Blade Width: 14 mm Overall Length: 10" (25,4 cm) Handle Length: 4.5" (11,4 cm)
<b>2030-05</b> [Blade - Small Narrow]	Blade Width: 16 mm Blade Depth: 2" (5,1 cm) Overall Length: 8.5" (21,6 cm)
<b>2030-06</b> [Blade - Inferior]	Blade Width: Outside 34 mm, Inside 24 mm Overall Length: 11.5" (29,2 cm) Prong Length: 28 mm



## Levy Anterior Glenoid Retractor

Designed by Jonathan Levy, MD

Designed to help alleviate tension on anterior glenoid structures and the handle is designed to optionally be clamped to the drape



**New!**

PRODUCT NO:	
<b>4536</b> [Small]	Overall Length: 10.5" (26,7 cm) Depth from Bend: 5.875" (14,9 cm) Blade Width: .75" (1,9 cm) Tooth Gap: .325" (8,2 mm)
<b>4536-01</b> [Medium]	Overall Length: 10.5" (26,7 cm) Depth from Bend: 5.875" (14,9 cm) Blade Width: 1" (2,54 cm) Tooth Gap: .42" (10,6 mm)
<b>4536-02</b> [Large]	Overall Length: 10.5" (26,7 cm) Depth from Bend: 5.875" (14,9 cm) Blade Width: 1.25" (3,2 cm) Tooth Gap: .55" (14 mm)



PRODUCT NO:	
<b>4852</b>	Overall Length: 9.375" (25,1 cm) Handle Length: 4.625" (11,7 cm) Blade Depth: 1.5" (3,8 cm) Blade Width at Widest: .325" (8,3 mm)



## Blount Retractor with Small Handle

Designed by Ronald Romanelli, MD

A blount retractor with a lightweight ergonomic handle designed for tissue retraction and closure assistance in knee, shoulder, and hip arthroplasty





## Rogozinski Glenoid Retractor

Designed by Chaim Rogozinski, MD

Designed with a unique ergonomic profile to help reduce retraction fatigue and place the assistant's hand out of surgical view, while the undersurface helps stabilize the humeral head to allow excellent visualization of the glenoid



**New!**

**PRODUCT NO:**

**4271**

Overall Length: 11.25" (28,6 cm)  
Blade Width: .7" (18 mm)  
Prongs Width: 3,4 mm  
Handle Width: 4.5" (11,4 cm)



## Rogozinski Glenoid Reaming Retractor

Designed by Chaim Rogozinski, MD

Designed to help expose the glenoid for reaming during total shoulder arthroplasty

**PRODUCT NO:**

**4277-01**

Overall Length: 11.25" (28,6 cm)  
Handle Width: 4.5" (11,4 cm)



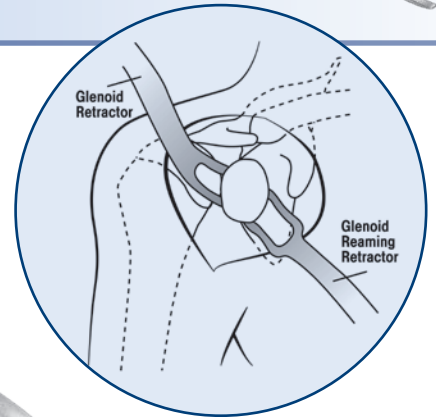
**New!**

**PRODUCT NO:**

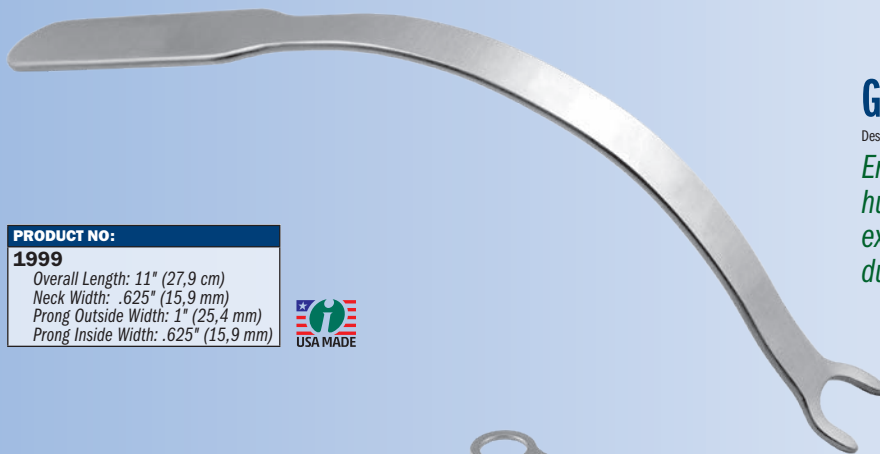
**4277-00 [Set]**



Set includes one Rogozinski Glenoid Retractor and one Rogozinski Glenoid Reaming Retractor.



#4277-01



## Gunther Glenoid Retractor

Designed by Stephen B. Gunther, MD

Ergonomic design helps to retract the humeral head posteriorly during glenoid exposure while avoiding reamer contact during shoulder replacement surgery

**PRODUCT NO:**

**1999**

Overall Length: 11" (27,9 cm)  
Neck Width: .625" (15,9 mm)  
Prong Outside Width: 1" (25,4 mm)  
Prong Inside Width: .625" (15,9 mm)



## Modified Darrach-type Bent Elevator

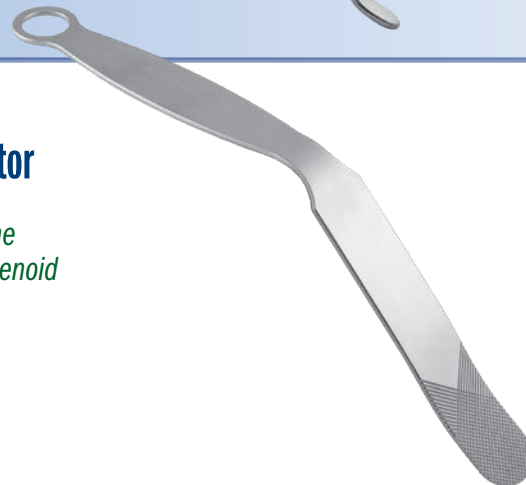
Designed modification by R.L. Stowell, MD of original design by Evan Flatow, MD

Designed for difficult glenoid exposure, the elevator is placed around the posterior glenoid rim, retracting the cut humeral surface

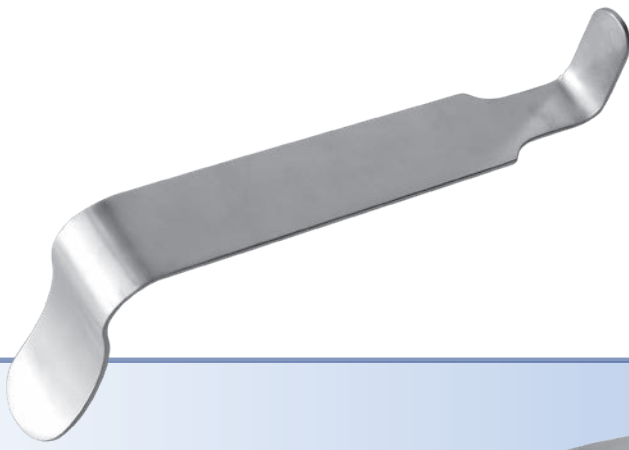
**PRODUCT NO:**

**1966**

Overall Length: 10" (25,4 cm)  
Blade Depth: 5" (12,7 cm)  
Blade Width: 1" (2,54 cm)



◀ Serrated on both sides



## Deltoid Retractor

*Fits easily under the acromion, deltoid and over the humeral head*

► Used in most open procedures

**PRODUCT NO:**  
**T1001**  
 Width: 30 mm  
 Overall Length: 8" (20,3 cm)



## Humeral Head Retractor

*Placed between the glenoid and the humeral head to obtain excellent exposure*

**PRODUCT NO:**  
**T1007**  
 Blade Width: 33 mm  
 Prong Width: 6 mm | 21 mm Gap | 6 mm  
 Overall Length: 7" (17,8 cm)

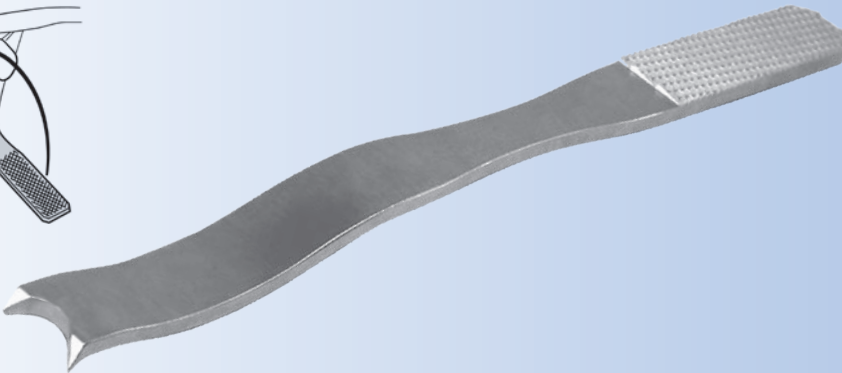
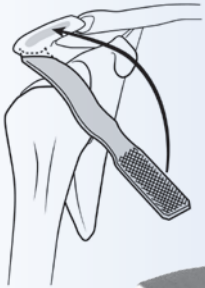
MADE FOR INNOMED IN GERMANY

## Hope Retractor

Designed by Charles A. Hope, MD

*Useful in shoulder surgery*

**PRODUCT NO:**  
**5838**  
 Overall Length: 11" (27,9 cm)  
 Blade Width: 1" (2,54 cm)



## Acromioplasty Retractor

*Designed to retract and protect the humeral head during resection of the inferior acromial surface*

The two prongs hook the posterior aspect of the acromion for retraction. The file is used to smooth rough edges of the acromion post-resection.

**PRODUCT NO:**  
**S3008**  
 Overall Length: 9" (22,9 cm)  
 Blade Width: 18 mm



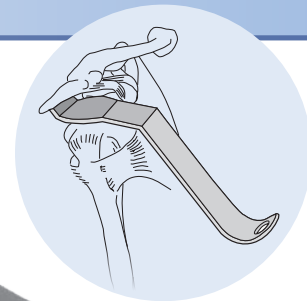
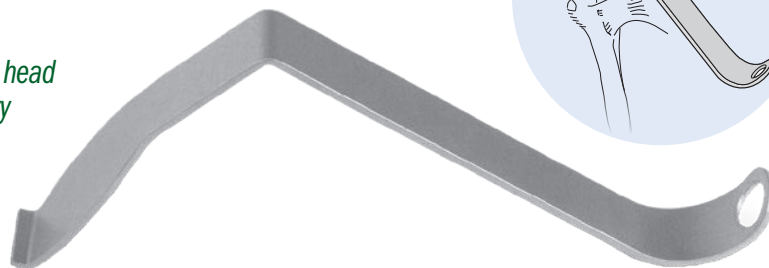
## Kirschenbaum Acromioplasty Retractor

Designed by Ira Kirschenbaum, MD

*Helps to protect both the posterior aspect of the shoulder and the articular surface of the humeral head during open acromioplasty and rotator cuff surgery*

Designed to fit under the posterior edge of the acromion and lever the humeral head down out of the way.

**PRODUCT NO:**  
**5840**  
 Overall Length: 9.25" (23,5 cm)  
 Blade Width at Tip: 21 mm





## Capsule Retractors

### Retractors for use in Bankart surgery

The single prong retractor is commonly used when retracting on the inferior rim of the glenoid. The two and three-prong retractors are designed to be placed medially along the scapular neck to retract the anterior capsule and labrum.

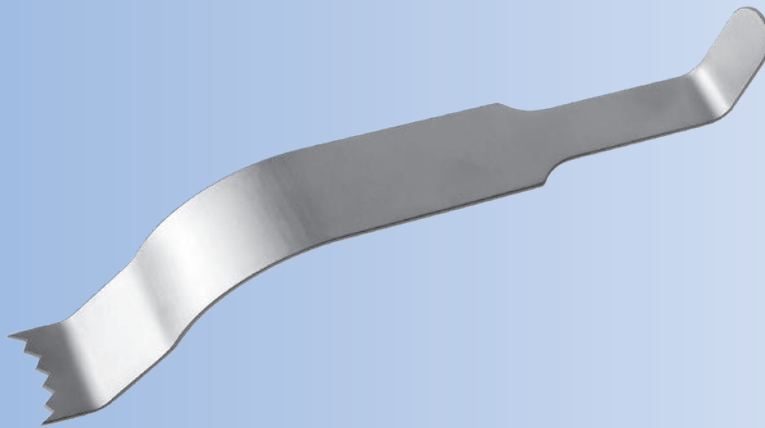
PRODUCT NO'S:	
<b>T1008-01</b>	[3 Prongs] Overall Length: 10" (25,4 cm) Prong Length: 30 mm
<b>T1008</b>	[2 Prongs] Overall Length: 10" (25,4 cm) Prong Length: 30 mm
<b>T1009</b>	[1 Prong] Overall Length: 10" (25,4 cm) Prong Length: 30 mm



3 Prongs #T1008-01

2 Prongs #T1008

1 Prong #T1009



## Posterior Glenoid Neck Retractor

Used during osteotomy of the humeral head and approaches to the glenoid

- ▶ Designed to allow one finger retraction
- ▶ Contours to allow teeth to fit behind the glenoid, retracting tissue for easy access to the glenoid

PRODUCT NO:	
<b>T1002</b>	Width: 30 mm Overall Length: 10" (25,4 cm)

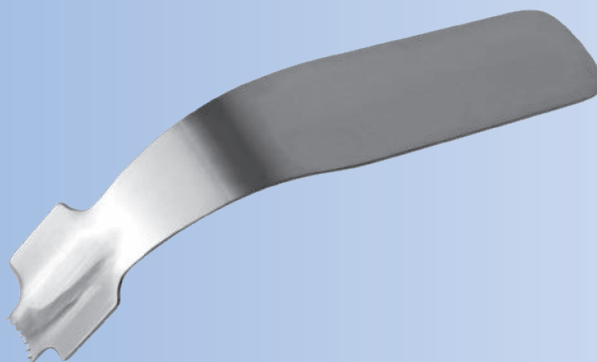


## Anterior Glenoid Neck Retractor

Teeth are specifically designed to retract the subscapularis and capsule medially during a Bankart procedure

- ▶ The wide midsection retracts the soft tissue during anterior glenoid work
- ▶ The curved handle allows the assistant to use minimal pressure to achieve exposure

PRODUCT NO:	
<b>T1003</b>	Width: 25 mm Overall Length: 11" (27,9 cm)



## Goldstein Glenoid Neck Retractor

Placed along the glenoid rim during open Bankart procedure to allow excellent exposure

- ▶ The convex teeth sit easily into the glenoid rim while the strong end of the shaft allows the instrument to stay out of the surgeons view

PRODUCT NO:	
<b>T1004</b>	Blade Width at Teeth: 18 mm Blade Width at Widest: 36 mm Overall Length: 8.5" (21,6 cm)



## Angled Glenoid Retractor

Designed by R.L. Stowell, MD

*Flared design allows for atraumatic placement circumferentially about the glenoid – superior, anterior and inferior – during open shoulder procedures for retraction of the subscapularis and capsule and to facilitate labral work*

### PRODUCT NO'S:

#### 1901-N [Narrow]

Overall Length: 10" (25,4 cm)

Blade Width at End Tapers from: 1" to .4" (2,5 to 1 cm)

#### 1901-W [Wide]

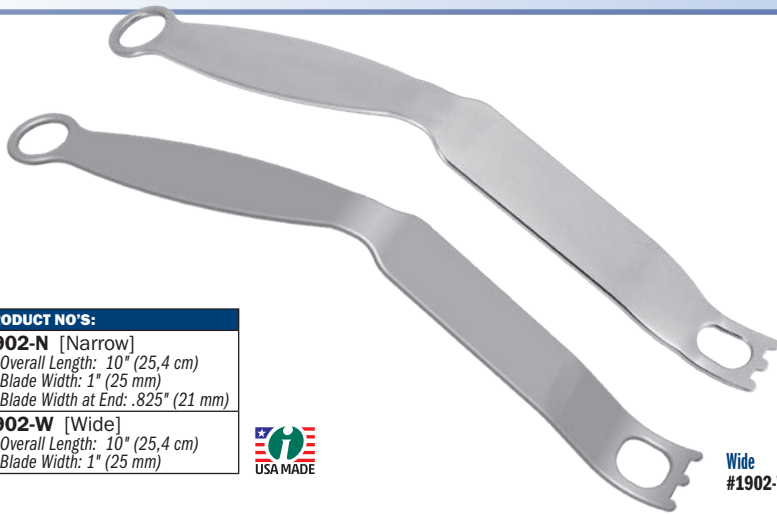
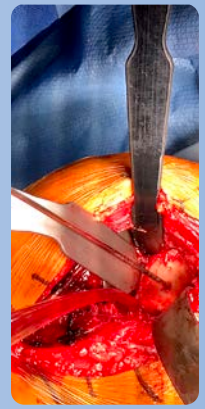
Overall Length: 10" (25,4 cm)

Blade Width at End Tapers from: 1" to .625" (2,5 to 1,6 cm)



Narrow  
#1901-N

Wide  
#1901-W



### PRODUCT NO'S:

#### 1902-N [Narrow]

Overall Length: 10" (25,4 cm)

Blade Width: 1" (25 mm)

Blade Width at End: .825" (21 mm)

#### 1902-W [Wide]

Overall Length: 10" (25,4 cm)

Blade Width: 1" (25 mm)



Narrow  
#1902-N

Wide  
#1902-W

## Angled Glenoid Retractor – Forked

Designed by R.L. Stowell, MD

*Designed to help with exposure of the difficult glenoid and facilitation of glenosphere placement for reverse arthroplasty, with wide and narrow versions to accommodate most glenoid variations*

Specifically designed bend allows the retractor to sit along the posterior aspect and deliver the glenoid vault into the surgical field while retracting the humeral head posterior and lateral without excessive force on the glenoid neck, while the working end of the design allows reaming and peripheral bone removal without binding on the reamer.

## Burkhead Glenoid Retractor

Designed by Wayne Burkhead, MD

*The retractor bar presses against the glenoid while the end of the retractor puts pressure on the posterior capsule*

### PRODUCT NO'S:

#### 5839 [Large]

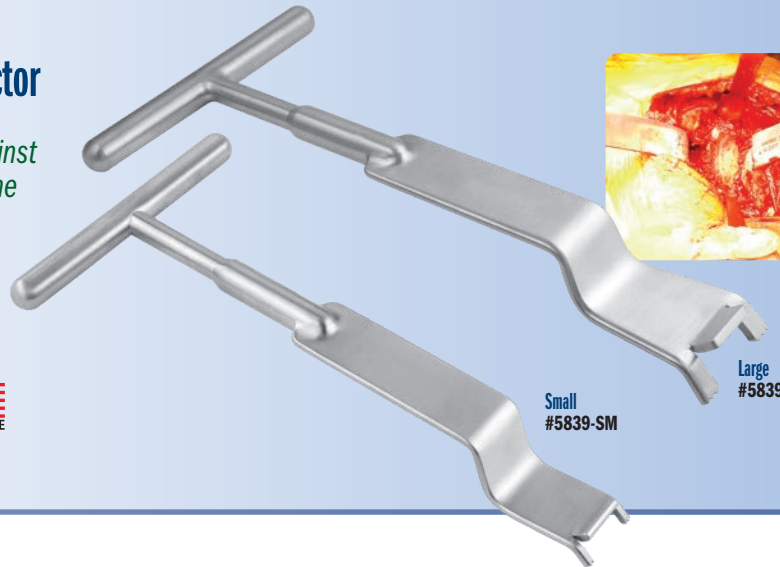
Overall Length: 9.125" (23,2 cm)

Blade Width at End: 1.5" (3,8 cm)

#### 5839-SM [Small]

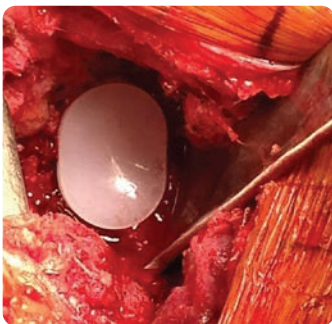
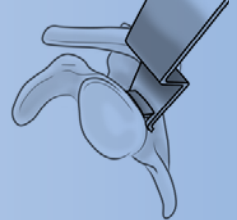
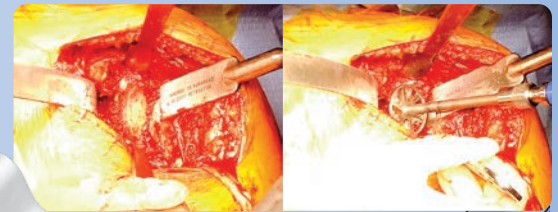
Overall Length: 8.75" (22,2 cm)

Blade Width at End: 1" (2,54 cm)



Small  
#5839-SM

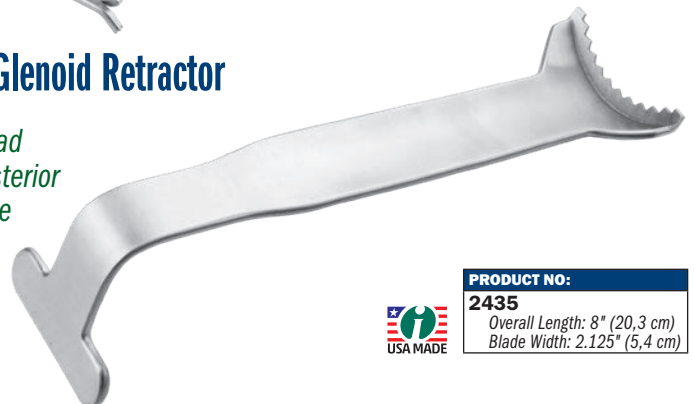
Large  
#5839



## George Semi-Circumferential Glenoid Retractor

Designed by Michael S. George, MD

*Designed to depress the humeral head and retract tissue away from the posterior half of the glenoid, helping to improve exposure for the preparation and placement of the glenoid component in total shoulder arthroplasty*



### PRODUCT NO:

2435

Overall Length: 8" (20,3 cm)

Blade Width: 2.125" (5,4 cm)



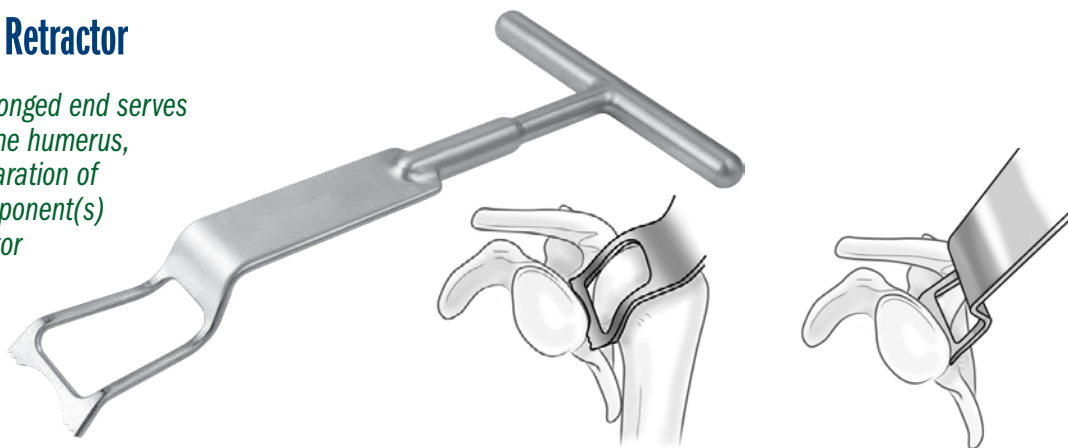


## Burkhead Reversible TSA/RSA Retractor

Designed by Wayne Burkhead, Jr, MD

Unique shape, angles and double pronged end serves to push the posterior capsule, and the humerus, away from the glenoid to allow preparation of the glenoid and implantation of component(s) without having to remove the retractor

**PRODUCT NO:**  
**5839-01**  
Overall Length: 9.125" (23,2 cm)  
Blade Width at End: 1.5" (3,8 cm)

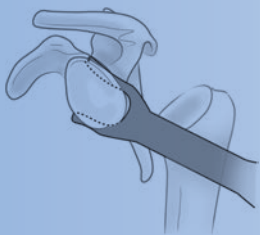


## Bacastow Glenoid Retractors

Designed by David Bacastow, MD

Designed for glenoid exposure, particularly for reverse shoulder replacement applications, where it is important to get inferiorly

Allows visualization and direct access to the glenosphere base plate through a deltopectoral incision with intact pectoralis major insertion.

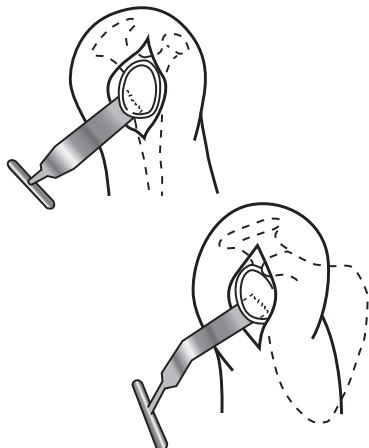


Right  
#1897-R

Left  
#1897-L



**PRODUCT NO'S:**  
**1897-L** [Left]  
Overall Length: 11.75" (29,8 cm)  
**1897-R** [Right]  
Overall Length: 11.75" (29,8 cm)



## Agrawal Talon Retractor

Designed by Vivek Agrawal, MD

Designed to help facilitate glenoid exposure in total shoulder arthroplasty

**PRODUCT NO:**  
**4695**  
Overall Length: 7.875" (20 cm)  
Blade Width: 40.7 mm



## Glenosphere Component Retractor

Designed by Tim Seachris

Designed for use in total and reverse shoulder arthroplasty

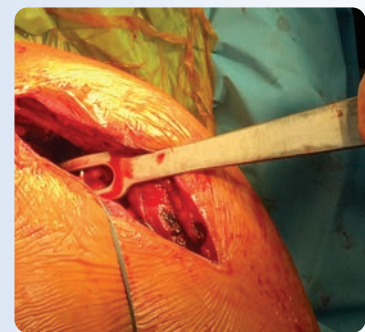
Coated version helps to protect component surfaces.

Coated Prongs #5841

Uncoated Prongs #5841-01



**PRODUCT NO:**  
**5841** [Coated End]  
Overall Length: 10.25" (26,7 cm)  
Blade Width: .9375" (2,4 cm)  
**5841-01** [Uncoated End]  
Overall Length: 10.25" (26,7 cm)  
Blade Width: .9375" (2,4 cm)



## Modified Humeral Head Retractors

Designed to help lever and displace the proximal humerus posteriorly

**PRODUCT NO:**

**2436** [Deep]  
Overall Length: 10" (25,4 cm)  
Blade Width: 26 mm

**2437** [Shallow]  
Overall Length: 11" (30 cm)  
Blade Width: 26 mm



**PRODUCT NO:**

**1909**  
Overall Length: 13.2" (33,5 cm)  
Access Hole Internal Diameter: 36 X 30 mm



## Mehalik Posterior Glenoid Retractor with Long Handle

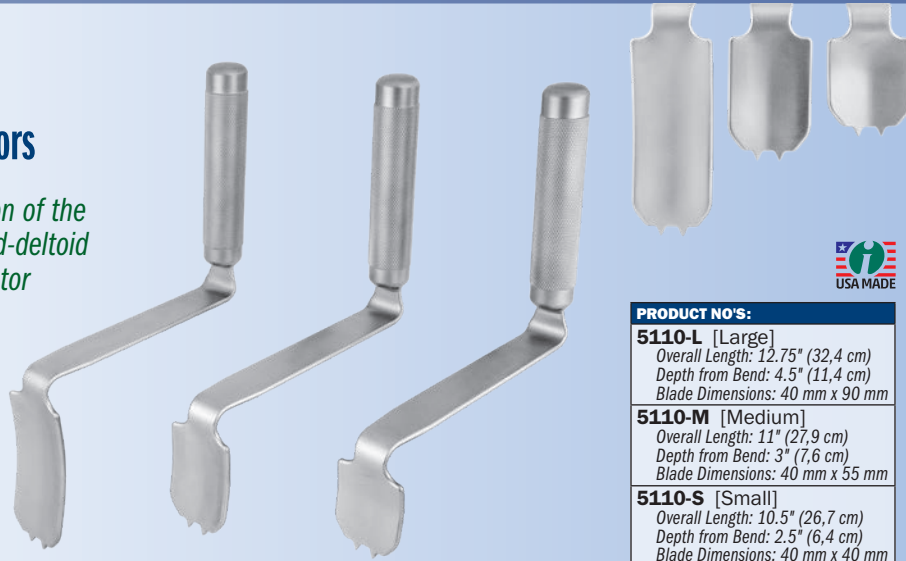
Designed in collaboration with Mayo Clinic, modified by John Mehalik, MD.

Designed to help expose the posterior aspect of the glenoid

## Weatherly Mini-Deltoid Retractors

Designed by Wallace Weatherly, MD

Designed for the retraction of the deltoid in a mini-open mid-deltoid splitting approach to rotator cuff surgery, the offset handle helps allow clear visualization of the surgical field, and the ergonomic non-slip handle surface helps prevent fatigue in the operative team



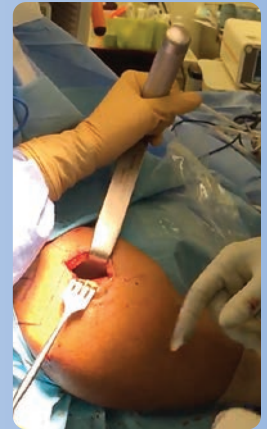
Large #5110-L      Medium #5110-M      Small #5110-S

**PRODUCT NO'S:**

**5110-L** [Large]  
Overall Length: 12.75" (32,4 cm)  
Depth from Bend: 4.5" (11,4 cm)  
Blade Dimensions: 40 mm x 90 mm

**5110-M** [Medium]  
Overall Length: 11" (27,9 cm)  
Depth from Bend: 3" (7,6 cm)  
Blade Dimensions: 40 mm x 55 mm

**5110-S** [Small]  
Overall Length: 10.5" (26,7 cm)  
Depth from Bend: 2.5" (6,4 cm)  
Blade Dimensions: 40 mm x 40 mm



## Chandler Retractor

Used for retracting tissue away from the bone

The handle is contoured away from the field of view and working area.

Available in three blade sizes: 5/8", 3/4", and 1".

Carbon fiber material is strong, lightweight, completely radiolucent, helps to prevent from scratching component surfaces, and can be steam sterilized.



5/8" | 15,9 mm #3220-01  
3/4" | 19 mm #3220-02  
1" | 25,5 mm #3220-04

OrthoLucent® 3/4" | 15,9 mm #3220-02R\*

**PRODUCT NO'S:**

**3220-01** [5/8"]  
Overall Length: 9.125" (23,5 cm)  
Blade Width: 16 mm

**3220-02** [3/4"]  
Overall Length: 9.125" (23,5 cm)  
Blade Width: 19 mm

**3220-04** [1"]  
Overall Length: 9.125" (23,5 cm)  
Blade Width: 25.4 mm

**3220-02R\*** [OrthoLucent 3/4"]  
Overall Length: 9.125" (23,5 cm)  
Blade Width: 19 mm







## Browne Deltoid Retractor

Used for the Delto-Pectoral Approach – the small deep version is designed for use in large patients

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

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**PRODUCT NO'S:**  
**1670-01** [Small]  
 Blade Width: 45 mm  
 Overall Length: 11.5" (29,2 cm)

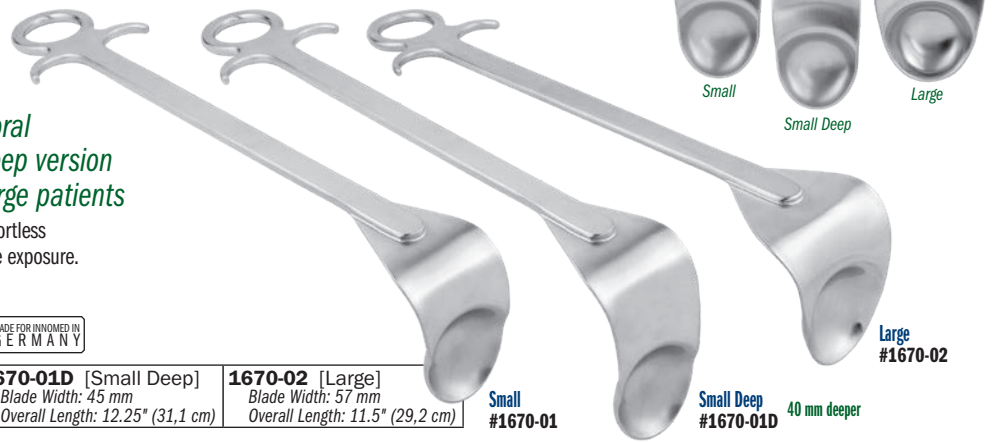
**1670-01D** [Small Deep]  
 Blade Width: 45 mm  
 Overall Length: 12.25" (31,1 cm)

**1670-02** [Large]  
 Blade Width: 57 mm  
 Overall Length: 11.5" (29,2 cm)

Small  
 #1670-01

Small Deep  
 #1670-01D 40 mm deeper

Large  
 #1670-02



## Kaminsky OrthoLucent™ Browne-type Deltoid Retractors

Used for the Delto-Pectoral Approach—can remain in place for fracture reduction, plate positioning, and screw/wire/drill location confirmation

Used for acromioplasty, rotator cuff repair, and fracture fixation. Contours the humeral head with deltoid retraction allowing extensive exposure. Helps to reduce operative time, assist in fracture reduction, and maintain hardware position without the frequent need for retractor removal and reintroduction.

Carbon fiber PEI composite material is strong, lightweight, completely radiolucent, can be steam sterilized, and helps to prevent from marring component surfaces.

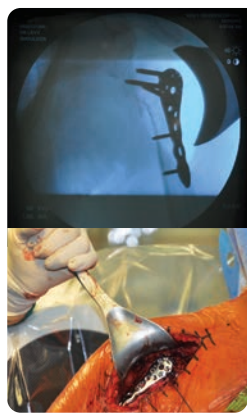
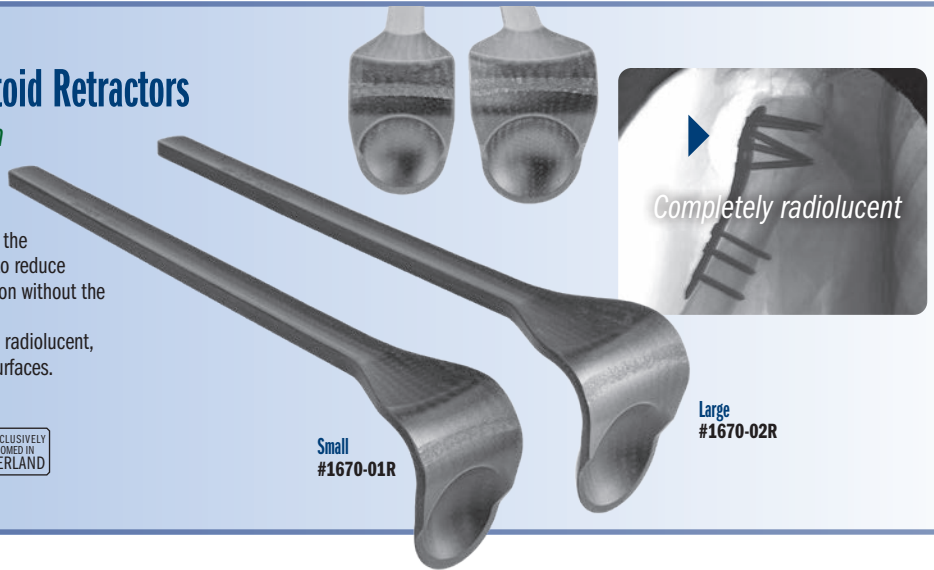
**PRODUCT NO'S:**  
**1670-01R** [Small]  
 Blade Width: 4,5 cm  
 Overall Length: 10.5" (26,7 cm)

Designed by Sean B. Kaminsky, MD  
**1670-02R** [Large]  
 Blade Width: 5,4 cm  
 Overall Length: 10.5" (26,7 cm)

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Small  
 #1670-01R

Large  
 #1670-02R



## Levy Wide Deltoid Retractor

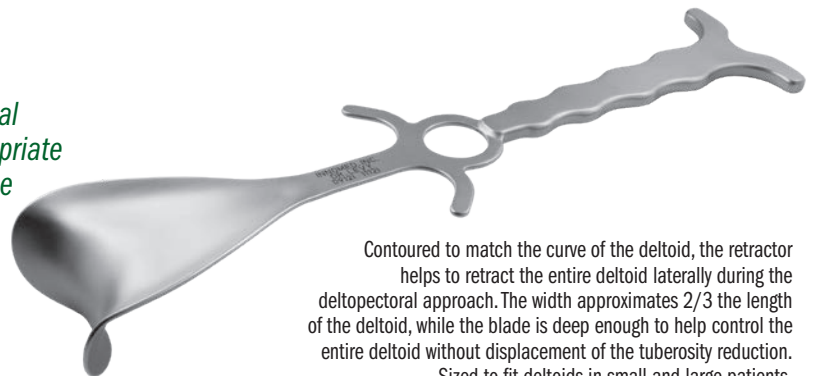
Designed by Jonathan Levy, MD

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

Patent Pending

**PRODUCT NO:**  
**1672**  
 Overall Length: 11.75" (29,8 cm)  
 Blade at Widest: 2.5" (6,4 cm)  
 Blade Depth: 1.375" (3,5 cm)

USA MADE



Contoured to match the curve of the deltoid, the retractor helps to retract the entire deltoid laterally during the deltopectoral approach. The width approximates 2/3 the length of the deltoid, while the blade is deep enough to help control the entire deltoid without displacement of the tuberosity reduction. Sized to fit deltoids in small and large patients.



**PRODUCT NO:**  
**3222**  
 Overall Length: 7.5" (19,1 cm)  
 Blade Width at Widest: 1" (2,54 cm)

USA MADE

## Bolanos Shoulder Retractor

Designed by Alberto Bolanos, MD

Designed for mini-open rotator cuff repairs and shoulder arthroplasty, the contour matches the humeral head and the rounded edge helps avoid trauma to surrounding musculature

Depth matches girth of most patients, while the comfortable handle makes it easier for assistants to hold.

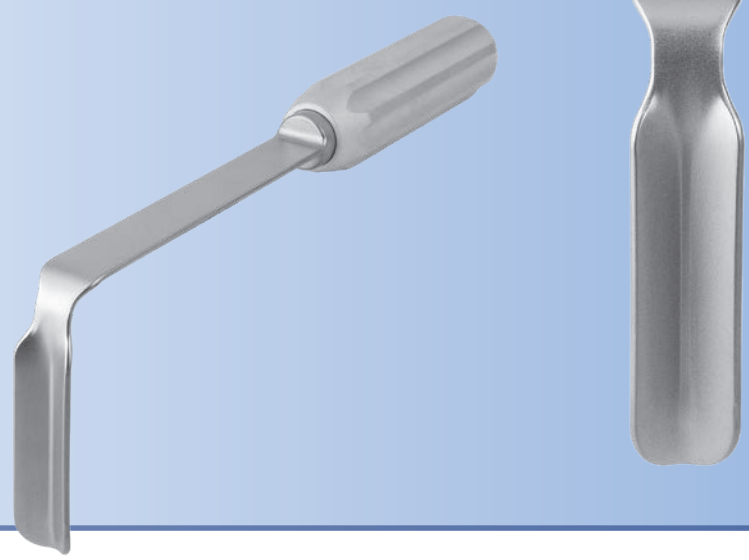
# McFarland Shoulder V Retractor

Designed by Edward McFarland, MD

*Designed to provide deep access to the glenoid rim when performing a subscapularis splitting approach to the shoulder*

Fluted to enhance visualization and room when placing sutures in the capsular flaps prior to placing three prong retractors.

PRODUCT NO:
<b>4851</b>
Overall Length: 9" (22,9 cm)
Length To Bend: 8.5" (21,6 cm)
Handle Length: 4" (10,2 cm)
Blade Depth: 2.75" (7 cm)
Blade Width: .625" (1 cm)



# McFarland Malleable Shoulder Retractors

Designed by Edward McFarland, MD

*Designed to enhance exposure in shoulder procedures*



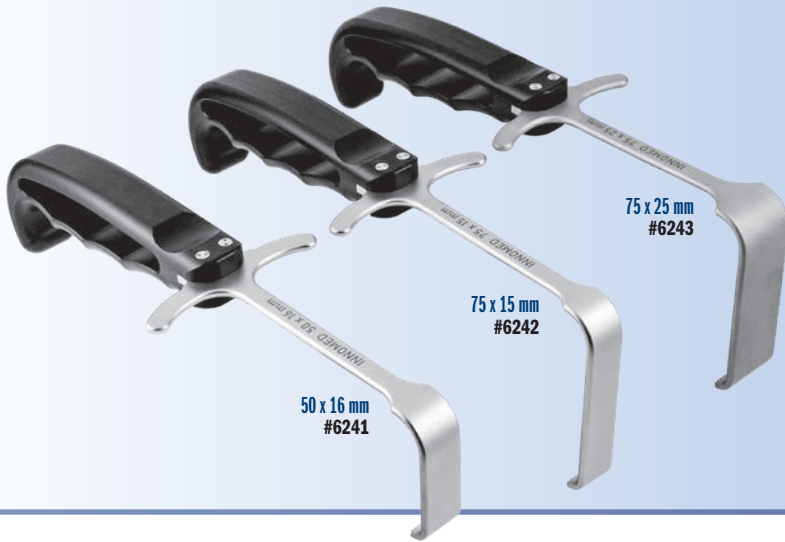
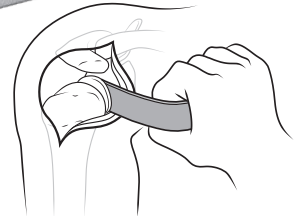
PRODUCT NO'S:
<b>4537-00</b> [Set of Three Sizes]
<b>Also available individually:</b>
<b>4537-01</b> [Narrow Deep] Overall Length: 15.5" (39,4 cm) Prong Depth: 10 mm
<b>4537-02</b> [Narrow Shallow] Overall Length: 15.5" (39,4 cm) Prong Depth: 6.8 mm
<b>4537-03</b> [Wide] Overall Length: 15.5" (39,4 cm) Prong Depth: 13.5 mm



Narrow Deep #4537-01

Narrow Shallow #4537-02

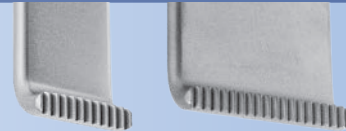
Wide #4537-03



50 x 16 mm  
#6241

75 x 15 mm  
#6242

75 x 25 mm  
#6243



Non-glare finish featured on the metal retractor parts.

# Meyerding Type Retractors with Ergonomic Handle

*Designed for general use soft tissue retraction, the ergonomic handle allows for a better grip and less fatigue*

PRODUCT NO'S:
<b>6241</b> [50 x 16 mm] Overall Length: 8.875" (22,5 cm) Blade Width: 16 mm Blade Depth: 50 mm
<b>6242</b> [75 x 15 mm] Overall Length: 9" (22,9 cm) Blade Width: 15 mm Blade Depth: 75 mm
<b>6243</b> [75 x 25 mm] Overall Length: 9" (22,9 cm) Blade Width: 25 mm Blade Depth: 75 mm



3-Prong  
#4839

4-Prong  
#4840

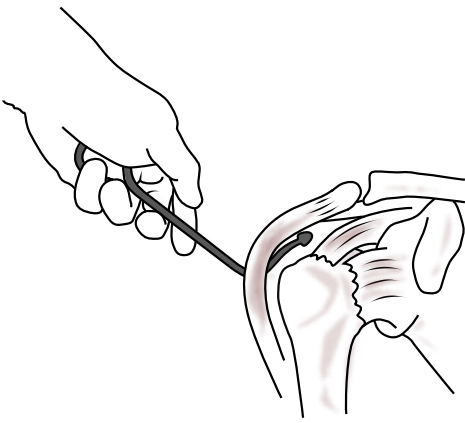
*Designed for general use soft tissue retraction*

# Rake Retractors with Ergonomic Handle

PRODUCT NO'S:
<b>4839</b> [3-Prong] Overall Length: 9.5" (24,1 cm) Rake Width: 13 mm Rake Depth: 14 mm
<b>4840</b> [4-Prong] Overall Length: 9.5" (24,1 cm) Rake Width: 19 mm Rake Depth: 14 mm



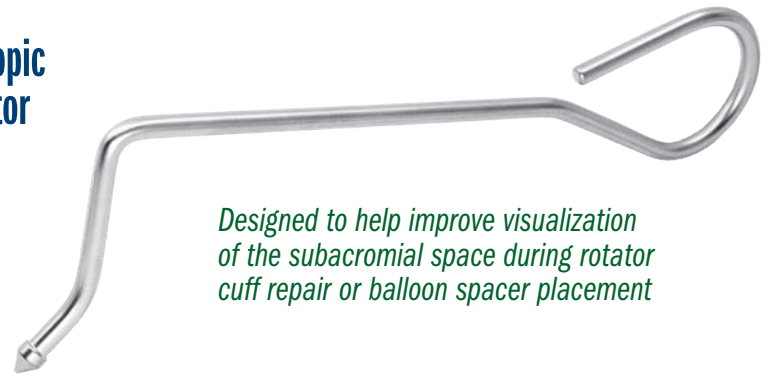




## Bacastow Arthroscopic Deltoid Lift Retractor

Designed by David Bacastow, MD

**PRODUCT NO:**  
**5081**  
 Overall Length: 7.5" (19,1 cm)  
 Depth from Bend: 2.25" (5,7 cm)  
 Shaft Diameter: 4,7 mm  
 Diameter at End: 6 mm



*Designed to help improve visualization of the subacromial space during rotator cuff repair or balloon spacer placement*



**PRODUCT NO:**  
**3431**  
 Overall Length: 9.5" (24,1 cm)  
 Length from Bend: 3.5" (8,9 cm)  
 Cobb End Width: .8" (20 mm)  
 Angle of Bend: 30°



## McFarland Bent Cobb Elevator

Designed by Edward McFarland, MD

*Designed for retraction while helping to protect the axillary nerve in shoulder surgery*

Ultra hard titanium nitride coating helps to prolong sharpness.

## Humeral Protection Plates

Designed by Ronald E. Delanois, MD

*Helps protect the proximal humerus from fracture after humeral head osteotomy*

Plate is placed on the proximal humerus after the initial osteotomy of the humeral head for total shoulder replacement. Helps protect the proximal humerus from fracture as the humerus is retracted to gain visualization of the glenoid to prepare it for a glenoid implant.

50 mm  
 #5259-02



Flat Top

Spiked Bottom



46 mm  
 #5259-01

**PRODUCT NO'S:**  
**5259-01** [46 mm]  
**5259-02** [50 mm]

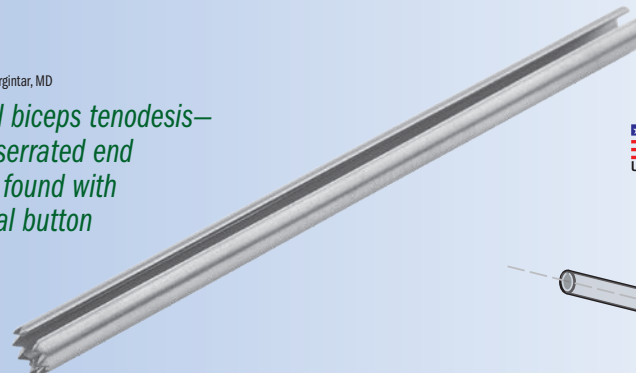


## Argintar Biceps Tenodesis Sleeve

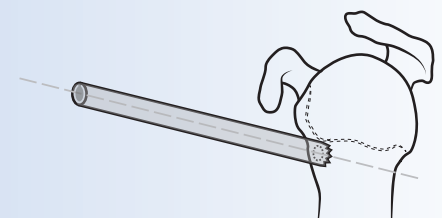
Designed by Evan Argintar, MD

*Designed to help facilitate mini-open sub-pectoral biceps tenodesis—by maintaining the trajectory of the drill with the serrated end of the sleeve, the drilled humeral holes are easily found with standard percutaneous placement of the bicortical button*

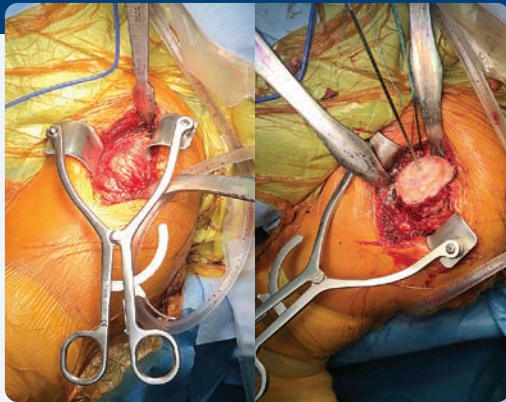
Once flipped, the slotted cut out in the sleeve makes detachment of the button applicator possible, helping with efficient and reproducible mini-open biceps tenodesis using button technique.



**PRODUCT NO:**  
**5835**  
 Overall Length: 4" (10,2 cm)  
 External Diameter: 6,35 mm  
 Internal Diameter: 5 mm  
 Slot: 2,75 mm



# Kolbel Self-Retaining Glenoid Retractors



## Kolbel Self-Retaining Retractor Blades



### Wide Blades

36 x 36 mm #T1018    36 x 53 mm #T1019    36 x 68 mm #T1020    36 x 85 mm #T1021



### Radiolucent Blade ▶

Carbon fiber PEEK blade is strong, lightweight, completely radiolucent, can be steam sterilized, and also helps to prevent from marring component surfaces.

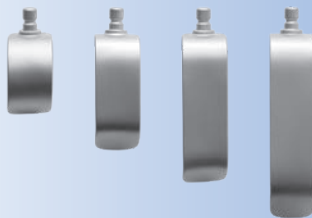
36 x 53 mm  
#T1019-R\*

\*  
MADE EXCLUSIVELY  
FOR PROSPECTS IN  
SWITZERLAND



### Narrow Blades

20 x 36 mm #T1022    20 x 53 mm #T1023    20 x 68 mm #T1024    20 x 85 mm #T1025



**New!**

## Knurled Blades for Kolbel Self-Retaining Retractors

### Knurled Wide Blades

36 x 36 mm #T1018-K  
36 x 53 mm #T1019-K  
36 x 68 mm #T1020-K  
36 x 85 mm #T1021-K

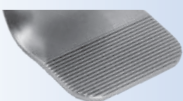


### Knurled Narrow Blades

20 x 36 mm #T1022-K  
20 x 53 mm #T1023-K  
20 x 68 mm #T1024-K  
20 x 85 mm #T1025-K



Designed with a knurled underside to help prevent the blades from slipping



## Modified Kolbel Self-Retaining Glenoid Retractor with Hinge

Sets include (1) Retractor, (1) Pair of 36 x 36 mm Blades (T1018-P), and (1) Pair of 36 x 53 mm Blades (T1019-P)



### PRODUCT NO'S:

T1014-01 [Set - Standard Handle]  
T1014-01-2F [Set - Ergonomic Handle]

### Set Includes:

T1015-01 [Retractor - Standard Handle]  
Overall Length: 8.25" (21 cm)  
Length-to-hinge: 6" (15,2 cm)  
Arm Length: 2.25 (5,7 cm)

- OR -

T1015-01-2F [Retractor - Ergonomic Handle]  
Overall Length: 9.25" (23,5 cm)  
Length-to-hinge: 7" (17,8 cm)  
Arm Length: 2.25 (5,7 cm)

T1018-P [Blades-Pair] 36 mm X 36 mm

T1019-P [Blades-Pair] 36 mm X 53 mm



Standard Handle Retractor Set #T1014-01

Ergonomic Handle Retractor Set #T1014-01-2F

Ergonomic handle for added control and comfort

## Kolbel Self-Retaining Glenoid Retractor

Sets include (1) Retractor, (1) Pair of 36 x 36 mm Blades (T1018-P), and (1) Pair of 36 x 53 mm Blades (T1019-P)



### PRODUCT NO'S:

T1014 [Set - Standard Handle]  
T1014-2F [Set - Ergonomic Handle]

### Set Includes:

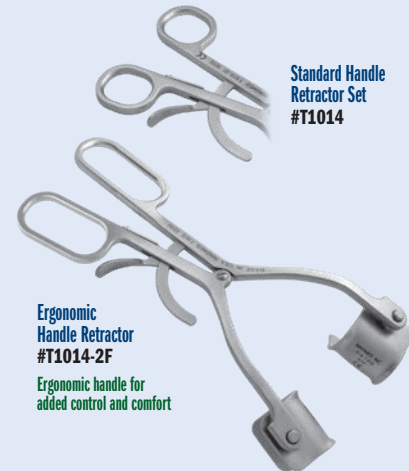
T1015 [Retractor - Standard Handle]  
Overall Length: 8.25" (21 cm)

- OR -

T1015-2F [Retractor - Ergonomic Handle]  
Overall Length: 9.25" (23,5 cm)

T1018-P [Blades-Pair] 36 mm X 36 mm

T1019-P [Blades-Pair] 36 mm X 53 mm



Standard Handle Retractor Set #T1014

Ergonomic Handle Retractor #T1014-2F

Ergonomic handle for added control and comfort

## Kolbel Self-Retaining Glenoid Retractor with Center Blade

Center blade can be reversed for shallow or deep retraction

Sets include (1) Retractor, (1) Pair of 36 x 36 mm Blades (T1018-P), and (1) Pair of 36 x 53 mm Blades (T1019-P)



### PRODUCT NO'S:

T1050 [Set - Standard Handle]  
T1050-2F [Set - Ergonomic Handle]

### Set Includes:

T1050-01 [Retractor - Standard Handle]  
Overall Length: 8" (20,3 cm)

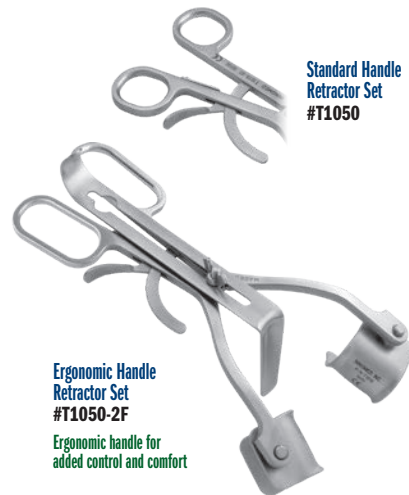
- OR -

T1050-01-2F [Retractor - Ergonomic Handle]  
Overall Length: 9" (22,9 cm)

T1050-02 [Center Blade]  
Length-to-bend: 6.25" (15,9 cm)  
Depth: 2.5" (6,4 cm)

T1018-P [Blades-Pair] 36 mm X 36 mm

T1019-P [Blades-Pair] 36 mm X 53 mm



Standard Handle Retractor Set #T1050

Ergonomic Handle Retractor Set #T1050-2F

Ergonomic handle for added control and comfort

## Kolbel Self-Retaining Retractor

Set includes (1) Retractor, (1) Pair of 36 x 36 mm Blades (T1018-P), and (1) Pair of 36 x 53 mm Blades (T1019-P)

### PRODUCT NO'S:

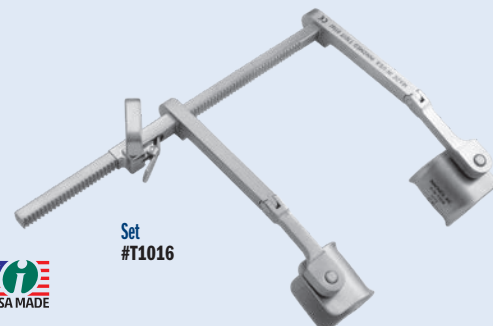
T1016 [Set]

### Set Includes:

T1017 [Retractor]  
Overall Length: 8.25" (21 cm)  
Arm Length: 6.125" (15,6 cm)  
Arm Length-to-hinge: 3" (7,6 cm)

T1018-P [Blades-Pair] 36 mm X 36 mm

T1019-P [Blades-Pair] 36 mm X 53 mm

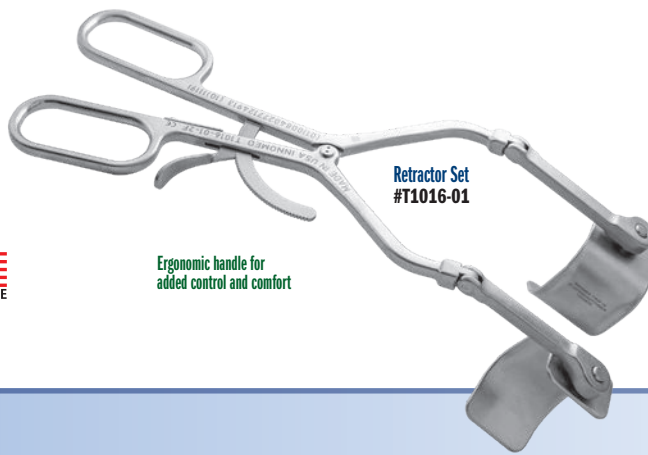


Set #T1016



Set includes (1) Retractor, (1) Pair of 36 x 36 mm Blades (T1018-P), and (1) Pair of 36 x 53 mm Blades (T1019-P)

PRODUCT NO'S:	
<b>T1016-01</b>	[Set]
<b>Set Includes:</b>	
<b>T1016-01-2F</b>	[Retractor] Overall Length: 9.25" (23,5 cm) Length-to-hinge: 7" (17,8 cm) Arm Length: 2.25 (5,7 cm)
<b>T1018-P</b>	[Blades-Pair] 36 mm X 36 mm
<b>T1019-P</b>	[Blades-Pair] 36 mm X 53 mm



Retractor Set  
#T1016-01

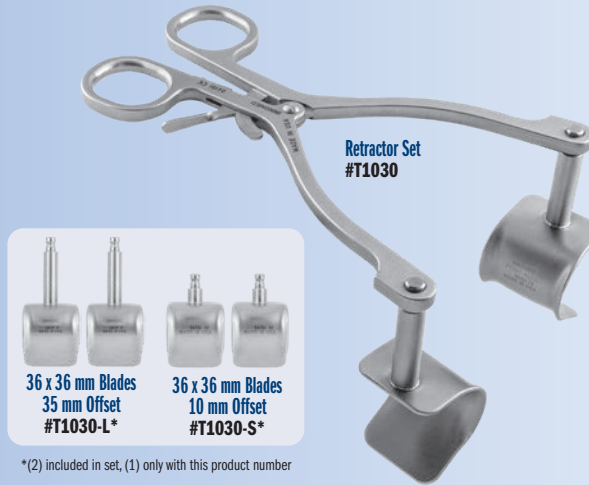
Ergonomic handle for added control and comfort

## Kolbel Self-Retaining Glenoid Retractor with Hinge and Double Ergonomic Handle

## Durham Offset Kolbel Shoulder Retractor Set

Designed for retraction of the deltoid and under the short head of the biceps muscle to expose the shoulder, the longer offset blades are useful in patients with large muscles, and the shorter offset blades are useful in smaller elderly patients

Snap-in, freely pivoting smooth curved blades help to concentrate the forces on the center of the muscle bellies, allowing the retractor to remain centered and not get in the way of exposure.



Retractor Set  
#T1030



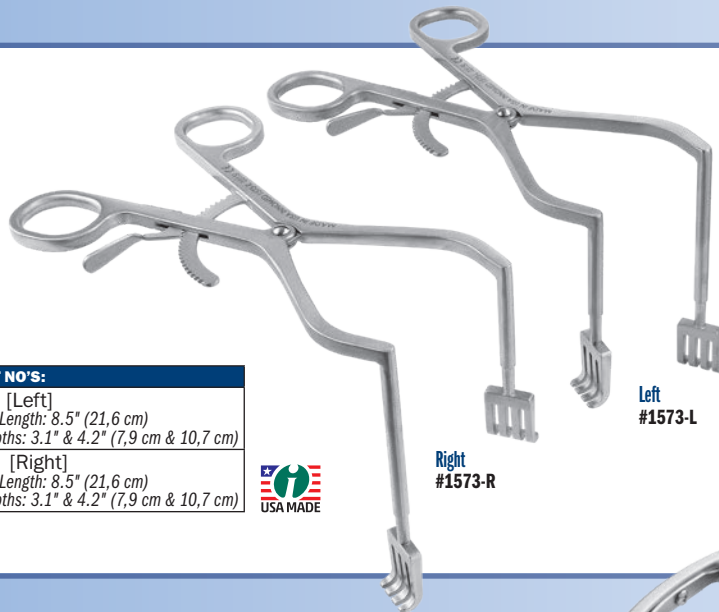
36 x 36 mm Blades  
35 mm Offset  
#T1030-L\*

36 x 36 mm Blades  
10 mm Offset  
#T1030-S\*

\*(2) included in set, (1) only with this product number

PRODUCT NO'S:	
<b>T1030</b>	[Set] Set includes: (1) T1030-01, (2) T1030-L, (2) T1030-S
<b>Also available individually:</b>	
<b>T1030-01</b>	[Retractor Handle] Overall Length: 7" (17,8 cm)
<b>T1030-L</b>	[Long Offset Blade] (2) included in set, (1) only with this product number Offset Length: 35 mm Blade Dimensions: 36 x 36 mm
<b>T1030-S</b>	[Short Offset Blade] (2) included in set, (1) only with this product number Offset Length: 10 mm Blade Dimensions: 36 x 36 mm

Designed by Alfred A. Durham, MD



## Durham Offset Zelpi Retractor

Designed by Alfred Durham, MD

Staggered depth retractor designed for exposure during total hip and total shoulder surgery

- ▶ In hip surgery, with the handle towards the surgeon, the longer leg is on the inside
- ▶ In shoulder surgery, with the handle downward, the longer leg is on the outside
- ▶ The longer leg extends 1.1" (2,8 cm) deeper

PRODUCT NO'S:	
<b>1573-L</b>	[Left] Overall Length: 8.5" (21,6 cm) Leg Depths: 3.1" & 4.2" (7,9 cm & 10,7 cm)
<b>1573-R</b>	[Right] Overall Length: 8.5" (21,6 cm) Leg Depths: 3.1" & 4.2" (7,9 cm & 10,7 cm)



Left  
#1573-L

Right  
#1573-R

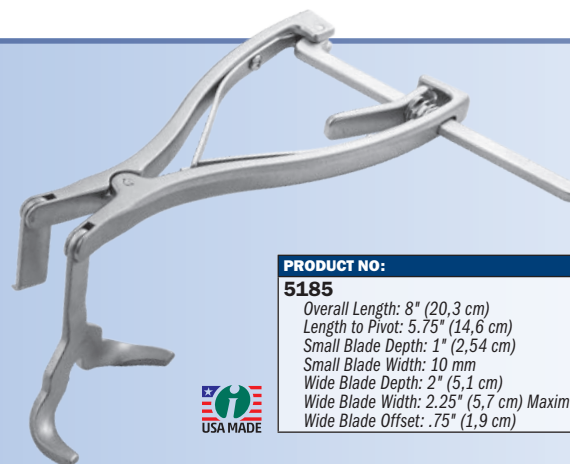


## Bacastow Shoulder Capsular Retractor

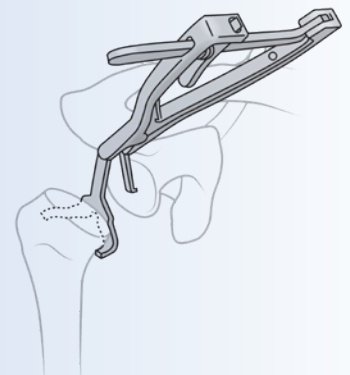
Designed by David Bacastow, MD

Designed to help place tension on the inferior capsule for improved visualization and dissection when performing anatomic or reverse shoulder replacement

Rotating arms allow left or right use. Can be used in conjunction with Axillary Nerve Retractor with Suction (#8739 - Page 4) for additional safety.



PRODUCT NO:	
<b>5185</b>	
Overall Length: 8" (20,3 cm) Length to Pivot: 5.75" (14,6 cm) Small Blade Depth: 1" (2,54 cm) Small Blade Width: 10 mm Wide Blade Depth: 2" (5,1 cm) Wide Blade Width: 2.25" (5,7 cm) Maximum Wide Blade Offset: .75" (1,9 cm)	



## Gerber Sub-Acromion Spreaders

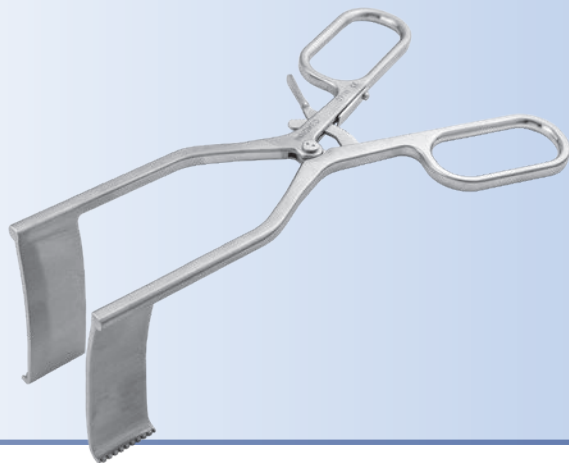
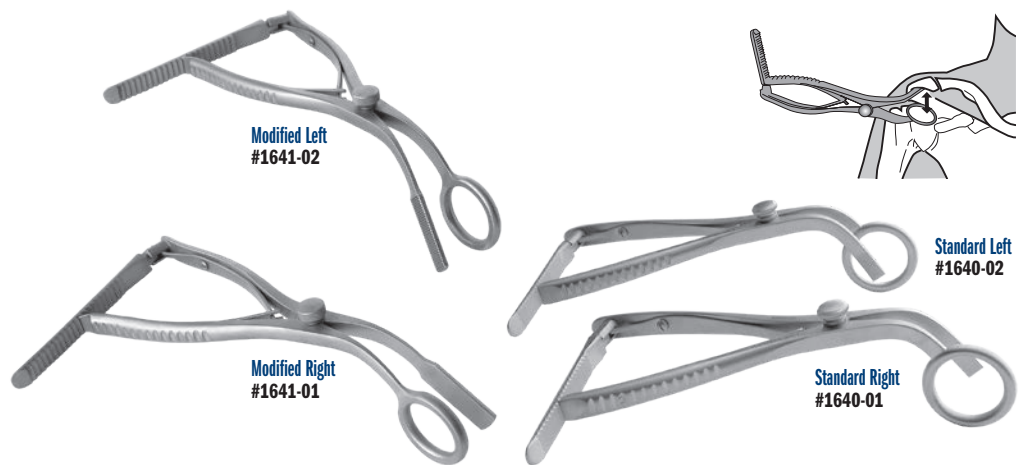
*Designed to gain optimal access to the subacromion space*

Designed to gain optimal access to the subacromion space by distracting inferiorly the humeral head from the acromion.

### PRODUCT NO'S:

Standard	Modified
<b>1640-01</b> [Right] Blade Length: 19 mm Inside Ring Dia.: 32 mm Overall Length: 7" (17,8 cm)	<b>1641-01</b> [Right] Blade Length: 34 mm Inside Ring Dia.: 25 mm Overall Length: 7" (17,8 cm)
<b>1640-02</b> [Left] Blade Length: 19 mm Inside Ring Dia.: 32 mm Overall Length: 7" (17,8 cm)	<b>1641-02</b> [Left] Blade Length: 34 mm Inside Ring Dia.: 25 mm Overall Length: 7" (17,8 cm)

MADE EXCLUSIVELY FOR INNOMED IN GERMANY



## Deep Meyerding Retractor with Ergonomic Handle

*A self-retaining soft tissue retractor for use in hip, knee, and shoulder surgery*

### PRODUCT NO:

**6244**  
Overall Length: 8.5" (21,6 cm)  
Blade Depth: 3.5" (8,9 cm)  
Blade Width: 1" (2,54 cm)

MADE EXCLUSIVELY FOR INNOMED IN GERMANY

## Subscapularis Spreader

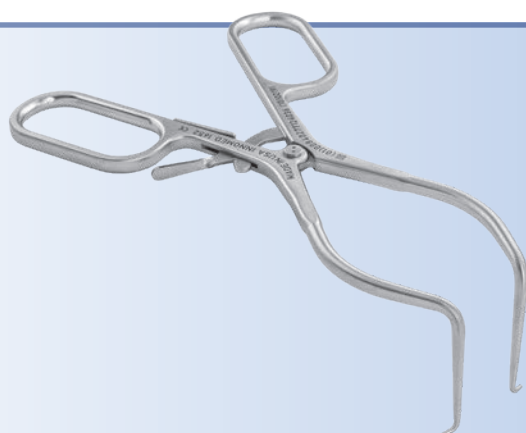
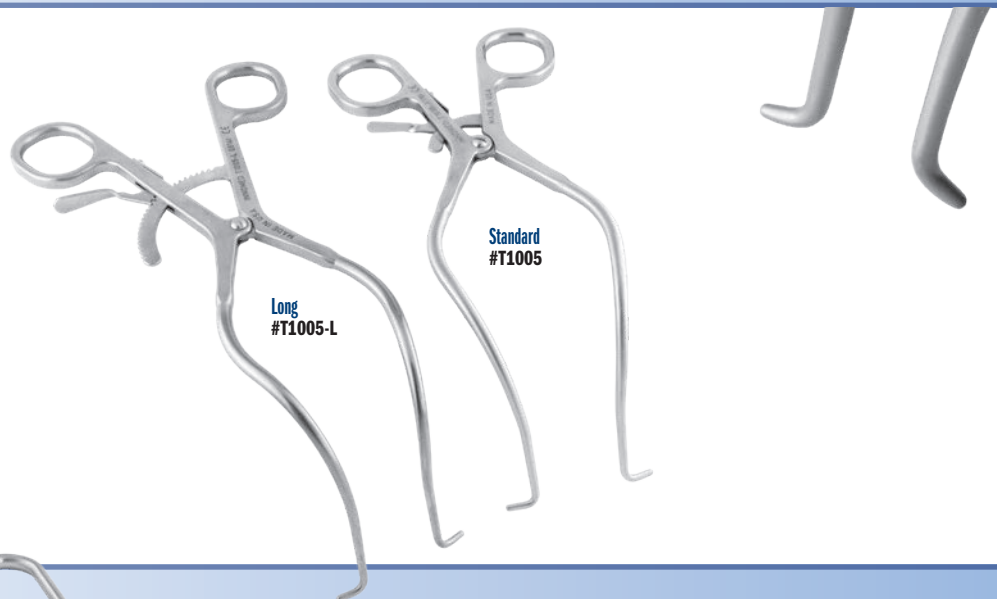
*Reaches deep to help split the subscapularis in a Jobe approach*

Also used for retracting a split deltoid in mini rotator cuff repairs.

### PRODUCT NO'S:

**T1005** [Standard]  
Overall Length: 8.375" (21,3 cm)

**T1005-L** [Long]  
Overall Length: 9.25" (23,5 cm)



## Right Angled Subscapular Spreader – Blunt Tips

Designed by Edward McFarland, MD

*Designed to hold the subscapularis muscle open when performing a subscapularis split approach to the glenoid*

### PRODUCT NO:

**1652**  
Overall Length: 7.5" (19,1 cm)  
Blade Depth: 2" (5,1 cm)



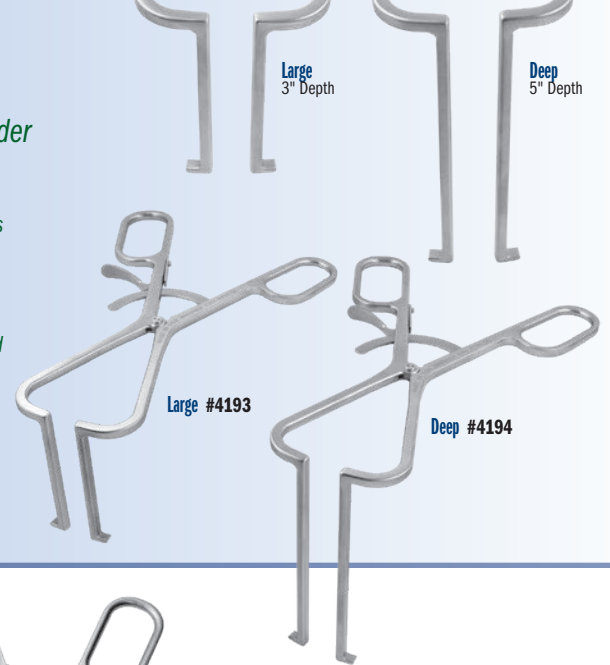


## Flat Gelpi Retractors

Designed to help retract a broader area of soft tissue or muscle

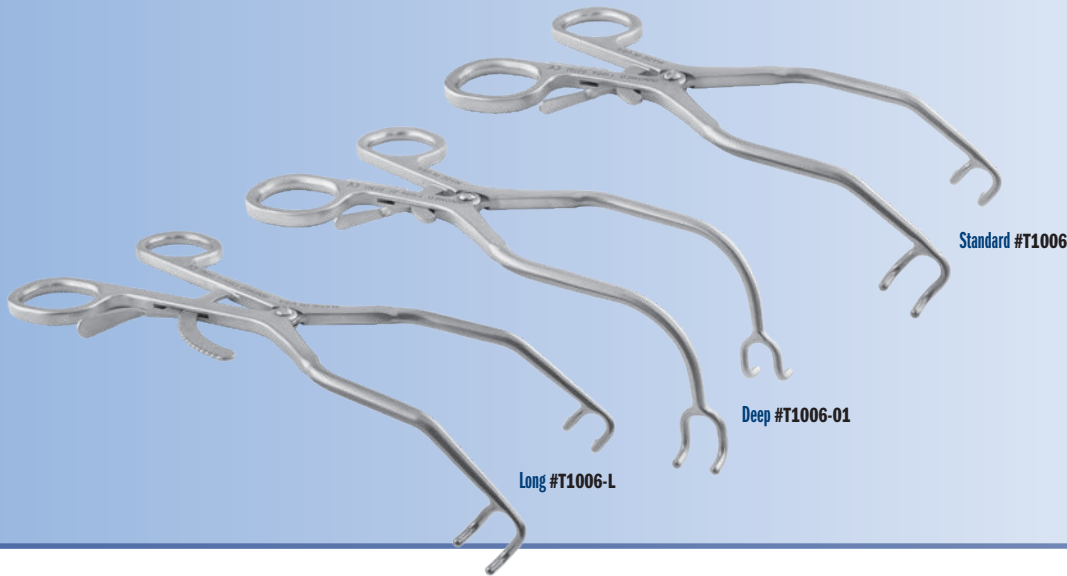
PRODUCT NO'S:	
<b>4191</b> [Small]	Overall Length: 6.5" (16,5 cm) Prong Depth: 1.25" (3,2 cm)
<b>4192</b> [Medium]	Overall Length: 7.25" (18,4 cm) Prong Depth: 1.75" (4,4 cm)
<b>4193</b> [Large]	Overall Length: 9" (22,9 cm) Prong Depth: 3" (7,6 cm)
<b>4194</b> [Deep]	Overall Length: 10" (24,4 cm) Prong Depth: 5" (12,7 cm)

The two largest sizes feature an ergonomic handle for increased comfort and control.



## Gelpi Retractors

PRODUCT NO'S:	
<b>4180</b> [Standard]	Overall Length: 7.75" (19,7 cm)
<b>4181</b> [With Ergonomic Handle]	Overall Length: 8.75" (22,2 cm)



## Kolbel Soft Tissue Retractors

Helps in the early phase to retract soft tissue comprising of the gleno-humeral joint

Use facilitates the introduction of deeper retractors which are required for sufficient visibility of the glenoid, acromion and rotator cuff.

PRODUCT NO'S:	
<b>T1006</b> [Standard]	Overall Length: 8" (20,3 cm)
<b>T1006-01</b> [Deep]	Overall Length: 7.5" (19,1 cm)
<b>T1006-L</b> [Long]	Overall Length: 8.5" (21,6 cm)



## Havens Modified Kolbel Soft Tissue Retractor

Designed by Philip Havens, MD

Designed for retraction on deltoid split incisions on mini-open rotator cuff repairs

Jaws and arms are parallel with no gap when closed to allow easier insertion in tight spaces.



PRODUCT NO:	
<b>T1006-02</b>	Overall Length: 7.5" (19,1 cm) Opens To: 4.5" (11,4 cm) Prong Depth: 18 mm





## Burkhead Glenoid Inserter

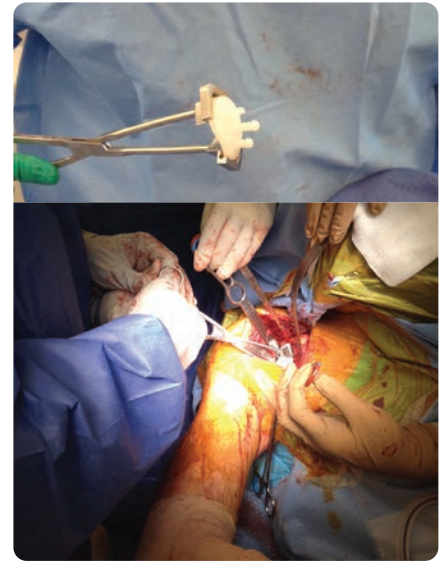
Designed by Wayne Burkhead, Jr, MD, Michael Radon, and Aaron Merges

*Designed to help insert a glenoid component*

**PRODUCT NO:**

**4689**

Overall Length: 9.875" (25,1 cm)



## Coated Inserter for Reverse Shoulder Glensphere Components

Designed by Michael Radon, Ilya Voloshin, MD, and Nathan Mineo

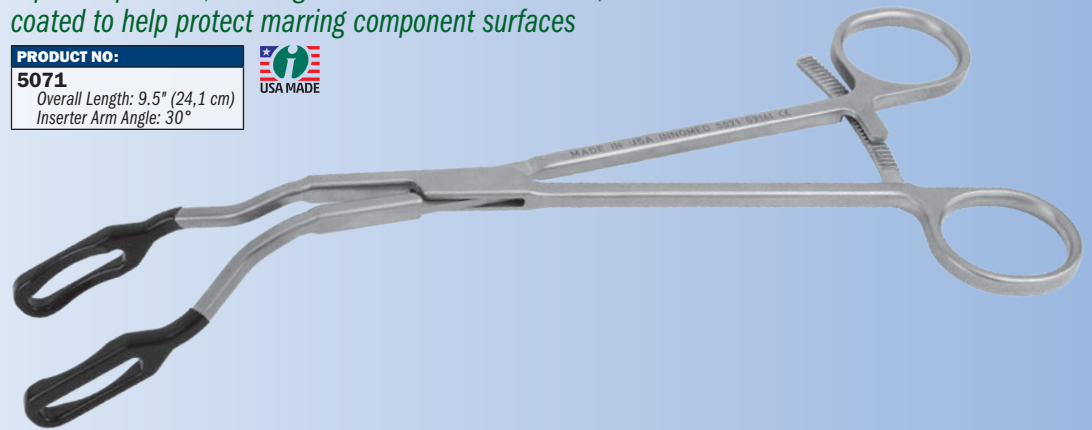
*Designed to aid in the insertion of glenspheres in limited exposure patients, allowing for insertion from the side, and coated to help protect marring component surfaces*

**PRODUCT NO:**

**5071**

Overall Length: 9.5" (24,1 cm)

Inserter Arm Angle: 30°

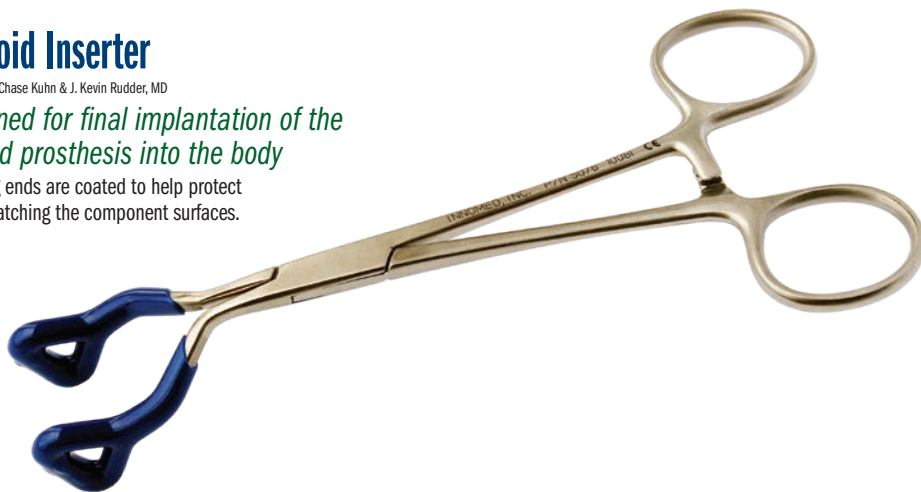


## Glenoid Inserter

Designed by Chase Kuhn & J. Kevin Rudder, MD

*Designed for final implantation of the glenoid prosthesis into the body*

Grasping ends are coated to help protect from scratching the component surfaces.



**PRODUCT NO:**

**5076**

Overall Length: 8.5" (21,6 cm)



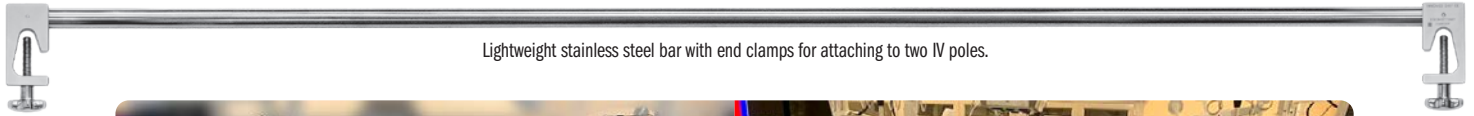
# Wiater Shoulder Drape Crossbar

Designed by J. Michael Wiater, MD, FAAOS, FAOA

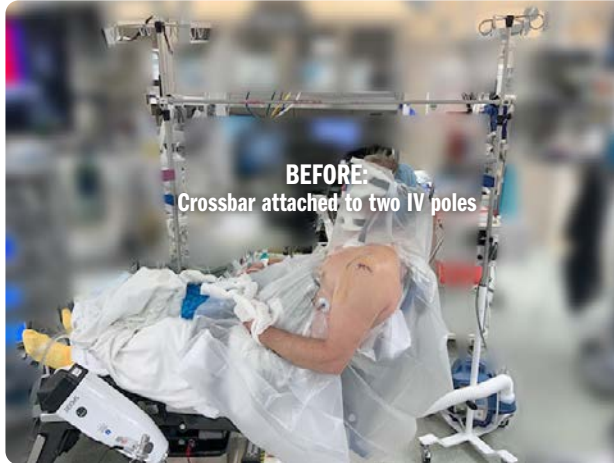
Designed for use during shoulder surgery in the beach chair position or during other surgical procedures to support and keep the surgical drapes away from the surgical site, maintain a sterile field, and help to allow the anesthesia provider good access to the airway

**New!**

**PRODUCT NO:**  
**2417**  
Overall Length: 60" (152,4 cm)



Lightweight stainless steel bar with end clamps for attaching to two IV poles.



**BEFORE:**  
Crossbar attached to two IV poles



**AFTER:**  
Draped for surgical site access.



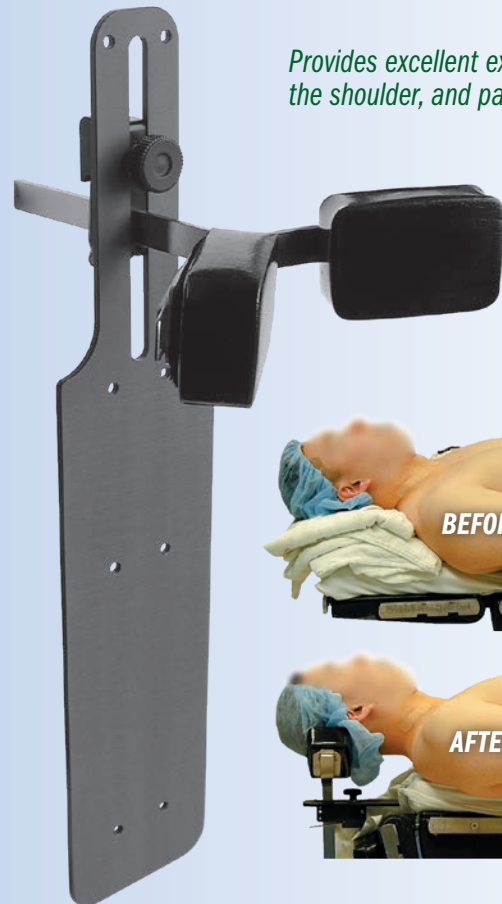
## Nicholson Headrest

Designed by Gregory Nicholson, MD

Helps position the patient for all types of shoulder surgery in the beachchair position

Designed to provide excellent exposure to the shoulder, the headrest can be used with standard OR tables (with no modifications to the table). The headrest provides patient support and helps position the patient for all types of shoulder surgery—arthroscopic and open—in the beachchair position. It can be quickly placed and adjusted.

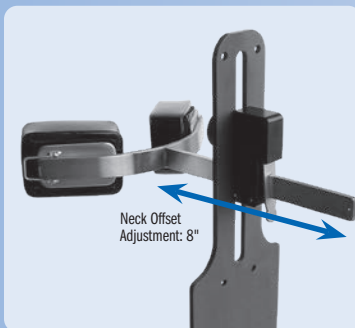
Provides excellent exposure to the shoulder, and patient support



**BEFORE**



**AFTER**



Neck Offset Adjustment: 8"



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

<b>PRODUCT NO'S:</b>
<b>2450</b> [Headrest]
Main Plate Dimensions: 6" x 18" (15,2 x 45,7 cm)
Neck Offset Adjustment: 8" (20,3 cm)
<b>Includes/Replacement Parts:</b>
<b>2450-S</b> [Strap with Gel Pad]
<b>4150-PD2</b> [Set of 2 Pads]





**Distance between Drill Holes:**  
 Small = .390" (9,9 mm)  
 Large = .492" (12,5 mm)



Forceps-Small #5257-01



Drill Guide-Small #5257-02



Forceps-Large #5258-01



Drill Guide-Large #5258-02

## Meyer Latarjet Drill Guide & Forceps Assembly

Designed by Professor Dominik Meyer

*Aiming device for flush positioning of a bone block with a joint surface*

PRODUCT NO'S:
<b>SMALL SET</b>
<b>5257-00</b> [Small Set]
Set Includes:
<b>5257-01</b> [Latarjet Forceps, Small] Overall Length: 5.875" (14,9 cm) Tongue and Clamp Arm Width: .22" (5.6 mm)
<b>5257-02</b> [Latarjet Drill Guide, Small] Overall Length: 8.5" (21,6 cm) Drill Hole Diameter: 3.5 mm Distance between Drill Holes: .390" (9,9 mm)
<b>1025</b> [Case]



PRODUCT NO'S:
<b>LARGE SET</b>
<b>5258-00</b> [Large Set]
Set Includes:
<b>5258-01</b> [Latarjet Forceps, Large] Overall Length: 5.875" (14,9 cm) Tongue and Clamp Arm Width: .32" (8.15 mm)
<b>5258-02</b> [Latarjet Drill Guide, Large] Overall Length: 8.5" (21,6 cm) Drill Hole Diameter: 3.5 mm Distance between Drill Holes: .492" (12,5 mm)
<b>1025</b> [Case]



The osteotomized coracoid is fixed with the lateral, joint-facing side of the coracoid (where the ligament is) facing the flange of the drill-guide.

Two 3.5 mm guiding holes are drilled.

The drill guide is held against the antero-inferior glenoid, the flange sitting on the cartilage, and the first 2.5 mm thread hole for screw fixation is drilled.

The second 2.5 mm thread hole is drilled parallel to a 2.5 mm pin that has been inserted in the first hole to ensure correct distance and orientation.

The coracoid is now fixated using two 3.5 mm or 4.5 mm screws flush with the cartilage, due to the identical distance between flange and screw holes on coracoid and glenoid.

## Suprascapular Ligament Cutter

Designed by Michael Craig, OPA-C

*Designed to cut the transverse ligament while helping to protect the suprascapular nerve*

PRODUCT NO:
<b>1794</b>
Overall Length: 11.25" (28,6 cm)

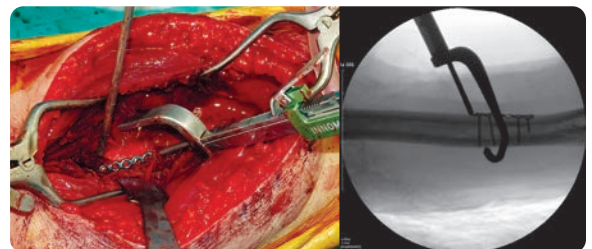
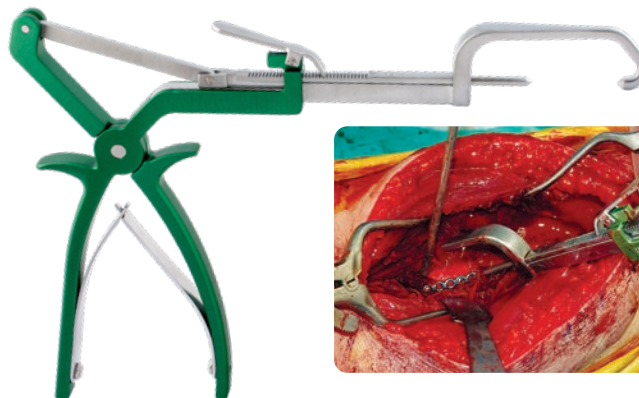


## Fracture Reduction Punch Clamp

Designed by Jong-Keon Oh, MD

*Designed for use in select cases when vertical (or sagittal) plane clamping is necessary during forearm reduction, humeral fracture reduction, or diaphyseal reduction of the tibial shaft*

PRODUCT NO:
<b>5072</b>
Overall Length: 10.5" (26,7 cm)
Point to Point Opening:
-Minimum .375" (10 mm)
-Maximum 1.375" (35 mm)
Pin Diameter: .125" (3,2 mm)

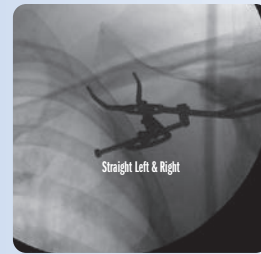
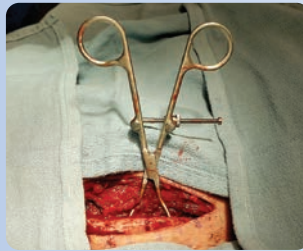




# Pointed Fracture Reduction Clamps

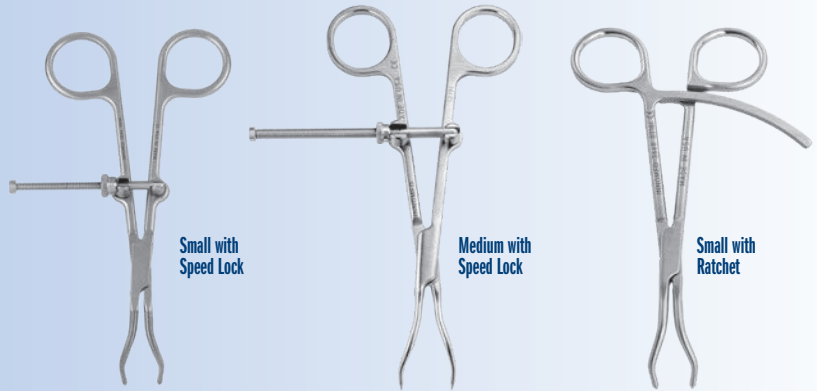
Designed by Reza Firoozbadi, MD MA

Versatile set of fracture reduction clamps, each with a specific tine design that allows for appropriate vector placement so that anatomic reduction can be obtained in a number of different types of fractures



PRODUCT NO.'S:	
<b>SMALL WITH SPEED LOCK MECHANISM</b>	
<b>3666</b> [Straight Left & Right]	Overall Length: 5.5" (14 cm)
<b>3667</b> [Curved Left & Right]	Overall Length: 5.5" (14 cm)
<b>3666-L</b> [Curved Left, Straight Right]	Overall Length: 5.5" (14 cm)
<b>3666-R</b> [Straight Left, Curved Right]	Overall Length: 5.5" (14 cm)
<b>MEDIUM WITH SPEED LOCK MECHANISM</b>	
<b>3666-01</b> [Straight Left & Right]	Overall Length: 7" (17,8 cm)
<b>3667-01</b> [Curved Left & Right]	Overall Length: 7" (17,8 cm)
<b>3666-L-01</b> [Curved Left, Straight Right]	Overall Length: 7" (17,8 cm)
<b>3666-R-01</b> [Straight Left, Curved Right]	Overall Length: 7" (17,8 cm)
<b>SMALL WITH RATCHET MECHANISM</b>	
<b>3668</b> [Straight Left & Right]	Overall Length: 5.5" (14 cm)
<b>3669</b> [Curved Left & Right]	Overall Length: 5.5" (14 cm)
<b>3668-L</b> [Curved Left, Straight Right]	Overall Length: 5.5" (14 cm)
<b>3668-R</b> [Straight Left, Curved Right]	Overall Length: 5.5" (14 cm)

- ▶ 1.9 mm tines allow for a snug fit in 2 mm drill holes
- ▶ Tines angled to prevent clamp "slippage" with compression
- ▶ Straight tines can be placed deep within bone which allows for far cortex compression.
- ▶ Clamps incorporate a box joint design that prevents clamp joint loosening and the need for tightening.
- ▶ Example applications: any transverse fracture (straight-straight clamp), both bone forearm fractures, olecranon fractures, medial malleolus fractures, and many more.
- ▶ Speed Lock Style: Extra-long spin down allows for increased range of clamp use, and open-topped joint rotates to allow for increased range of opening, and also allows for quick release

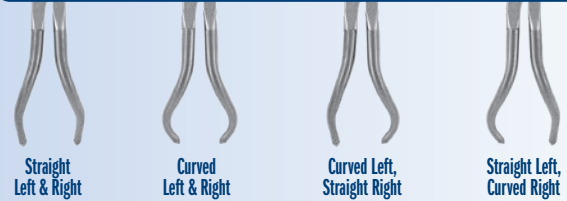


Straight Left & Right #3666  
Curved Left, Straight Right #3666-L  
Straight Left, Curved Right #3666-R

Straight Left & Right #3666-01  
Curved Left, Straight Right #3666-L-01  
Straight Left, Curved Right #3666-R-01

Straight Left & Right #3668  
Curved Left & Right #3669  
Curved Left, Straight Right #3668-L  
Straight Left, Curved Right #3668-R

Two styles – Speed Lock and Ratchet – each available in four tine configurations



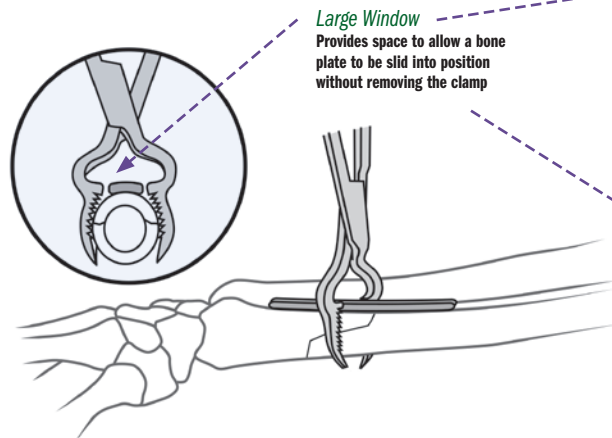
# Durham Bone Reduction Clamps

Designed by Alfred A. Durham, MD

Allows application of a bone plate without removing the reduction clamp

The large window directly above the jaws provide space to allow a bone plate to be slid into position without removing the clamp.

PRODUCT NO.'S:	
<b>3652</b> [Standard]	Overall Length: 7.375" (18,7 cm)
<b>3652-01</b> [Large with Speedlock]	Overall Length: 9.25" (32,5 cm)



**Large Window**  
Provides space to allow a bone plate to be slid into position without removing the clamp

- ▶ The **standard clamp** is designed for medium size bones such as the fibula, ulna, and radius

Standard #3652

- ▶ The **large clamp with speedlock** is designed for large bones such as the femur and tibia

Large with Speedlock #3652-01

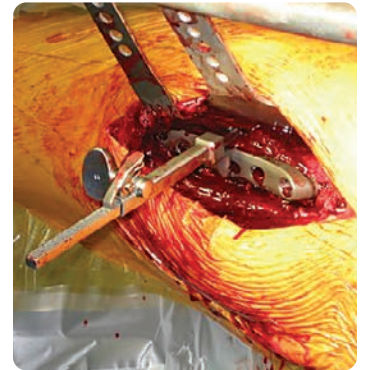
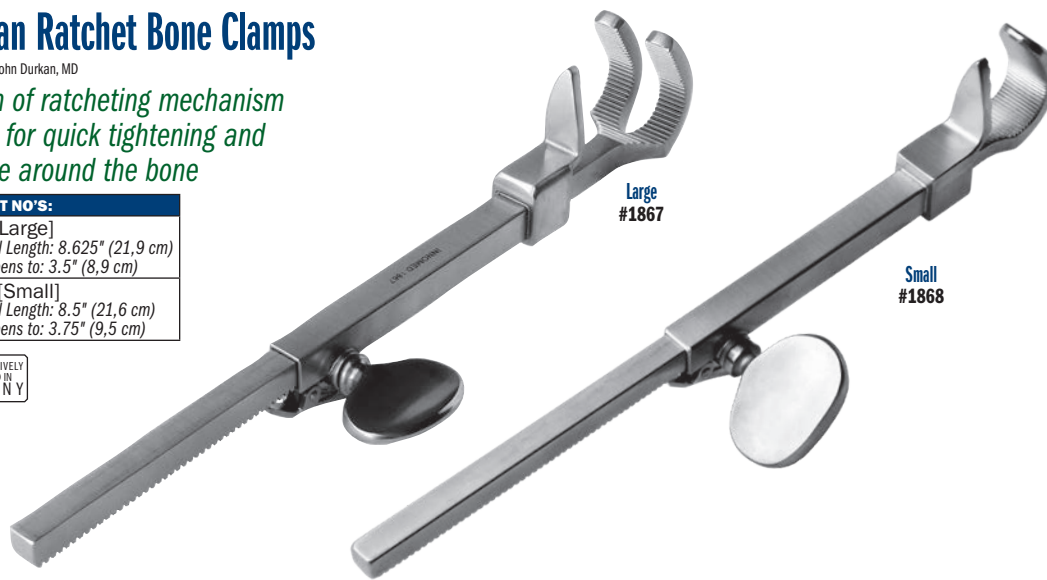
## Durkan Ratchet Bone Clamps

Designed by John Durkan, MD

*Design of ratcheting mechanism allows for quick tightening and release around the bone*

PRODUCT NO'S:	
<b>1867</b> [Large]	Overall Length: 8.625" (21,9 cm) Jaw opens to: 3.5" (8,9 cm)
<b>1868</b> [Small]	Overall Length: 8.5" (21,6 cm) Jaw opens to: 3.75" (9,5 cm)

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## Browner MIS Bone Clamp

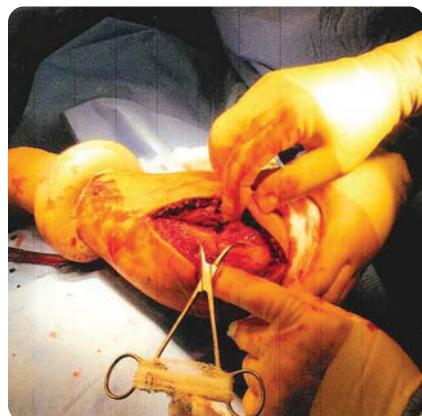
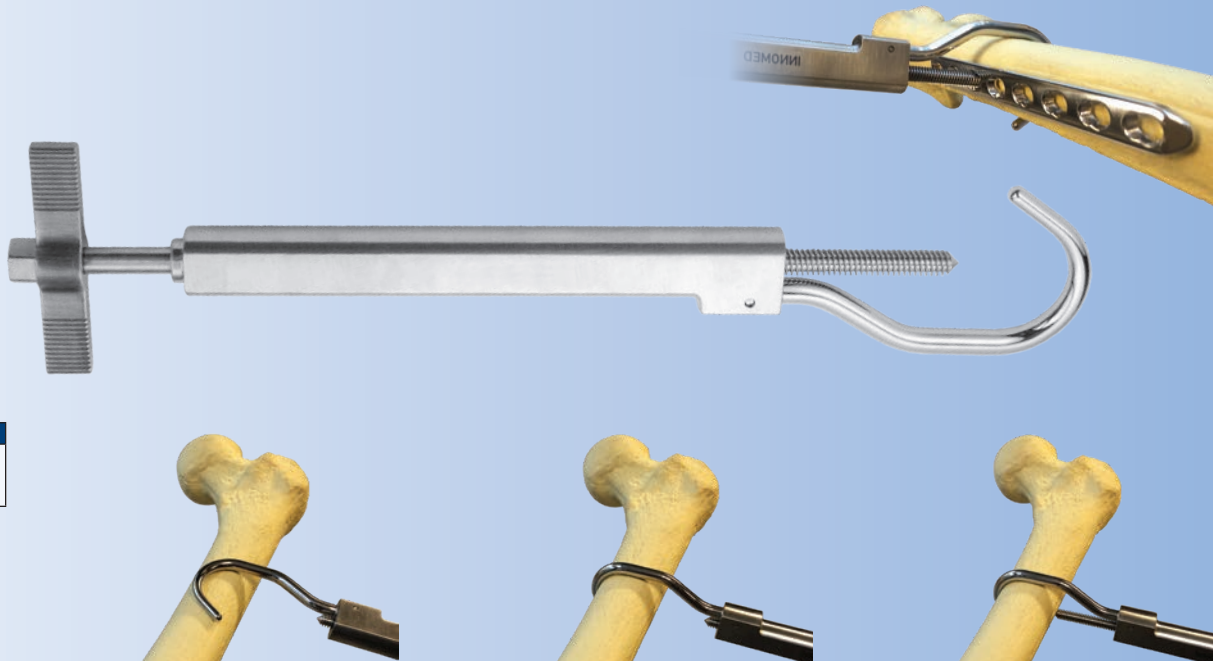
Designed by Bruce D. Browner, MD

*Designed to help hold a bone or bone plate for fixation, the clamp is inserted anterior to the bone, rotated to wrap around the bone, then screwed into the desired position*

Sized to allow use on a femur, tibia or humerus.

PRODUCT NO:	
<b>1379</b>	Overall Length: 9.25" to 11.5" (23,5 to 29,2 cm) Maximum Bone Diameter: ~ 35 mm

USA MADE



## Calvo Olecranon Reducing Forceps

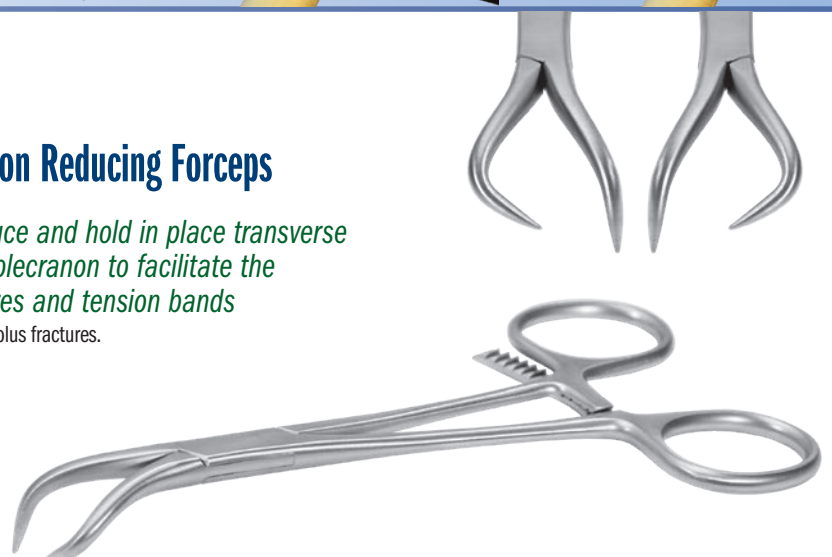
Designed by Ignacio J. Calvo, MD

*Designed to reduce and hold in place transverse fractures of the olecranon to facilitate the insertion of k-wires and tension bands*

Also very useful in malleolus fractures.

PRODUCT NO'S:	
<b>1801-L</b> [Left]	
<b>1801-R</b> [Right]	

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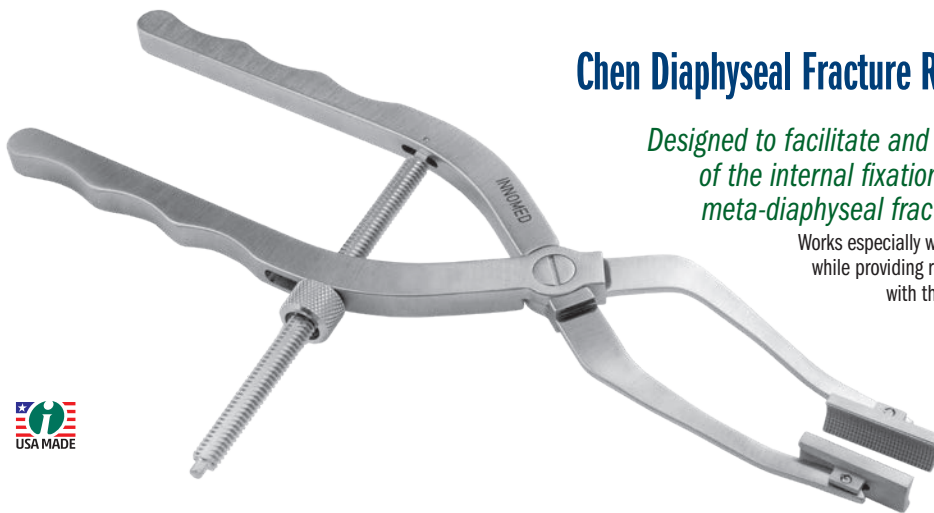
- ▶ Pivoting pads accommodate metaphyseal fractures
- ▶ The quick release enables adjustment without losing reduction
- ▶ Helps provide provisional reduction of diaphyseal fractures - humeral shaft fractures, tibial fractures

## Chen Diaphyseal Fracture Reduction Clamp

Designed by Franklin Chen, MD

*Designed to facilitate and maintain reduction of the internal fixation of diaphyseal and meta-diaphyseal fractures of long bones*

Works especially well with short oblique bones while providing room to implement the plate with this bone clamp still in place.



### PRODUCT NO:

**1808**

Overall Length: 9.25" (23,5 cm)  
 Arm Downward Offset: 15 mm  
 Pad Dimensions: 1" x .375" (25,4 cm x 1 cm)



## Bargo Bone Holding Clamp

Designed by Lonnie Bargo, CST/CFA

*Designed to aid in the reduction of various fractures, and can help secure a plate in place during installation*



Designed to aid in the reduction of various fractures such as: spiral, transverse, compound, oblique, or butterfly. The clamp can also be used to secure a plate in place while the screw holes are being drilled and screws inserted, it has teeth in the jaws for a better grip, and a ratchet locking handle for use on various bone diameters. The fracture site can also be manipulated with the clamp being used as a lever.

### PRODUCT NO:

**1895-01**

Overall Length: 8.5" (21,6 cm)  
 Pads: 1.25" x 1" (32 mm x 25 mm)



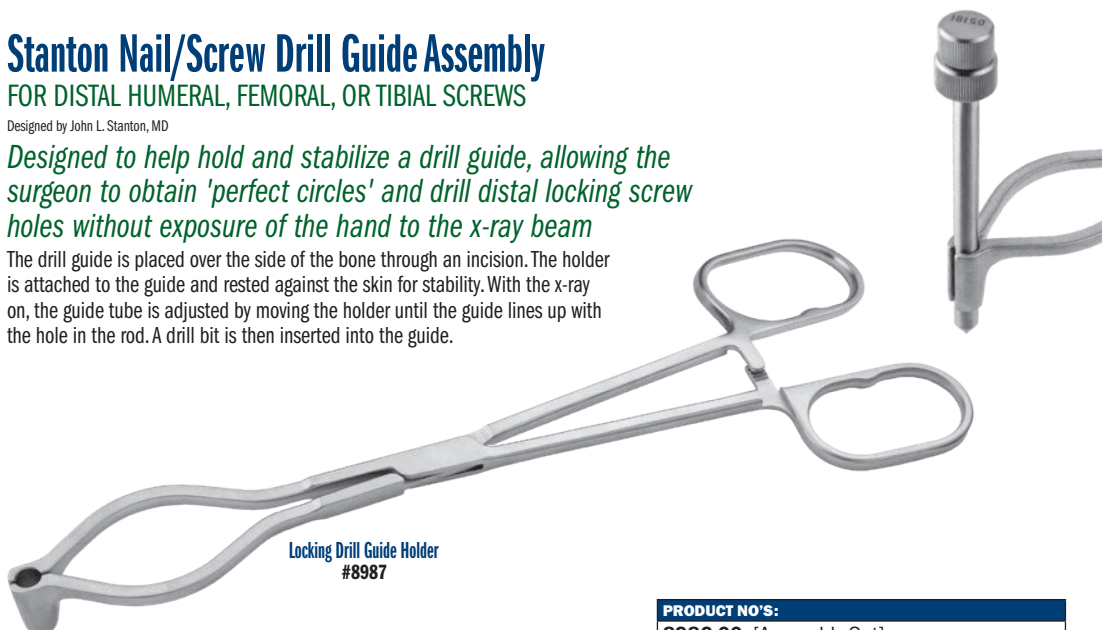
## Stanton Nail/Screw Drill Guide Assembly

FOR DISTAL HUMERAL, FEMORAL, OR TIBIAL SCREWS

Designed by John L. Stanton, MD

*Designed to help hold and stabilize a drill guide, allowing the surgeon to obtain 'perfect circles' and drill distal locking screw holes without exposure of the hand to the x-ray beam*

The drill guide is placed over the side of the bone through an incision. The holder is attached to the guide and rested against the skin for stability. With the x-ray on, the guide tube is adjusted by moving the holder until the guide lines up with the hole in the rod. A drill bit is then inserted into the guide.



Locking Drill Guide Holder  
#8987

Trocar Alignment Tool #8986-02

Sleeve #8986-01

### PRODUCT NO'S:

**8986-00** [Assembly Set]  
 Set includes: (1) Holder, (1) Sleeve, and (1) Trocar

Also available individually:

**8986-01** [Drill Guide Sleeve]  
 Overall Length: 3.85" (9,8 cm)  
 Outside Diameter: 7 mm

**8986-02** [Drill Guide Trocar Alignment Tool]  
 Overall Length: 4.375" (11,1 cm)  
 Trocar Diameter: 5 mm

**8987** [Locking Drill Guide Holder]  
 Overall Length: 10.5 (26,7 cm)  
 Guide Height: 21 mm



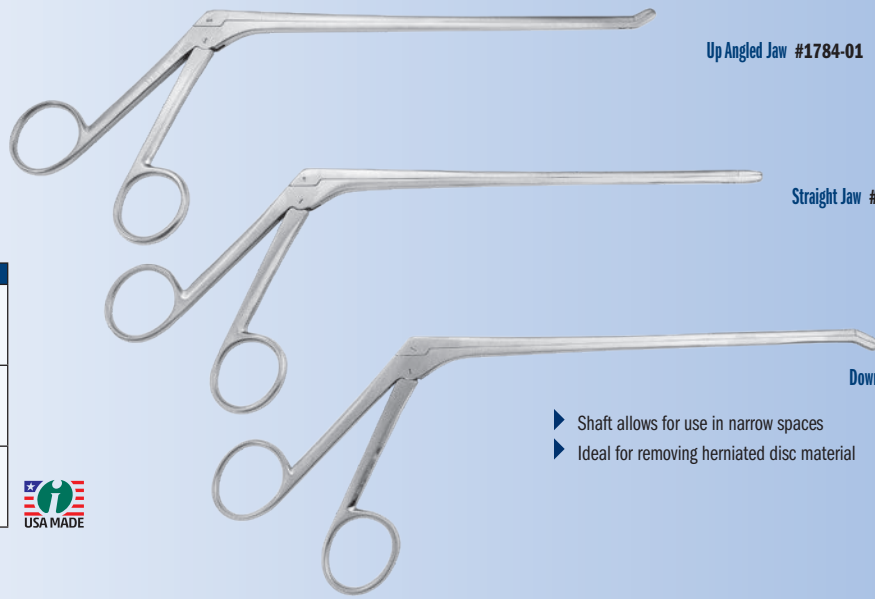


## Tissue Graspers with Shark Teeth

Designed by Luis Ulloa

*Shark teeth help to grasp on to tissue and bone*

PRODUCT NO'S:	
<b>1784-01</b>	[Up Angled Jaw] Shaft Length: 7" (17,8 cm) Overall Length: 10" (25,4 cm) Jaw: 9 mm Long x 5 mm High x 1.8 mm Wide
<b>1784-02</b>	[Straight Jaw] Shaft Length: 7" (17,8 cm) Overall Length: 10" (25,4 cm) Jaw: 9 mm Long x 5 mm High x 1.8 mm Wide
<b>1784-03</b>	[Down Angled Jaw] Shaft Length: 7" (17,8 cm) Overall Length: 10" (25,4 cm) Jaw: 9 mm Long x 5 mm High x 1.8 mm Wide

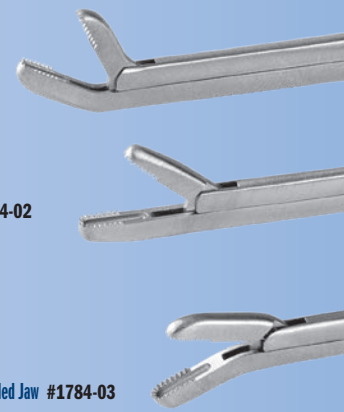


Up Angled Jaw #1784-01

Straight Jaw #1784-02

Down Angled Jaw #1784-03

- ▶ Shaft allows for use in narrow spaces
- ▶ Ideal for removing herniated disc material



## Cartilage Graspers

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

Shaft allows for use in narrow spaces.



Shark Tooth Jaw

Saw Tooth Jaw



8" Shark Teeth #1779

5" Shark Teeth #1777

6" Saw Teeth #1785

PRODUCT NO:
<b>1785</b> [Saw Teeth] Shaft Length: 6" (15,2 cm) Overall Length: 9.25" (23,5 cm)

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Shark tooth design modification by Michael Soudry, MD

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PRODUCT NO'S:	
<b>1777</b>	[5" with Shark Teeth] Shaft Length: 5" (12,7 cm) Overall Length: 8.25" (21 cm) Jaw Bite: 2 mm x 6.5 mm
<b>1779</b>	[8" with Shark Teeth] Shaft Length: 8" (20,3 cm) Overall Length: 11.25" (28,6 cm)

## Soudry Loose Body Grasper

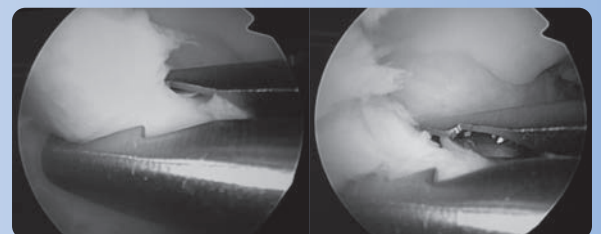
Designed by Michael Soudry, MD

*Designed to help with the removal of soft tissue loose bodies in arthroscopy and open procedures*



PRODUCT NO:
<b>1769</b> Overall Length: 9" (22,9 cm) Shaft Length: 6" (15,2 cm)

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## Shark Tooth Graspers

Designed by Luis Ulloa

*Sharp teeth help grasp onto tissue and bone*

Helpful in removing the labrum, and osteophytes around the acetabulum and around the glenoid. Also helps to remove meniscus, osteophytes and loose bodies. Helps facilitate working through a small incision without disrupting vision.

### Small Grip Handle

#### PRODUCT NO'S:

**1798-SG** [7" Small Grip]

Jaw Size: 6 mm x 10 mm  
Overall Length: 10" (25,4 cm)  
Shaft Length: 7" (17,8 cm)

**1799-SG** [9" Small Grip]

Jaw Size: 6 mm x 10 mm  
Overall Length: 12" (30,5 cm)  
Shaft Length: 9" (22,9 cm)



### Standard Handle

#### PRODUCT NO'S:

**1797** [5" Standard]

Jaw Size: 6 mm x 10 mm  
Overall Length: 8" (20,3 cm)  
Shaft Length: 5" (12,7 cm)

**1798\*** [7" Standard]

Jaw Size: 6 mm x 10 mm  
Overall Length: 10" (25,4 cm)  
Shaft Length: 7" (17,8 cm)

**1799\*** [9" Standard]

Jaw Size: 6 mm x 10 mm  
Overall Length: 12" (30,5 cm)  
Shaft Length: 9" (22,9 cm)

**1796** [12" Standard]

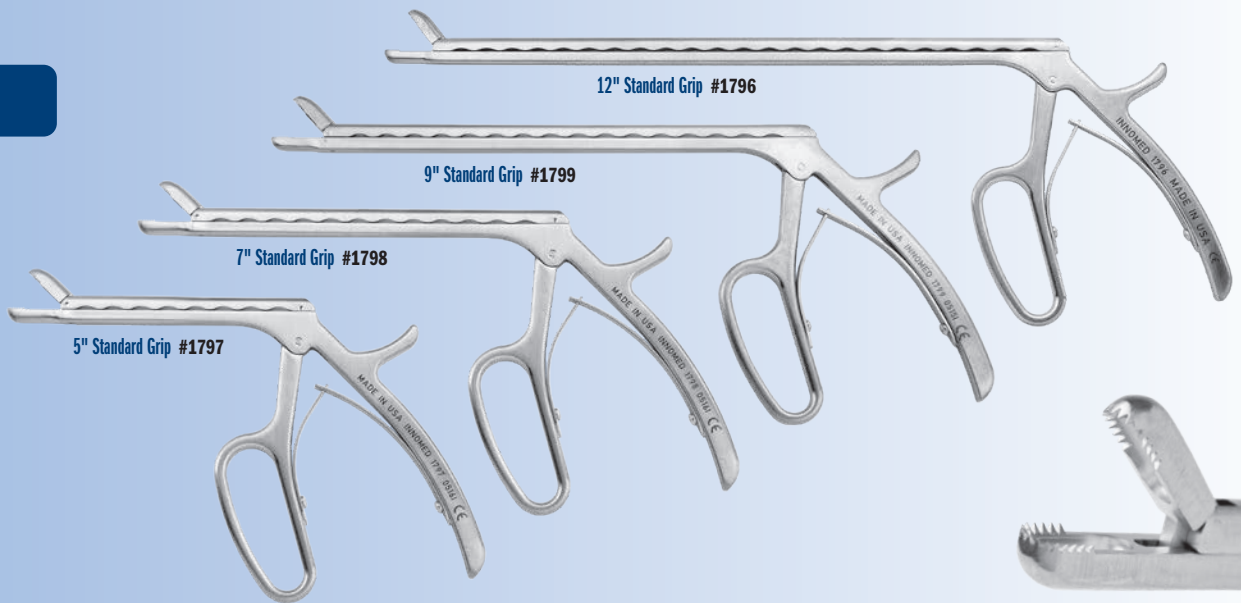
Jaw Size: 6 mm x 10 mm  
Overall Length: 15" (38,1 cm)  
Shaft Length: 12" (30,5 cm)



\* MADE EXCLUSIVELY FOR INNOVATED IN GERMANY



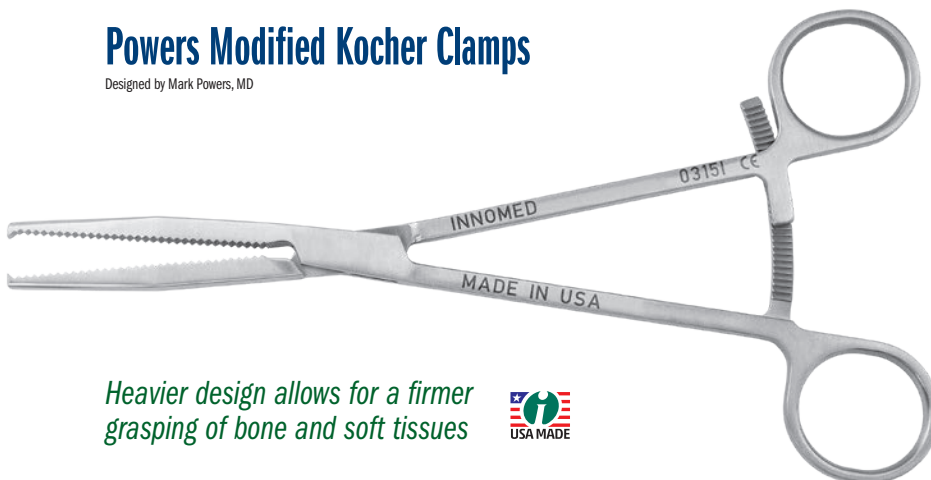
*Designed with the grip closer together for easier gripping and to help reduce hand fatigue*



## Powers Modified Kocher Clamps

Designed by Mark Powers, MD

*Heavier design allows for a firmer grasping of bone and soft tissues*



#### PRODUCT NO'S:

**1813** [Tapered Jaw]

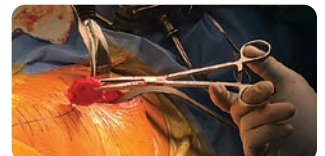
Overall Length: 8.25" (21 cm)  
Jaw Length: 2.5" (6,4 cm)  
Jaw at End: 5.2 mm x 4.1 mm

**1813-01** [Tapered Narrow Jaw]

Overall Length: 8.25" (21 cm)  
Jaw Length: 2.5" (6,4 cm)  
Jaw at End: 5.2 mm x 3 mm

**1814** [Square Jaw]

Overall Length: 8.25" (21 cm)  
Jaw Length: 2.5" (6,4 cm)  
Jaw at End: 6.5 mm x 5 mm

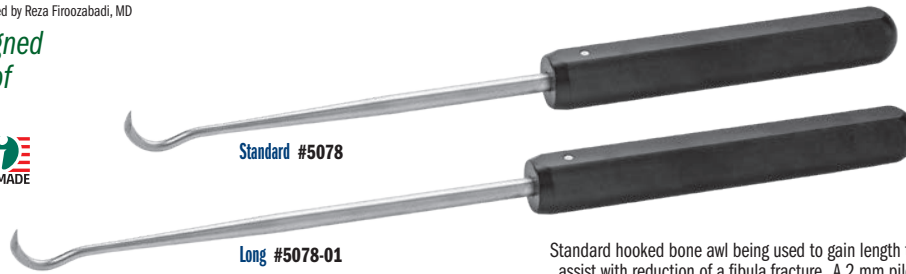


## Hooked Bone Awls

Designed by Reza Firoozabadi, MD

“Shoulder hook” awls designed to help with manipulation of bone fragments for fixation

PRODUCT NO'S:	
<b>5078</b>	[Standard] Overall Length: 10.5" (26,7 cm) Handle Length: 5" (12,7 cm)
<b>5078-01</b>	[Long] Overall Length: 13.375" (34 cm) Handle Length: 6" (15,2 cm)



Standard hooked bone awl being used to gain length to assist with reduction of a fibula fracture. A 2 mm pilot hole is made to seat the tip of the bone awl.



## Lateral Condyle Fracture Set

Designed by Carl R. Weinert, MD

Designed for adult and pediatric lateral condyle fractures

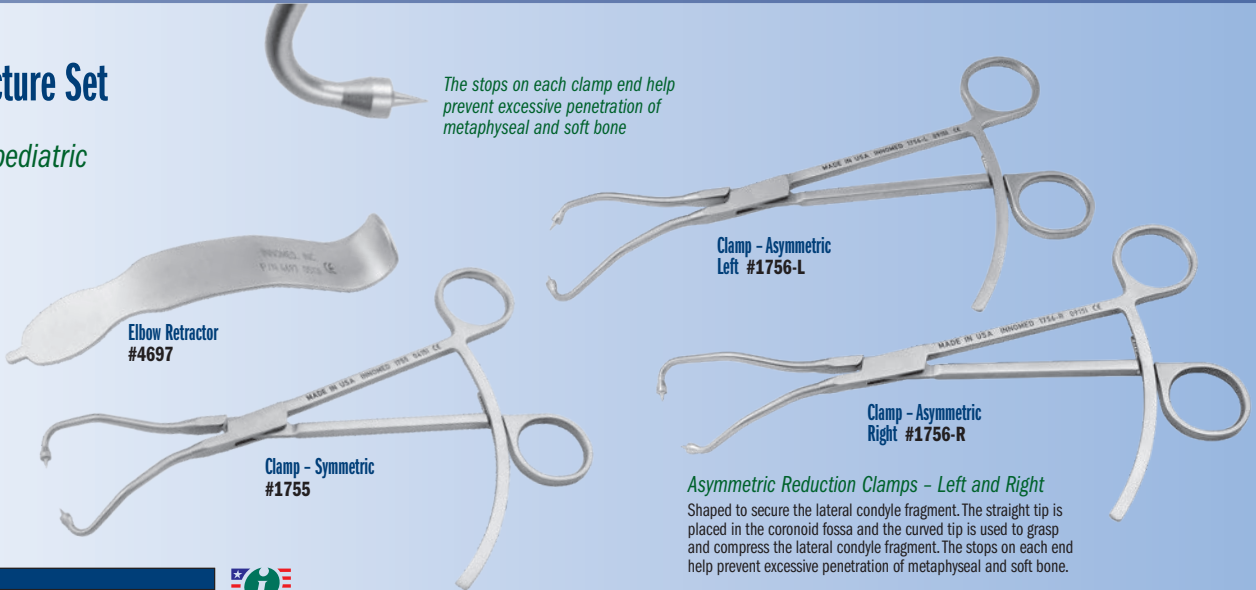
### Elbow Retractor

Designed for use within the elbow joint to retract the anterior capsule, and provide full exposure of the anterior articular surface for reduction and fixation of displaced lateral condyle fractures. The small blunt tip hooks over the intact medial condyle.

### Symmetric Reduction Clamp

Useful to compress T-condylar fractures, and in many other fracture reduction applications. The stops on each end help prevent excessive penetration of metaphyseal and soft bone.

PRODUCT NO'S:	
<b>4697-00</b>	[Set with Case]
<b>Set Includes / Available Individually:</b>	
<b>1755</b>	[Clamp – Symmetric] Overall Length: 8.5" (21,6 cm) Jaw opens to: 3" (7,6 cm)
<b>1756-L</b>	[Clamp – Asymmetric Left] Overall Length: 8.75" (22,2 cm)
<b>1756-R</b>	[Clamp – Asymmetric Right] Overall Length: 8.75" (22,2 cm)
<b>4697</b>	[Elbow Retractor] Overall Length: 6.5" (16,5 cm) Blade Width: 1" (2,54 cm)
<b>1015</b>	[Sterilization Case] Dimensions: 11.25" x 7.125" x 3.125" (28,6 cm x 18,1 cm x 7,9 cm)



The stops on each clamp end help prevent excessive penetration of metaphyseal and soft bone

Clamp – Asymmetric Left #1756-L

Clamp – Asymmetric Right #1756-R

### Asymmetric Reduction Clamps – Left and Right

Shaped to secure the lateral condyle fragment. The straight tip is placed in the coronoid fossa and the curved tip is used to grasp and compress the lateral condyle fragment. The stops on each end help prevent excessive penetration of metaphyseal and soft bone.



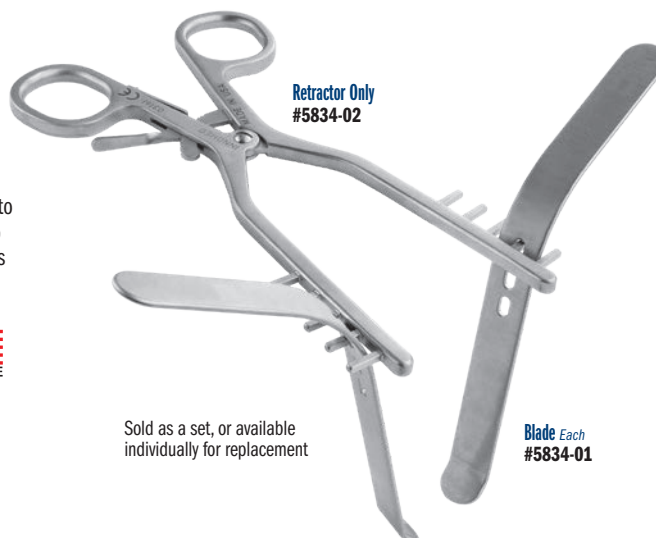
## Beard Distal Biceps Retractor

Designed by David Beard, MD

Designed to help optimize surgical exposure during anterior single incision distal biceps tendon reinsertion

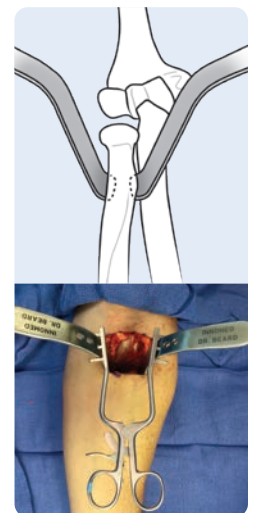
The blade design features an anatomically contoured distal end to hug the radius cortex. The smooth distal end helps to avoid deep penetration, and the width matches the width of the distal biceps tendon insertion site. The narrow curved handle design helps to optimize workspace and visualization.

PRODUCT NO'S:	
<b>5834-00</b>	[Set – Retractor & Two Blades]
<b>Available Individually:</b>	
<b>5834-01</b>	[Blade] 1 blade with this product number Overall Length: 6.375" (16,2 cm) Width: .625" (16 mm)
<b>5834-02</b>	[Self-retaining Retractor] Overall Length: 7.5" (19,1 cm)



Sold as a set, or available individually for replacement

Blade Each #5834-01





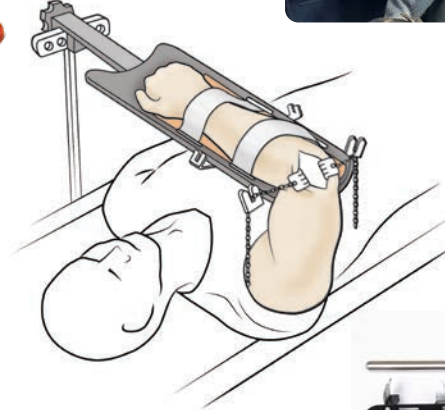
# Auerbach Arm Holder Rake Retractor Set

Designed by David M. Auerbach, MD

Allows intraoperative positioning for procedures of the posterior arm, elbow, and forearm



PRODUCT NO'S:	
<b>2415-00</b>	[Set]
<b>Individual/Replacement Parts:</b>	
<b>2415-01</b>	[Arm Holder Assembly] Overall Length: 20" (50,4 cm) Arm Holder Dimensions: 14.5" x 4" (36,9 x 10,2 cm) Overall Width including Cleats: 7.5" (19,1 cm)
<b>2415-02</b>	[Arm Holder Upright Rod] Overall Length: 19.25" (49,9 cm)
<b>2415-04</b>	[Rake Chain Retractor 4-Prong] Two included in set, one with this product number Overall Length including Chain: 10" (25,4 cm) Retractor Width: .75" (1,9 cm)
<b>2415-06</b>	[Rake Chain Retractor 6-Prong] Two included in set, one with this product number Overall Length including Chain: 10" (25,4 cm) Retractor Width: 1.25" (3,2 cm)
<b>2595</b>	[Table Clamp]
<b>2770-P</b>	[Silicone Pad] Dimensions: 12" x 5.5" (30,5 x 14 cm)
<b>Replacement Parts:</b>	
<b>2590-S</b>	[Black Straps] Pkg of 10



- ▶ Simple design for fast and easy positioning
- ▶ Connects over the drape in the sterile field using the supplied rail clamp and post
- ▶ Can be repositioned during surgery
- ▶ Sterilizable rubber pad protects the arm
- ▶ Retractors for the skin and soft tissues connect to the holder
- ▶ Compact for easy storage



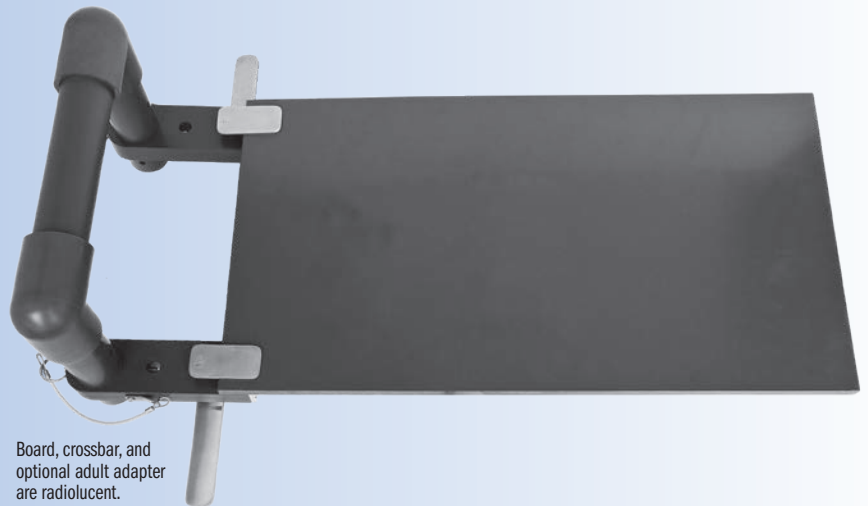
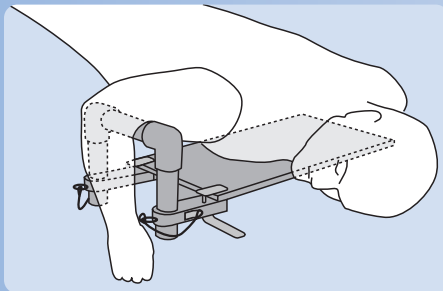
Set includes: Arm Holder Upright and Assembly, (2) 4-Prong Chain Retractors, (2) 6-Prong Chain Retractors, (2) Black Straps, Silicone Pad, and Table Clamp.

# Distal Humerus Fracture Board

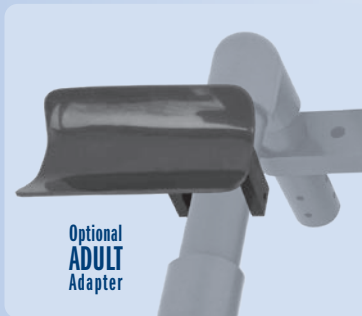
Designed by Burk Young, MD

Designed for the pinning of pediatric supra-condylar and adult distal humerus fractures

Allows the surgeon to pin these fractures without having to manually hold the fracture reduced, allowing the surgeon to focus on accurate pin placement and reduction. The height of the crossbar is fully adjustable to accommodate different size patients. Reduction is achieved by an assistant gently applying axial traction through the forearm, with the crossbar applying the counter traction. Pinning is done with the C-arm in the lateral position. An optional separate attachment to support the arm for distal humerus fractures in adults is available. Unit not sterilizable.



Board, crossbar, and optional adult adapter are radiolucent.

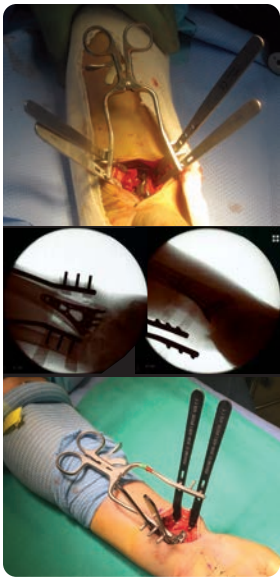


Optional  
ADULT  
Adapter



PRODUCT NO'S:	
<b>2445</b>	[Fracture Board – Pediatric] Main Board Dimensions: 22" x 12" (55,8 cm x 30,5 cm) Crossbar Height Adjusts From: 4.5" to 7.5" (11,4 cm x 19,1 cm)
<b>2445-01</b>	[Fracture Board – With Adult Adapter]
<b>Optional/Replacement Part:</b>	
<b>2445-06</b>	[Adult Adapter]





## Dodson Modular Retractor

Designed by Mark A. Dodson, MD

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

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

The optional radiolucent blades are made of a strong, lightweight carbon fiber PEEK composite material, which is completely radiolucent, helps to prevent from marring component surfaces, and can be steam sterilized.



US Patent No. 9,161,745,82

Retractor Only  
#1838-01

Stainless Steel  
Blade (Each)  
#1838-02

Optional radiolucent  
carbon fiber PEEK composite blade

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

### PRODUCT NO'S:

**1838-00** [Set]

### Replacement Parts:

**1838-01** [Retractor Only]  
Overall Length: 5.5" (14 cm)

**1838-02** [Blade Only - One]  
Overall Length: 5.25" (13.3 cm)  
Blade Width: 3/8" (9 mm)

**1025** [Sterilization Case Only]

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### PRODUCT NO:

#### Optional Part - Not Included In Set:

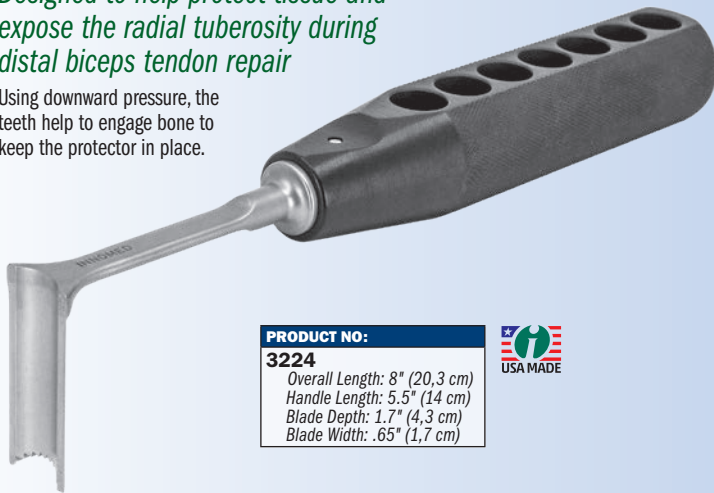
**1838-02R\*** [Radiolucent Blade]  
Overall Length: 5.25" (13.3 cm)  
Blade Width: 3/8" (9 mm)

## Chandran Distal Biceps Tissue Protector

Designed by Rama E. Chandran, MD

*Designed to help protect tissue and expose the radial tuberosity during distal biceps tendon repair*

Using downward pressure, the teeth help to engage bone to keep the protector in place.



### PRODUCT NO:

**3224**

Overall Length: 8" (20,3 cm)  
Handle Length: 5.5" (14 cm)  
Blade Depth: 1.7" (4,3 cm)  
Blade Width: .65" (1,7 cm)



**New!**

Helps to protect tissue and expose the radial tuberosity during distal biceps tendon repair

Also useful to help expose the humerus during proximal subpectoral biceps repair



## Vaughan Distal Bicep Tendon Repair Retractor

Designed by Roderick A. Vaughan, MD

*Designed to retract in a continuous way in three directions, helping to prevent the surrounding vital structures from entering the field while drilling or performing the repair work*

### PRODUCT NO:

**3223**

Overall Length: 8.375" (21,3 cm)  
Handle Length: 5.25" (13,3 cm)  
Depth: 2" (5,1 cm)







## Beicker Hammerhead Rongeur

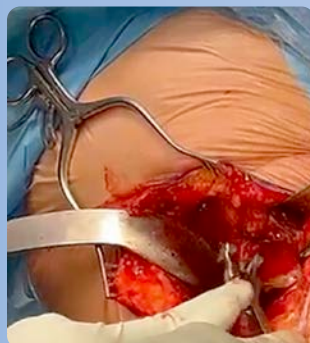
Designed by Clint Beicker, MD

*Designed to help remove osteophytes from around the acetabulum, tibia, and glenoid*

**PRODUCT NO:**  
**1775-05**  
 Overall Length: 8" (20,3 cm)  
 Jaw Bite: 15 mm x 7 mm

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**New!**



## Hannum Tissue Grasper

Designed by Scott Hannum, MD

*Teeth in jaw firmly holds bone and tissue*

Non-locking design can be easily gripped while allowing greater pressure to be applied. Available in three jaw sizes: short jaw for holding bone, medium jaw for smaller bones, and long jaw for tissue.



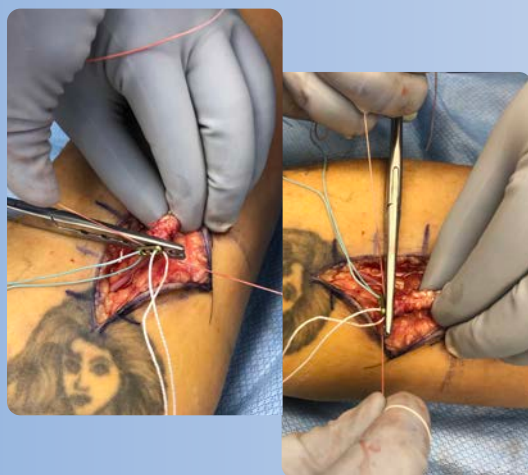
Short Jaw #1775-01  
 Medium Jaw #1775-02  
 Long Jaw #1775-03

Jaw widths at actual size



**PRODUCT NO'S:**  
**1775-01** [Short Jaw]  
 Jaw Width: 8 mm  
 Overall Length: 9.25" (23,5 cm)  
**1775-02** [Medium Jaw]  
 Jaw Width: 5 mm  
 Overall Length: 9.25" (23,5 cm)  
**1775-03** [Long Jaw]  
 Jaw Width: 3 mm  
 Overall Length: 9.25" (23,5 cm)

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## Gap Clamp for Cortical Button Distal Bicep Repair

Designed by Corey Trease, MD



*Designed to be used to help consistently set the gap for the radius cortex between the distal biceps stump and the cortical button*

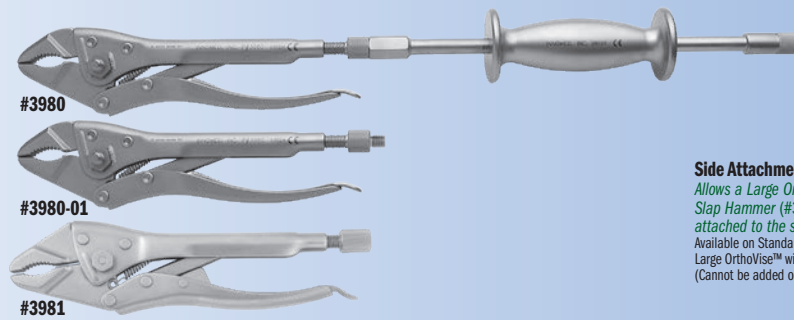
**PRODUCT NO:**  
**5262**  
 Overall Length: 8" (20,4 cm)  
 Jaw Width Tapers from: 6 to 2.5 mm

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 FOR INNOVED IN  
 GERMANY



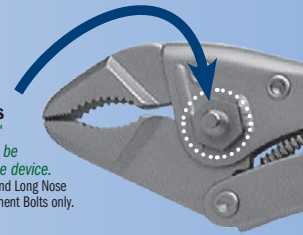
## STANDARD LARGE

PRODUCT NO'S:	
	OrthoVise™ Length: 10" (25,4 cm)
<b>3980</b>	with Attachment Bolts (two sides & end) with Large OrthoVise™ Slap Hammer (#3950)
<b>3980-01</b>	with Attachment Bolts (two sides & end) without Slap Hammer
<b>3981</b>	without Attachment Bolts without Slap Hammer with End Attachment Nut that accepts a Standard Slap Hammer (#3925 or 3926)



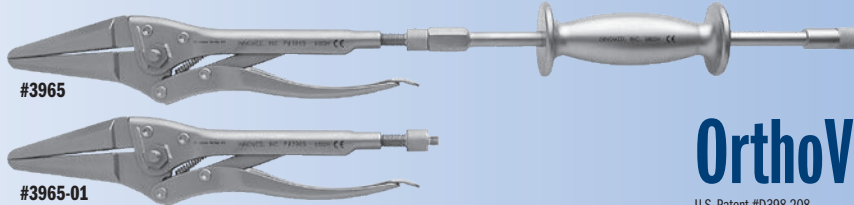
### Side Attachment Bolts

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)
<b>3965</b>	with Attachment Bolts (two sides & end) with Large OrthoVise™ Slap Hammer (#3950)
<b>3965-01</b>	with Attachment Bolts (two sides & end) without Slap Hammer

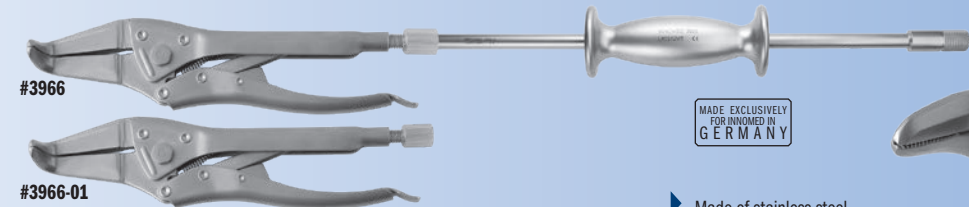


# OrthoVise™

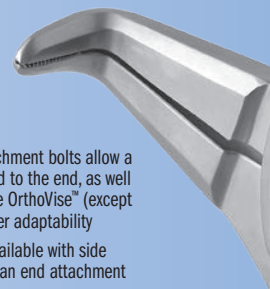
U.S. Patent #D398,208

## LONG NOSE LARGE BENT JAW

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

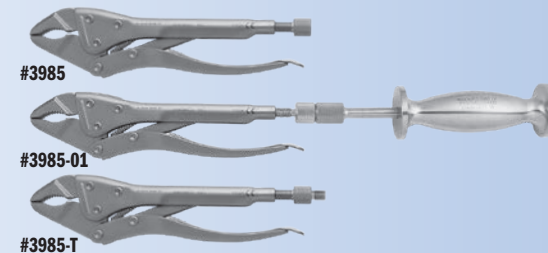


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GERMANY



## STANDARD SMALL

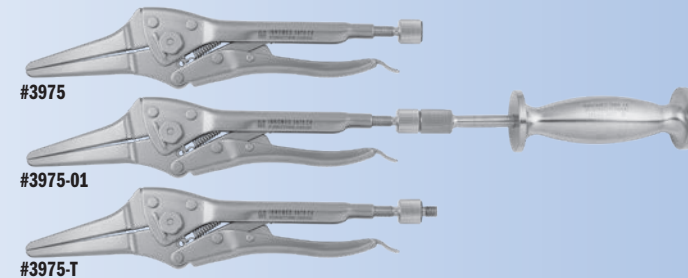
PRODUCT NO'S:	
	OrthoVise™ Length: 8" (20,3 cm)
<b>3985</b>	without Attachment Bolt without Slap Hammer
<b>3985-01</b>	with Attachment Bolt (end) with Small OrthoVise™ Slap Hammer (#3955)
<b>3985-T</b>	with Attachment Bolt (end) without Slap Hammer



- ▶ 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

## LONG NOSE SMALL

PRODUCT NO'S:	
	OrthoVise™ Length: 9.5" (24,1 cm)
<b>3975</b>	without Attachment Bolt without Slap Hammer
<b>3975-01</b>	with Attachment Bolt (end) with Small OrthoVise™ Slap Hammer (#3955)
<b>3975-T</b>	with Attachment Bolt (end) without Slap Hammer



## SLAP HAMMERS

PRODUCT NO'S:	
<b>3950</b>	[Slap Hammer for Large OrthoVise™] For use with: 3965's, 3980's, 3981 Overall Length: 16.5" (41,9 cm)
<b>3955</b>	[Slap Hammer for Small OrthoVise™] For use with: 3975's, 3985's Overall Length: 8.75" (22,2 cm)
<b>3925</b>	[Standard Slap Hammer w/16" Rod] For use with: 3966's Overall Length: 16" (40,7 cm)
<b>3926</b>	[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:	
<b>3980-02</b>	[Small Adapter] Changes Male End of a Slap Hammer to Female
<b>3980-03</b>	[Threaded Adapting Screw - Large] For use with: 3965's, 3966's, 3980's, 3981
<b>3985-03</b>	[Threaded Adapting Screw - Small] For use with: 3975's, 3985's

Small Adapter



Female/Female  
Adapter Converts  
from Male/Male

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





## Durham Curved Osteotome

Designed by Alfred A. Durham, MD

Increased angle useful for posterior osteophytes of the humeral head and the femoral condyle, as well as anterior acetabular osteophytes

PRODUCT NO'S:
<b>4950</b>
Overall Length: 9" (22,9 cm)
Handle Length: 5" (12,7 cm)
Osteotome Width: .625" (1,6 cm)



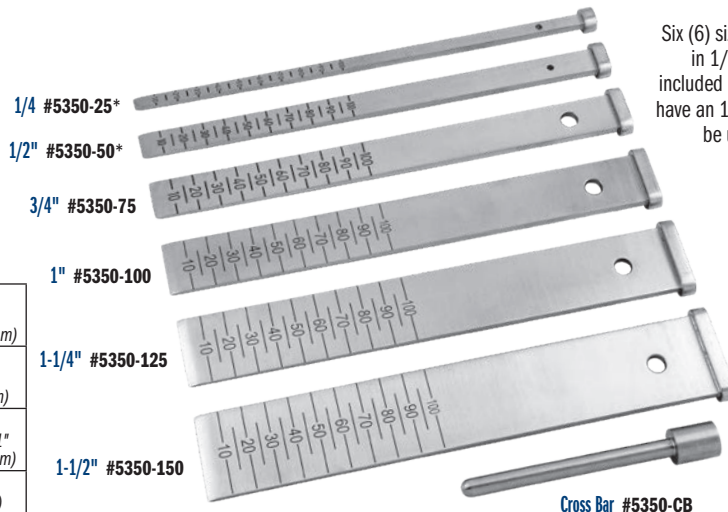
## Modified Lambotte Osteotomes

Designed with a striking platform, plus a cross-bar hole to help control rotational stability and assist with removal

PRODUCT NO'S:
5350-00 [Set w/Case]
Set Includes / Available Individually:
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)
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)



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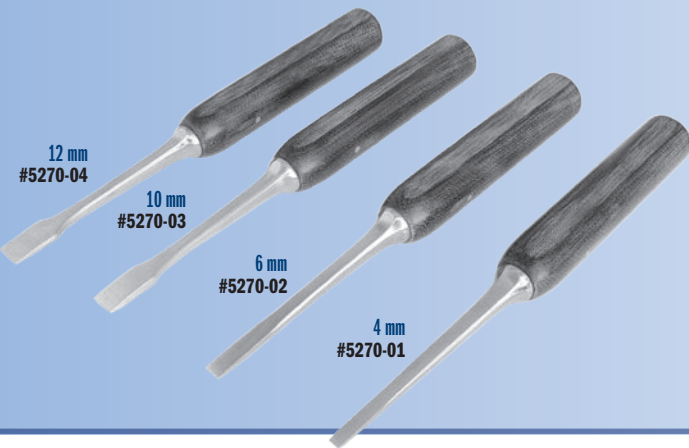


Six (6) sizes available, from 1/4" to 1-1/2" in 1/4" increments. Cross-bar and case included in complete set. Two smallest sizes have an 1/8" hole in which an 1/8" pin can be used as a cross bar (not included).



Case Only  
#5350-CASE

Cross Bar #5350-CB



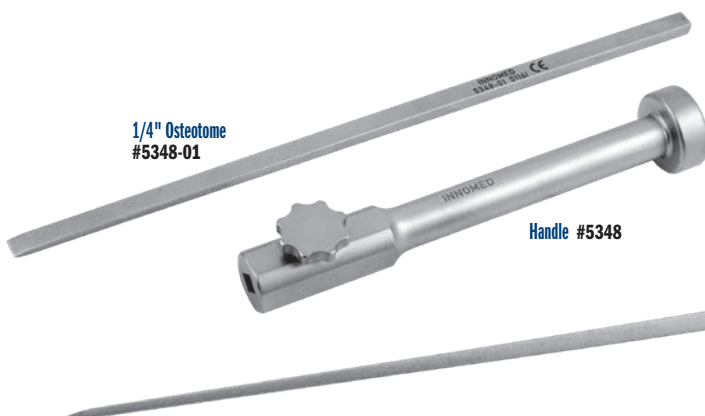
## Mini-lexer Osteotomes

Helpful with osteophyte and cement removal

Small, thin osteotomes helpful with osteophyte and cement removal. Larger handle helps with better control.



PRODUCT NO'S:
<b>5270-01</b> Blade Width: 4 mm Overall Length: 7.25" (18,4 cm) Handle Length: 4" (10,2 cm)
<b>5270-02</b> Blade Width: 6 mm Overall Length: 7.25" (18,4 cm) Handle Length: 4" (10,2 cm)
<b>5270-03</b> Blade Width: 10 mm Overall Length: 7.25" (18,4 cm) Handle Length: 4" (10,2 cm)
<b>5270-04</b> Blade Width: 12 mm Overall Length: 7.25" (18,4 cm) Handle Length: 4" (10,2 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

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)



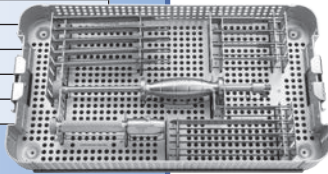


# Flexible Osteotome System

Provides an assortment of osteotome blades for various orthopedic surgery procedures

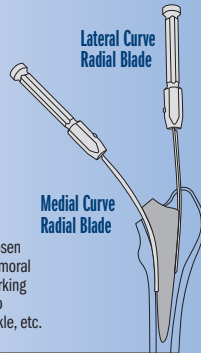
PRODUCT NO.'S:	
<b>S0011-00</b>	[Set with Quick-Coupling Handle and Case]
<b>S0012-00</b>	[Set with Locking Nut Handle and Case]
<b>Sets Include / Available Individually:</b>	
<b>S1002</b>	[Thin Osteotome Blade] 2.5" (6,3 cm) x 8 mm
<b>S1003</b>	[Thin Osteotome Blade] 2.5" (6,3 cm) x 10 mm
<b>S1004</b>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

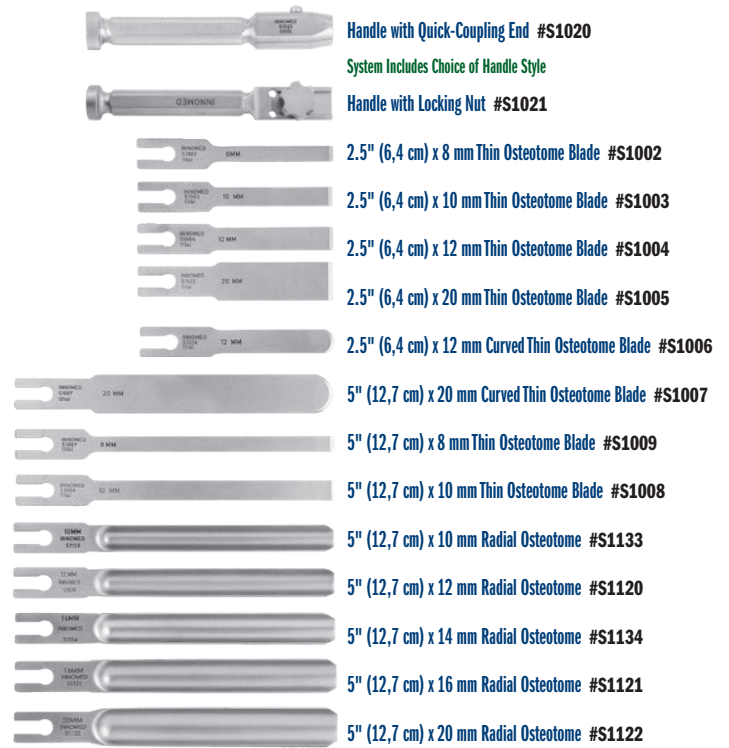
- ▶ Optional Strike Plate can be attached to the Handle for direct striking with a mallet
- ▶ Optional Curved Chisel Blades are designed to help loosen the cement/prosthesis interval in TKA tibial tray and femoral component revisions. The curved design is useful in working around pegs & fins to get posterior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



PRODUCT NO.'S:	
<b>S1020-SP</b>	[Strike Plate for Handle] Diameter 1.625" (4,1 cm)
<b>Optional Osteotome Blades (Not Included In Complete Set):</b>	
<b>S1123</b>	[7.5" XL Osteotome Blade] 7.5" (19,1 cm) x 8 mm
<b>S1135</b>	[Radial Osteo. Medial Curve] 6.75" (17,1 cm) x 11 mm
<b>S1136</b>	[Radial Osteo. Lateral Curve] 6.75" (17,1 cm) x 11 mm
<b>S1137</b>	[Radial Osteo. Medial Curve] 5" (12,7 cm) x 11 mm
<b>S1138</b>	[Radial Osteo. Lateral Curve] 5" (12,7 cm) x 11 mm
<b>Optional Chisel Blades (Not Included In Complete Set):</b>	
<b>S1233-L</b>	[2" Left Curved Chisel Blade] 2" (5,1 cm) x 8 mm
<b>S1233-R</b>	[2" Right Curved Chisel Blade] 2" (5,1 cm) x 8 mm
<b>S1222</b>	[2.5" Chisel Blade - 8 mm] 2.5" (6,4 cm) x 8 mm
<b>S1223</b>	[2.5" Chisel Blade - 10 mm] 2.5" (6,4 cm) x 10 mm
<b>S1224</b>	[2.5" Chisel Blade - 12 mm] 2.5" (6,4 cm) x 12 mm
<b>S1225</b>	[2.5" Chisel Blade - 20 mm] 2.5" (6,4 cm) x 20 mm
<b>S1229</b>	[5" Chisel Blade - 8 mm] 5" (12,7 cm) x 8 mm
<b>S1228</b>	[5" Chisel Blade - 10 mm] 5" (12,7 cm) x 10 mm
<b>S1231</b>	[5" Chisel Blade - 12 mm] 5" (12,7 cm) x 12 mm
<b>S1230</b>	[5" Chisel Blade - 20 mm] 5" (12,7 cm) x 20 mm
<b>S1227</b>	[5.5" Long Chisel Blade] 5.5" (14 cm) x 8 mm
<b>S1232</b>	[7.5" XL Chisel Blade] 7.5" (19,1 cm) x 8 mm
<b>S1234</b>	[8.5" XL Chisel Blade] 8.5" (21,6 cm) x 8 mm
<b>S1235</b>	[9.5" XL Chisel Blade] 9.5" (23,1 cm) x 8 mm
<b>S1236</b>	[10.5" XL Chisel Blade] 10.5" (26,7 cm) x 8 mm
<b>S1237</b>	[11.5" XL Chisel Blade] 11.5" (29,2 cm) x 8 mm
<b>S1238</b>	[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.

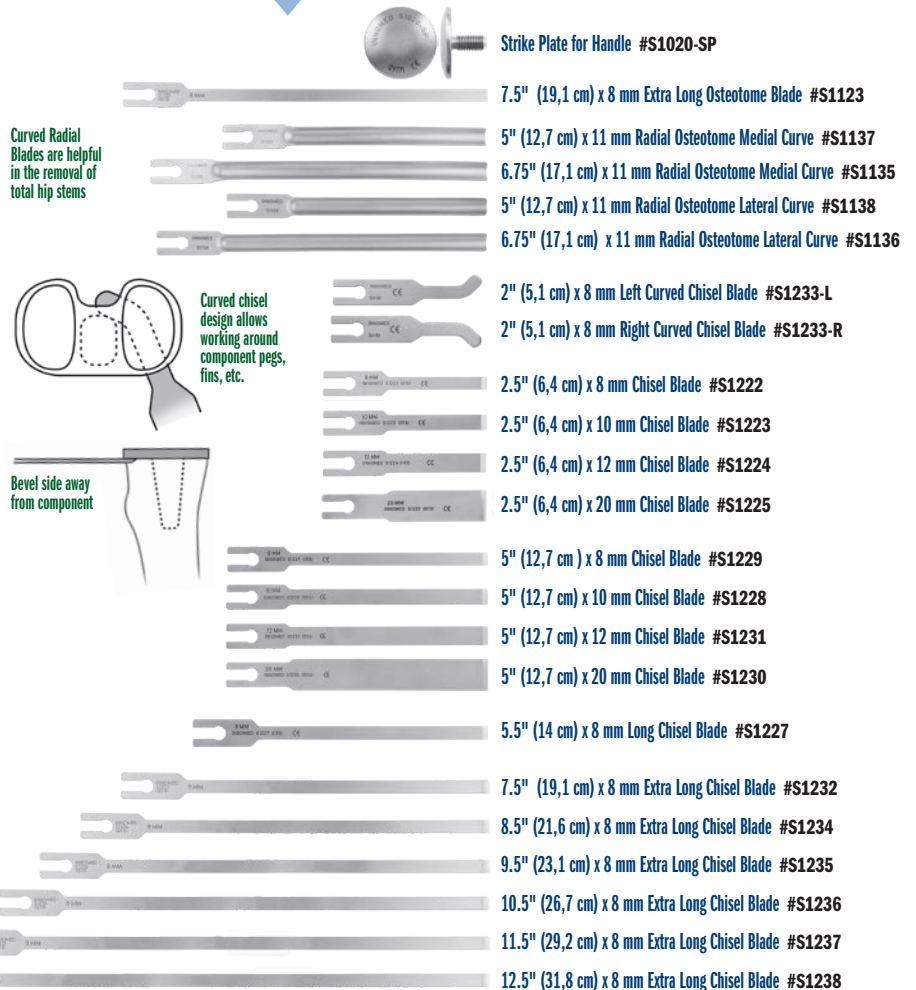
Medial and Lateral Curve Radial Blades designed by Henry Boucher, MD  
Curved Chisel Blades designed by William McMaster, MD



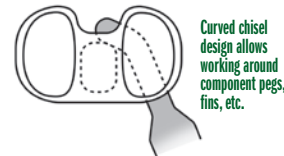
Slap Hammer #S2007

### Options Available Separately

### Instruments Included in Sets



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



Bevel side away from component

Extra Long Chisel Blades are designed for removal of well-fixed long bone intramedullary hardware

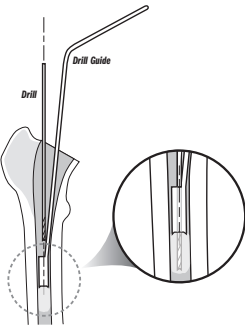




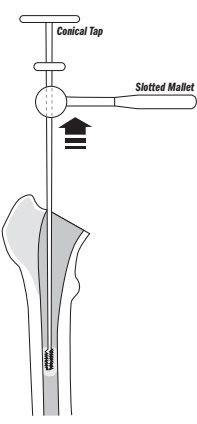
Case Only #9075



**Drill & Drill Guide**



**Conical Tap & Mallet**



# Mueller-Type Cement Removal Instruments

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

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



**Optional Instruments:**

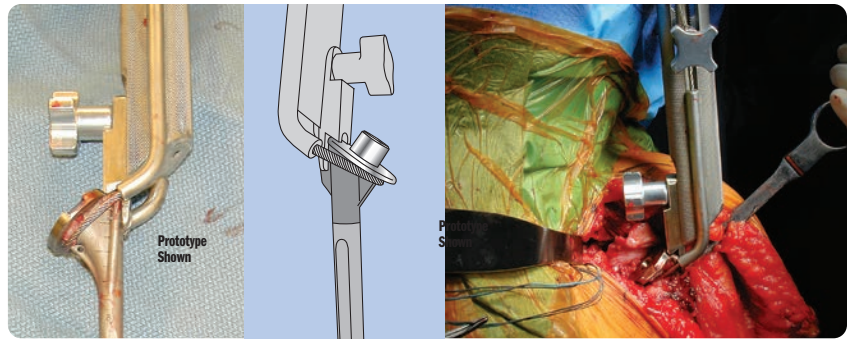
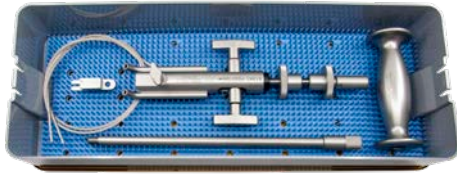


PRODUCT NO'S:	
<b>8247-00</b>	[T-Handle Chuck & Key]
<b>8247-01</b>	[T-Handle Chuck Only]
<b>8247-02</b>	[Chuck Key Only]

# Nicholson Universal Humeral Prosthesis Extractor

Designed by Gregory Nicholson, MD

*Designed to fit most humeral prostheses*



## PRODUCT NO'S:

**3670** [Extractor Set with Case]

**Individual/Replacement Parts:**

**3670-01** [Extractor Only]

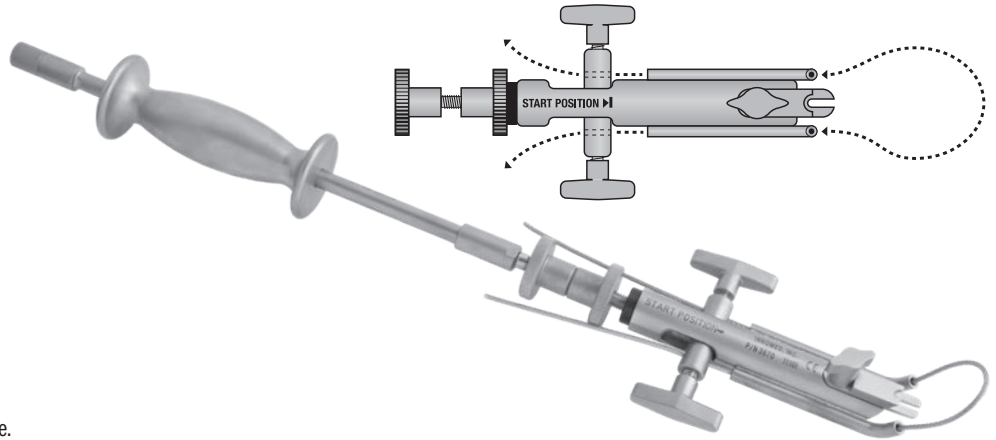
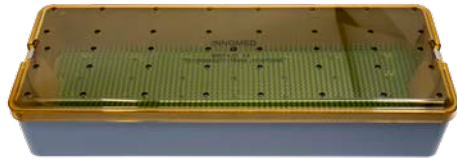
**3670-10** [Foot Adapter]

**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)]

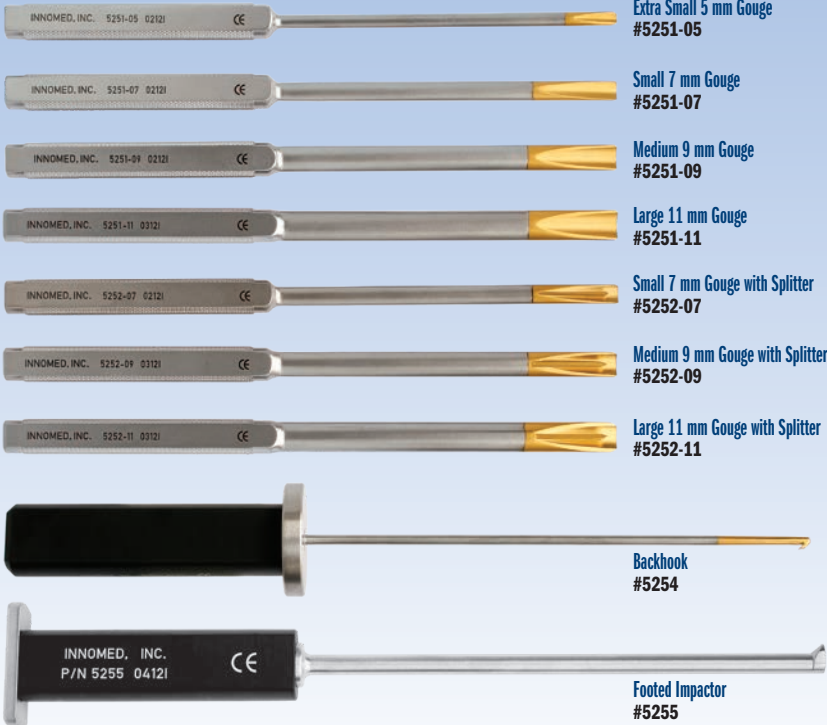


Set includes a slaphammer, two non-sterile 2.5 mm cables, and a sterilization case.

# 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]

**Set Includes / Available Individually:**

**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]

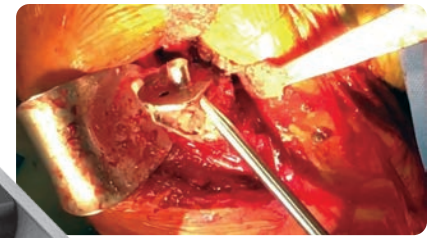


## Levy Humeral Stem Extraction Punch

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.



<b>PRODUCT NO:</b>
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

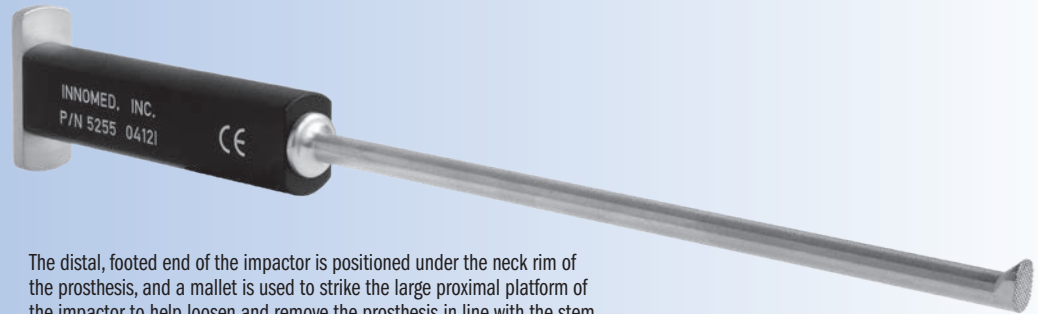


## Nicholson Footed Impactor

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

<b>PRODUCT NO:</b>
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.



## 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.



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

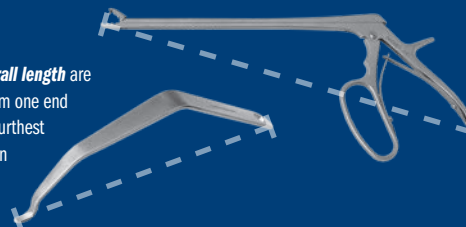


Two blades included in Set

## 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.

## Basic Screw Removal System

**New!**

System designed to help remove damaged and broken screws from 1.5 to 7.0 mm

System in Case #2022-00  
Also Available Individually

MADE FOR INNOMED IN GERMANY

### Screw Removal Locking Pliers

#2022-01

### Mini Lexer Gouges

4 mm Gouge #2022-02

6 mm Gouge #2022-03

10 mm Gouge #2022-04

### Sharp Hook

#2022-SH

### T-Handle with AO-End

#2022-T

### Extraction Screws

-  For 1.5/2.0 mm Screw #2022-05
-  For 2.7/3.5/4.0 mm Screw #2022-06
-  For 4.5/5.0/6.5/7.0 mm Screw #2022-07

### Extraction Bolts

-  For 1.5 mm Screw #2023-01
-  For 2.0 mm Screw #2023-02
-  For 2.7 mm Screw #2023-03
-  For 3.5/4.0 mm Screw #2023-04
-  For 4.5 mm Screw #2023-05
-  For 5.0/6.5/7.0 mm Screw #2023-06

### Trephines







-  For 1.5 mm Screw #2023-07
-  For 2.0 mm Screw #2023-08
-  For 2.7 mm Screw #2023-09
-  For 3.5/4.0 mm Screw #2023-10
-  For 4.5 mm Screw #2023-11
-  For 5.0/6.5/7.0 mm Screw #2023-12



### Instruction Plate #2022-IP



### Spare Trephine Cutting Ends

-  For 1.5 mm Screw #2024-01
-  For 2.0 mm Screw #2024-02
-  For 2.7 mm Screw #2024-03
-  For 3.5/4.0 mm Screw #2024-04
-  For 4.5 mm Screw #2024-05
-  For 5.0/6.5/7.0 mm Screw #2024-06



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