

# INNOMED

ORTHOPEDIC INSTRUMENTS



SEPTEMBER  
2023

Featuring many **New!** instruments inside



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**Femoral Neck Elevator with Waist Pad**  
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**Sierra OrthoLucent™ Soft Tissue Retractor**  
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**Femoral Neck Elevator with Teeth**  
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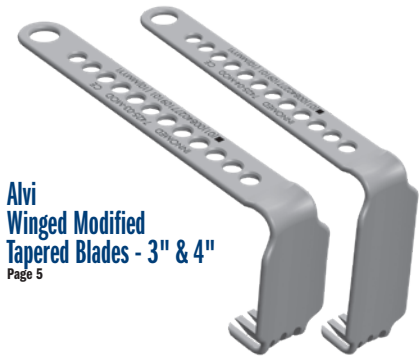
**Curved Canal Rasps**  
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## Hip Retraction & Exposure

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# What's New In This Catalog?



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**McMaster  
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**Retractor Clip for  
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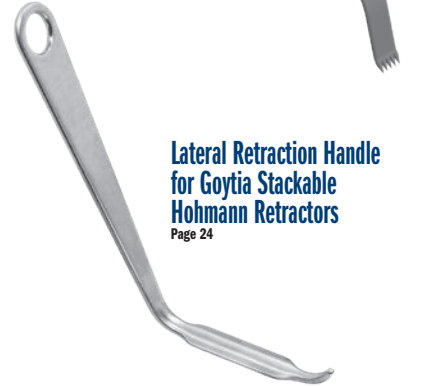
**Direct Anterior Approach Retractor Set**  
Page 4



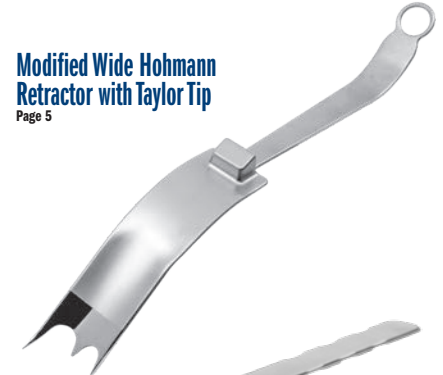
**Sierra OrthoLucent™ EVA  
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**Chandran Anterior  
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**Lateral Retraction Handle  
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**Modified Wide Hohmann  
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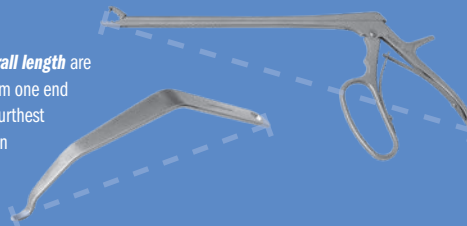
**Sierra OrthoLucent™  
Soft Tissue Retractor**  
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a snapshot of all the **New!** instruments inside

## 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:

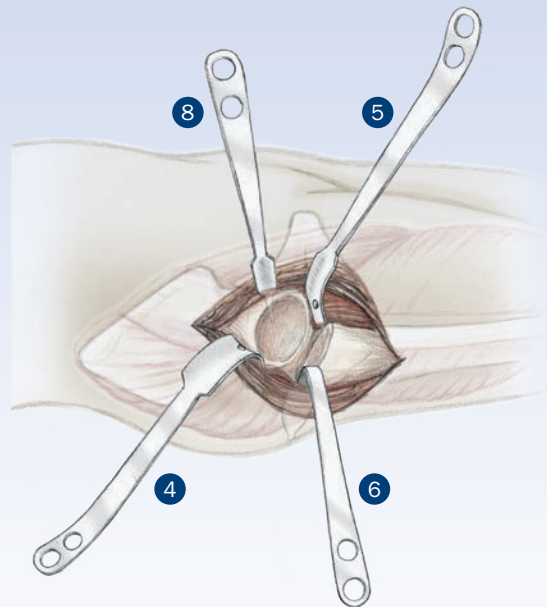




# Anterior Watson Jones Total Hip Arthroplasty System

PRODUCT NO'S:	
6300-00 [Complete Set]	
<b>Available Individually:</b>	
6301-L [Awl - Left] Overall Length: 12.375" (31,5 cm)	1
6301-R [Awl - Right] Overall Length: 12.375" (31,5 cm)	2
6302-01 [Lighted Mueller Retractor] Blade Width: 27 mm Handle Length: 5.5" (14 cm) Overall Length: 12.75" (32,4 cm)	3
6303-01 [Wide Lighted Retractor] Blade Width: 40 mm Blade Tip Length: 17 mm Overall Length: 12.75" (32,4 cm)	4
6304-01 [Narrow Lighted Retractor] Blade Width: 26 mm Blade Tip Length: 23 mm Overall Length: 16.5" (41,9 cm)	5
6305 [90° Cobra Retractor] Blade at Widest: 37 mm Blade Depth: 7.5" (19,1 cm) Blade Prong: 18 mm Long X 10 mm Wide Overall Length: 12.5" (31,8 cm) Handle Length: 9.5" (24,1 cm)	6
6306 [Deep Hohmann Retractor] Blade Width: 17 mm Prong Length: 34 mm Overall Length: 9.25" (23,5 cm)	7
6307 [Straight Hohmann Retractor] Prong Length: 4,2 cm Overall Length: 9.5" (24,1 cm)	8
6308 [Femoral Starter Drill] Drill Tip Dimensions: 18 mm Long X 12 mm Diameter Overall Length: 6" (15,2 cm) Shaft Length: 5.25" (13,3 cm)	9
<b>Optional Instrument (Not Included In Set):</b>	
6303 [Wide Retractor without Light] Blade Width: 40 mm Blade Tip Length: 17 mm Overall Length: 12.75" (32,4 cm)	

Lighted retractors attach to a fiber optic light cable with ACMI (female) connector and can be steam sterilized.



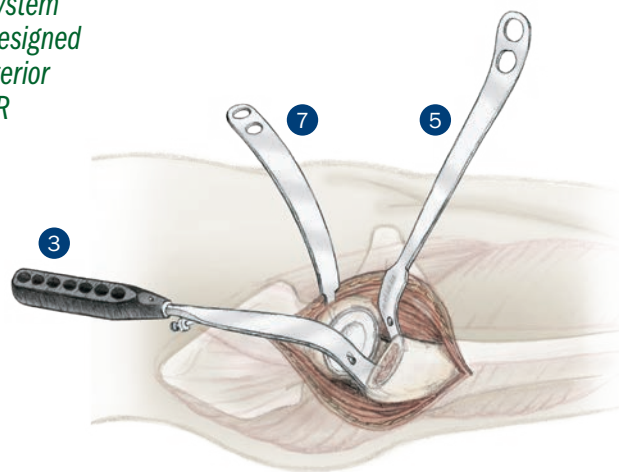
Optional quick-connect driver (NOT INCLUDED IN RETRACTOR SET) for use with the starter drill:

PRODUCT NO:
8248 [Fixed Driver with Zimmer Hall Quick-connect] Overall Length: 5.75" (15,6 cm) Handle Width: 4.625" (11,6 cm)



Fixed Driver with Zimmer Hall Quick-connect

Instrument system specifically designed for Direct Anterior approach THR



- 1 Awl - Left #6301-L
- 2 Awl - Right #6301-R
- 3 Lighted Mueller Retractor #6302-01
- 4 Wide Lighted Retractor #6303-01
- 5 Narrow Lighted Retractor #6304-01
- 6 90° Cobra Retractor #6305
- 7 Deep Hohmann Retractor #6306
- 8 Straight Hohmann Retractor #6307
- 9 Femoral Starter Drill with Zimmer Hall Quick-connect #6308



# Direct Anterior Approach Retractor Set

A General Use Set of Innomed Retractors for Direct Anterior Approach Total Hip Arthroplasty

**New!**



**1** Single Prong Acetabular Retractor - Standard  
See page 27 for more information.  
#6570



**2** Mueller-type Femoral Neck Elevator - Standard  
See page 15 for more information.  
#3415



**3** Cobra Retractor - Standard with Sharp Tip  
See page 34 for more information.  
#6129



**4** Deep Hohmann-style Retractor with Large Handle - Standard  
See page 25 for more information.  
#C1009



**5** Modified Hohmann Retractor - Narrow  
See page 27 for more information.  
#4535



**6** Cobra Retractor - Narrow  
See page 34 for more information.  
#6120



**7** Bent Hohmann Retractor - Narrow with Extra Long Handle  
See page 28 for more information.  
#7110-01



**8** Bone Hook - Large  
See page 45 for more information.  
#5920



**9** Rivero Extra Grip Femoral Head Remover with Zimmer Hall Quick-connect  
#3706

PRODUCT NO'S:	
6500-01	[DAA Retractor Set] Set includes (2) #6120 and (1) of the other instruments shown below
<b>Set Includes / Available Individually:</b>	
6570	[Single Prong Acetabular Retractor - Standard] Overall Length: 12.125" (30,8 cm) Blade Width: 22.3 mm
3415	[Mueller-type Femoral Neck Elevator - Standard] Overall Length: 13.5" (34,3 cm) Handle Length: 6.5" (16,5 cm) Blade Width at Widest: 25 mm
6129	[Cobra Retractor - Standard w/Sharp Tip] Overall Length: 12" (30,5 cm) Handle Length: 7" (17,8 cm) Blade at Widest: 33 mm
C1009	[Deep Hohmann-style Retractors with Large Handle - Standard] Overall Length: 15.75" (40 cm) Handle Length: 6.125" (15,6 cm) Blade Depth: 4.5" (11,4 cm) Blade Width: 1.1" (2,8 cm) Prong Length: 1.5" (3,8 cm)
4535	[Modified Hohmann Retractor - Narrow] Overall Length: 10" (25,4 cm) Blade Width: 14 mm
6120	[Cobra Retractor - Narrow] <b>(2) included in set, (1) only with this product number</b> Overall Length: 11.75" (29,8 cm) Handle Length: 6.5" (16,5 cm) Blade Width: 19 mm
7110-01	[Bent Hohmann Retractor - Narrow with Extra Long Handle] Overall Length: 11.5" (29,2 cm) Handle Length: 10" (25,4 cm) Blade Width: 19 mm Depth from Bend: 4.25" (10,8 cm)
5920	[Bone Hook - Large] Curve Diameter: 50 mm Overall Length: 12.75" (32,4 cm) Handle Length: 4.75" (12,1 cm)
3706	[Rivero Extra Grip Femoral Head Remover with Zimmer Hall Quick-connect] Overall Length: 8.5" (21,6 cm)



## Chandran Anterior Retractor for THR

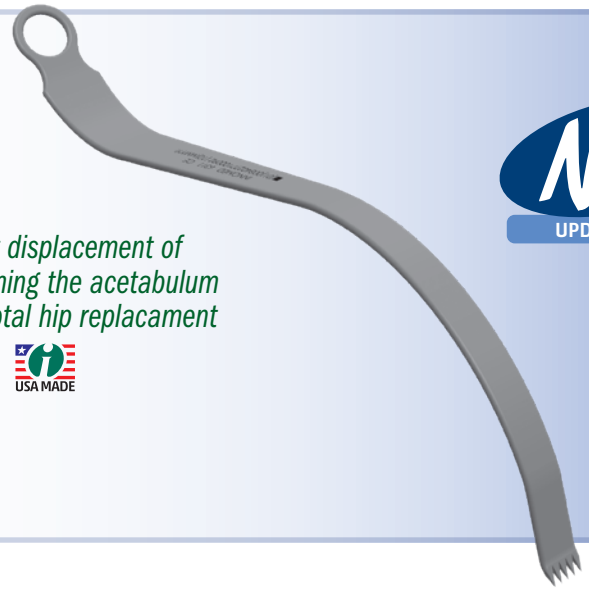
Designed by Rama E. Chandran, MD

Design helps to prevent displacement of the retractor while reaming the acetabulum during direct anterior total hip replacement

PRODUCT NO:
6311
Overall Length: 13.5" (34,3 cm)
Depth from Flat: 4.75" (12,1 cm)
Blade Width: .625" (1,6 cm)



**New!**  
UPDATED DESIGN

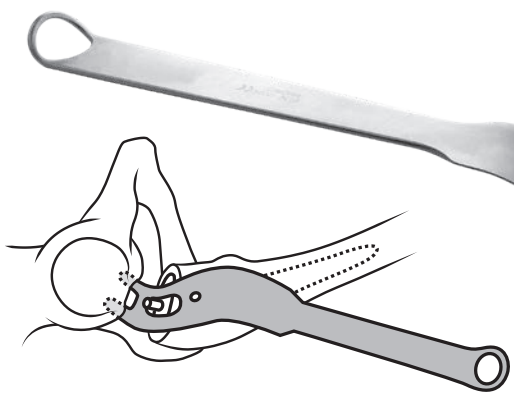


## Sinha Retractor for Acetabular Reaming

Design modification by Ajoy K. Sinha, MD

Designed to retract and protect the femur while preparing the acetabulum for reaming during antero-lateral approach total hip surgery

After the femur is prepared and the broach has been placed, the Sinha retractor is placed on the infero-lateral aspect of the acetabulum with the neck of the broach projecting through the large hole in the retractor blade. This serves to displace the femur posteriorly and to help protect the greater trochanter while acetabular reaming is conducted.



PRODUCT NO:
6174
Overall Length: 12.5" (31,8 cm)
Blade Width: 32 mm
Hole: 18 mm W x 33 mm H





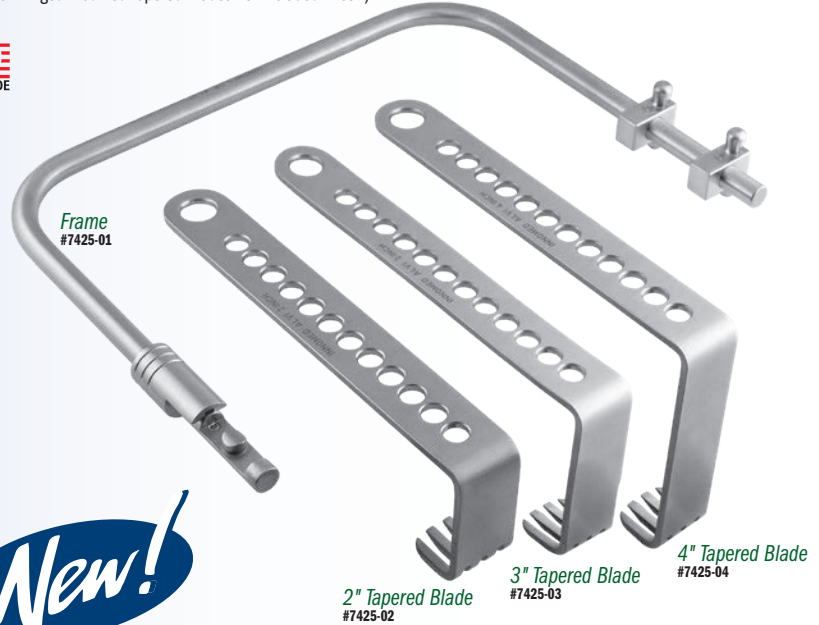


## Alvi Small Charnley Style Locking Frame Set

Designed by Hasham Alvi, MD

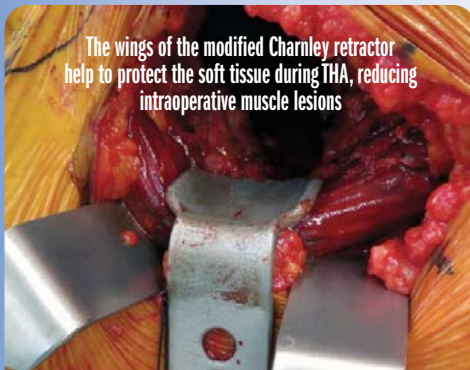
A self-retaining frame and retractor system designed for use during anterior total hip arthroplasty, the blades help retract the hip capsule and musculature, permitting an unobstructed view of the acetabulum while freeing an assistant

Set includes locking frame (7425-01) and one each of the three blade sizes: 2" (7425-02), 3" (7425-03), and 4" (7425-04). (Optional Winged Modified Tapered Blades not included in set.)



**New!**

PRODUCT NO'S:
7425-00 [Set]
<b>Set Includes / Also available individually:</b>
7425-01 [Small Charnley Style Locking Frame] Dimensions: 9" x 7" (22,9 cm x 17,8 cm)
7425-02 [2" Tapered Blade] Blade Depth: 2" (5,1 cm) Blade Width: 1" (2,54 cm) Handle Length: 7" (17,8 cm)
7425-03 [3" Tapered Blade] Blade Depth: 3" (7,6 cm) Blade Width: 1" (2,54 cm) Handle Length: 7" (17,8 cm)
7425-04 [4" Tapered Blade] Blade Depth: 4" (10,2 cm) Blade Width: 1" (2,54 cm) Handle Length: 7" (17,8 cm)
<b>Optional Blades (Not Included in Set):</b>
7425-02-MOD [Winged Modified 2" Tapered Blade] Blade Depth: 2" (5,1 cm) Blade Width: 1" (2,54 cm) Handle Length: 7" (17,8 cm)
7425-03-MOD [Winged Modified 3" Tapered Blade] Blade Depth: 3" (7,6 cm) Blade Width: 1" (2,54 cm) Handle Length: 7" (17,8 cm)
7425-04-MOD [Winged Modified 4" Tapered Blade] Blade Depth: 4" (10,2 cm) Blade Width: 1" (2,54 cm) Handle Length: 7" (17,8 cm)



The wings of the modified Charnley retractor help to protect the soft tissue during THA, reducing intraoperative muscle lesions

**Optional Winged Modified Tapered Blades**

Design modified by Prof. Dr. med. Andrej M. Nowakowski

Features a tapered, winged blade for gentler soft tissue retraction

Winged Modified 2" Tapered Blade #7425-02-MOD

Winged Modified 3" Tapered Blade #7425-03-MOD

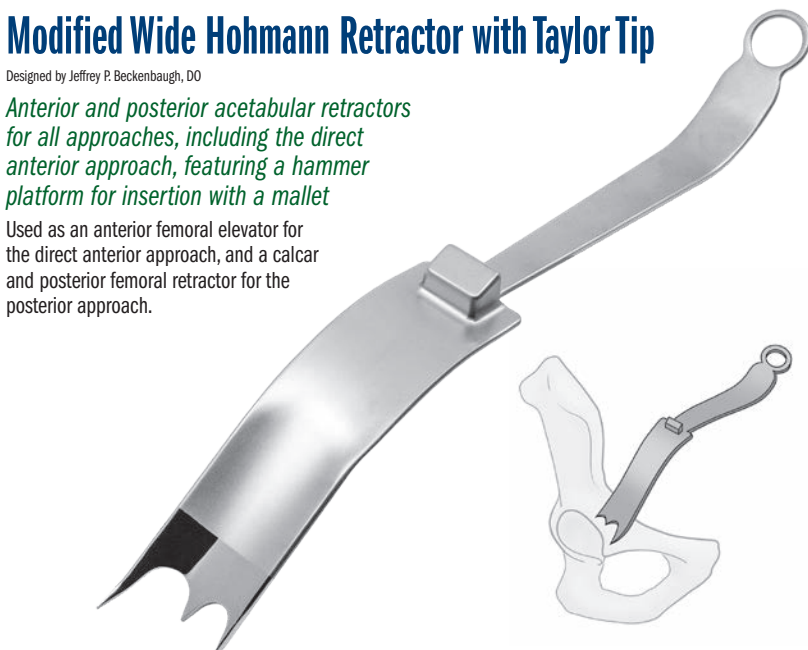
Winged Modified 4" Tapered Blade #7425-04-MOD

## Modified Wide Hohmann Retractor with Taylor Tip

Designed by Jeffrey P. Beckenbaugh, DO

Anterior and posterior acetabular retractors for all approaches, including the direct anterior approach, featuring a hammer platform for insertion with a mallet

Used as an anterior femoral elevator for the direct anterior approach, and a calcar and posterior femoral retractor for the posterior approach.



**New!**



PRODUCT NO'S:
3012-00 [Set - Left & Right]
<b>Also available individually:</b>
3012-L [Left] Overall Length: 14.75" (37,5 cm) Blade Depth: 5" (12,7 cm) Blade Width: 45 mm
3012-R [Right] Overall Length: 14.75" (37,5 cm) Blade Depth: 5" (12,7 cm) Blade Width: 45 mm

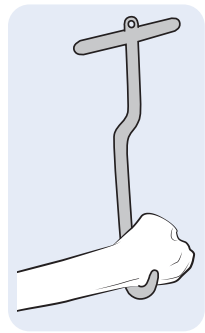


# Wixson Anterior Suspension Hook System

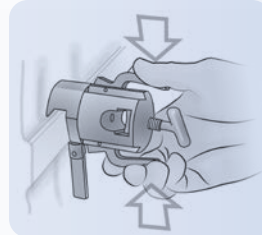
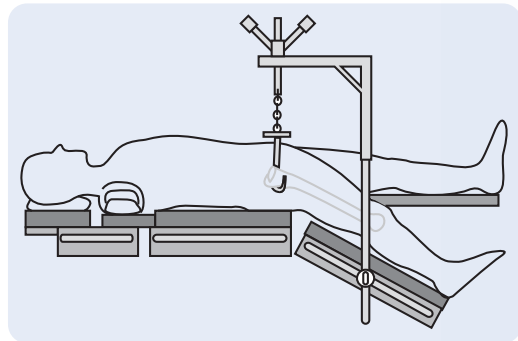
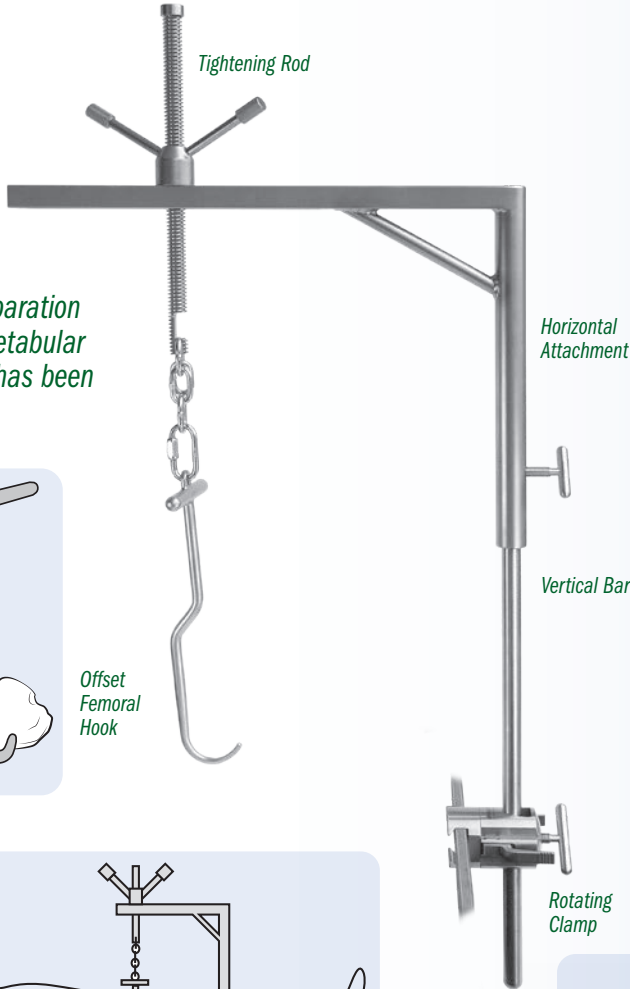
Designed by Richard L. Wixson, MD

Designed for use with a standard operating room table, helps to facilitate elevation of the proximal femur during direct anterior approach THR

Used for femoral preparation after the acetabular component has been implanted



Offset Femoral Hook



The system consists of:

- 1) A **rotating clamp** that can be attached to the operating table side rails over the drapes.
- 2) A **vertical bar** that fits into the clamp and comes above the side of the table.
- 3) A **horizontal attachment** that fits over the vertical bar and can swing over the wound.
- 4) A threaded **tightening rod** that inserts through a slot in the arm of the horizontal attachment and can be used to bring up the proximal femur.
- 5) A large **offset femoral hook** that can be placed above the lesser trochanter and around the posterior femoral neck and trochanter base. The handle of the hook has a chain to attach to the threaded tightening rod coming through the horizontal arm.

#### PRODUCT NO'S:

6245-00 [Complete Unit]

#### Replacement Parts:

6245-01 [Horizontal Attachment]

6245-02 [Tightening Rod]

6245-03 [Vertical Bar]

6245-04 [T-handle Bolt]

6245-05 [Offset Femoral Hook]

9125 [Rotating Table Clamp]

Complete unit includes:  
Tightening rod, horizontal attachment, vertical bar, T-handle bolt, offset femoral hook, and rotating table clamp



# Jeffers Hip Retractor

Designed by Andrew Jeffers, MD

For use during the anterior approach, this retractor is designed to help protect the TFL from laceration during acetabular preparation in addition to maximizing exposure

Used with or without a weight, it is placed over the TFL and vastus lateralis and under the femur. The broad surface helps to gently retract the TFL and vastus away from the reamer path.

#### PRODUCT NO:

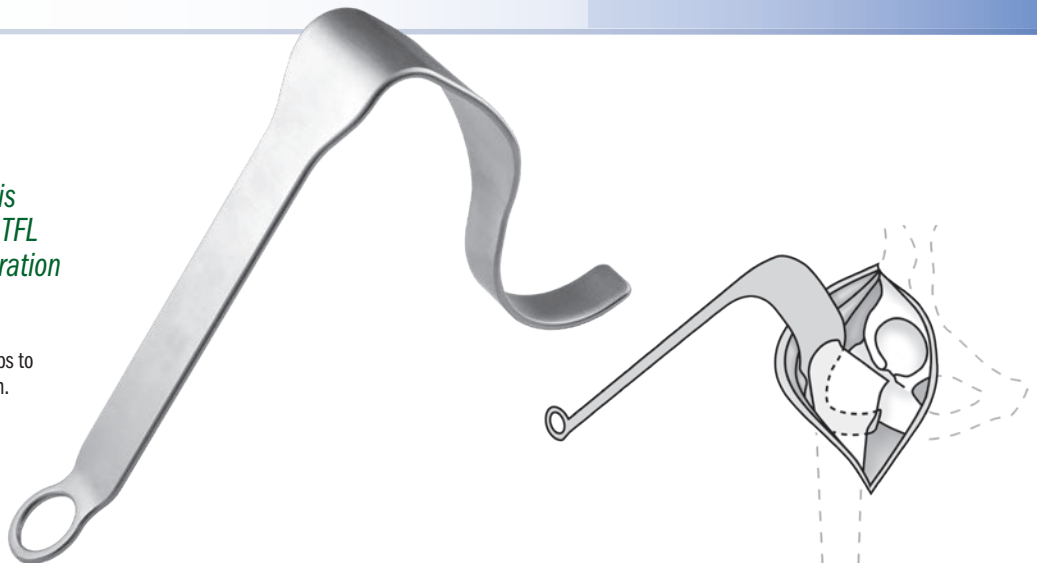
6384

Overall Length: 9.5" (24,1 cm)

Depth: 6.5" (16,5 cm)

Blade Width at Top: 1.8" (4,6 cm)

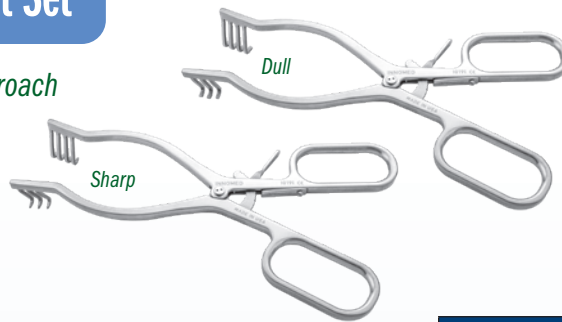
Blade Width at Bottom: .8" (2 cm)





# Basic Anterior Approach Instrument Set

*A Basic Starter Set for the Direct Anterior Approach  
Chosen by Edward J. Whelan III, MD*



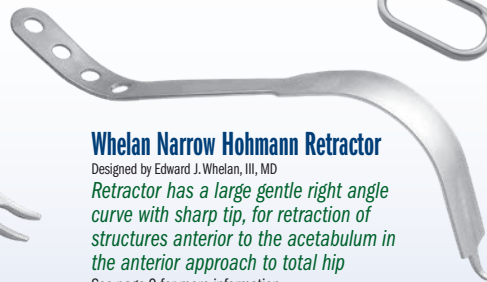
## Whelan Large Anterior Hip Weitlaner Retractor with Ergonomic Handle

Designed by Edward J. Whelan, III, MD  
Designed for self-retaining exposure during anterior approach THA  
See page 17 for more information.



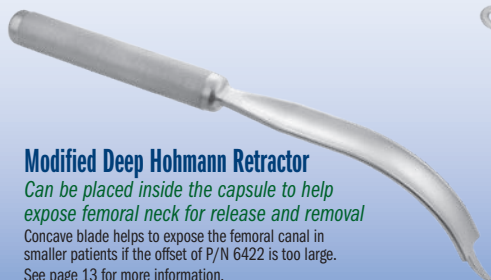
### Whelan Femoral Neck Elevator

Designed by Edward J. Whelan, III, MD  
Elevator has long tines to rest on the stronger bone at the base of the neck and calcar, and also fits well over the lesser trochanter and iliopsoas tendon for femoral broaching  
See page 15 for more information.



### Whelan Narrow Hohmann Retractor

Designed by Edward J. Whelan, III, MD  
Retractor has a large gentle right angle curve with sharp tip, for retraction of structures anterior to the acetabulum in the anterior approach to total hip  
See page 9 for more information.



### Modified Deep Hohmann Retractor

Can be placed inside the capsule to help expose femoral neck for release and removal  
Concave blade helps to expose the femoral canal in smaller patients if the offset of P/N 6422 is too large.  
See page 13 for more information.

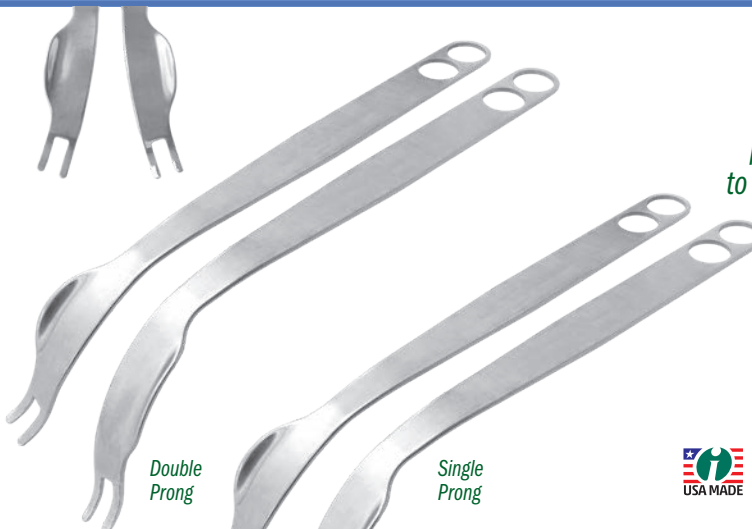
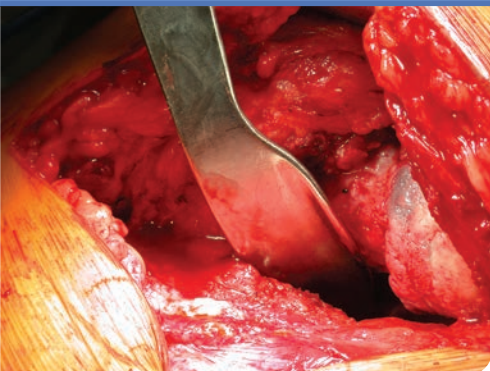


### Modified Anterior Hip Retractor

Trochanteric Retractor helps to expose femoral canal and helps protect gluteal muscles  
See page 12 for more information.

#### PRODUCT NO'S:

6165-00 [Basic Anterior Approach Instrument Set] Set includes (2) #6162 and (1) of the other instruments shown below
<b>Set Includes / Available Individually:</b>
1576-B [Whelan Large Weitlaner Retractor – Blunt] Overall Length: 9" (22,9 cm) Blade Depth: 1" (2,54 cm)
1576-S [Whelan Large Weitlaner Retractor – Sharp] Overall Length: 9" (22,9 cm) Blade Depth: 1" (2,54 cm)
3414 [Whelan Femoral Neck Elevator] Overall Length: 13.75" (34,9 cm) Depth from Bend: 1.5" (3,8 cm) Blade Width: 2,4 cm
6162 [Modified Deep Hohmann Retractor] <b>(2) included in set, (1) only with this product number</b> Overall Length: 14.5" (36,9 cm) Blade Width: 25 mm
7116 [Whelan Narrow Hohmann Retractor] Overall Length: 13.25" (33,7 cm) Depth from Bend: 4.5" (11,4 cm) Blade Width: 2,4 cm
6422 [Modified Anterior Hip Retractor – Wide Tip] Overall Length: 15.75" (40 cm) Blade Width: 1.15" (3 cm)



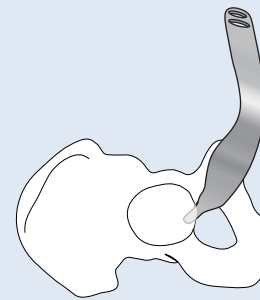
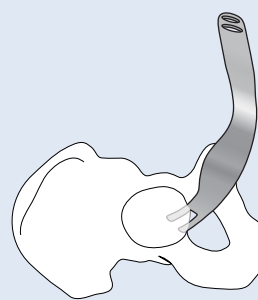
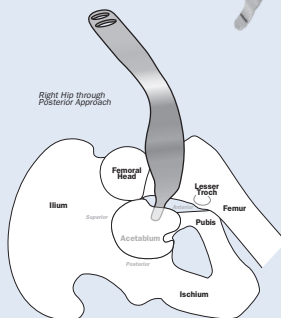
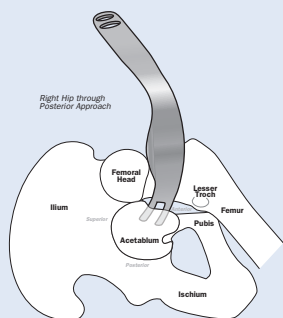
Left and right retractors can be used with the anterior, posterior or lateral approach to help expose the acetabulum in total hip surgery

## Flared Cobra Retractors

Designed by Henry Boucher, MD  
Single prong design modification by Walter Frueh, MD

#### PRODUCT NO'S:

6110-01 [Double Prong – Right] Overall Length: 15" (38 cm)
6110-02 [Double Prong – Left] Overall Length: 15" (38 cm)
6109-L [Single Prong – Left] Overall Length: 15" (38 cm)
6109-R [Single Prong – Right] Overall Length: 15" (38 cm)



**POSTERIOR APPROACH:** Placed over the anterior acetabular wall for supero-anterior translation of the femoral head and neck during acetabular preparation. The prong(s) pierce the capsule over the anterior wall, then the curve and "twist" of the retractor allows for gentle retraction on the femoral neck.

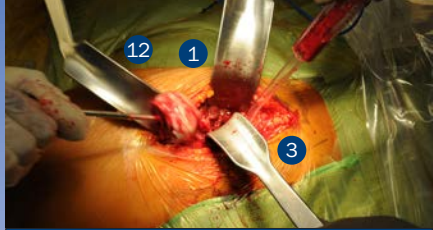
**ANTERIOR APPROACH:** Placed inferior to the trans-acetabular ligament during exposure and preparation of the acetabular component. The curve and "twist" of the retractor allow for gentle retraction of the medial and inferior soft tissues and skin. Helps provide easier retraction for the assistant on the other side of the operating table.

# Unger Anterior Total Hip Instruments

Designed by Anthony Unger, MD

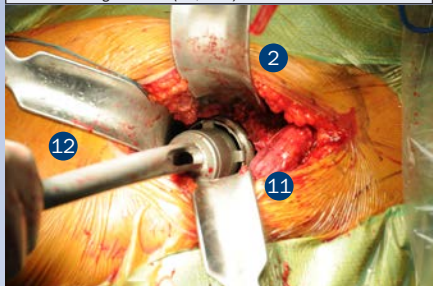
Universal instrument system specifically designed for Direct Anterior approach THR

Dr. Unger's surgical technique available on our website.

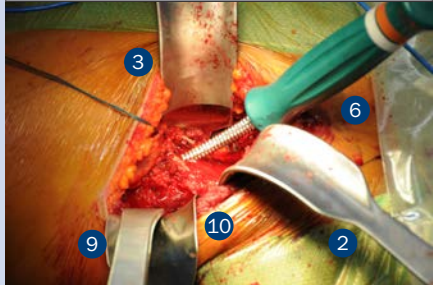


**PRODUCT NO.'S:**

- 3001 [Unger Wide Hohmann–Single Prong]  
Blade Width: 44 mm  
Blade Depth: 5" (12,7 cm)  
Overall Length: 13.5" (34,3 cm) 1
- 3008 [Unger Wide Hohmann–Double Prong]  
Blade Width: 44 mm  
Blade Depth: 5" (12,7 cm)  
Overall Length: 13.5" (34,3 cm) 2
- 3002 [Unger Narrow Hohmann]  
Blade Width: 34 mm  
Blade Depth: 4" (10,2 cm)  
Overall Length: 13" (33 cm) 3
- 3003 [Unger Blunt Narrow Cobra]  
Blade Width at Tip: 12 mm  
Blade Depth: 5.25" (13,3 cm)  
Overall Length: 14.5" (36,9 cm) 4



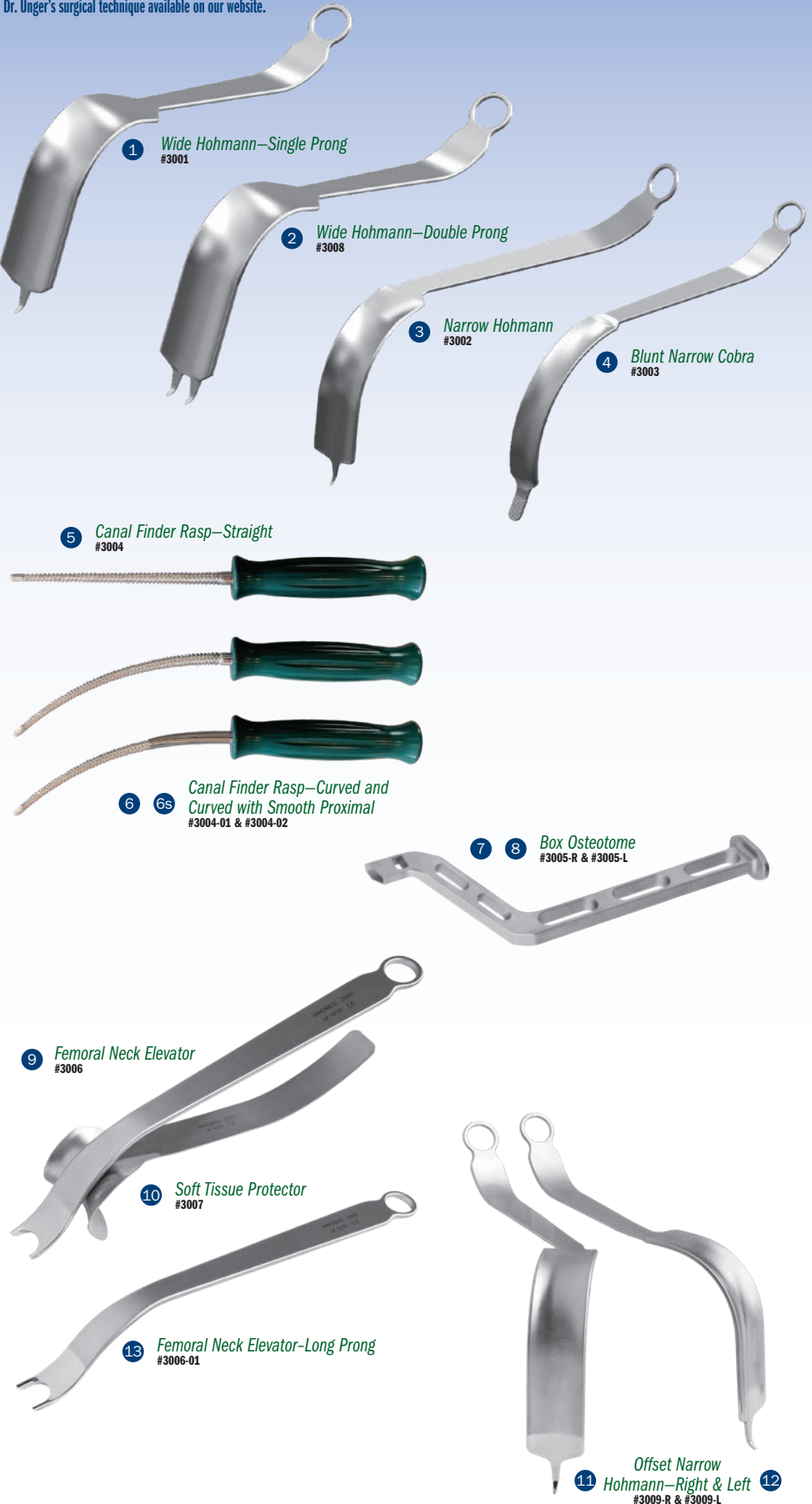
- 3004 [Unger Canal Finder Rasp–Straight]  
Overall Length: 11" (27,9 cm)  
Handle Length: 5" (12,7 cm) 5
- 3004-01 [Unger Canal Finder Rasp–Curved]  
Overall Length: 11" (27,9 cm)  
Handle Length: 5" (12,7 cm) 6
- 3004-02 [Unger Canal Finder Rasp–Curved with Smooth Proximal]  
Overall Length: 11" (27,9 cm)  
Handle Length: 5" (12,7 cm) 6s
- 3005-R [Unger Box Osteotome–Right]  
Overall Length: 12" (30,5 cm) 7
- 3005-L [Unger Box Osteotome–Left]  
Overall Length: 12" (30,5 cm) 8
- 3006 [Unger Femoral Neck Elevator]  
Blade Width at Widest: 25 mm  
Overall Length: 13" (33 cm)  
Handle Length: 9" (22,9 cm) 9



- 3007 [Unger Soft Tissue Protector]  
Blade Width: 50 mm  
Overall Length: 1.75" (4,4 cm)  
Handle Length: 10.125" (25,7 cm) 10
- 3009-R [Unger Offset Narrow Hohmann–Right]  
Blade Width: 34 mm  
Overall Depth: 4" (10,2 cm)  
Overall Length: 13" (33 cm) 11
- 3009-L [Unger Offset Narrow Hohmann–Left]  
Blade Width: 34 mm  
Overall Depth: 4" (10,2 cm)  
Overall Length: 13" (33 cm) 12

**Optional Instruments:**

- 3006-01 [Femoral Neck Elevator–Long Prong]  
Blade Width at Widest: 25 mm  
Overall Length: 13.4" (34 cm)  
Handle Length: 9" (22,9 cm) 13





## Multi-Purpose Hip & Knee Retractors

Designed by Vasilios Mathews, MD

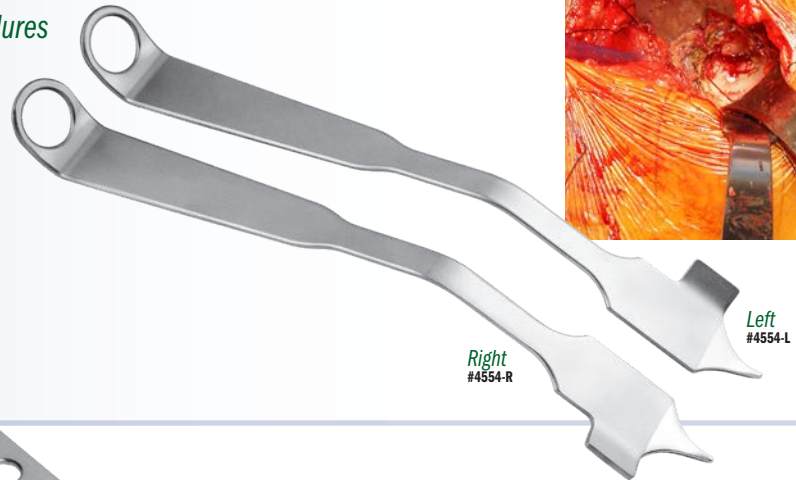
*Designed for use in both hip and knee arthroplasty procedures*

During direct anterior hip arthroplasty procedures, the fin of this retractor fits the contours of the acetabular rim and retracts the anterior soft tissues, while the short length of the spike helps limit the penetration into the neurovascular zones.

In knee surgery, the retractors can be used to help protect the patellar tendon behind the fin at the lateral tibial border. Also useful as a soft-tissue and fat pad retractor during prosthesis implantation, helping to ensure a dry cancellous bed for cementation.

### PRODUCT NO'S:

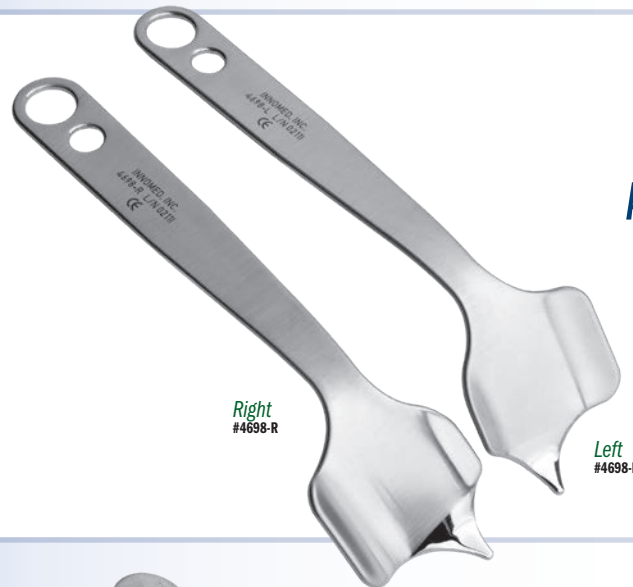
4554-L [Left] Overall Length: 11.25" (28,6 cm) Blade Width: 1.5" (38 mm)	4554-R [Right] Overall Length: 11.25" (28,6 cm) Blade Width: 1.5" (38 mm)
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- ▶ Lateral flange protects the muscle of tensor fascia lata and soft tissues during insertion and removal of femoral broaching instruments
- ▶ Narrow tip for deep placement posterior to the femoral neck, anterior to the greater trochanter
- ▶ Rotation of the retractor handle helps keep the instrument against the patient and out of the surgeon's line of sight

### PRODUCT NO'S:

4698-L [Left] Overall Length: 9.5" (24,1 cm) Blade Width: 57 mm	4698-R [Right] Overall Length: 9.5" (24,1 cm) Blade Width: 57 mm
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## O'Reilly Direct Access Anterior Broaching Retractor

Designed by Michael P. O'Reilly, MD

*Designed for use in obtaining improved proximal exposure for femoral canal preparation during minimally invasive direct anterior THA*

## Whelan Narrow Hohmann Retractor

Designed by Edward J. Whelan III, MD

*Retractor has a large gentle right angle curve with sharp tip, for retraction of structures anterior to the acetabulum in the anterior approach to total hip*

Helps allow for visibility without undue pressure or traction on the femoral nerve or vessels.

### PRODUCT NO:

7116 Overall Length: 13.25" (33,7 cm) Depth from Bend: 4.5" (11,4 cm) Blade Width: 2,4 cm
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## Stowell Modified Posterior Acetabular Retractor

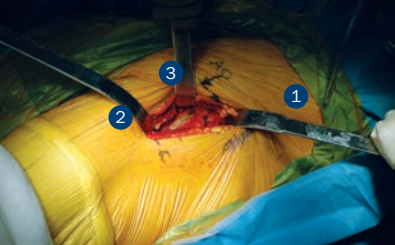
Designed by R.L. Stowell, MD

*Designed to be placed along the posterior rim of the acetabulum to facilitate exposure and acetabular preparation*

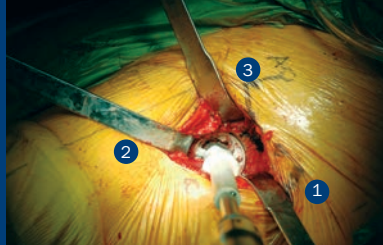
### PRODUCT NO:

7330 Overall Length: 14.5" (36,9 cm) Handle Length: 5.25" (13,3 cm) Blade Depth: 4" (10,4 cm) Blade Width: 2.75" (7 cm) Prongs: 8 mm Wide x 6 mm Long
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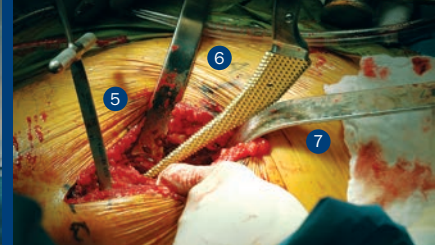
Exposure of the hip joint & removal of the femoral head



Acetabular exposure, reaming and cup insertion



Table Assembly/Elevator Hook for femoral access



Femoral broaching and stem insertion

# Das/Seng Anterior Total Hip Instruments

Designed by Amal Das, MD and Brian Seng, DO

Retractor set with included table-mounted controlled-release ratcheting elevator hook, specifically designed to help simplify anterior approach total hip arthroplasty

Surgical technique available on our website.



1 Posterior Femoral Neck / Inferior Acetabular Rim Retractor #6221

2 Anterior Femoral Neck / Anteromedial Rim Retractor #6222

3 Anterolateral Acetabular Rim Retractor #6223

6 Femoral Calcar Retractor #6227

7 Greater Trochanteric Retractor #6225



4 Table Mounted Hook Hoist #6226-TA

5 Proximal Femoral Hook #6226-RH



PRODUCT NO'S:	
6226-00	[Complete Set]
<b>Set Includes / Available Individually:</b>	
6221	[#1 - Posterior Femoral Neck / Inferior Acetabular Rim Retractor]
1	Blade Width: 25 mm Blade Depth: 3" (7,6 cm) Overall Length: 14" (35,6 cm)
6222	[#2 - Anterior Femoral Neck / Anteromedial Rim Retractor]
2	Blade Width: 31.5 mm, 10 mm @ Tip Blade Depth: 4.5" (10,2 cm) Overall Length: 15" (38,1 cm)
6223	[#3 - Anterolateral Acetabular Rim Retractor]
3	Blade Width: 18 mm Blade Depth: 3.25" (8,3 cm) Overall Length: 10" (25,4 cm)
6226-TA	[#4 - Table Mounted Hook Hoist]
4	<b>This product number includes one 6226-RH Elevator Hook</b> Folds to approx: 21" x 5" x 5" (53,4 cm x 12,7 cm x 12,7 cm)
6226-RH	[#5 - Proximal Femoral Hook]
5	Blade Depth from T-Handle: 7.5" (19,1 cm) Overall Length: 9.25" (23,5 cm)
6227	[#6 - Femoral Calcar Retractor]
6	Blade Width: 25 mm Blade Depth: 2" (5,1 cm) Overall Length: 14.5" (36,9 cm)
6225	[#7 - Greater Trochanteric Retractor]
7	Blade Width: 25 mm Blade Depth: 1.5" (3,8 cm) Overall Length: 14.875" (37,8 cm)



## O'Reilly Dual Handle Direct Anterior Retractor

Designed by Michael P. O'Reilly, MD

Can be used in MIS/Direct Anterior, Total Hip Arthroplasty, Posterior/Anterolateral THA, and Hemiarthroplasty.

**PRODUCT NO:**

3011  
 Overall Length: 13.25" (33,7 cm)  
 Blade Depth: 4.25" (10,8 cm)  
 Blade Width: 1" (2,5 cm)



Designed for use over the anterior pelvic rim during acetabular exposure in direct anterior THA, the dual handle design allows for use in both right and left hips, as well as easy exchange of the instrument between assistants

## Jana Lighted Cobra Retractor

Designed by Ajoy K. Jana, MD

Designed to enhance exposure & visualization

Excellent for use in acetabular exposure and total hip replacements. Especially useful for the anterior approach. The retractor can be attached to a fiber optic light cable with ACMI (female) connector. The retractor can be steam sterilized.

**PRODUCT NO:**

6119-L  
 Overall Length: 14.75" (37,5 cm)  
 Blade at Widest: 33 mm



## APC Hip Retractor Series

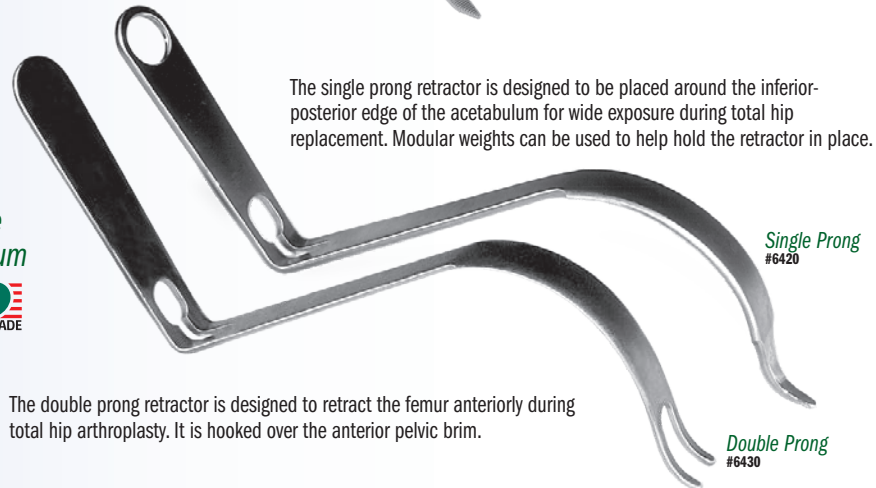
Designed by APC, Inc.

Used to help provide wide exposure of the acetabulum

**PRODUCT NO'S:**

6420 [Single Prong]  
 Overall Length: 14" (35,6 cm)  
 Blade Width: 22 mm

6430 [Double Prong]  
 Overall Length: 14" (35,6 cm)  
 Blade Width: 24 mm

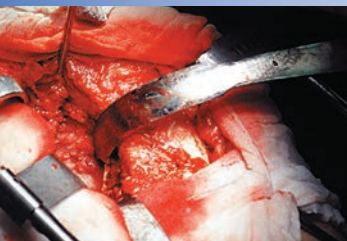
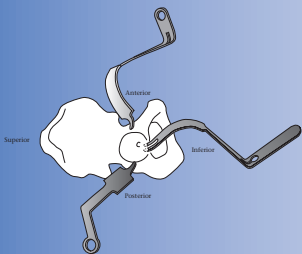


Single Prong #6420

Double Prong #6430

The single prong retractor is designed to be placed around the inferior-posterior edge of the acetabulum for wide exposure during total hip replacement. Modular weights can be used to help hold the retractor in place.

The double prong retractor is designed to retract the femur anteriorly during total hip arthroplasty. It is hooked over the anterior pelvic brim.



## Posterior Acetabular Retractor

Designed by Amal Das, MD and Brian Seng, DO

Designed for posterior acetabular retraction during anterior approach total hip replacement surgery

**PRODUCT NO:**

6224  
 Blade Width: 25 mm  
 Blade Depth: 2.75" (7 cm)  
 Overall Length: 14" (35,6 cm)



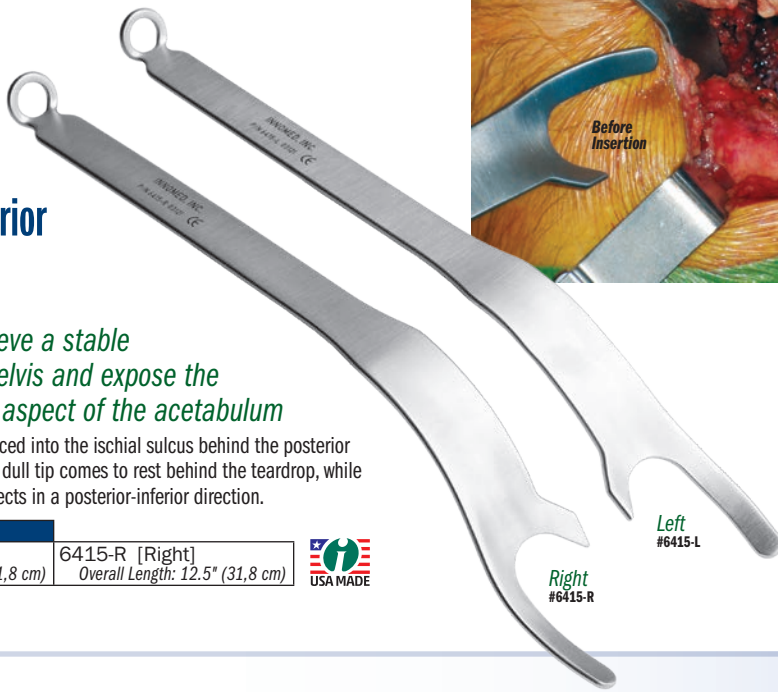
# Moran Posterior-Inferior Retractor

Designed by Michael C. Moran, MD

*Designed to achieve a stable position on the pelvis and expose the posterior-inferior aspect of the acetabulum*

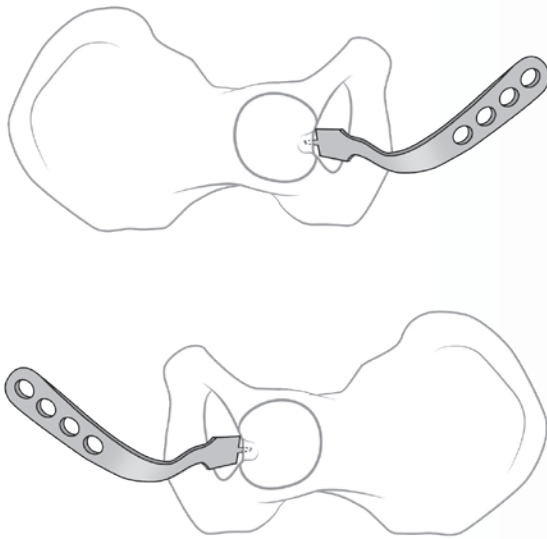
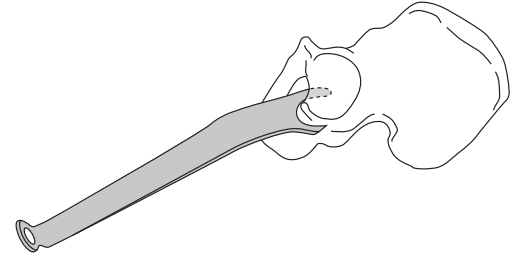
The short sharp tip is placed into the ischial sulcus behind the posterior acetabular rim. The long dull tip comes to rest behind the teardrop, while the retractor handle projects in a posterior-inferior direction.

PRODUCT NO'S:	
6415-L [Left] Overall Length: 12.5" (31,8 cm)	6415-R [Right] Overall Length: 12.5" (31,8 cm)



Left  
#6415-L

Right  
#6415-R

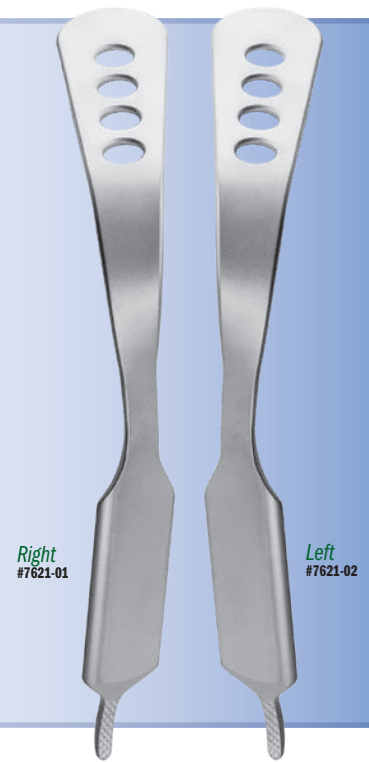


# Duke Classic Inferior Retractors with Extra Grip Tip

Designed by Justin Duke, MD

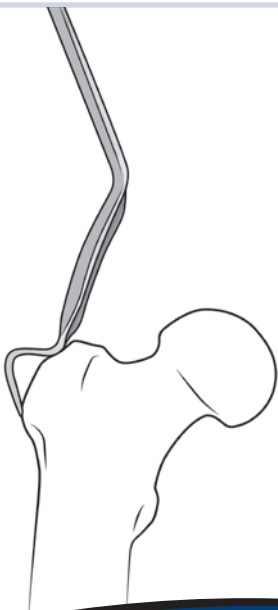
*An inferior acetabular retractor designed for total hip arthroplasty while prepping the acetabulum*

PRODUCT NO'S:	
7621-01 [Left] Overall Length: 10.25" (26 cm) Handle Length: 5" (12,7 cm) Depth: 7.5" (19,1 cm) Blade Length: 2.75" (7 cm) Blade Width: 1.125" (2,9 cm) Prong Length: 1" (2,5 cm) Prong Width: 6 mm	7621-02 [Right] Overall Length: 10.25" (26 cm) Handle Length: 5" (12,7 cm) Depth: 7.5" (19,1 cm) Blade Length: 2.75" (7 cm) Blade Width: 1.125" (2,9 cm) Prong Length: 1" (2,5 cm) Prong Width: 6 mm



Right  
#7621-01

Left  
#7621-02



# Modified Anterior Hip Retractor

*Designed to provide exposure of the proximal femur*

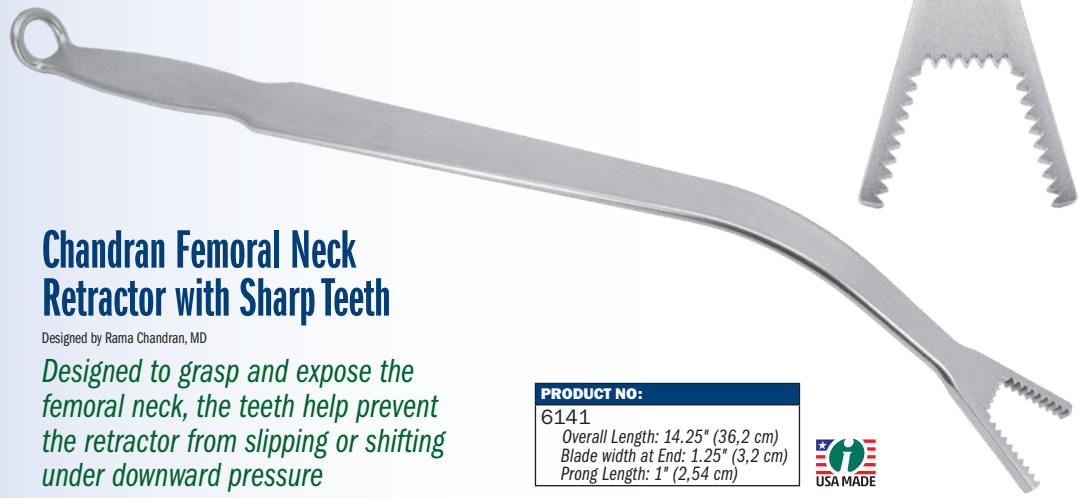
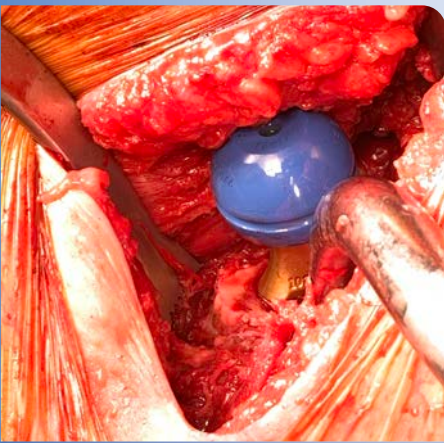
PRODUCT NO'S:	
6421 [Narrow Tip] Overall Length: 15.75" (40 cm) Blade Width: 1.15" (3 cm)	6422 [Wide Tip] Overall Length: 15.75" (40 cm) Blade Width: 1.15" (3 cm)



Wide  
#6422

Narrow  
#6421





## Chandran Femoral Neck Retractor with Sharp Teeth

Designed by Rama Chandran, MD

*Designed to grasp and expose the femoral neck, the teeth help prevent the retractor from slipping or shifting under downward pressure*

<b>PRODUCT NO:</b>
6141
Overall Length: 14.25" (36,2 cm)
Blade width at End: 1.25" (3,2 cm)
Prong Length: 1" (2,54 cm)

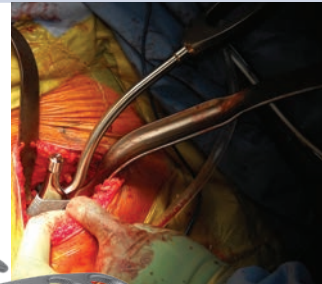
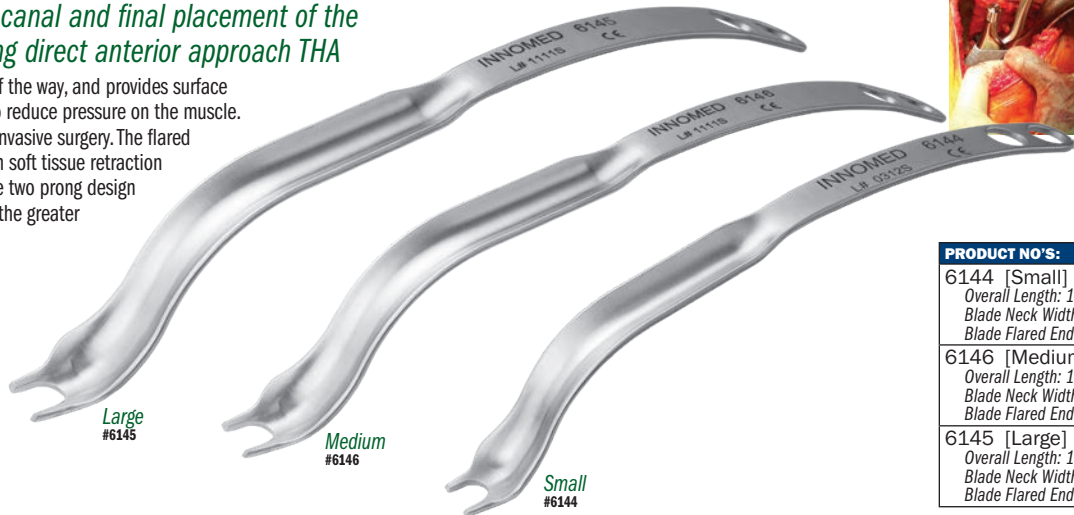
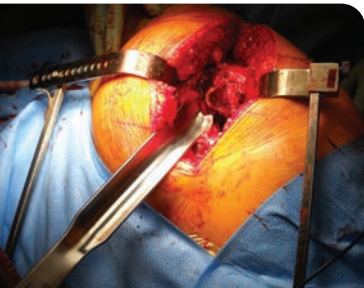


## Bozeman Direct Anterior THA Femoral Elevator

Designed by Daniel M. Gannon, MD

*Designed to elevate the femur anteriorly, providing exposure to allow broaching of the femoral canal and final placement of the femoral component, during direct anterior approach THA*

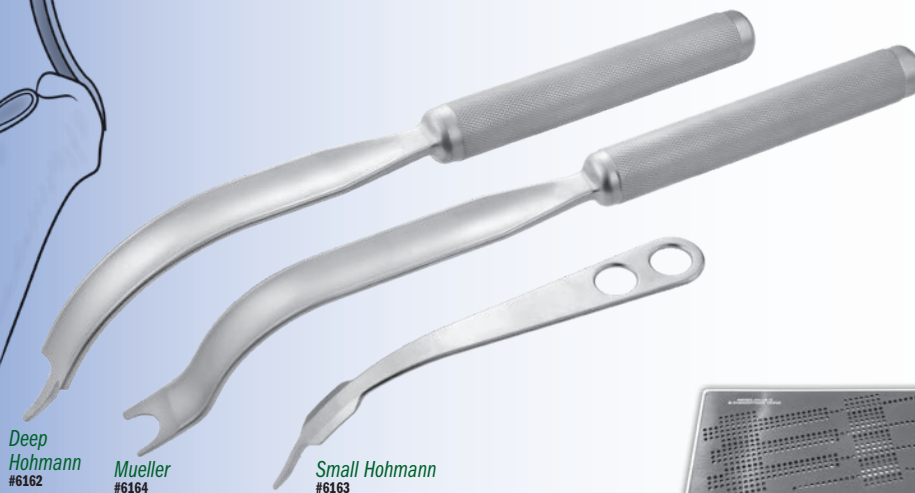
Helps to retract the TFL muscle out of the way, and provides surface area for the fulcrum effect, helping to reduce pressure on the muscle. Narrow designs helpful in minimally invasive surgery. The flared end joins the prongs to help maintain soft tissue retraction away from the broach teeth, while the two prong design helps placement lateral to the tip of the greater trochanter and elevates the femur.



<b>PRODUCT NO'S:</b>
6144 [Small]
Overall Length: 11.5" (29,2 cm)
Blade Neck Width: 26,1 mm
Blade Flared End Width: 30,1 mm
6146 [Medium]
Overall Length: 13.5" (34,3cm)
Blade Neck Width: 29,8 mm
Blade Flared End Width: 34,7 mm
6145 [Large]
Overall Length: 15.5" (39,4 cm)
Blade Neck Width: 33,6 mm
Blade Flared End Width: 39,3 mm

## ABLE Advanced Anterior Approach Set

*Designed for anterior MIS hip surgery*



<b>PRODUCT NO'S:</b>
6161-00 [Set]
Set includes: (2) 6162, (1) 6163, (1) 6164
6161-01 [Set with Case]
Set includes: (2) 6162, (1) 6163, (1) 6164, (1) 6161-SC
Also available individually:
6162 [Modified Deep Hohmann Retractor – A]
(2) included in set, (1) only with this product number
Overall Length: 14.5" (36,9 cm)
Blade Width: 25 mm
6163 [Modified Small Hohmann Retractor – B]
Overall Length: 8.5" (21,6 cm)
Blade Width: 18 mm
6164 [Modified Mueller Retractor – C]
Overall Length: 15.25" (38,8 cm)
Blade Width: 25 mm
6161-SC [Storage Case]



Set In Case



## Wertz Anterior THA Femoral Elevator

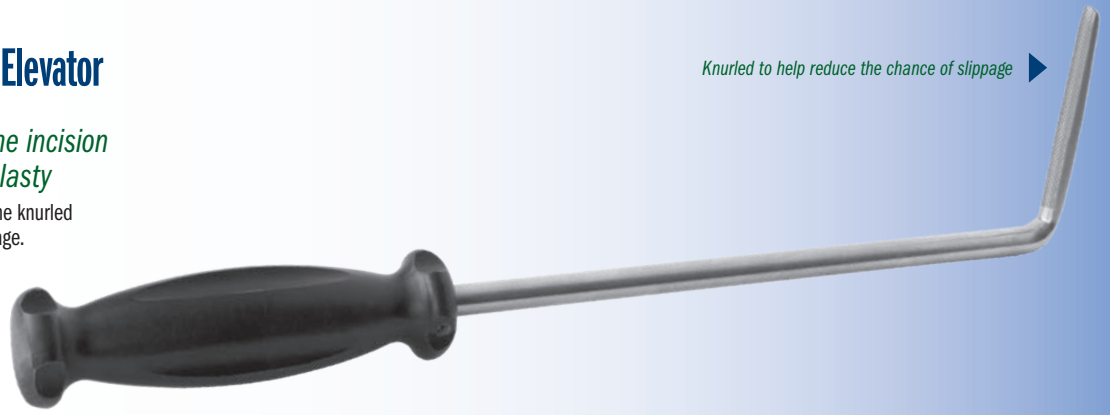
Designed by Michael P. Wertz, MD

*Helps deliver the femur out of the incision during anterior total hip arthroplasty*

Inserted into the femoral canal for elevation, the knurled underside helps to reduce the chance of slippage.

Knurled to help reduce the chance of slippage ▶

**PRODUCT NO:**  
6148  
Overall Length: 12.625" (32,1 cm)  
Blade Length: 3" (7,6 cm)



## Alvi Modified Hohmann Retractor

Designed by Hasham Alvi, MD

*Designed for use during minimally invasive anterior hip replacement surgery, the retractor is placed through the capsule, into the femoral head, allowing for retraction of the rectus femoris*

The extra bend in the handle allows the assistant to stand on the operative side of the table allowing for ease of handling of the retractor.

**PRODUCT NO:**  
4549  
Overall Length: 8.75" (22,2 cm)  
Blade Width: .75" (19 mm)

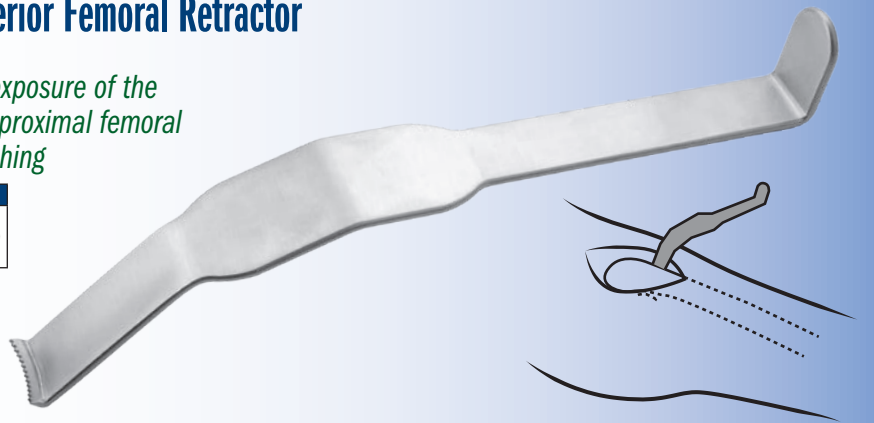


## Hope Direct Anterior Femoral Retractor

Designed by Charles A. Hope, MD

*Designed to aid in exposure of the calcar femorale for proximal femoral exposure and broaching*

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



## Hur Modified Mueller-type Femoral Neck Elevator

Wide blade design modification by John Hur, MD

*Designed for the anterior approach to help expose the femoral calcar during broaching*

The modified Mueller-type design non-forked end helps reduce stress risers and fractures.

**PRODUCT NO:**  
3416  
Overall Length: 13" (33 cm)  
Handle Length: 6.5" (16,5 cm)  
Blade Width at Widest: 1.25" (31,7 mm)





## Kim Anterior Total Hip Awl

Designed by William C. Kim, MD

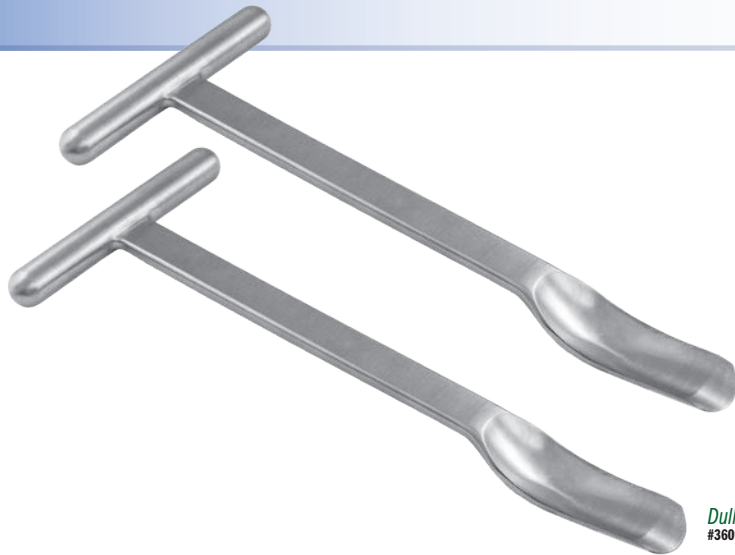
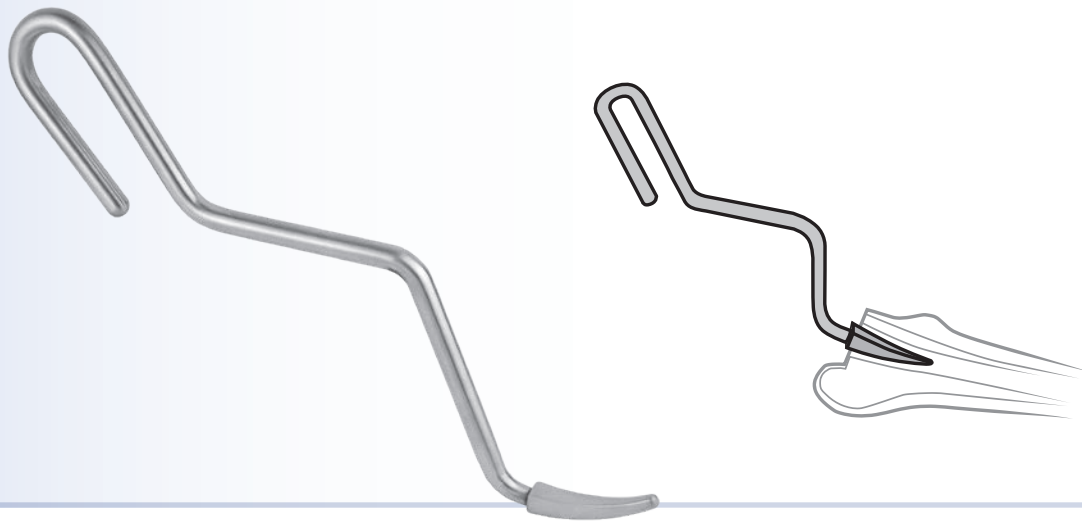
*Designed to help avoid perforation of the femoral canal while helping to give an accurate assessment of canal orientation for trial broaching during anterior approach THA*

**PRODUCT NO:**

8028

Overall Length: 12" (30,5 cm)

Blunt Reamer Length: 2" (5,1 cm)



Sharp  
#3608

Dull  
#3609

## Huddleston Femoral Head Removers

Designed by H. Dennis Huddleston, MD

*Designed to help lever a femoral head out of the acetabulum in standard and anterior approach total hip replacement*

**PRODUCT NO'S:**

3608 [Sharp]

Overall Length: 10.5" (26,7 cm)

Scoop Length: 3" (7,6 cm)

Scoop Width: 29 mm

3609 [Dull]

Overall Length: 10.5" (26,7 cm)

Scoop Length: 3" (7,6 cm)

Scoop Width: 29 mm



## Mueller-type Femoral Neck Elevator

*Designed to elevate the proximal femur*

**PRODUCT NO:**

3415

Overall Length: 13.5" (34,3 cm)

Handle Length: 6.5" (16,5 cm)

Blade Width at Widest: 25 mm



## Whelan Femoral Neck Elevator

Designed by Edward J. Whelan III, MD

*Elevator has long tines to rest on the stronger bone at the base of the neck and calcar, and also fits well over the lesser trochanter and iliopsoas tendon for femoral broaching*



**PRODUCT NO:**

3414

Overall Length: 13.75" (34,9 cm)

Depth from Bend: 1.5" (3,8 cm)

Blade Width: 2,4 cm



## Wide Acetabular Retractor

**PRODUCT NO:**

6303  
 Blade Width: 40 mm  
 Blade Tip Length: 17 mm  
 Overall Length: 12.75" (32,4 cm)



## DAA Canal Finder Rasp

*Designed to help begin preparation of the femoral canal prior to stem broaching – features a large handle with a striking plate end*

**PRODUCT NO:**

C1026  
 Overall Length: 13.125" (33,4 cm)  
 Handle Length: 6" (15,2 cm)  
 Maximum Shaft Diameter: 13 mm



## Curved Canal Rasps

Design modification by Michael Messieh, MD  
 of original design by Anthony Unger, MD.

*Designed for preparation of the femoral canal for insertion of a cemented or cementless hip stem, the multiple diameters serve to prepare the femoral canal after the initial 5 mm is used to find the curvature of the canal*

**PRODUCT NO'S:**

3004-01-08 [8 mm]  
 Overall Length: 11" (27,9 cm)  
 Handle Length: 5" (12,7 cm)  
 3004-01-10 [10 mm]  
 Overall Length: 11" (27,9 cm)  
 Handle Length: 5" (12,7 cm)  
 3004-01-12 [12 mm]  
 Overall Length: 11" (27,9 cm)  
 Handle Length: 5" (12,7 cm)



## T-Handle Femoral Canal Finders

*Designed to sound the femoral canal prior to stem broaching, especially useful to help start the broach path during the direct anterior approach*

### Rockowitz T-Handle Femoral Canal Finder Rasp

**PRODUCT NO:**

4990  
 Overall Length: 9" (22,9 cm)  
 Curved Rasp Portion: 4" (10,2 cm)

Designed by  
 Neal L. Rockowitz, MD



### T-Handle Femoral Canal Finder – Smooth

**PRODUCT NO:**

4990-03 [Smooth]  
 Overall Length: 9.385" (24,4 cm)



### Modified T-Handle Femoral Canal Finder Rasp

**PRODUCT NO:**

4989  
 Overall Length: 9" (22,9 cm)  
 Curved Rasp Portion: 4" (10,2 cm)



**ORIGINAL  
 DR. ROCKOWITZ DESIGN  
 Topside Rasp**

Rasp on curve topside and sides,  
 smooth on underside



**SMOOTH DESIGN**

No rasp – smooth underside,  
 sides, and topside



**MODIFIED DESIGN  
 Underside Rasp**

Rasp on curve underside and sides,  
 smooth on topside







## Inferior Acetabular Retractors

Help provide better access to the intramedullary canal

PRODUCT NO'S:	
6250 [Standard]	Overall Length: 12" (30,5 cm) Handle Length: 8" (20,3 cm) Blade Height Above Prongs: 3" (7,6 cm) Blade Width: 51 mm Prong Width: 5,1 mm   9,7 mm Gap   5,1 mm
6255 [Narrow]	Overall Length: 12" (30,5 cm) Handle Length: 8" (20,3 cm) Blade Height Above Prongs: 3.25" (8,3 cm) Blade Width: 32 mm Prong Width: 5,1 mm   9,7 mm Gap   5,1 mm

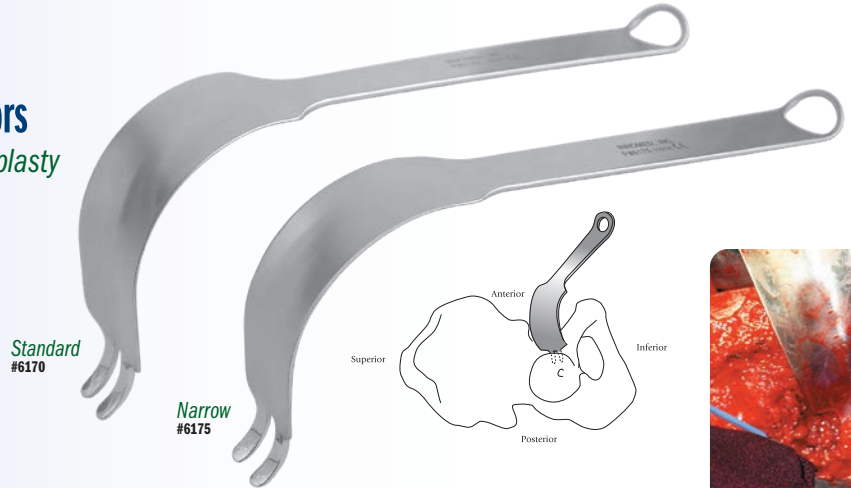


## Modified Double Prong Acetabular Retractors

Retracts the femur anteriorly during total hip arthroplasty

Designed to retract the femur anteriorly during total hip arthroplasty. It is hooked over the anterior pelvic brim. Weights can be added to assist in exposure and to help hold the retractor in place.

PRODUCT NO'S:	
6170 [Standard]	Blade Width: 44 mm Overall Length: 12.5" (31,8 cm)
6175 [Narrow]	Blade Width: 32 mm Overall Length: 12.5" (31,8 cm)

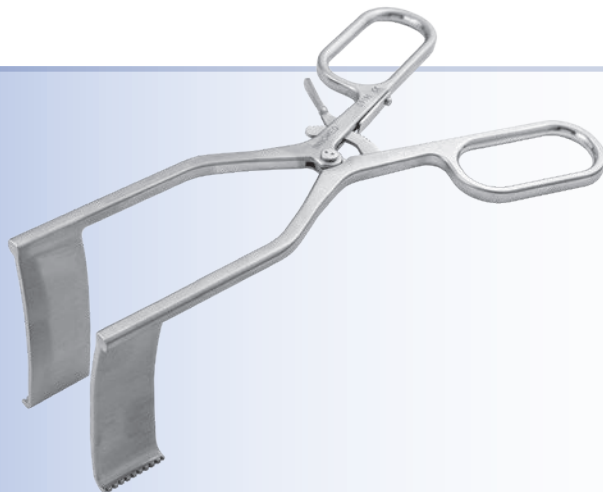
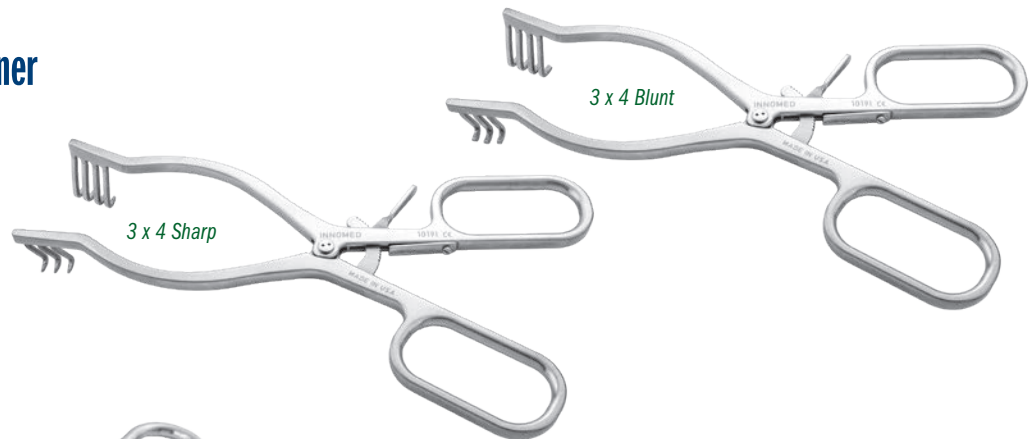


## Whelan Large Anterior Hip Weitlaner Retractor with Ergonomic Handle

Designed by Edward J. Whelan III, MD

Designed for self-retaining exposure during anterior approach THA

PRODUCT NO'S:	
1576-B [Blunt]	Overall Length: 9" (22,9 cm) Blade Depth: 1" (2,54 cm)
1576-S [Sharp]	Overall Length: 9" (22,9 cm) Blade Depth: 1" (2,54 cm)



## 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)



# Rogozinski Reverse Angle Retractor

Designed by Chaim Rogozinski, MD

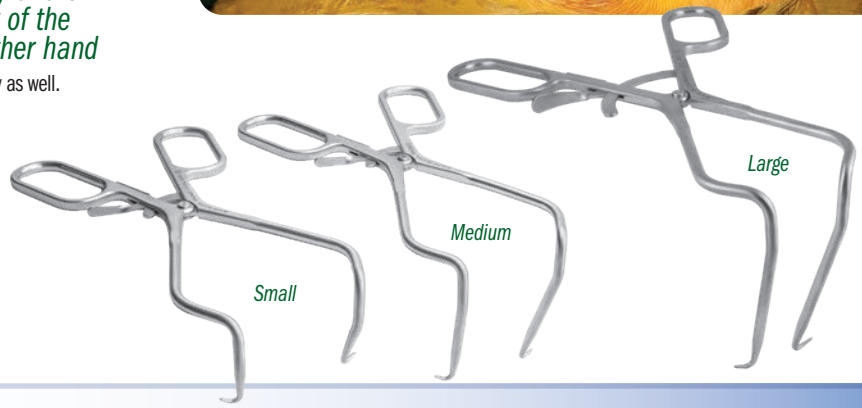
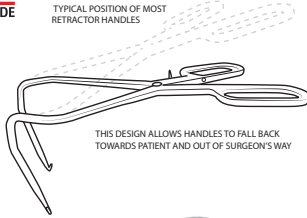
Designed to be self-leveling, helping to maintain the body of the retractor on the patient for soft tissue retraction and out of the surgeons field, with finger loops designed for use with either hand

PRODUCT NO'S:	
4272 [Large]	Overall Length: 9" (22,9 cm) Length to Bend: 8.5" (21,6 cm) Depth: 4.25" (10,8 cm)
4273 [Medium]	Overall Length: 8" (20,3 cm) Length to Bend: 8" (20,3 cm) Depth: 3" (7,6 cm)
4274 [Small]	Overall Length: 8" (20,3 cm) Length to Bend: 8" (20,3 cm) Depth: 1.75" (4,4 cm)

Designed for spine but can be used for hip surgery as well.



TYPICAL POSITION OF MOST RETRACTOR HANDLES

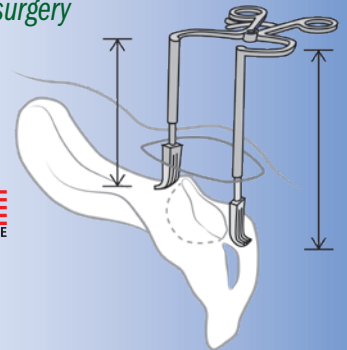


# Durham Offset Zelpi Retractor

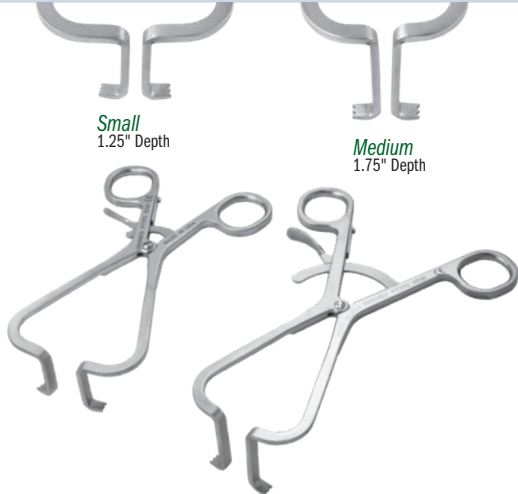
Designed by Alfred Durham, MD

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:	
1573-L [Left]	Overall Length: 8.5" (21,6 cm) Leg Depths: 3.1" & 4.2" (7,9 cm & 10,7 cm)
1573-R [Right]	Overall Length: 8.5" (21,6 cm) Leg Depths: 3.1" & 4.2" (7,9 cm & 10,7 cm)

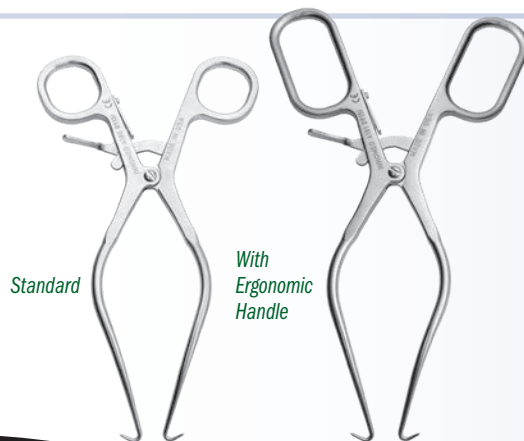
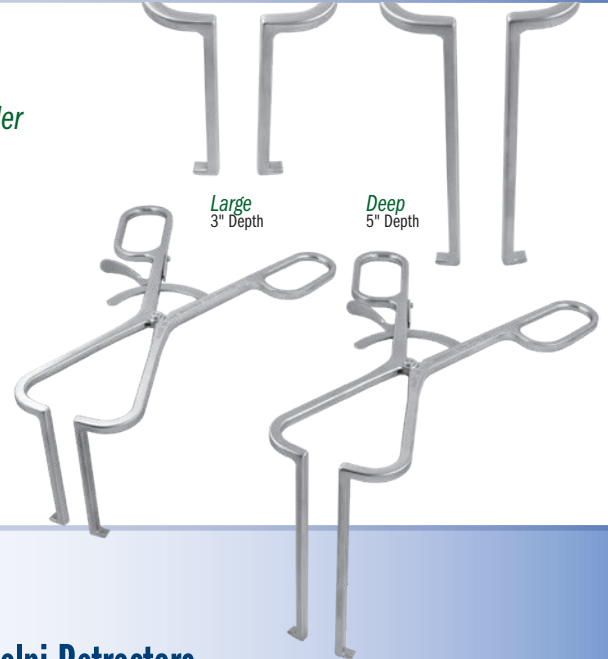


# Flat Gelpi Retractors

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

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



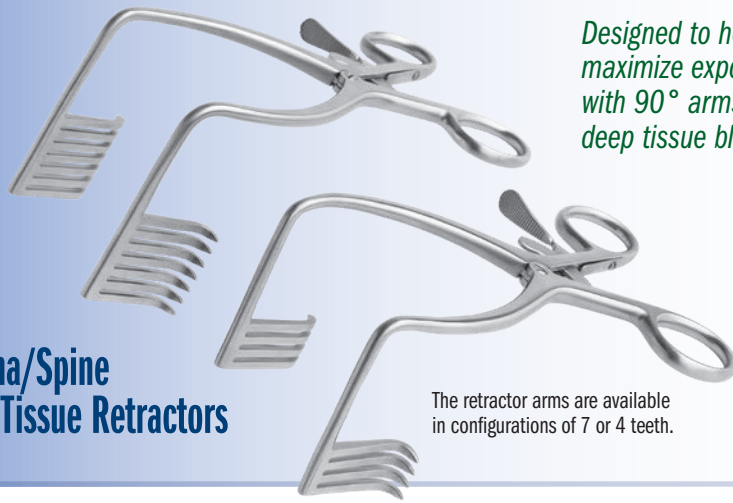
# Gelpi Retractors

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





## Trauma/Spine Deep Tissue Retractors



Designed to help maximize exposure with 90° arms and deep tissue blades

The retractor arms are available in configurations of 7 or 4 teeth.



MADE EXCLUSIVELY FOR INVOICED IN GERMANY

### PRODUCT NO'S:

#### 1862 [4 Teeth]

Overall Length: 7.5" (19,1 cm)  
Handle-to-Bend Length: 6" (15,2 cm)  
Drop Depth: 3.25" (8,3 cm)  
Prongs: 1.5" Long x .75" Wide (38 mm x 19 mm)

#### 1863 [7 Teeth]

Overall Length: 7.5" (19,1 cm)  
Handle-to-Bend Length: 6" (15,2 cm)  
Drop Depth: 3.25" (8,3 cm)  
Prongs: 1.5" Long x 1.375" Wide (38 mm x 35 mm)

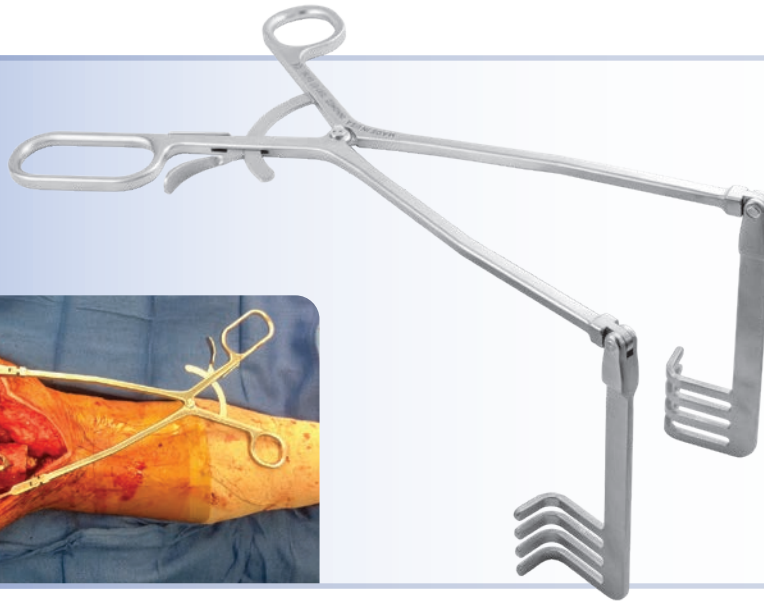
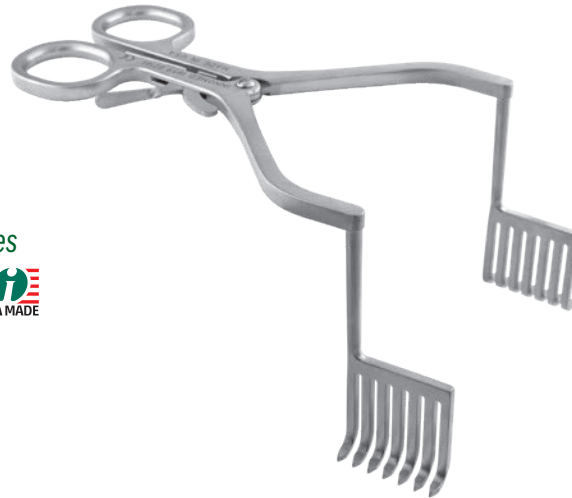
## Double Bent Extended Deep Tissue Retractor

Designed to help maximize exposure with 90° arms and deep tissue blades

### PRODUCT NO:

1859

Overall Length: 8.75" (22,2 cm)  
Handle-to-Bend Length: 6.5" (16,5 cm)  
Drop Depth: 3" (7,6 cm)  
Prongs: 1.5" Long x 1.375" Wide (3,8 cm x 3,5 cm)



## Large Exposure Self-Retaining Retractor

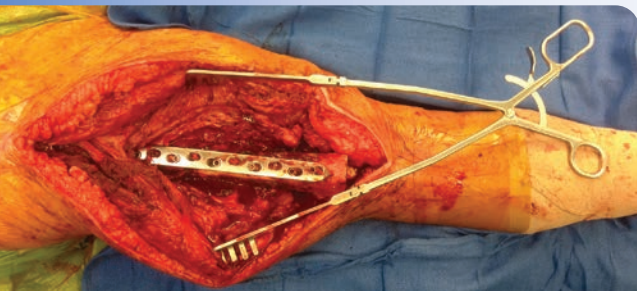
Designed by Vincent Ng, MD

Designed for effective exposure of large wounds

### PRODUCT NO:

1581-01

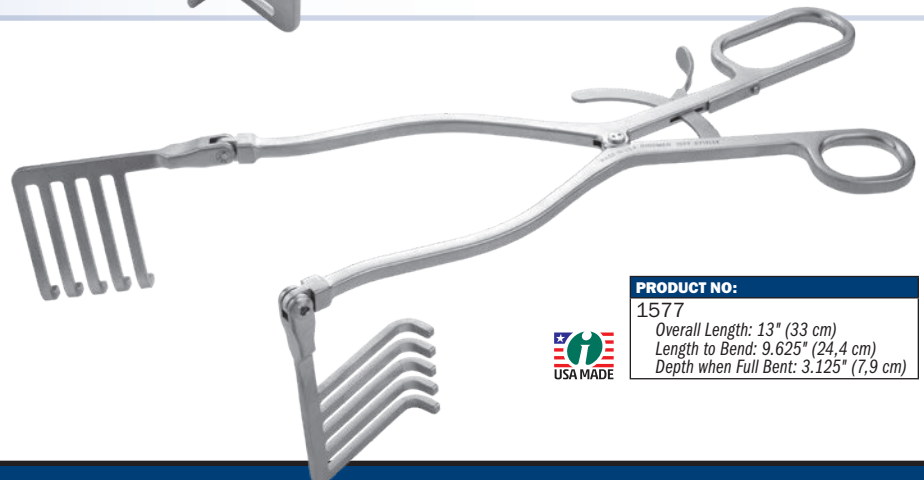
Overall Length (flat): 15.75" (40 cm)  
Leg Depth from Bend: 5.25" (13,3 cm)



## Alvi Beckman Self-Retaining Retractor

Designed by Hasham Alvi, MD

Designed for direct anterior approach hip arthroplasty, the wide, blunt and curved teeth help provide for better self-retaining retraction during dissection through the superficial and deep tissue planes to expose the hip joint



### PRODUCT NO:

1577

Overall Length: 13" (33 cm)  
Length to Bend: 9.625" (24,4 cm)  
Depth when Full Bent: 3.125" (7,9 cm)



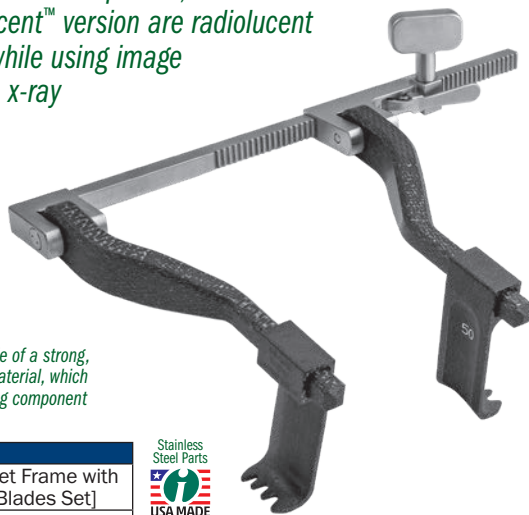
## Stainless Steel Hip Surgery Ratchet Frame with Arms and Blades Sets

Designed for self-retaining wound exposure, the arms and blades of the OrthoLucent™ version are radiolucent and can be kept in place while using image intensification or taking an x-ray

- ▶ Arms rotate 180°
- ▶ Mobile Arm unit can be detached from ratchet body for cleaning

### Set with OrthoLucent™ Arms and Blades

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

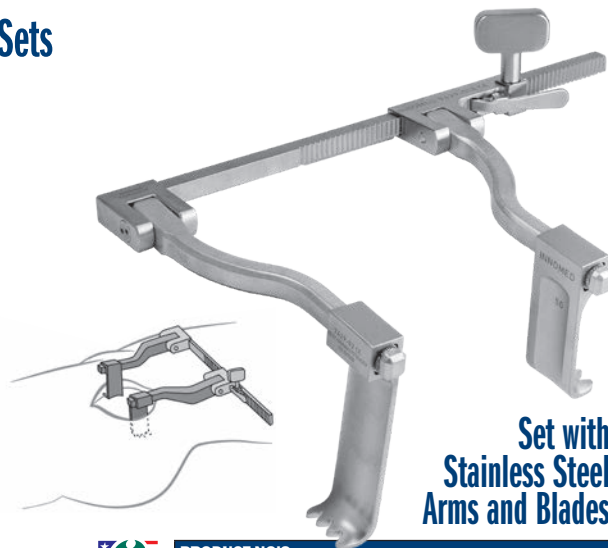


(1) 50 mm & (1) 75 mm blade included in each set.

Optional 100 mm blade available separately.



PRODUCT NO'S:	
7428-00	[Stainless Steel Ratchet Frame with OrthoLucent Arms & Blades Set]
<b>Set Includes / Available Individually:</b>	
7428-01	[Stainless Steel Ratchet Frame with OrthoLucent Arms Assembly] Dimensions (Flat): 10" x 5.625" (25,4 cm x 14,3 cm) Arms Extend: 4.25" (10,8 cm)
7427-02	[50 mm OrthoLucent Blade] Dimensions: 50 mm Deep X 25 mm Wide
7427-03	[75 mm OrthoLucent Blade] Dimensions: 75 mm Deep X 25 mm Wide
<b>Optional Blade - Not Included In Set:</b>	
7427-04	[100 mm OrthoLucent Blade] Dimensions: 100 mm Deep X 25 mm Wide



### Set with Stainless Steel Arms and Blades



PRODUCT NO'S:	
7429-00	[Stainless Steel Ratchet Frame with Stainless Steel Arms & Blades Set]
<b>Set Includes / Available Individually:</b>	
7429-01	[Stainless Steel Ratchet Frame with Stainless Steel Arms Assembly] Dimensions (Flat): 10" x 6" (25,4 cm x 15,3 cm) Arms Extend: 4.875" (12,4 cm)
7429-02	[50 mm Stainless Steel Blade] Dimensions: 50 mm Deep X 25 mm Wide
7429-03	[75 mm Stainless Steel Blade] Dimensions: 75 mm Deep X 25 mm Wide
<b>Optional Blade - Not Included In Set:</b>	
7429-04	[100 mm Stainless Steel Blade] Dimensions: 100 mm Deep X 25 mm Wide

## Romanelli Deep Gelpi Retractor

Designed by Ron Romanelli, MD

Offers the versatility and ability to be used on minimally invasive total hip replacements anteriorly or posteriorly, and can also be useful in spine surgery

PRODUCT NO:
4270
Overall Length: 7.45" (18,9 cm)
Depth from Bend: 5.125" (13 cm)
Prong Length: .5" (13 mm)



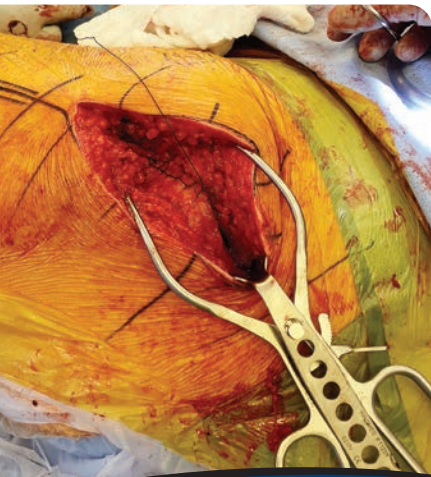
- ▶ Can be used to hold the hip capsule out of the way for easy visualization, and to allow reaming of the acetabulum without catching the capsule in the reamer
- ▶ The ends of the retractor have dull tips to help avoid soft tissue damage
- ▶ Wider separation occurs at the deep capsule level
- ▶ Holds the muscle out of the way while retracting the capsule
- ▶ Also helpful in MIS Spine approaches

## Stulberg Incision Close Gelpi & Blade Set

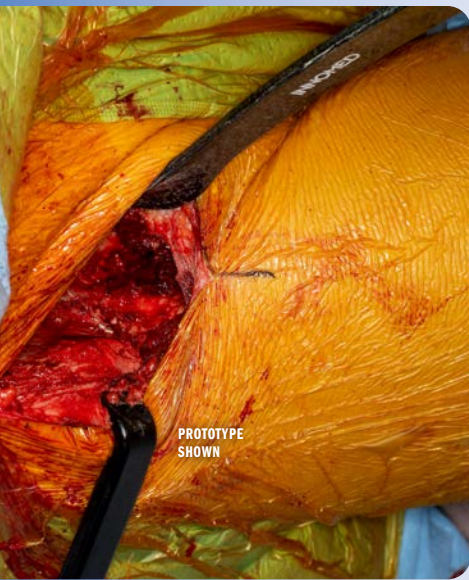
Designed by S. David Stulberg, MD

Designed to help expose difficult to visualize areas at the end of incisions

PRODUCT NO'S:	
4269-00	[Set - 1 Gelpi & 1 Blade]
<b>Also available Individually:</b>	
4269-01	[Gelpi] Overall Length: 7.25" (18,4 cm) Maximum Spread Width: 3.5" (8,9 cm)
4269-02	[Blade] Overall Length: 5.5" (14 cm) Blade Width: 1" (2,54 cm) Blade Bend-Back Angle: 130°







## Sierra OrthoLucent™ Soft Tissue Retractor

Designed by Rafael J. Sierra, MD

*Radiolucent retractor designed for soft tissue protection of lateral muscles during pelvic osteotomy surgery*

Manufactured of delrin and aluminum.

**PRODUCT NO:**

4849

Overall Length: 10.25" (26 cm)

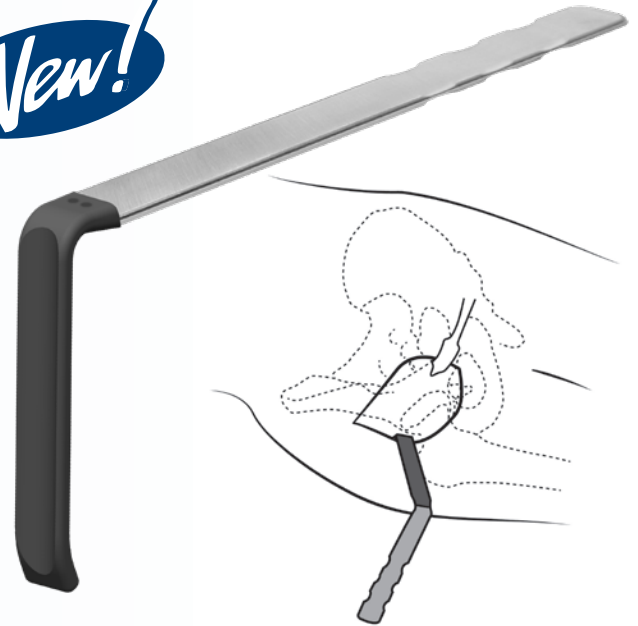
Handle Length: 9" (22,9 cm)

Blade Depth: 4" (10,2 cm)

Blade Width: .75" (19 mm)



**New!**



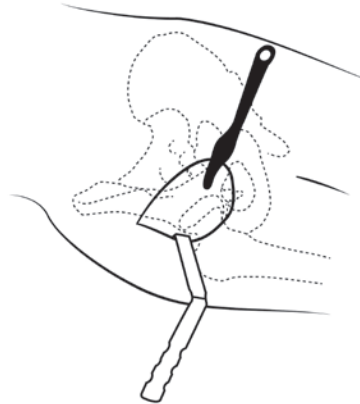
## Sierra OrthoLucent™ EVA Pelvic Osteotomy Retractor

Designed by Rafael J. Sierra, MD



**New!**

*Designed to help with retraction of the inner pelvis for direct visualization of the inner pelvis prior to iliac osteotomy, the retractor is made of a lightweight carbon fiber PEI composite material*



The OrthoLucent™ carbon fiber PEI material is radiolucent, helps to prevent from marring component surfaces, and can be steam sterilized.

**PRODUCT NO:**

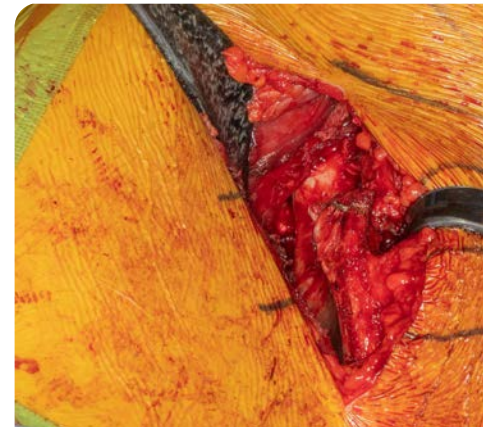
4541

Overall Length: 10.7" (27,2 cm)

Blade Width at Widest: 24,5 mm

Blade Width at End: 10 mm

MADE EXCLUSIVELY FOR INNOVED BY SWITZERLAND



## Paprosky Acetabular Spreader

Designed by Wayne Paprosky, MD

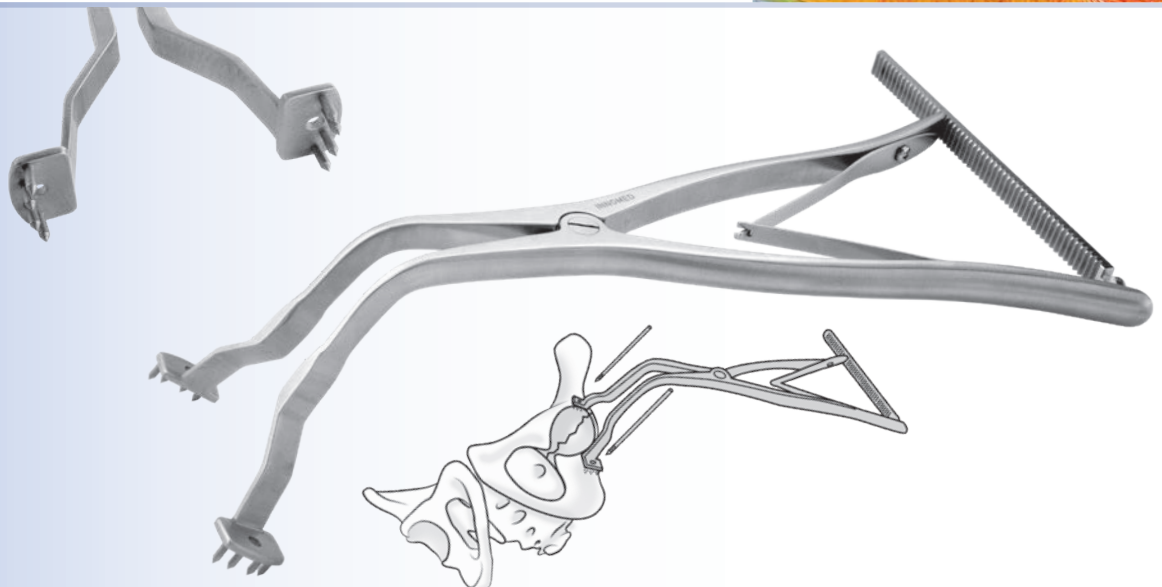
*Designed to distract an acetabular discontinuity*

**PRODUCT NO:**

1879

Overall Length: 12" (30,5 cm)

Pads: 14 mm x 22 mm





# Extra Deep Hip Retractors

All Extra Deep retractors are 2" (5 cm) longer in the blade portion than their standard version.

For hip surgery with large patients, and when extra large instruments are desired for increase depth and leverage



PRODUCT NO'S:	
3418 [Extra Deep Mueller-type Femoral Neck Elevator] Overall Length: 15.25" (38,8 cm) Handle Length: 6.5" (16,5 cm) Blade Width at Widest: 25 mm	1
4535-01 [Extra Deep Modified Narrow Hohmann] Overall Length: 11.5" (29,2 cm) Blade Width: 16.4 mm	2
4540-01 [Extra Deep Long Narrow Blunt Hohmann] Overall Length: 13.25" (33,7 cm) Blade Width: 22 mm Blade Width at End: 16 mm	3
4550-01 [Extra Deep Modified Blunt Hohmann] Overall Length: 13.25" (33,7 cm) Blade Width at End: 11 mm	4
4558-01 [Extra Deep Hohmann] Overall Length: 11.5" (29,2 cm) Blade Width: 16.7 mm	5
6450-01 [Extra Deep Single Prong Soft Tissue] Overall Length: 13.75" (34,9 cm) Blade Width: 22.3 mm	6
6450-04 [Extra Deep Single Prong Soft Tissue Retractor - Short Tip] Overall Length: 13" (33 cm) Blade Width: 22.3 mm	6s
6570-01 [Extra Deep Single Prong Acetabular] Overall Length: 13.75" (34,9 cm) Blade Width: 22.3 mm	7
6595-01 [Extra Deep Modified Wide Hohmann] Overall Length: 11.5" (29,2 cm) Blade Width: 42.5 mm	8
7115-03 [Extra Deep Bent Hohmann] Overall Length: 12.125" (30,8 cm) Handle Length: 9.75" (24,8 cm) Depth from Bend: 6.25" (15,9 cm) Blade Width: 19 mm	9
7630-03 [Extra Deep Large Cobra] Overall Length: 19" (48,3 cm) Handle Length: 14" (35,6 cm) Blade Width at Widest: 33 mm	10

Extra Deep Mueller-type Femoral Neck Elevator design modification by Tom Eickmann, MD



1 Extra Deep Mueller-type Femoral Neck Elevator #3418

2 Extra Deep Modified Hohmann #4535-01

3 Extra Deep Long Narrow Blunt Hohmann #4540-01

4 Extra Deep Modified Blunt Hohmann #4550-01

5 Extra Deep Hohmann #4558-01

6 Extra Deep Single Prong Soft Tissue #6450-01

6s Extra Deep Single Prong Soft Tissue with Short Tip #6450-04

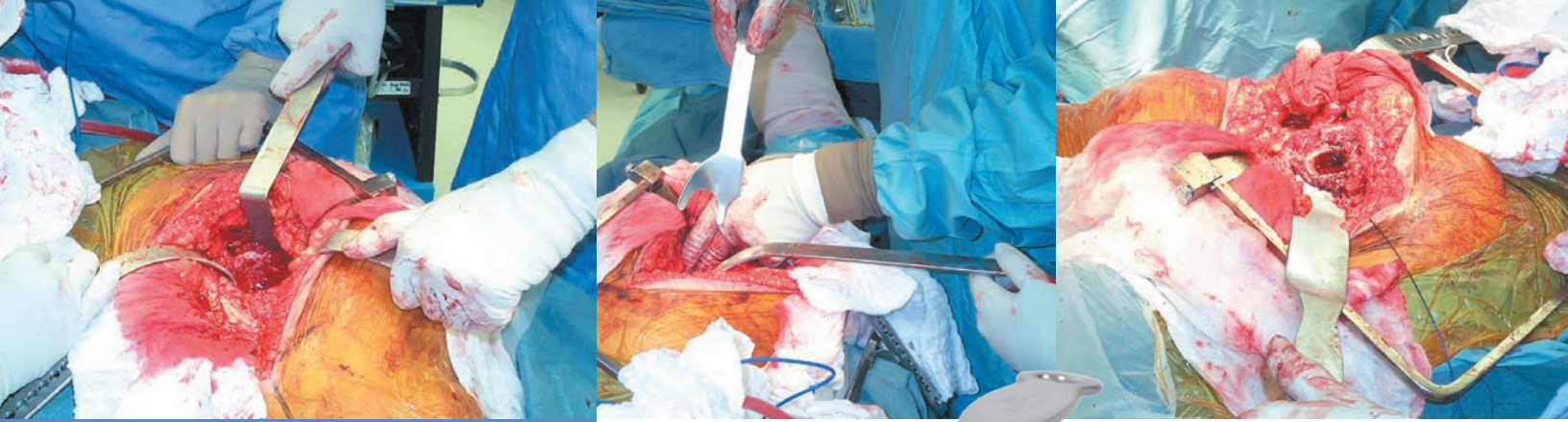
7 Extra Deep Single Prong Acetabular #6570-01

8 Extra Deep Modified Wide Hohmann #6595-01

9 Extra Deep Bent Hohmann #7115-03

10 Extra Deep Large Cobra #7630-03





# Extra Large Hip Retractors

Designed by Wayne M. Goldstein, MD

For hip surgery with large patients, and when extra large instruments are desired for increased leverage and depth

## Infero-posterior Acetabular Capsule Retractors

PRODUCT NO'S:	
7620-01 [Right]	Overall Length: 12" (30,5 cm) Handle-to-Bend Length: 6" (15,2 cm)
7620-02 [Left]	Overall Length: 12" (30,5 cm) Handle-to-Bend Length: 6" (15,2 cm)



## Large Cobra Retractors

PRODUCT NO'S:	
7630-01 [Standard]	Overall Length: 17.5" (44,5 cm) Handle Length: 14" (35,6 cm)
7630-02 [Wide]	Overall Length: 17.5" (44,5 cm) Handle Length: 14" (35,6 cm)



## Extra Leverage Proximal Femoral Elevator

PRODUCT NO:	
7640	Overall Length: 17.5" (44,5 cm) Handle Length: 13" (33 cm) Blade Width at Widest: 63 mm



## Extra Leverage Femoral Neck Elevators

PRODUCT NO'S:	
7650 [Standard]	Overall Length: 18.25" (46,4 cm) Handle Length: 9.25" (23,5 cm) Blade Width: 38mm
7650-02 [Short Handle]	Overall Length: 15.25" (38,8 cm) Handle Length: 6.25" (15,9 cm) Blade Width: 38 mm



Right Infero-posterior #7620-01

Left Infero-posterior #7620-02

Wide Cobra #7630-02

Standard Cobra #7630-01

Proximal Femoral Elevator #7640

Standard Extra Leverage Femoral Neck #7650

Short Handle Extra Leverage Femoral Neck #7650-02





## Goytia Stackable Hohmann Retractors

Designed by Robin N. Goytia, MD

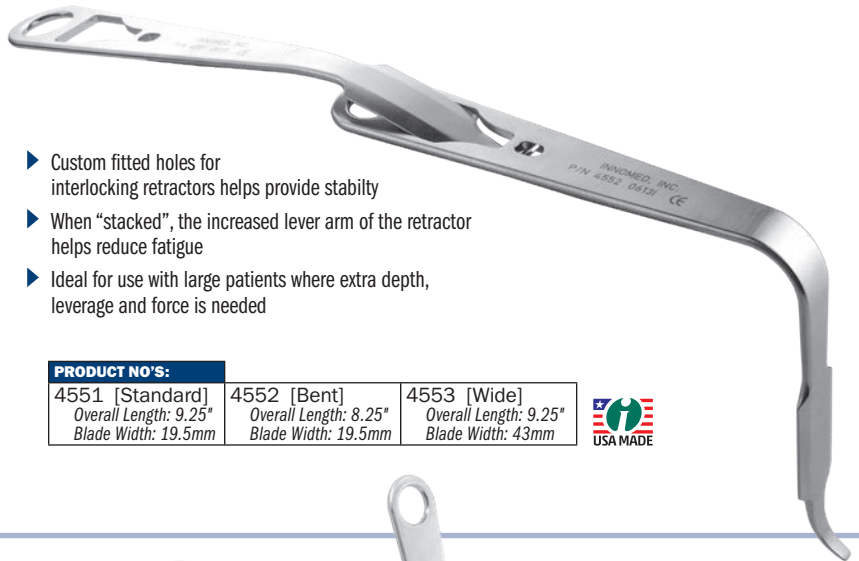
*Interlocking design helps to increase depth and leverage in hip exposure, particularly of the anterior acetabulum—especially useful with large patients*



- ▶ Custom fitted holes for interlocking retractors helps provide stability
- ▶ When “stacked”, the increased lever arm of the retractor helps reduce fatigue
- ▶ Ideal for use with large patients where extra depth, leverage and force is needed

### PRODUCT NO'S:

4551 [Standard] Overall Length: 9.25" Blade Width: 19.5mm	4552 [Bent] Overall Length: 8.25" Blade Width: 19.5mm	4553 [Wide] Overall Length: 9.25" Blade Width: 43mm
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## Lateral Retraction Handle for Goytia Stackable Hohmann Retractors

Design modification by Brandon Thompson, CST/CFA of original design by Robin N. Goytia, MD

*Designed to allow lateral retraction when added to any of the Goytia stackable hohmann retractors*

Goytia stackable hohmann retractor(s) not included.

### PRODUCT NO:

4551-H Overall Length: 9.25" (23,5 cm)
---



**New!**

## Hibbs Retractors

*Designed for soft tissue retraction by either the toothed end or curved handle end*

Extra large used in large patients when more leverage and depth is needed.



### PRODUCT NO'S:

6230 [Extra Large] Overall Length: 14.25" (36,2 cm) Handle Length: 13" (33 cm) Blade Depth: 6.5" (165 mm) Blade Width: 38 mm
6235 [Medium] Overall Length: 10.75" (27,3 cm) Handle Length: 9.75" (24,8 cm) Blade Depth: 4.5" (114 mm) Blade Width: 25 mm
6240 [Standard] Overall Length: 8.75" (22,5 cm) Handle Length: 8" (20,3 cm) Blade Depth: 3" (76 mm) Blade Width: 25 mm





## Extra Deep Cobra Retractors

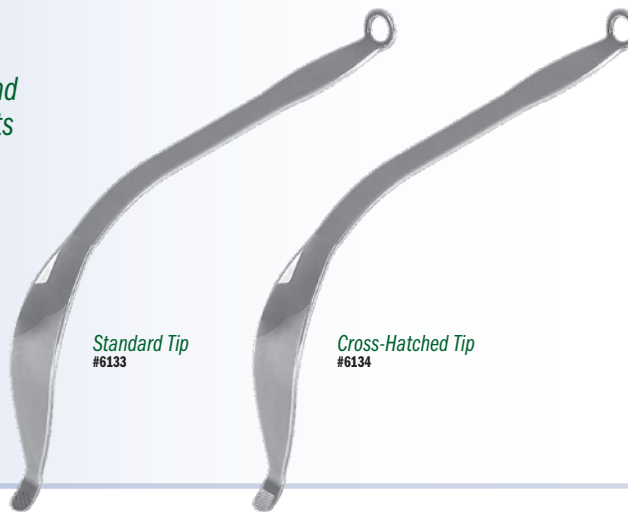
A general purpose instrument for use around the femur and acetabulum in larger patients

A full 2" (5 cm) longer in the wide cobra blade portion than our standard cobra retractor.

### PRODUCT NO'S:

6133 [Standard Tip]  
Overall Length: 12.75" (32,4 cm)  
Handle Length: 6.75" (17 cm)  
Blade Width at Widest: 33 mm

6134 [Cross-Hatched Tip]  
Overall Length: 12.75" (32,4 cm)  
Handle Length: 6.75" (17 cm)  
Blade Width at Widest: 33 mm



Standard Tip  
#6133

Cross-Hatched Tip  
#6134

## Modular Weights

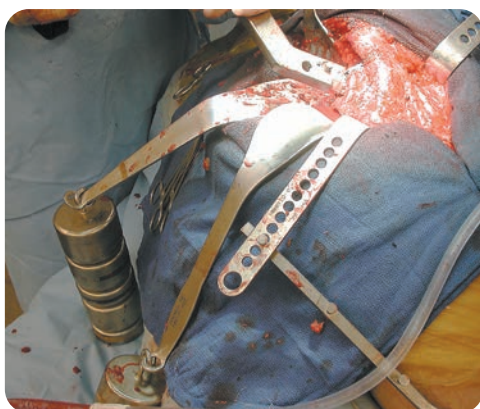
Weights can be used to help hold the retractors in place

### PRODUCT NO'S:

3430-01 1.5 lbs. (.68 kg)

3430-02 2.0 lbs. (.91 kg)

3430-03 2.5 lbs. (1.13 kg)  
with attaching hook

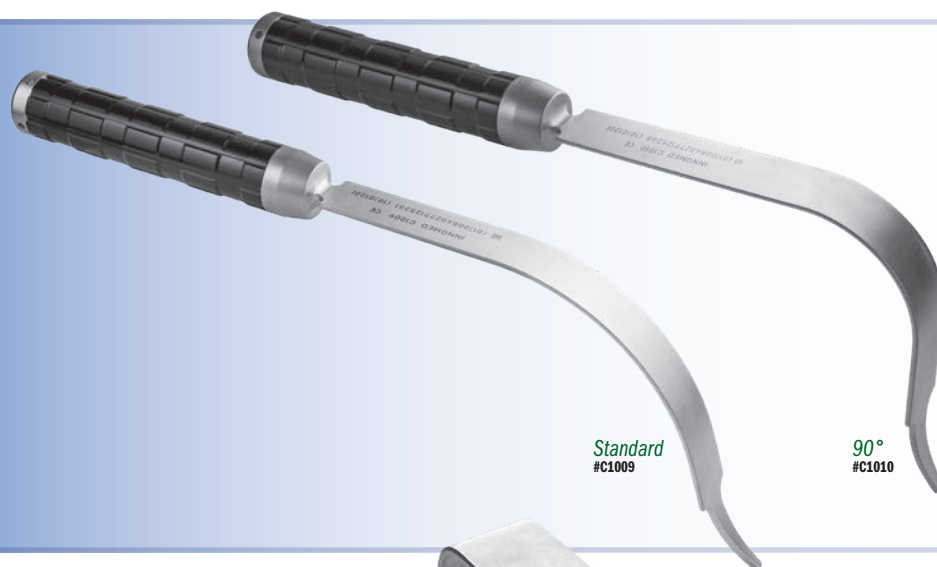


## Deep Cobra Retractor

A general purpose instrument for use around the femur and acetabulum in larger patients

### PRODUCT NO:

6135  
Overall Length: 14.5" (36,9 cm)  
Handle Length: 7" (17,8 cm)  
Blade Width at Widest: 33 mm



Standard  
#C1009

90°  
#C1010

## Deep Hohmann-style Retractors with Large Handle

### PRODUCT NO'S:

C1009 [Standard]  
Overall Length: 15.75" (40 cm)  
Handle Length: 6.125" (15,6 cm)  
Blade Depth: 4.5" (11,4 cm)  
Blade Width: 1.1" (2,8 cm)  
Prong Length: 1.5" (3,8 cm)

C1010 [90°]  
Overall Length: 14.25" (36,2 cm)  
Handle Length: 6.125" (15,6 cm)  
Blade Depth: 5.25" (13,3 cm)  
Blade Width: 1.1" (2,8 cm)  
Prong Length: 1.5" (3,8 cm)



## Large Curved Hibbs-style Soft Tissue Retractor without Teeth

The right angle end was designed without teeth for easier holding while retracting, but can also be used as a blunt end retractor, while the large curved end is very useful with large patients



### PRODUCT NO:

7180-01  
Overall Length: 8" (20,3 cm)  
Blade Width: 32 mm  
Blade Depth: 3.5" (89 mm)



## Short Tip Acetabular Retractor

Designed for retraction around the acetabulum



**PRODUCT NO:**  
C1014  
Overall Length: 13.25" (33,7 cm)  
Blade Depth: 4.5" (11,4 cm)  
Blade Width: 1" (2,54 cm)

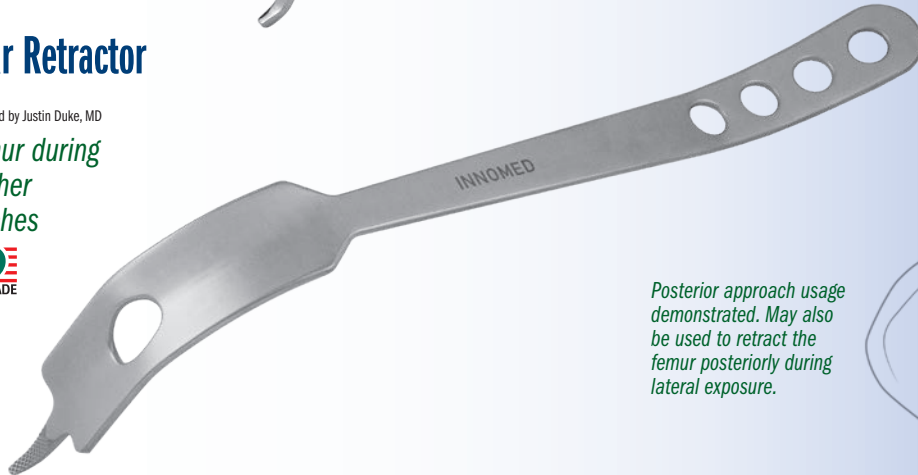


## Duke Classic Acetabular Retractor with Extra Grip Tip

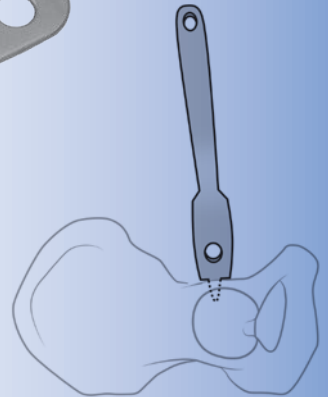
Designed by Justin Duke, MD

Designed to retract the femur during acetabular exposure for either posterior or lateral approaches

**PRODUCT NO:**  
7622  
Overall Length: 13.5" (32,3 cm)  
Handle Length: 9" (22,9 cm)  
Depth from Bend: 4" (10,2 cm)  
Prong Depth: 1.25" (3,2 cm)



Posterior approach usage demonstrated. May also be used to retract the femur posteriorly during lateral exposure.



Standard  
#4540



Extra Deep  
#4540-01



## Long Narrow Hohmann Retractor-Blunt

PRODUCT NO'S:	
4540 [Standard] Blade Width: 22 mm Blade Width at End: 16 mm Overall Length: 11.375" (28,9 cm)	4540-01 [Extra Deep] Blade Width: 22 mm Blade Width at End: 16 mm Overall Length: 13.25" (33,7 cm)



## Long Curved Hohmann Retractors-Narrow

PRODUCT NO'S:	
6204 [Short Blade] Overall Length: 16" (40,7 cm) Handle Length: 13" (33 cm) Blade Width: 22 mm	6205 [Long Blade] Overall Length: 15.25" (38,8 cm) Handle Length: 13" (33 cm) Blade Width: 22 mm



Long Blade  
#6205

Short Blade  
#6204

# Retractors for Hip Surgery

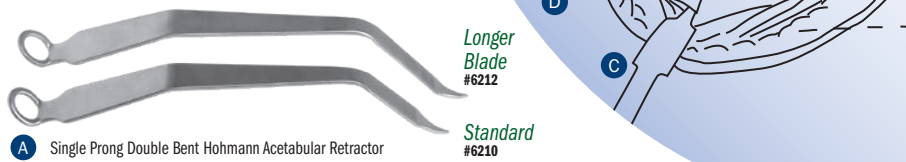


For general use in total, minimally invasive, and revision hip surgery

## A Single Prong Double Bent Hohmann Acetabular Retractor

### PRODUCT NO'S:

6210 [Standard Blade] Overall Length: 10.5" (26,7 cm) Blade + Tip Length: 2.5" (6,4 cm) Blade Width: 15 mm	6212 [Longer Blade] Overall Length: 11.25" (28,6 cm) Blade + Tip Length: 3.5" (8,9 cm) Blade Width: 15 mm
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A Single Prong Double Bent Hohmann Acetabular Retractor

Longer Blade  
#6212

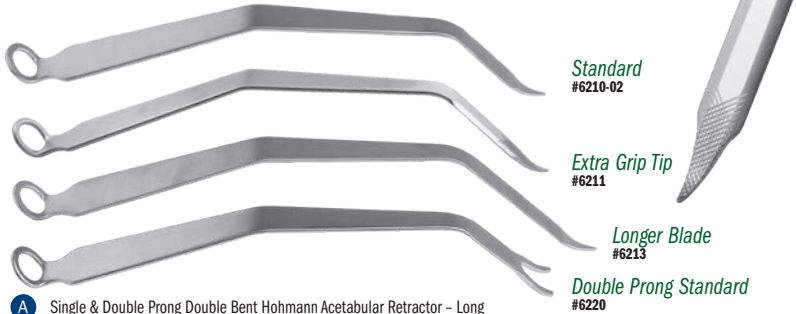
Standard  
#6210

## A Single & Double Prong Double Bent Hohmann Acetabular Retractor - Long

Non-Slip Tip design modification by Alfred A. Durham, MD

### PRODUCT NO'S:

6210-02 [Single Prong Standard Blade] Overall Length: 12.5" (31,8 cm) Blade + Tip Length: 3" (7,6 cm) Blade Width: 15 mm	6211 [Single Prong Standard Blade with Extra Grip Tip] Overall Length: 12.5" (31,8 cm) Blade + Tip Length: 3" (7,6 cm) Blade Width: 15 mm
6213 [Single Prong Longer Blade] Overall Length: 15" (38,1 cm) Blade + Tip Length: 5" (12,7 cm) Blade Width: 15 mm	
6220 [Double Prong Standard Blade] Overall Length: 12.5" (31,8 cm) Blade + Tip Length: 3" (7,6 cm) Blade Width: 15 mm	



A Single & Double Prong Double Bent Hohmann Acetabular Retractor - Long

Standard  
#6210-02

Extra Grip Tip  
#6211

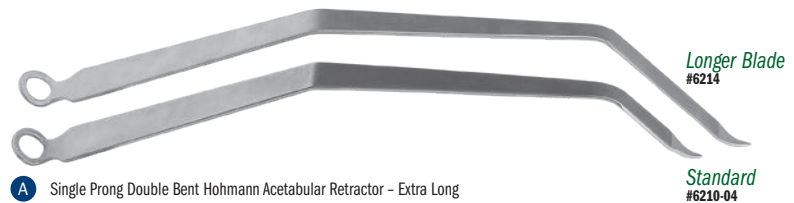
Longer Blade  
#6213

Double Prong Standard  
#6220

## A Single Prong Double Bent Hohmann Acetabular Retractor - Extra Long

### PRODUCT NO'S:

6210-04 [Standard Blade] Overall Length: 16.25" (41,3 cm) Blade + Tip Length: 3" (7,6 cm) Blade Width: 15 mm	6214 [Longer Blade] Overall Length: 18" (45,7 cm) Blade + Tip Length: 5" (12,7 cm) Blade Width: 15 mm
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A Single Prong Double Bent Hohmann Acetabular Retractor - Extra Long

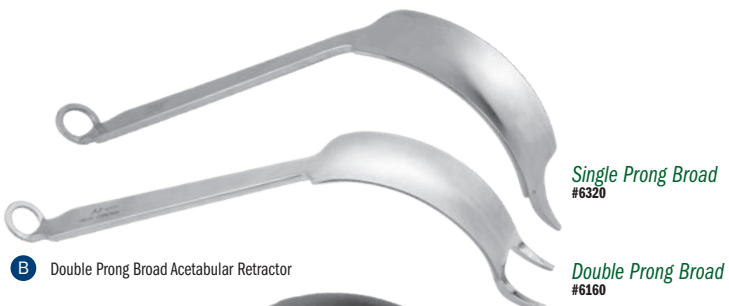
Longer Blade  
#6214

Standard  
#6210-04

## B Broad Acetabular Retractor

### PRODUCT NO'S:

6320 [Single Prong] Overall Length: 12" (30,5 cm) Blade Width: 40 mm	6160 [Double Prong] Overall Length: 12.5" (31,8 cm) Blade Width: 40 mm
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B Double Prong Broad Acetabular Retractor

Single Prong Broad  
#6320

Double Prong Broad  
#6160

## C Single Prong Soft Tissue Retractors

### PRODUCT NO'S:

6450 [Standard] Overall Length: 12.125" (30,8 cm) Blade Width: 22.3 mm	6450-03 [Standard with Short Tip] Overall Length: 11.75" (29,8 cm) Blade Width: 22.3 mm
6450-01 [Extra Deep] Overall Length: 13.75" (34,9 cm) Blade Width: 22.3 mm	
6450-04 [Extra Deep w/Short Tip] Overall Length: 13" (33 cm) Blade Width: 22.3 mm	
6450-02 [Straight Tip] Overall Length: 12.125" (30,8 cm) Blade Width: 22.3 mm	



C Single Prong Soft Tissue Retractor

Standard  
#6450

Standard with Short Tip  
#6450-03

Extra Deep  
#6450-01

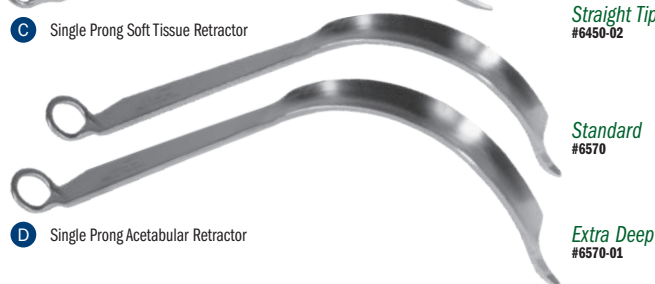
Extra Deep with Short Tip  
#6450-04

Straight Tip  
#6450-02

## D Single Prong Acetabular Retractor

### PRODUCT NO'S:

6570 [Standard] Overall Length: 12.125" (30,8 cm) Blade Width: 22.3 mm	6570-01 [Extra Deep] Overall Length: 13.75" (34,9 cm) Blade Width: 22.3 mm
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D Single Prong Acetabular Retractor

Standard  
#6570

Extra Deep  
#6570-01

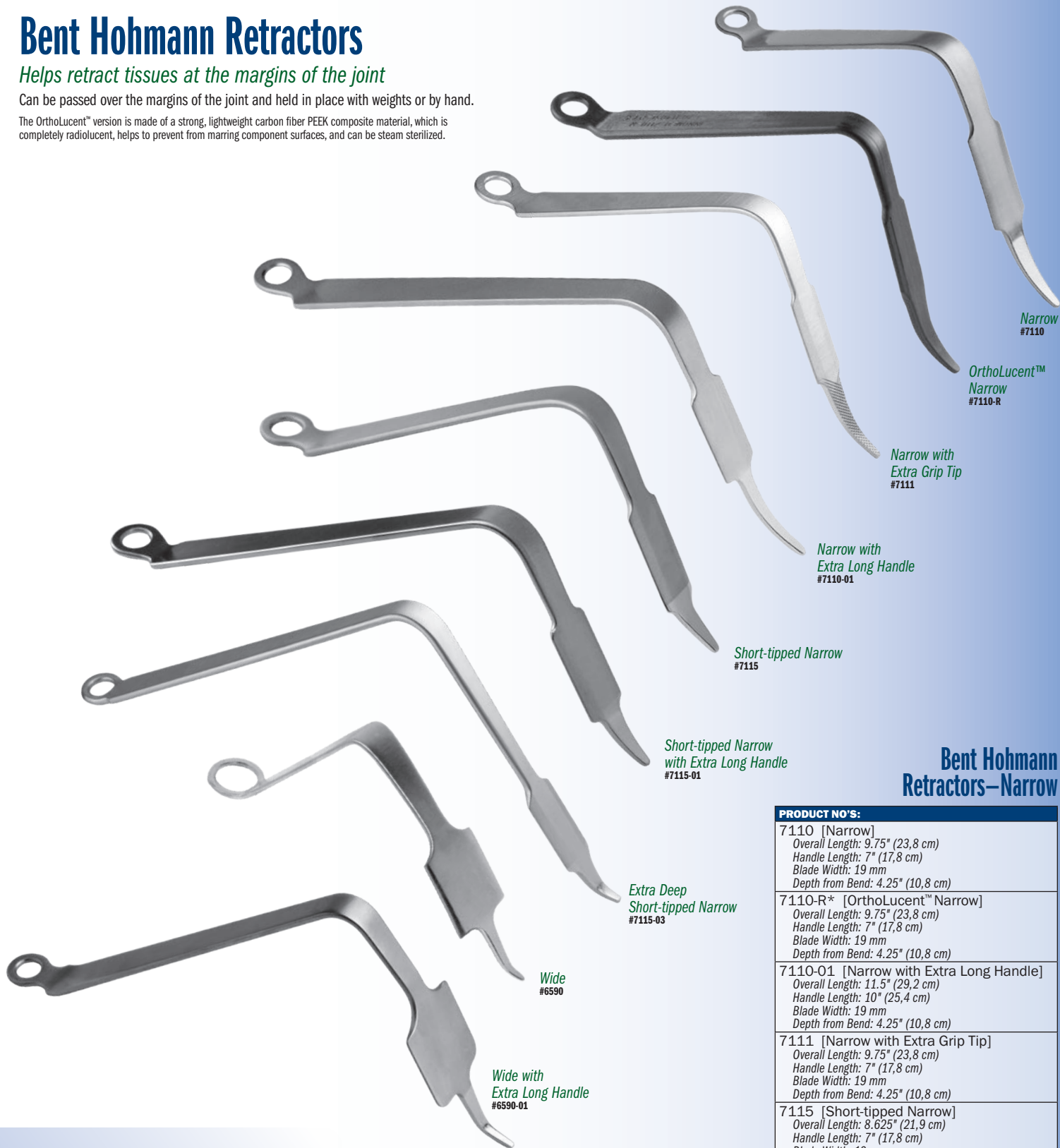


# Bent Hohmann Retractors

Helps retract tissues at the margins of the joint

Can be passed over the margins of the joint and held in place with weights or by hand.

The OrthoLucent™ version is 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.



Narrow  
#7110

OrthoLucent™  
Narrow  
#7110-R

Narrow with  
Extra Grip Tip  
#7111

Narrow with  
Extra Long Handle  
#7110-01

Short-tipped Narrow  
#7115

Short-tipped Narrow  
with Extra Long Handle  
#7115-01

Extra Deep  
Short-tipped Narrow  
#7115-03

Wide  
#6590

Wide with  
Extra Long Handle  
#6590-01

## Bent Hohmann Retractors—Narrow

PRODUCT NO'S:	
7110 [Narrow]	Overall Length: 9.75" (23,8 cm) Handle Length: 7" (17,8 cm) Blade Width: 19 mm Depth from Bend: 4.25" (10,8 cm)
7110-R* [OrthoLucent™ Narrow]	Overall Length: 9.75" (23,8 cm) Handle Length: 7" (17,8 cm) Blade Width: 19 mm Depth from Bend: 4.25" (10,8 cm)
7110-01 [Narrow with Extra Long Handle]	Overall Length: 11.5" (29,2 cm) Handle Length: 10" (25,4 cm) Blade Width: 19 mm Depth from Bend: 4.25" (10,8 cm)
7111 [Narrow with Extra Grip Tip]	Overall Length: 9.75" (23,8 cm) Handle Length: 7" (17,8 cm) Blade Width: 19 mm Depth from Bend: 4.25" (10,8 cm)
7115 [Short-tipped Narrow]	Overall Length: 8.625" (21,9 cm) Handle Length: 7" (17,8 cm) Blade Width: 19 mm Depth from Bend: 4.4" (11,2 cm)
7115-01 [Short-tipped Narrow with Extra Long Handle]	Overall Length: 11" (27,9 cm) Handle Length: 10" (25,4 cm) Blade Width: 19 mm Depth from Bend: 4.25" (10,8 cm)
7115-03 [Extra Deep Short-tipped Narrow]	Overall Length: 12.125" (31,1 cm) Handle Length: 9.75" (24,8 cm) Depth from Bend: 6.25" (15,9 cm) Blade Width: 19 mm

## Modular Weights

Weights can be used to help hold the retractors in place

### PRODUCT NO'S:

3430-01	1.5 lbs. (.68 kg)
3430-02	2.0 lbs. (.91 kg)
3430-03	2.5 lbs. (1.13 kg) with attaching hook



## Bent Hohmann Retractors—Wide

### PRODUCT NO'S:

6590 [Wide]	Overall Length: 9.375" (23,8 cm) Handle Length: 7" (17,8 cm) Blade Width: 41 mm Depth from Bend: 4.75" (12,1 cm)
6590-01 [Wide w/Extra Long Handle]	Overall Length: 11" (27,9 cm) Handle Length: 9" (22,9 cm) Blade Width: 41 mm Depth from Bend: 5.5" (14 cm)



Extra Grip Tip design modification by Alfred A. Durham, MD  
Short-tipped design modification by Carl DiRaimondo, MD

## Hohmann Retractor

*Designed like the original Hohmann-style retractor*

The OrthoLucent™ version is 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.



PRODUCT NO'S:	
4558 [Standard]	Blade Width: 16 mm Overall Length: 9.46" (24 cm)
4558-R* [OrthoLucent™]	Blade Width: 16 mm Overall Length: 9.46" (24 cm)
4558-01 [Extra Deep]	Blade Width: 16.7 mm Overall Length: 11.5" (29.2 cm)

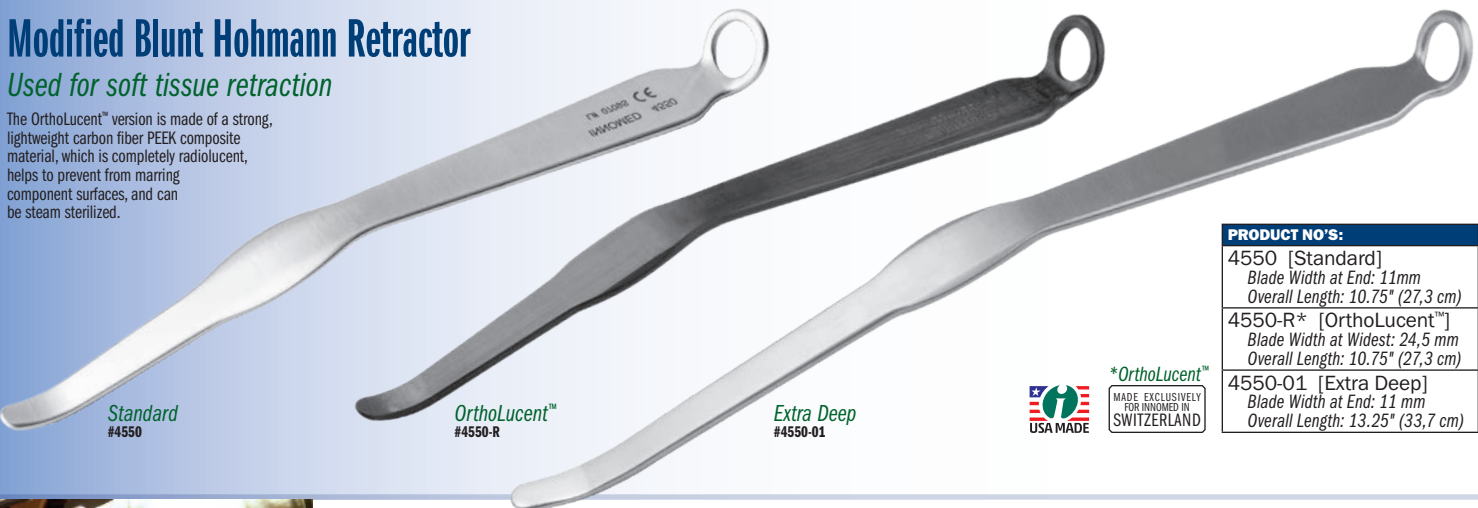


\*OrthoLucent™  
MADE EXCLUSIVELY FOR INNOVED IN SWITZERLAND

## Modified Blunt Hohmann Retractor

*Used for soft tissue retraction*

The OrthoLucent™ version is 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.



PRODUCT NO'S:	
4550 [Standard]	Blade Width at End: 11mm Overall Length: 10.75" (27,3 cm)
4550-R* [OrthoLucent™]	Blade Width at Widest: 24,5 mm Overall Length: 10.75" (27,3 cm)
4550-01 [Extra Deep]	Blade Width at End: 11 mm Overall Length: 13.25" (33,7 cm)



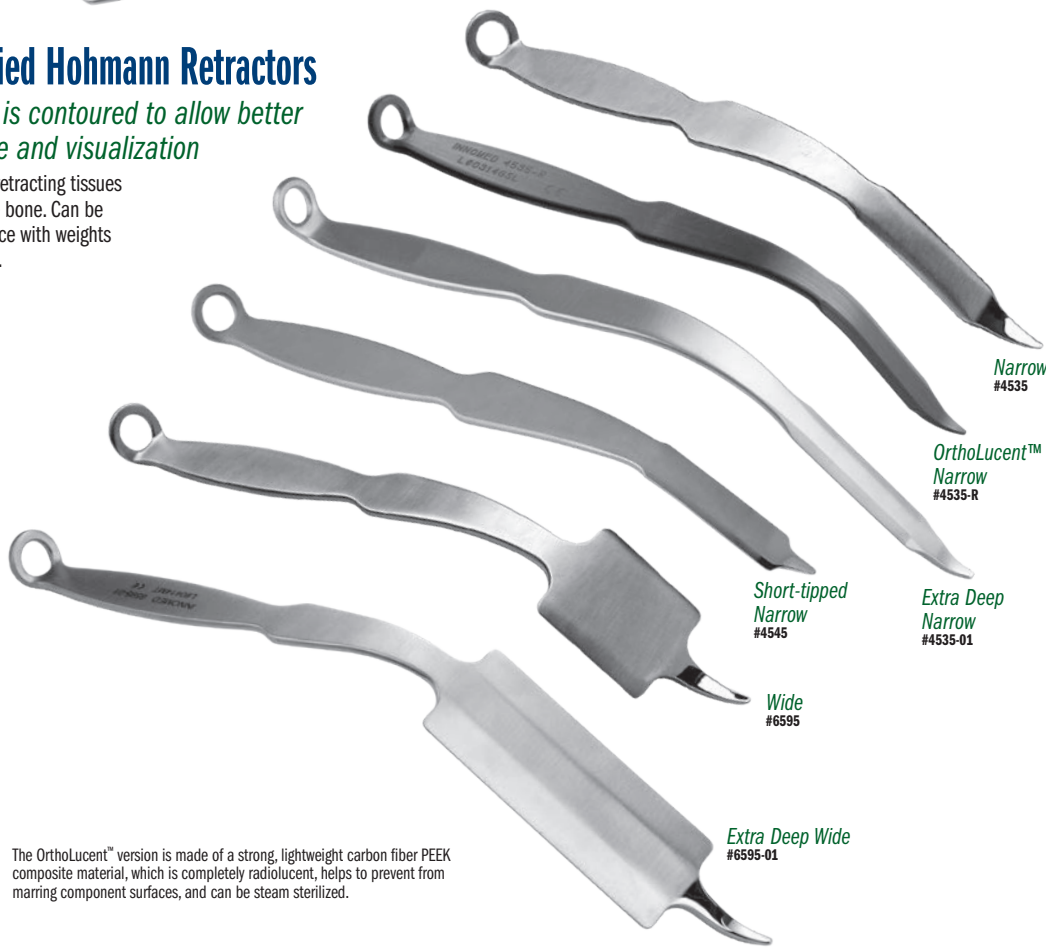
\*OrthoLucent™  
MADE EXCLUSIVELY FOR INNOVED IN SWITZERLAND



## Modified Hohmann Retractors

*Handle is contoured to allow better leverage and visualization*

Useful for retracting tissues around the bone. Can be held in place with weights or by hand.



PRODUCT NO'S:	
4535 [Narrow]	Overall Length: 10" (25,4 cm) Blade Width: 14 mm
4535-R* [OrthoLucent™ Narrow]	Overall Length: 10" (25,4 cm) Blade Width: 18 mm
4535-01 [Extra Deep Narrow]	Overall Length: 11.625" (29,5 cm) Blade Width: 16.4 mm
4545 [Short-tipped Narrow]	Designed by Carl DiRaimondo, MD Overall Length: 9.5" (24,1 cm) Blade Width: 14 mm
6595 [Wide]	Overall Length: 10" (25,4 cm) Blade Width: 42.5 mm
6595-01 [Extra Deep Wide]	Overall Length: 11.5" (29,2 cm) Blade Width: 42.5 mm



\*OrthoLucent™  
MADE EXCLUSIVELY FOR INNOVED IN SWITZERLAND

The OrthoLucent™ version is 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.

# Dorr Hip Instruments

Designed by Lawrence D. Dorr, MD



## Dorr Curved Hohmann Acetabular Retractor

Placed over the top of the piriformis, helps retract the gluteus medius.

## Dorr Narrow Bent Acetabular Retractors

Retracts the gluteus maximus off the trochanter and exposes the back of the greater trochanter. The long version is used with larger patients.

## Dorr Bent Hohmann Acetabular Retractor

Placed between the capsule and outer external oblique muscle to protect medial circumflex vessels. The tip engages the condyloid notch bone (teardrop). Helps retract soft tissues during acetabular exposure.

### PRODUCT NO.'S:

D6105 [Dorr Curved Hohmann Acetabular]

Blade Width: 18,5 mm  
 1 Overall Length: 14" (35,6 cm)  
 Depth from Handle: 4.5" (11,4 cm)

D6108 [Dorr Narrow Bent Acetabular—Long]

2 Overall Length: 14.75" (37,5 cm)  
 Depth from Handle: 6" (15,2 cm)  
 Blade Width: 12,6 mm

D6110 [Dorr Narrow Bent Acetabular]

3 Overall Length: 15" (38,1 cm)  
 Depth from Handle: 4.75" (12,1 cm)  
 Blade Width at Widest: 12 mm

D6112 [Dorr Bent Hohmann Acetabular]

4 Overall Length: 14.5" (36,9 cm)  
 Depth from Handle: 6" (15,2 cm)  
 Blade Width: 21 mm

Surgical technique available on our website



## Dorr Curved Blade Bent Hohmann Retractors

Used for both femoral exposure—placed around the femoral neck or beneath the top of the femoral head—and acetabular exposure—posterior superior of the acetabulum.

## Upward Double Bent Hohmann Retractor

Tapped into the ilium to help retract the femur for acetabular exposure.

### PRODUCT NO.'S:

D6106 [Dorr Curved Blade Bent Hohmann]

5 Overall Length: 13.5" (34,3 cm)  
 Depth from Handle: 4.5" (11,4 cm)  
 Blade Width: 40 mm

D6107 [Dorr Curved Blade Double Bent Hohmann]

6 Overall Length: 8.5" (21,6 cm)  
 Depth from Handle: 5" (12,7 cm)  
 Blade Width: 25 mm

D6114 [Upward Double Bent Hohmann]

7 Overall Length: 14" (35,6 cm)  
 Depth from Flat Part of Handle: 5.5" (14 cm)  
 Blade Width: 20,5 mm



## Dorr Posterior Capsule and Sciatic Nerve Protection Retractors

Sits on the outer rim of the posterior inferior ilium to retract the posterior capsule for acetabular exposure and help to protect the sciatic nerve.

### PRODUCT NO.'S:

D6109-L [Dorr Posterior Capsule and Sciatic Nerve Protection Retractor—Left]

8 Overall Length: 14" (35,6 cm)  
 Depth from Handle: 6" (15,2 cm)  
 Blade Width at Widest: 44 mm

D6109-R [Dorr Posterior Capsule and Sciatic Nerve Protection Retractor—Right]

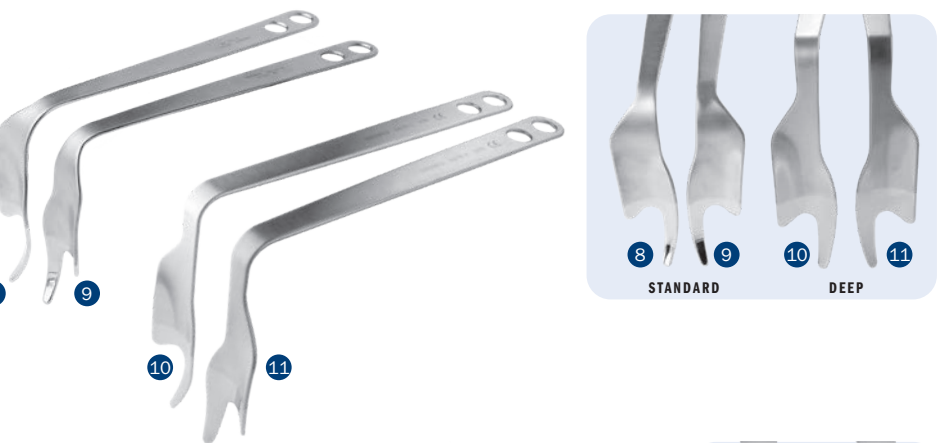
9 Overall Length: 14" (35,6 cm)  
 Depth from Handle: 6" (15,2 cm)  
 Blade Width at Widest: 44 mm

D6115-L [Dorr DEEP Posterior Capsular and Sciatic Nerve Prot. Retr.—Left]

10 Overall Length: 14.75" (37,5 cm)  
 Depth from Handle: 7.25" (18,4 cm)  
 Blade Width at Widest: 48 mm

D6115-R [Dorr DEEP Posterior Capsular and Sciatic Nerve Prot. Retr.—Right]

11 Overall Length: 14.75" (37,5 cm)  
 Depth from Handle: 7.25" (18,4 cm)  
 Blade Width at Widest: 48 mm



## Dorr Femoral Neck Elevators

Placed under the proximal femur to help expose the femoral head. The wide version is useful with large patients, while the narrow is useful when broaching or when the implant is in place.

### PRODUCT NO.'S:

D6111 [Dorr Wide Femoral Neck Elevator]

12 Overall Length: 15" (38,1 cm)  
 Depth from Handle: 2" (5,1 cm)  
 Blade Width at Widest: 45 mm

D6113 [Dorr Narrow Femoral Neck Elevator]

13 Overall Length: 13.75" (34,9 cm)  
 Depth from Handle: 2.25" (5,7 cm)  
 Blade Width: 25 mm







## Modified Curved Double Bent Hohmann Retractor

Designed by Lawrence Dorr, MD. Design modification by Bertrand P Kaper, MD

*Designed to be placed on the anterior wall of the acetabulum, the double-bent angle allows for safe retraction of the reflected head of the rectus femoris, reducing concerns of over-retraction*

<b>PRODUCT NO:</b>
D6107-MOD
Overall Length: 8.5" (21,6 cm)
Depth from Handle: 4.5" (11,4 cm)
Blade Width: 27.4 mm



## Penenberg Gluteus Retractors

Designed by Brad Penenberg, MD

### PRODUCT NO'S:

7108-01 [Right]
Overall Length: 8.25" (21 cm)
Handle to Bend Length: 6.5" (16,5 cm)
Depth from Bend: 4.25" (10,8 cm)

7108-02 [Left]
Overall Length: 8.25" (21 cm)
Handle to Bend Length: 6.5" (16,5 cm)
Depth from Bend: 4.25" (10,8 cm)



## Curved Hohmann Retractor-Wide

<b>PRODUCT NO:</b>
6215
Overall Length: 13" (33 cm)
Handle Length: 12" (30,5 cm)
Blade Width: 43 mm



## Narrow Right Angle Retractor

*Designed for soft tissue retraction*

<b>PRODUCT NO:</b>
C1011
Overall Length: 8.5" (21,6 cm)
Handle Length: 6.75" (17,1 cm)
Blade Depth: 4.5" (11,4 cm)
Blade Width: 10 mm





## Wetzel Modified Hohmann Retractor

Designed by Robert Wetzel, MD and Todd McKinley, MD

*The long point is designed to be placed around, on, or through a bony structure and then levered back to retract tissue*

The handle is contoured to allow better leverage and visualization. Can be held in place with weights or by hand.

PRODUCT NO:
4539
Overall Length: 10" (25,4 cm)
Blade Width: .85" (21,5 mm)



## Lombardi Femoral/Gluteus Medius Minimus Retractor

Designed by Adolph V. Lombardi Jr., MD

*Designed for acetabular exposure, and to retract the gluteus medius minimus during femoral reaming*

For acetabular exposure, the retractor can be placed easily at the level of the ischium and driven into the ischium to retract the femur posteriorly when using an anterolateral approach to the hip. Also using an anterolateral approach or a modified Harding hip approach, the retractor can be placed in the tip of the greater trochanter and can effectively retract the abductor mechanism, namely the gluteus medius minimus so that reaming of the femur can be performed.



PRODUCT NO:
4235
Overall Length: 11.75" (29,8 cm)
Blade Width: 20 mm



## Medial Acetabular Retractors with Large Handle

*Designed for acetabular exposure during total hip surgery*

PRODUCT NO'S:
C1001 [Left]
Overall Length: 15" (38,1 cm)
Handle Length: 6" (15,2 cm)
Blade Width: 32 mm
C1002 [Right]
Overall Length: 15" (38,1 cm)
Handle Length: 6" (15,2 cm)
Blade Width: 32 mm



Right  
#C1002

Left  
#C1001

## Offset Medial Acetabular Retractors with Large Handle

*Designed for acetabular exposure during total hip surgery*



PRODUCT NO'S:
C1017 [Left]
Overall Length: 15.5" (39,4 cm)
Handle Length: 6" (15,2 cm)
Blade Width: 32 mm
C1018 [Right]
Overall Length: 15.5" (39,4 cm)
Handle Length: 6" (15,2 cm)
Blade Width: 32 mm

## Infero-Posterior Acetabular Retractor with Modular Handle – Left and Right

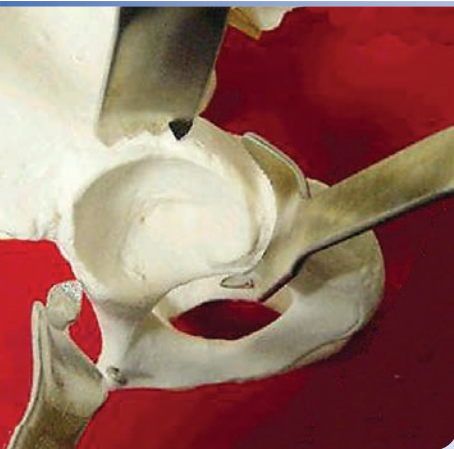
Designed to be placed with the point at 6 o'clock and the retractor's axilla resting on the ischium, while the wing blade is used to retract the remaining capsule from the posterior lip of the acetabulum, and the optional screw-in modular handle can be used for additional leverage and maneuverability



<b>PRODUCT NO'S:</b>
C1007-H-00 [Set – Left]
<b>Set Includes/ Available Separately:</b>
C1007 [Infero-Posterior Acetabular Retractor Only – Left] Overall Length: 14" (35,6 cm) Depth from Bend: 4.5" (11,4 cm) Fixed Handle Width: 5.5" (14 cm)
C1006 [Modular Handle] Overall Length: 4.875" (12,4 cm) Handle Length: 4.5" (11,4 cm)



<b>PRODUCT NO'S:</b>
C1008-H-00 [Set – Right]
<b>Set Includes/ Available Separately:</b>
C1008 [Infero-Posterior Acetabular Retractor Only – Right] Overall Length: 14" (35,6 cm) Depth from Bend: 4.5" (11,4 cm) Fixed Handle Width: 5.5" (14 cm)
C1006 [Modular Handle] Overall Length: 4.875" (12,4 cm) Handle Length: 4.5" (11,4 cm)



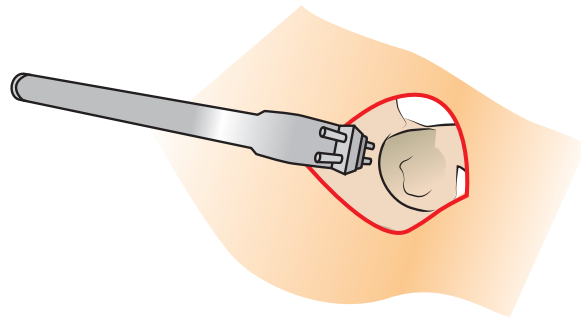
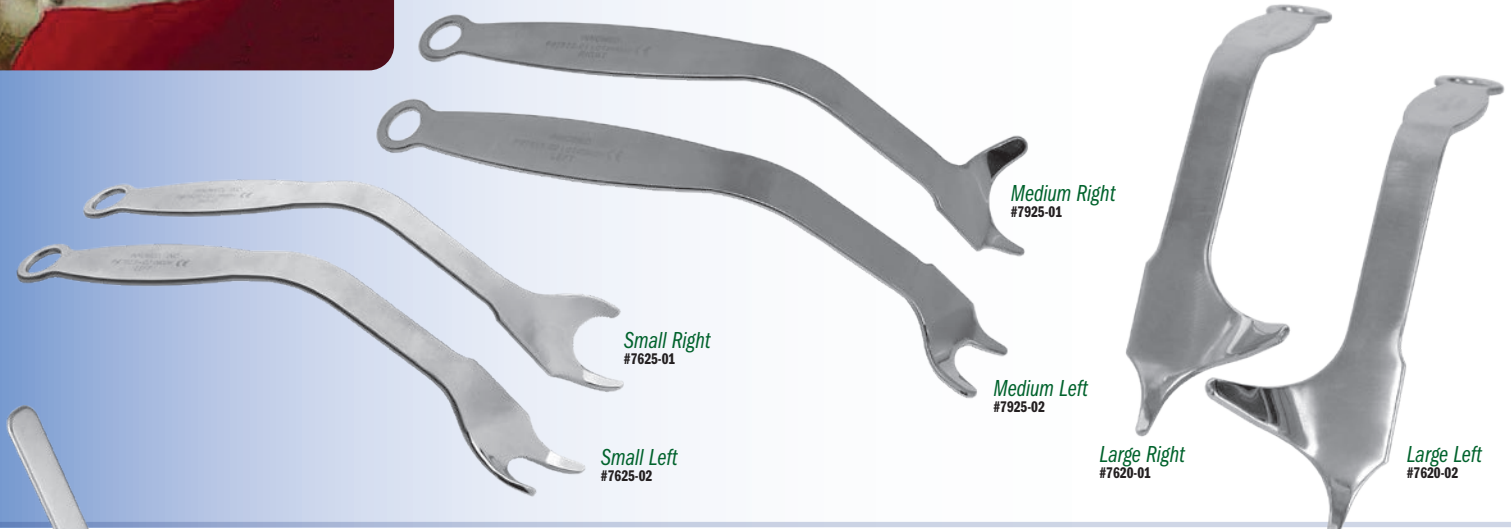
## Posterior-Inferior Retractors

Designed by Wayne M. Goldstein, MD

Designed for Total Hip Surgery

The posterior-inferior retractor is placed with the point at 6 o'clock and the retractor's axilla resting on the ischium. The remaining blade of this retractor is used to retract the remaining capsule from the posterior lip of the acetabulum.

<b>PRODUCT NO'S:</b>		
7625-01 [Small Right] Overall Length: 10.75" (27,3 cm) Handle-to-Bend Length: 5.5" (14 cm)	7925-01 [Medium Right] Overall Length: 11" (27,9 cm) Handle-to-Bend Length: 7" (17,8 cm)	7620-01 [Large Right] Overall Length: 12" (30,5 cm) Handle-to-Bend Length: 6" (15,2 cm)
7625-02 [Small Left] Overall Length: 10.75" (27,3 cm) Handle-to-Bend Length: 5.5" (14 cm)	7925-02 [Medium Left] Overall Length: 11" (27,9 cm) Handle-to-Bend Length: 7" (17,8 cm)	7620-02 [Large Left] Overall Length: 12" (30,5 cm) Handle-to-Bend Length: 6" (15,2 cm)



## Superior Retractor

Used for retraction around the acetabulum, can be self retaining with the use of 1/8" (3.2 mm) pins

<b>PRODUCT NO:</b>
6027 Overall Length: 12.75 (32,4 cm) Depth from Bend: 5.5" (14 cm) Blade Width: 1" (25,4 mm) Holes for Pins Up to: 1/8" (3,2 mm)





# Cobra Retractors *A general purpose instrument for use around the femur and acetabulum*

*Standard with Sharp Tip*  
#6129



*Standard*  
#6130



*Standard with Ergonomic Handle*  
#6130-H



*Lighted Standard*  
#6130-L



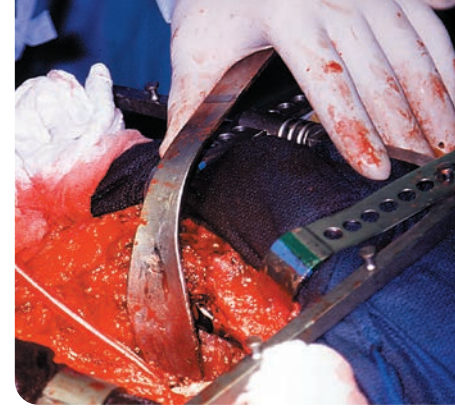
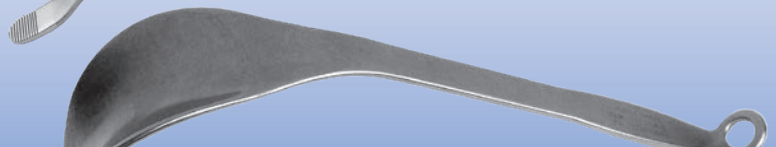
*OrthoLucent™ Standard*  
#6130-R



*Medium*  
#6132



*Wide*  
#6140



The lighted retractor can be attached to a fiber optic light cable with ACMI (female) connector and can be steam sterilized.

The OrthoLucent™ version is 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.

PRODUCT NO'S:	
6129 [Standard w/Sharp Tip]	Overall Length: 12" (30,5 cm) Handle Length: 7" (17,8 cm) Blade at Widest: 33 mm
6130 [Standard]	Overall Length: 12" (30,5 cm) Handle Length: 7" (17,8 cm) Blade at Widest: 33 mm
6130-H [Standard with Ergo. Handle]	Overall Length: 12" (30,5 cm) Ergonomic Handle Length: 5" (12,7 cm) Blade at Widest: 33 mm
6130-L [Lighted Standard]	Overall Length: 12" (30,5 cm) Handle Length: 7" (17,8 cm) Blade Width at Widest: 33 mm
6130-R* [OrthoLucent™ Standard]	Overall Length: 12" (30,5 cm) Handle Length: 7" (17,8 cm) Blade Width at Widest: 33 mm
6132 [Medium]	Overall Length: 12" (30,5 cm) Handle Length: 7" (17,8 cm) Blade at Widest: 46 mm
6140 [Wide]	Overall Length: 11.75" (29,8 cm) Handle Length: 7" (17,8 cm) Blade at Widest: 56 mm



## Modular Weights

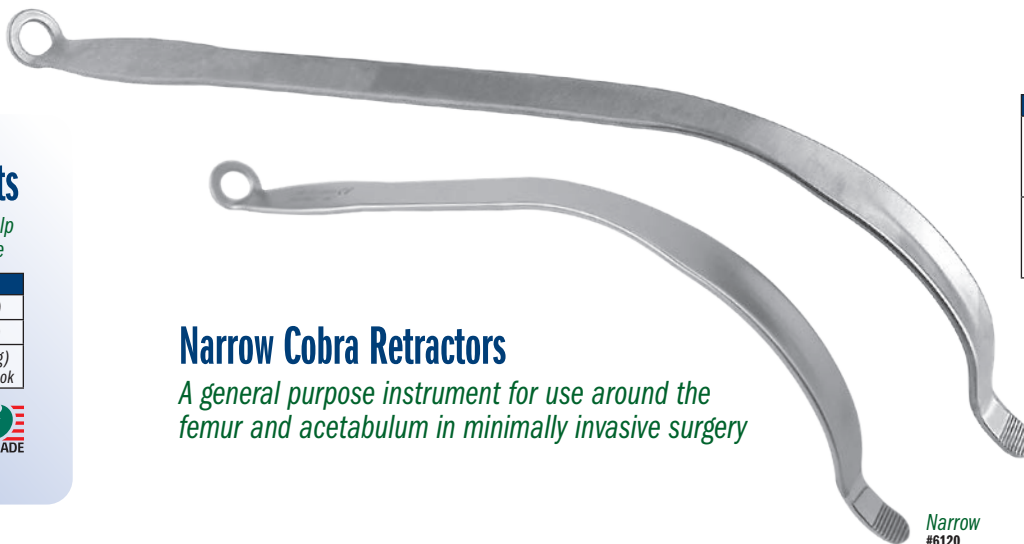
*Weights can be used to help hold the retractors in place*

PRODUCT NO'S:	
3430-01	1.5 lbs. (.68 kg)
3430-02	2.0 lbs. (.91 kg)
3430-03	2.5 lbs. (1.13 kg) with attaching hook



## Narrow Cobra Retractors

*A general purpose instrument for use around the femur and acetabulum in minimally invasive surgery*



PRODUCT NO'S:	
6120-04 [XL Narrow]	Overall Length: 15.5" (39,4 cm) Handle Length: 11" (27,9 cm) Blade Width: 19 mm
6120 [Narrow]	Overall Length: 11.75" (29,8 cm) Handle Length: 6.5" (16,5 cm) Blade Width: 19 mm



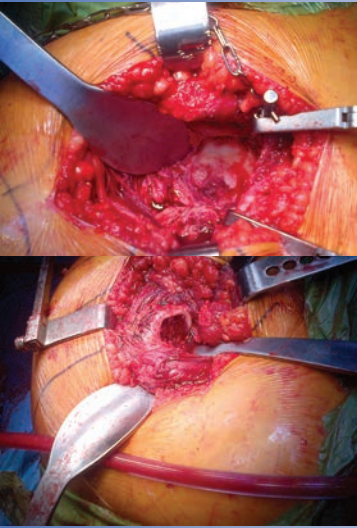
*XL Narrow*  
#6120-04

*Narrow*  
#6120

## Modified Cobra Retractor

*A general purpose instrument for use around the femur and acetabulum*

**PRODUCT NO:**  
C1012  
Overall Length: 14.5" (36,9 cm)  
Blade Depth: 5.25" (13,3 cm)  
Blade Width: 1" (2,54 cm)



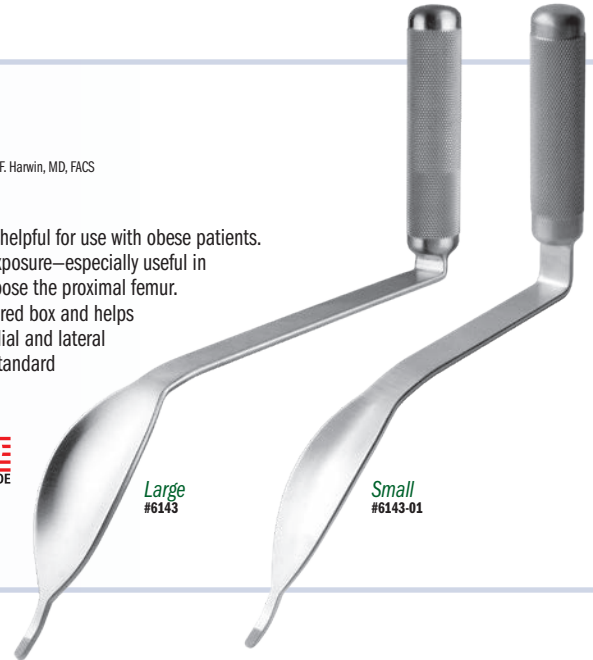
## Harwin Modified Cobra Retractor

Designed by Steven F. Harwin, MD, FACS

*Designed for use during total hip and knee surgery*

The long handle and obtuse angle provide ergonomic leverage—especially helpful for use with obese patients. In total hip surgery, the wide, concave blade design allows for enhanced exposure—especially useful in anterior hip surgery with the placement of reamers, and to elevate and expose the proximal femur. In total knee surgery, the wide blade of the large retractor spans the prepared box and helps bring the tibia forward. The small retractor helps with retraction of the medial and lateral structures, where the wide, concave blade provides added exposure over standard bent Hohmann retractors. The serrated tip helps improve stability.

PRODUCT NO'S:	
6143 [Large] Overall Length: 14.75" (37,5 cm) Blade Width: 43.2 mm Tongue: 25 mm x 5 mm	6143-01 [Small] Overall Length: 12.5" (31,8 cm) Blade Width: 30 mm Tongue: 25 mm x 5 mm



## Narrow Cobra-style Retractor with Large Handle

*Designed for use around the femur and acetabulum*

**PRODUCT NO:**  
C1005  
Overall Length: 17.5" (44,5 cm)  
Depth from handle: 7" (17,8 cm)



## Rib Periosteal Rasp

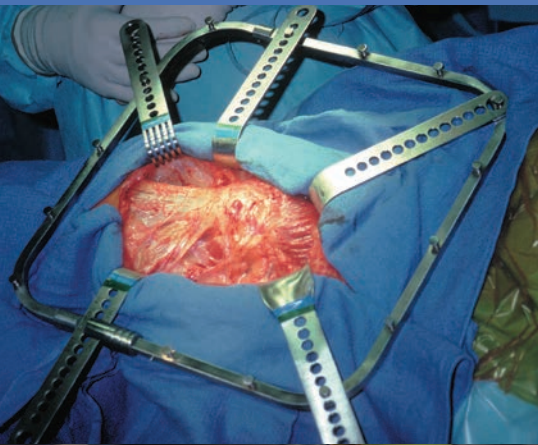
**PRODUCT NO:**  
C1004  
Overall Length: 17" (43,2 cm)  
Handle Length: 5" (12,7 cm)  
Rasp Pad: 7,5 x 12 mm





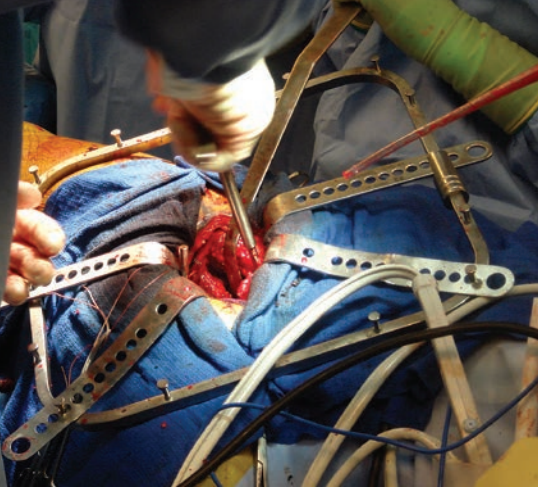
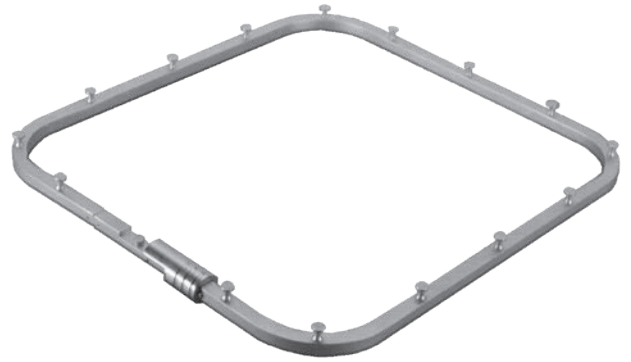
# Self-Retaining Hip Surgery Retractor System

Designed by S. David Stulberg, MD



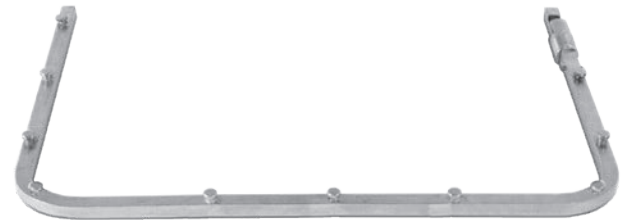
## Square Frame

<b>PRODUCT NO:</b>
7450-01D
12.75" x 11.25" (32,4 cm x 28,6 cm)

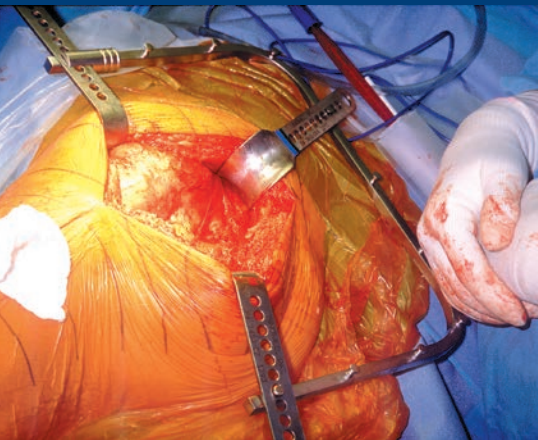


## Standard Frame

<b>PRODUCT NO'S:</b>
7450-01A [Standard] 12.75" x 9.5" (32,4 cm x 24,1 cm)
7450-01B [Medium] 9.75" x 9.5" (32,4 cm x 24,1 cm)



Helps to free assisting personnel while providing excellent exposure during hip arthroplasty and hip fracture surgery



## Double Locking Standard Frame

Designed by Matthew P. Lorei, MD

<b>PRODUCT NO'S:</b>
7430 [Standard] 12.75" x 9.5" (32,4 cm x 24,1 cm)



*Designed with a second sliding blade lock for enhanced stability, especially in obese patients*

Allows both locked blades to be fully adjustable, yet with the ability to be securely fixed, diminishing the chance for shifting, and allowing for more secure self-retaining exposure.



## Charnley-Type Frame

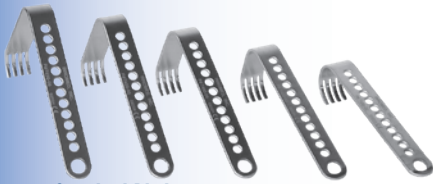
<b>PRODUCT NO'S:</b>
7445 [Standard] 12" x 9.5" (30,5 cm x 24,1 cm)
7445-01B [Narrow] 10" x 9.5" (25,4 cm x 24,1 cm)
<b>Charnley-type frames come standard with 1 each:</b>
7445-02 Rounded 2" (51 mm) Charnley Blade
7450-02 2" (51 mm) Standard Blade
7455-02 2" (51 mm) Charnley Blade
<b>Frames also sold individually:</b>
7445-01 [Standard]
7445-01B-01 [Narrow]



Can be used with any blade style

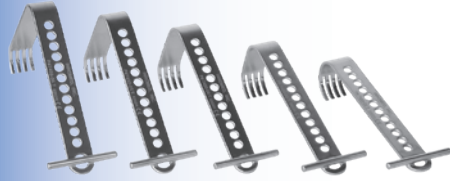






### Standard Blades

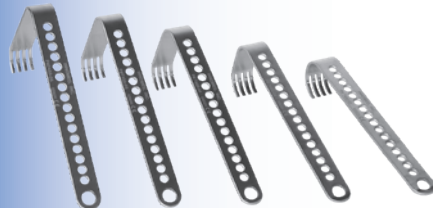
PRODUCT NO'S:	
Handle Length:	6" (15,2 cm)
7450-02	2" (5,1 cm) blade depth
7450-03	3" (7,6 cm) blade depth
7450-04	4" (10,2 cm) blade depth
7450-05	5" (12,7 cm) blade depth
7450-06	6" (15,2 cm) blade depth



### Standard Blades with T-Handle

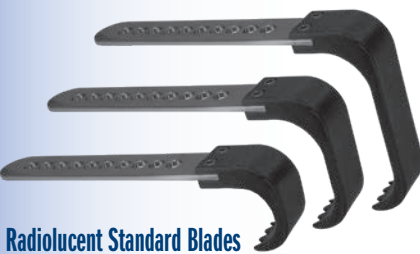
T-bar handles help prevent the hand from slipping

PRODUCT NO'S:	
7450-02T	2" (5,1 cm) blade depth
7450-03T	3" (7,6 cm) blade depth
7450-04T	4" (10,2 cm) blade depth
7450-05T	5" (12,7 cm) blade depth
7450-06T	6" (15,2 cm) blade depth



### Long Standard Blades

PRODUCT NO'S:	
Handle Length:	8" (20,3 cm)
7451-02	2" (5,1 cm) blade depth
7451-03	3" (7,6 cm) blade depth
7451-04	4" (10,2 cm) blade depth
7451-05	5" (12,7 cm) blade depth
7451-06	6" (15,2 cm) blade depth



### Radiolucent Standard Blades

Completely radiolucent with anodized aluminum handles and delrin blades

PRODUCT NO'S:	
Handle Length:	6" (15,2 cm)
7449-02R	2" (5,1 cm) blade depth
7449-03R	3" (7,6 cm) blade depth
7449-04R	4" (10,2 cm) blade depth

### Mobile Body Assemblies

PRODUCT NO:
7447 [One Body Assembly]

Position retractors exactly where you want them!

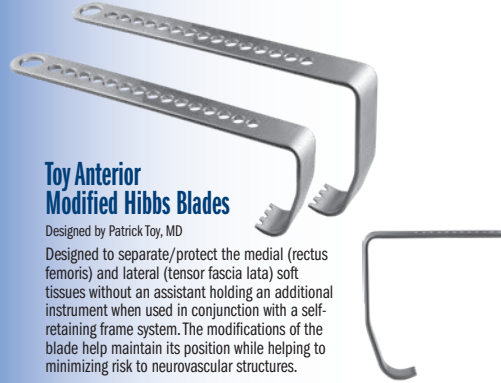
Moveable-peg system allows for precise interoperative retractor positioning adjustments

Works with any existing frame system



### Blades with Teeth

PRODUCT NO'S:	
Blade Width:	1" (2,54 cm)
C1013	2.5" (6,4 cm) blade depth
C1013-01	4" (10,2 cm) blade depth



### Toy Anterior Modified Hibbs Blades

Designed by Patrick Toy, MD

Designed to separate/protect the medial (rectus femoris) and lateral (tensor fascia lata) soft tissues without an assistant holding an additional instrument when used in conjunction with a self-retaining frame system. The modifications of the blade help maintain its position while helping to minimizing risk to neurovascular structures.

PRODUCT NO'S:	
7453 [Standard]	3.875" (9,8 cm) blade depth
7454 [Shallow]	2.75" (7 cm) blade depth



### Extra Large Standard Blades

Designed by Andrew D. Bunta, MD

Help retract soft tissue in larger patients

PRODUCT NO'S:	
7470-02	2" (5,1 cm) blade depth
7470-03	3" (7,6 cm) blade depth
7470-04	4" (10,2 cm) blade depth

### Wide Standard Blades

PRODUCT NO'S:	
Blade Width:	2" (5,1 cm)
7450-W-02	2" (5,1 cm) blade depth
7450-W-03	3" (7,6 cm) blade depth
7450-W-04	4" (10,2 cm) blade depth
7450-W-05	5" (12,7 cm) blade depth
7450-W-06	6" (15,2 cm) blade depth



### Extra Wide Blades

Designed by Andrew D. Bunta, MD

PRODUCT NO'S:	
Blade Width:	2.75" (7 cm)
7460-01	2.5" (5,1 cm) blade depth
7460-02	3.25" (8,3 cm) blade depth



### 5-Prong Rake Blade

PRODUCT NO:	
7450-10B	1" (2,5 cm) blade depth



### Soft Tissue Blades

PRODUCT NO'S:	
7450-09A [Standard]	2" (5,1 cm) blade depth
7450-09B [Deep]	2.5" (6,4 cm) blade depth



### Hohmann Style Blades

PRODUCT NO'S:	
7450-08A [Standard]	4" (10,2 cm) blade depth
7450-08B [Deep]	6" (15,2 cm) blade depth



### Bennett Style Blade

PRODUCT NO'S:	
7450-07A [Standard]	4" (10,2 cm) blade depth

### Retractor Blades for Charnley-type Frame



PRODUCT NO'S:	
7445-02	Rounded 2" (5,1 cm) blade depth
7445-03	Rounded 2.5" (6,4 cm) blade depth
7445-04	Rounded 3.5" (8,9 cm) blade depth
7455-02	2" (5,1 cm) blade depth
7455-03	3" (7,6 cm) blade depth
7455-04	4" (10,2 cm) blade depth
7455-06	6" (15,2 cm) blade depth



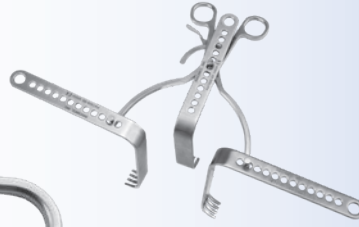
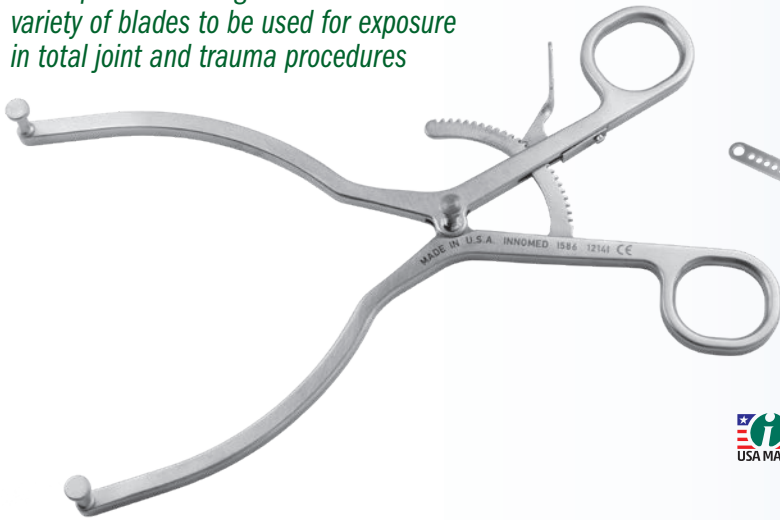
### Wedges for Frames

Help stabilize retractor blades

PRODUCT NO'S:	
7450-89 [Thin Wedge]	Overall Length: 1.75" (4,4 cm) Wedge Thickness: 4 mm
7450-99 [Thick Wedge]	Overall Length: 1.75" (4,4 cm) Wedge Thickness: 8 mm

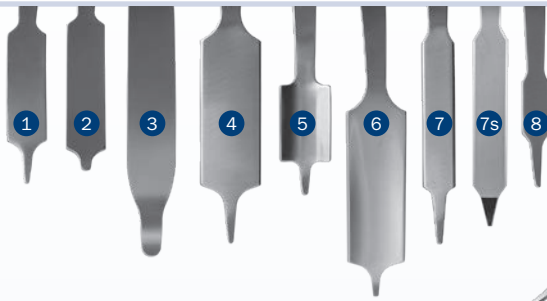
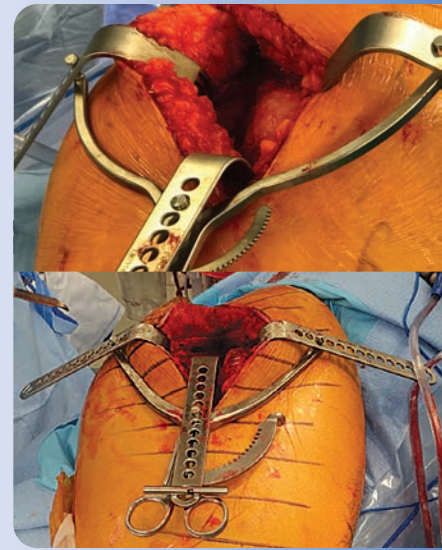
# Self-Retaining Tension Retractor

The expandable design allows for a wide variety of blades to be used for exposure in total joint and trauma procedures



Handle only – blades not included.  
See page 37 for additional blade styles.

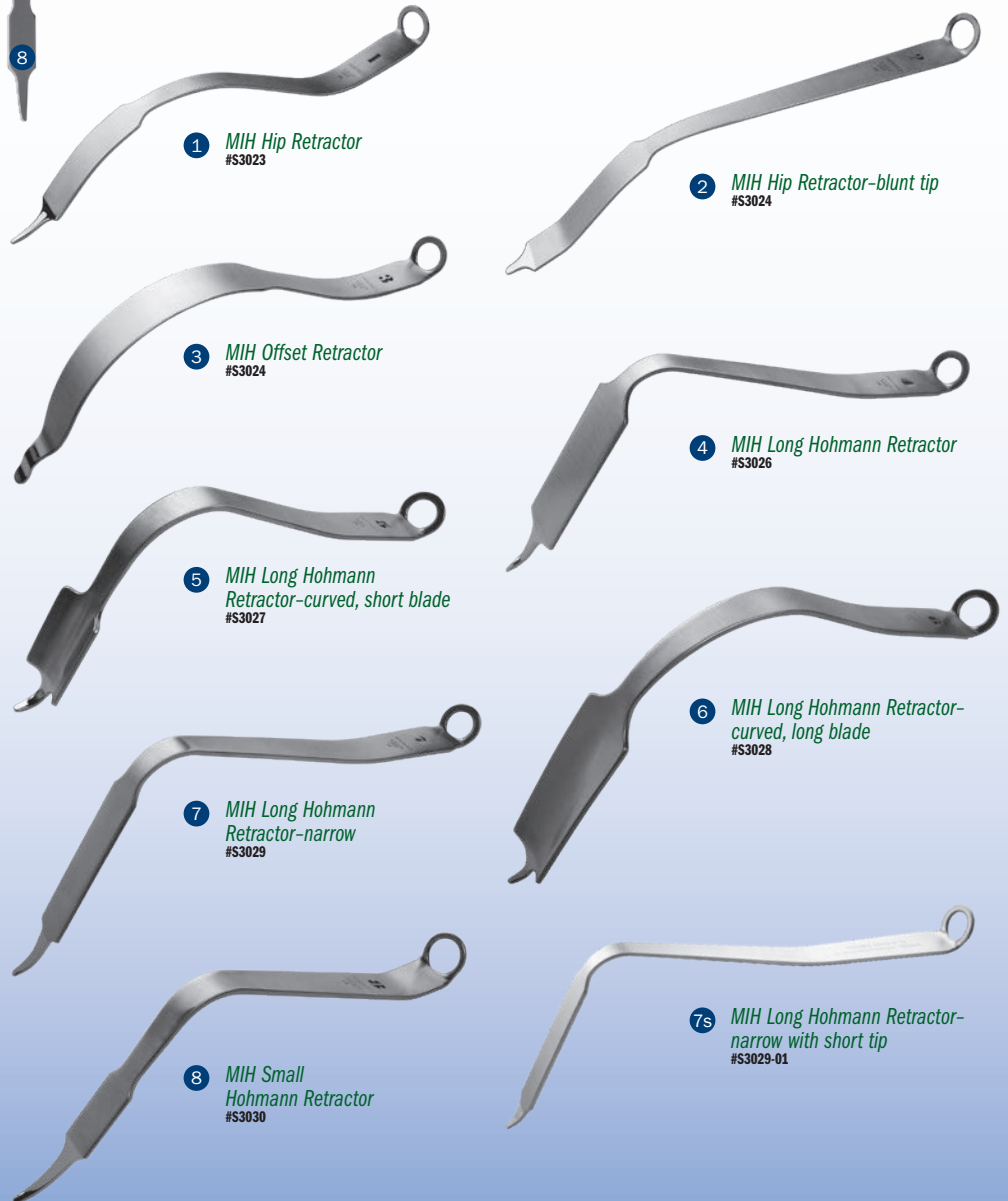
**PRODUCT NO:**  
1586  
Overall Length: 8.875" (22,5 cm)  
Maximum Width at Pegs: 8" (20,3 cm)



# Minimally Invasive Hip Surgery Retractors

Designed to be used in various minimally invasive hip exposures

PRODUCT NO'S:	
S3023 [MIH Hip Retractor] Overall Length: 13" (33 cm) Blade Width: 25 mm	1
S3024 [MIH Hip Retractor-blunt tip] Overall Length: 14.5" (36,9 cm) Blade Width: 25 mm	2
S3025 [MIH Offset Retractor] Overall Length: 14" (35,6 cm) Blade Width: 32 mm	3
S3026 [MIH Long Hohmann Retractor] Overall Length: 14.75" (37,5 cm) Blade Width: 40 mm	4
S3027 [MIH Long Hohmann Retractor-curved, short blade] Overall Length: 12.25" (31,1 cm) Blade Width: 34 mm	5
S3028 [MIH Long Hohmann Retractor-curved, long blade] Overall Length: 14" (35,6 cm) Blade Width: 39 mm	6
S3029 [MIH Long Hohmann Retractor-narrow] Overall Length: 14.75" (37,5 cm) Blade Width: 22 mm	7
S3029-01 [MIH Long Hohmann Retractor - narrow with short tip] Overall Length: 14.5" (36,9 cm) Blade Width: 22 mm	7s
S3030 [MIH Small Hohmann Retractor] Overall Length: 11.5" (29,2 cm) Blade Width: 19 mm	8



# Minimally Invasive Total Hip Surgery Retractors

Designed by S. David Stulberg, MD

Surgical technique available on our website

*Instruments designed to help reduce soft tissue trauma in Single Incision Minimally Invasive Total Hip Surgery*



## Single Prong Double Bent Hohmann Acetabular Retractor - Extra Long

PRODUCT NO'S:	
6210-04 [Standard Blade] Overall Length: 16.25" (41,3 cm) Blade and Tip Length: 3" (7,6 cm) Blade Width: 15 mm	6214 [Longer Blade] Overall Length: 18" (45,7 cm) Blade and Tip Length: 5" (12,7 cm) Blade Width: 15 mm



## Single & Double Prong Double Bent Hohmann Acetabular Retractor - Long

PRODUCT NO'S:	
6210-02 [Single Prong Standard Blade] Overall Length: 12.5" (31,8 cm) Blade and Tip Length: 3" (7,6 cm) Blade Width: 15 mm	
6213 [Single Prong Longer Blade] Overall Length: 15" (38,1 cm) Blade and Tip Length: 5" (12,7 cm) Blade Width: 15 mm	
6220 [Double Prong Standard Blade] Overall Length: 12.5" (31,8 cm) Blade and Tip Length: 3" (7,6 cm) Blade Width: 15 mm	



## Single Prong Double Bent Hohmann Acetabular Retractor

PRODUCT NO'S:	
6210 [Standard Blade] Overall Length: 10.5" (26,7 cm) Blade and Tip Length: 2.5" (6,4 cm) Blade Width: 15 mm	6212 [Longer Blade] Overall Length: 11.25" (28,6 cm) Blade and Tip Length: 3.5" (8,9 cm) Blade Width: 15 mm



Modular Weights

PRODUCT NO'S:	
3430-01	1.5 lbs. (.68 kg)
3430-02	2.0 lbs. (.91 kg)
3430-03	2.5 lbs. (1.13 kg) with attaching hook



## Narrow Proximal Femoral Elevator

PRODUCT NO:
3420-05 [Standard Prongs] Overall Length: 11.5" (29,2 cm) Handle Length: 6.5" (16,5 cm) Blade Width at Widest: 45 mm



## MIS Hip Retractors

PRODUCT NO:
6265 Overall Length: 15" (38,1 cm) Handle Length: 11" (27,9 cm) Depth from Bend: 8" (20,3 cm) Blade Width: 20 mm



## Narrow Double Prong Acetabular Retractor

PRODUCT NO:
6175 Overall Length: 12.5" (31,8 cm) Blade Width: 32 mm



## Narrow Cobra Retractors

PRODUCT NO'S:	
6120 [Narrow] Overall Length: 11.75" (29,8 cm) Handle Length: 6.5" (16,5 cm) Blade Width: 19 mm	
6120-04 [Extra Long Narrow] Overall Length: 15.5" (39,4 cm) Handle Length: 11" (27,9 cm) Blade Width: 19 mm	



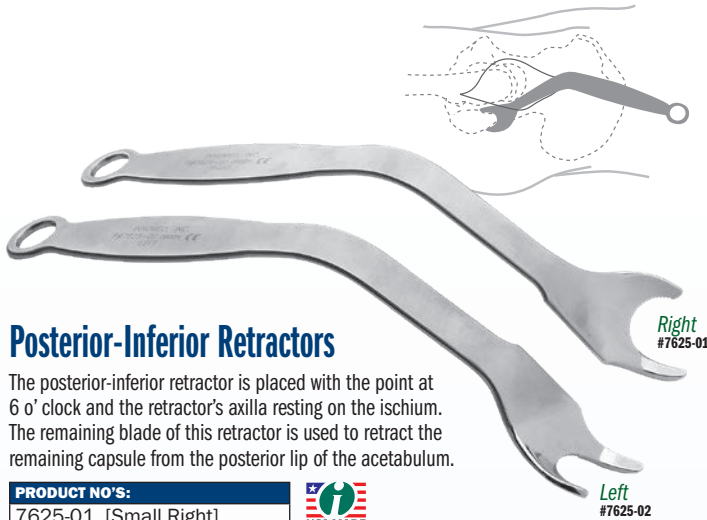
# Minimal Incision Total Hip Retractors

Designed By Wayne M. Goldstein, MD

Surgical technique available on our website

Instruments designed for Minimal Incision Total Hip Surgery using the standard posterior lateral approach

Used in conjunction with a charnley-type frame and blade system (SEE PAGE 36).



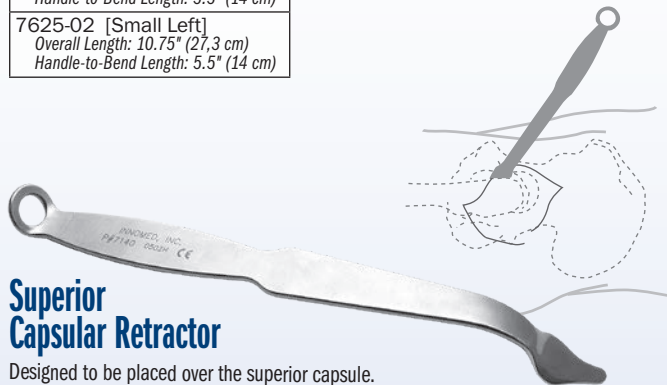
## Posterior-Inferior Retractors

The posterior-inferior retractor is placed with the point at 6 o'clock and the retractor's axilla resting on the ischium. The remaining blade of this retractor is used to retract the remaining capsule from the posterior lip of the acetabulum.

### PRODUCT NO'S:

7625-01 [Small Right]  
Overall Length: 10.75" (27,3 cm)  
Handle-to-Bend Length: 5.5" (14 cm)

7625-02 [Small Left]  
Overall Length: 10.75" (27,3 cm)  
Handle-to-Bend Length: 5.5" (14 cm)

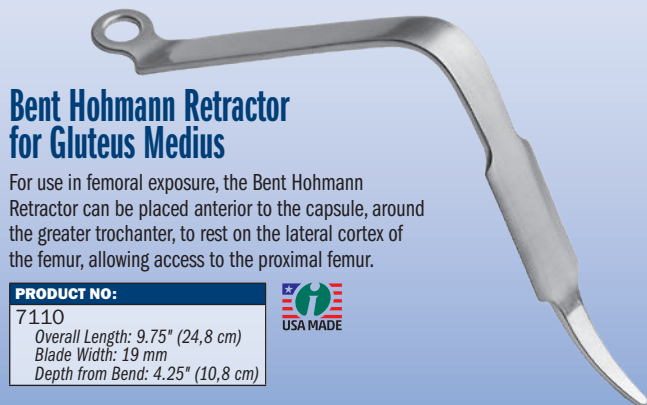


## Superior Capsular Retractor

Designed to be placed over the superior capsule.

### PRODUCT NO:

7140  
Overall Length: 9.375" (23,8 cm)  
Blade Width at Widest: 19 mm



## Bent Hohmann Retractor for Gluteus Medius

For use in femoral exposure, the Bent Hohmann Retractor can be placed anterior to the capsule, around the greater trochanter, to rest on the lateral cortex of the femur, allowing access to the proximal femur.

### PRODUCT NO:

7110  
Overall Length: 9.75" (24,8 cm)  
Blade Width: 19 mm  
Depth from Bend: 4.25" (10,8 cm)



## Blunt Right Angle Posterior Capsular Retractor

The right-angle capsular retractors help retract and provide additional exposure around the acetabulum—either posterior or superior

### PRODUCT NO:

7120  
Overall Length: 8" (20,3 cm)  
Blade Width: 32 mm  
Blade Depth: 3.25" (8,9 cm)



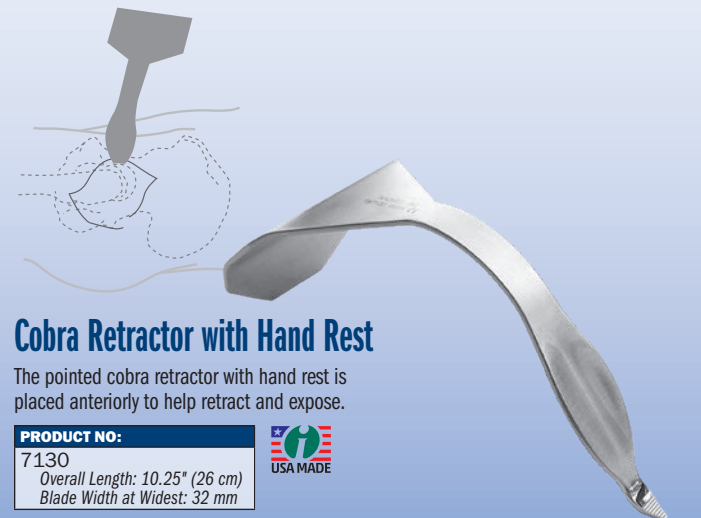
## Right Angle Posterior Capsular Retractor

Using a finger, the underside of the gluteus medius tendon can be palpated and the curved end of this Hibbs-style retractor can be placed and pulled anteriorly. The right angle end of the retractor can be used later in a similar fashion to the Blunt Right Angle Retractor described above.

### PRODUCT NO'S:

7180 [With Teeth]  
Overall Length: 8" (20,3 cm)  
Blade Width: 32 mm  
Blade Depth: 3.5" (8,9 cm)

7180-01 [No Teeth]  
Overall Length: 8" (20,3 cm)  
Blade Width: 32 mm  
Blade Depth: 3.5" (8,9 cm)



## Cobra Retractor with Hand Rest

The pointed cobra retractor with hand rest is placed anteriorly to help retract and expose.

### PRODUCT NO:

7130  
Overall Length: 10.25" (26 cm)  
Blade Width at Widest: 32 mm



OrthoLucent™  
PCL Retractor  
#2820-R



OrthoLucent™  
Chandler Retractor  
#3220-02R



**New!**

Sierra OrthoLucent™  
EVA Pelvic Osteotomy Retractor  
#4541



OrthoLucent™  
Modified Narrow Hohmann Retractor  
#4535-R



OrthoLucent™  
Modified Blunt Hohmann Retractor  
#4550-R



OrthoLucent™  
Standard Hohmann Retractor  
#4558-R



OrthoLucent™  
Cobra Retractor  
#6130-R



OrthoLucent™  
Narrow Bent Hohmann Retractor  
#7110-R



Sierra OrthoLucent™ EVA Pelvic Osteotomy  
Retractor designed by Rafael J. Sierra, MD

## OrthoLucent™ Retractors

Gain Radiolucence Without  
Compromising Strength or Function

- ▶ Lightweight carbon fiber PEEK composite material
- ▶ Ideal for total joint use with x-ray
- ▶ No metal transfer with component contact
- ▶ Steam sterilizable
- ▶ Completely radiolucent
- ▶ Flat black non-gloss finish

MADE EXCLUSIVELY  
FOR INNOVEMED IN  
SWITZERLAND

### PRODUCT NO'S:

2820-R [PCL]
Overall Length: 8"
Prong Width: 5 mm   10 mm Gap   5 mm
3220-02R [Chandler]
Overall Length: 9.875" (25,1 cm)
Blade Width: 3/4" (1,9 cm)
4535-R [Modified Narrow Hohmann]
Overall Length: 10" (25,4 cm)
Blade Width: 18 mm
4541 [Sierra EVA Pelvic Osteotomy]
Overall Length: 10.7" (27,2 cm)
Blade Width at Widest: 24,5 mm
Blade Width at End: 10 mm
4550-R [Modified Blunt Hohmann]
Blade Width at Widest: 24,5 mm
Overall Length: 10.75" (27,3 cm)
4558-R [Standard Hohmann]
Blade Width: 16 mm
Overall Length: 9.46" (24 cm)
6130-R [Cobra]
Overall Length: 12" (30,5 cm)
Handle Length: 7" (17,8 cm)
Blade Width at Widest: 33 mm
7110-R [Narrow Bent Hohmann]
Overall Length: 9.75" (23,8 cm)
Handle Length: 7" (17,8 cm)
Blade Width: 19 mm
Depth from Bend: 4.75" (12,1 cm)

**New!**



## MIS Hip Retractor

### PRODUCT NO:

6265  
Overall Length: 15" (38,1 cm)  
Handle Length: 11" (27,9 cm)  
Depth from Bend: 8" (20,3 cm)  
Blade Width: 20 mm



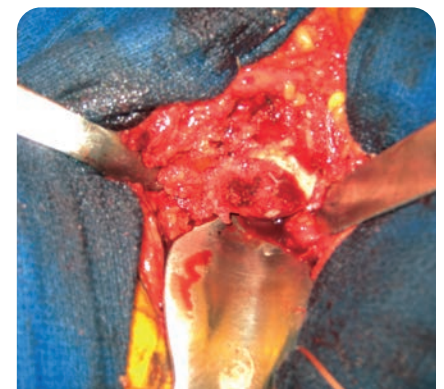
## Stulberg Proximal Femoral Elevator

Designed by S. David Stulberg, MD



### PRODUCT NO:

3420-09  
Overall Length: 14" (35,6 cm)  
Handle Length: 10" (25,4 cm)  
Blade Width at Widest: 48 mm  
Blade Width at Prongs: 24 mm





## Proximal Femoral Elevator – Standard Prongs

Help provide better access to the intramedullary canal

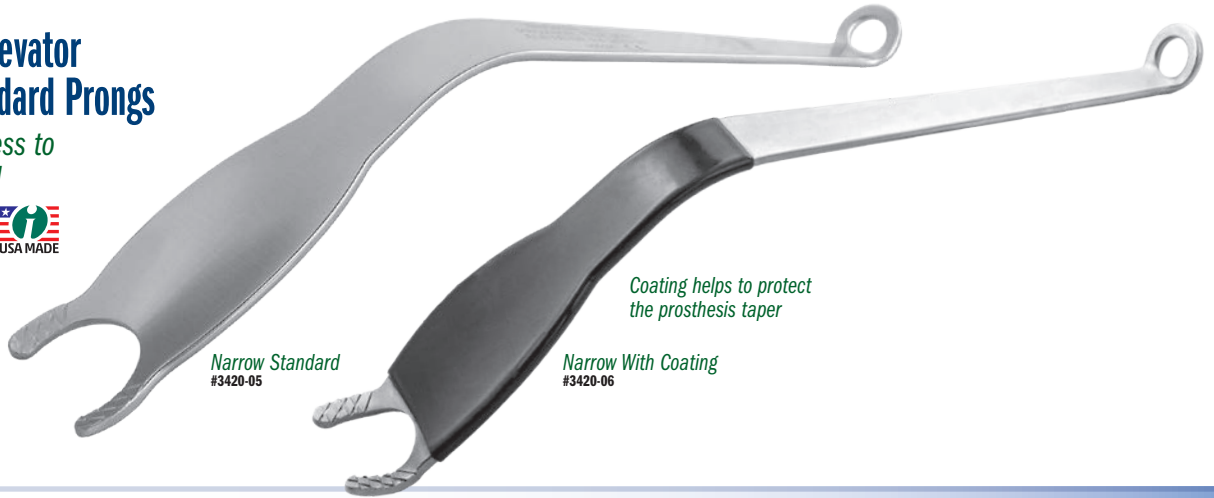
<b>PRODUCT NO:</b>
3420-01
Overall Length: 11.5" (29,2 cm)
Handle Length: 6.5" (16,5 cm)
Blade Width at Widest: 63 mm



## Proximal Femoral Elevator – Narrow with Standard Prongs

Help provide better access to the intramedullary canal

<b>PRODUCT NO'S:</b>
3420-05 [Standard]
Overall Length: 11.5" (29,2 cm)
Handle Length: 6.5" (16,5 cm)
Blade Width at Widest: 45 mm
3420-06 [With Coating]
Overall Length: 11.5" (29,2 cm)
Handle Length: 6.5" (16,5 cm)
Blade Width at Widest: 45 mm



Narrow Standard  
#3420-05

Narrow With Coating  
#3420-06

Coating helps to protect the prosthesis taper

Coating design modification by Lalit Puri, MD



Small  
#3421-01

Standard  
#3421-00

## APC Proximal Femoral Elevator

Designed by APC, Inc.

Elevates the proximal femur during total hip or hemi-arthroplasty surgery

Designed to elevate the proximal femur during total hip or hemi-arthroplasty surgery. Its unique design provides excellent access to the intramedullary canal. The elevator's geometry incorporates serrated edges to grip and elevate the proximal femur.

<b>PRODUCT NO'S:</b>
3421-00 [Standard]
Overall Length: 10.75" (27,3 cm)
Blade Width at Widest: 63 mm
3421-01 [Small]
Overall Length: 10.75" (27,3 cm)
Blade Width at Widest: 50 mm



## Amstutz Femoral Head-Neck Elevator

Designed by Harlan C. Amstutz, MD

Designed to elevate the proximal femur

<b>PRODUCT NO'S:</b>
3410 [Wide]
Overall Length: 12.25" (31,1 cm)
Blade Width at Widest: 67 mm
3410-01 [Narrow]
Overall Length: 12.25" (31,1 cm)
Blade Width at Widest: 50 mm



Wide  
#3410

Narrow  
#3410-01



## Femoral Neck Elevator with Teeth

Designed with teeth to help prevent slipping when lifting the femoral neck

**PRODUCT NO:**

C1030

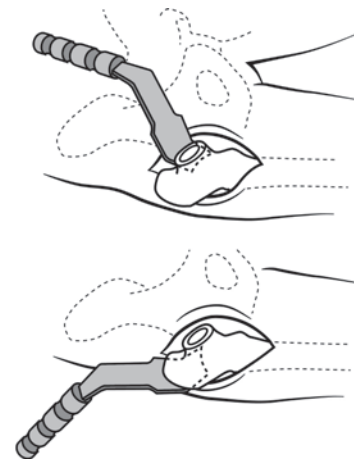
Overall Length: 11.4" (29 cm)

Handle Length: 5" (12.7 cm)

Blade Width at End: 1.35" (3.4 cm)



**New!**



## Hip Retractor with Waist Pad

Designed by Luis Ulloa

Waist Pad designed by Christopher Blair, MD

Designed for use during posterior approach hip arthroplasty, helping to eliminate the use of another hand by resting the waist pad against the body

**PRODUCT NO:**

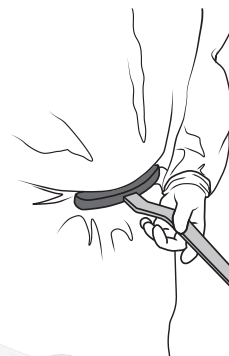
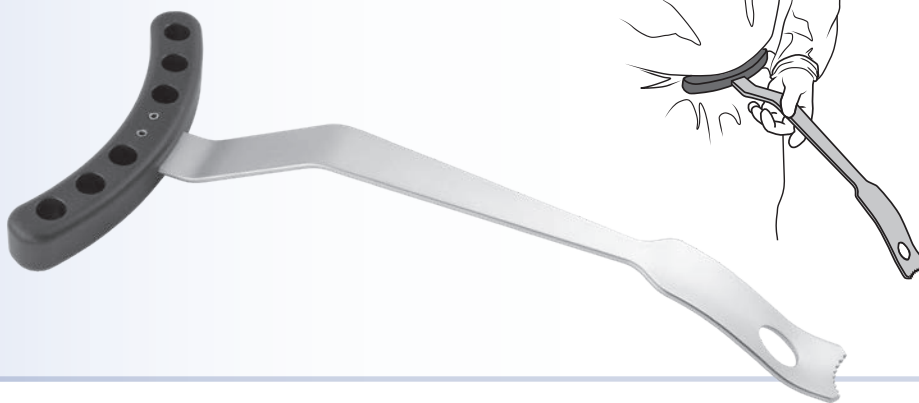
7557

Overall Length: 14.25" (36,2 cm)

Blade Width: 34 mm

Blade Length: 4" (10,2 cm)

Blade Hole: 23,6 mm x 15,4 mm



## Femoral Neck Elevator with Waist Pad

Elevator designed by Luis Ulloa;

Waist pad designed by Christopher Blair, DO

Designed to elevate the femoral neck for broaching

The waist pad allows the retractor to be wedged into the surgeons waistline to help control the elevator and maintain elevation of the femoral neck for broaching.

**PRODUCT NO:**

7556

Overall Length: 18" (45,7 cm)

Neck Width: 25 mm

Blade Width: 25 mm



## Blair Narrow Femoral Neck Elevator with Waist Pad

Designed by Christopher Blair, DO

Designed to elevate the femoral neck for broaching

The waist pad allows the retractor to be wedged into the surgeons waistline to help control the elevator and maintain elevation of the femoral neck for broaching.

**PRODUCT NO:**

3409

Overall Length: 18" (45,7 cm)

Neck Width: 19 mm

Width at End: 25 mm





## Rosen "V" Deep Soft Tissue Retractor

Designed by Adam Rosen, DO

*Designed for soft tissue retraction with an ergonomic handle*

**PRODUCT NO:**

6239  
 Overall Length: 12" (30,5 cm)  
 Blade Depth: (3.5" (8,9 cm)  
 Blade Width: 1.75" (4,4 cm)



## Wide Rake Retractors with Ergonomic Handle

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

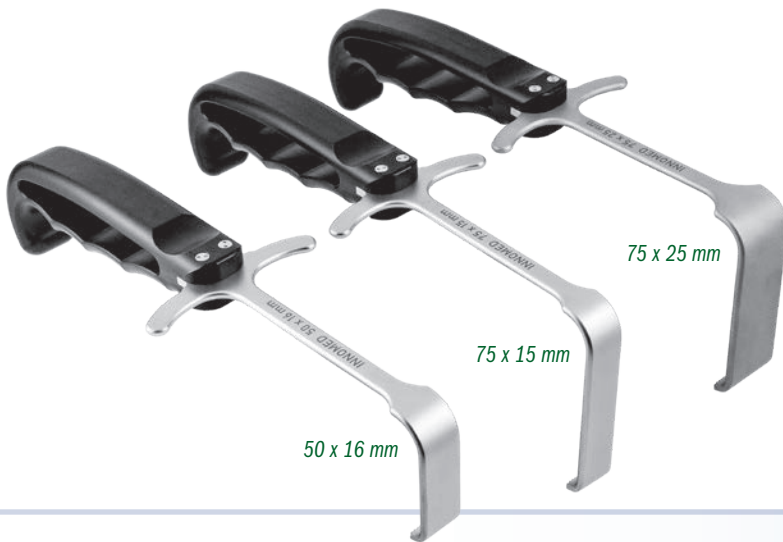
Non-glare finish featured on the metal retractor parts.



**PRODUCT NO'S:**

6051 [Deep, Sharp] Overall Length: 11.175 (28,3 cm) Blade Width: 2.375" (6 cm) Blade Depth: 2.75" (7 cm)	6053 [Shallow, Sharp] Overall Length: 11.175 (28,3 cm) Blade Width: 2.375" (6 cm) Blade Depth: 1.875" (4,8 cm)
6052 [Deep, Blunt] Overall Length: 11.175 (28,3 cm) Blade Width: 2.375" (6 cm) Blade Depth: 2.75" (7 cm)	6054 [Shallow, Blunt] Overall Length: 11.175 (28,3 cm) Blade Width: 2.375" (6 cm) Blade Depth: 1.875" (4,8 cm)

Sharp and dull teeth available in two depths



## Meyerding Type Retractors with Ergonomic Handle

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

Non-glare finish featured on the metal retractor parts.

**PRODUCT NO'S:**

6241 [50 x 16 mm] Overall Length: 8.875" (22,5 cm) Blade Width: 16 mm Blade Depth: 50 mm
6242 [75 x 15 mm] Overall Length: 9" (22,9 cm) Blade Width: 15 mm Blade Depth: 75 mm
6243 [75 x 25 mm] Overall Length: 9" (22,9 cm) Blade Width: 25 mm Blade Depth: 75 mm

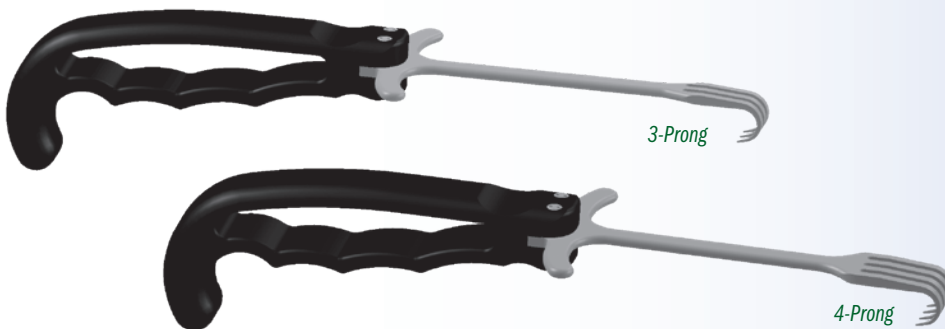


## Rake Retractors with Ergonomic Handle

*Designed for general use soft tissue retraction*

**PRODUCT NO'S:**

4839 [3-Prong] Overall Length: 9.5" (24,1 cm) Rake Width: 13 mm Rake Depth: 14 mm
4840 [4-Prong] Overall Length: 9.5" (24,1 cm) Rake Width: 19 mm Rake Depth: 14 mm



# Sarraf Coated Hip Dislocation Hook

Designed by Khaled M. Sarraf, MD

Designed to aid in dislocating a femoral stem while helping to prevent damage to the trunion

PRODUCT NO.:
5905
Curve Diameter: 50 mm
Overall Length: 12.5" (31.8 cm)
Handle Length: 4.75" (12.1 cm)

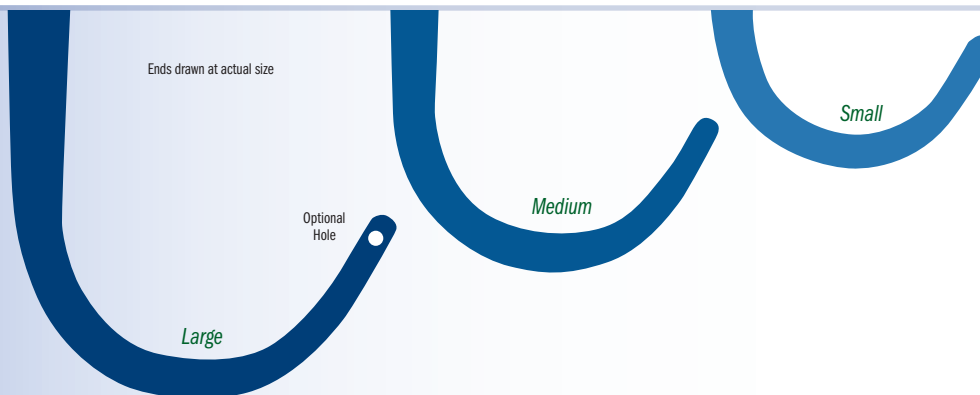


- ▶ Coated hook end helps to prevent from marring component surfaces.
- ▶ Can also be used as a bone hook, and for femoral elevation.

# Bone Hooks

Designed by R.L. Wixson, MD

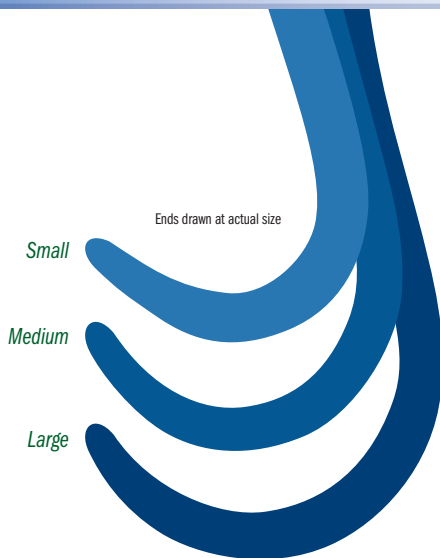
PRODUCT NO'S:
5910 [Small]
Curve Diameter: 25 mm
Overall Length: 12.75" (32.4 cm)
Handle Length: 4.75" (12.1 cm)
5915 [Medium]
Curve Diameter: 35 mm
Overall Length: 12.75" (32.4 cm)
Handle Length: 4.75" (12.1 cm)
5920 [Large]
Curve Diameter: 50 mm
Overall Length: 12.75" (32.4 cm)
Handle Length: 4.75" (12.1 cm)
5920-01 [Large w/ Cable/Wire Hole]
Designed by: R.L. Wixson, MD & J. McCarthy, MD
Cable/Wire Hole Diameter: 2 mm
Curve Diameter: 50 mm
Overall Length: 12.75" (32.4 cm)
Handle Length: 4.75" (12.1 cm)



# Lombardi Bone Hooks

Designed by Adolph V. Lombardi, MD

PRODUCT NO'S:
5925 [Small]
Curve Diameter: 25 mm
Overall Length: 10" (25.4 cm)
5930 [Medium]
Curve Diameter: 35 mm
Overall Length: 10" (25.4 cm)
5935 [Large]
Curve Diameter: 55 mm
Overall Length: 10" (25.4 cm)





# Taylor Retractors

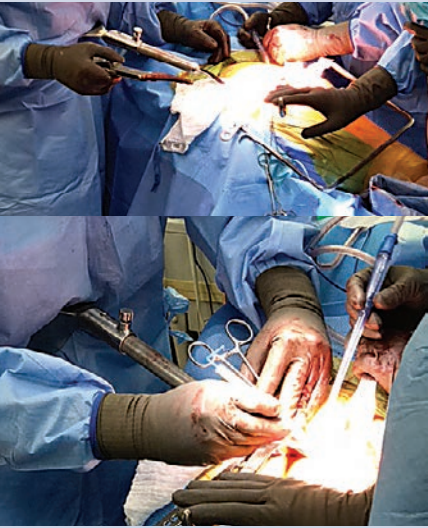
PRODUCT NO'S:	
6330-01 [Standard]	Overall Length: 8" (20.3 cm) Depth from Bend: 4" (10.2 cm) Blade Width: 32 mm
6330-02 [Large]	Overall Length: 9" (23 cm) Depth from Bend: 5.5" (14 cm) Blade Width: 32 mm
6330-03 [Deep with Pin Guides]	Overall Length: 9" (23 cm) Depth from Bend: 5.5" (14 cm) Blade Width: 32 mm Guide for Pins Up To: .125" (3.2 mm)



# Modular Weights

Weights can be used to help hold the retractors in place

PRODUCT NO'S:	
3430-01	1.5 lbs. (.68 kg)
3430-02	2.0 lbs. (.91 kg)
3430-03	2.5 lbs. (1.13 kg) with attaching hook



# Hand/Waist Rest Adapter

Designed by Matthew Clayton, MD

Designed to allow for hands-free use of a femoral elevator during posterior approach hip arthroplasty

Locking screw tightens onto the handle of many retractors/elevators for holding either by hand or by pressing into the waist

PRODUCT NO:	
8206	Overall Length: 8" (20.3 cm) Handle Insert Depth: 2.5" (6.4 cm) Handle Insert Internal Diameter: 1" (2.5 cm) Rest Pad Dimensions: 4" x 4" (10.2 x 10.2 cm)



# McPherson Retractor Extender

Designed by Ed McPherson, MD

Designed to extend a standard retractor to help provide additional leverage

Available in two sizes to accommodate most retractors – standard for retractors up to .125" (3.2 mm) thick, and large for retractors up to .16" (4 mm) thick.

PRODUCT NO'S:	
6022 [Standard]	Overall Length: 15.625" (39.7 cm) For retractors up to .125" (3.2 mm) thick
6022-01 [Large]	Overall Length: 15.625" (39.7 cm) For retractors up to .16" (4 mm) thick

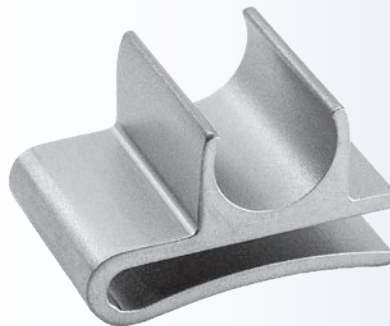


# Retractor Clip for Smoke Evacuation Tube

Designed by James Saucedo, MD

Repositionable stainless steel fastener designed to clip onto a retractor to help control the location of a smoke evacuation tube

PRODUCT NO:	
5466	Allows for use on a 1/8" thick material with allowance for a "spring" fit.
Dimensions: 27 mm Long 18 mm Wide 16 mm Deep	



**New!**



# Zelicof Winged Retractor

Designed by Steven B. Zelicof, MD Ph.D

*A non-modular, fixed point retractor for pelvic visualization in THA and pelvic surgery, with the distal post and wing providing bony stability and retraction*

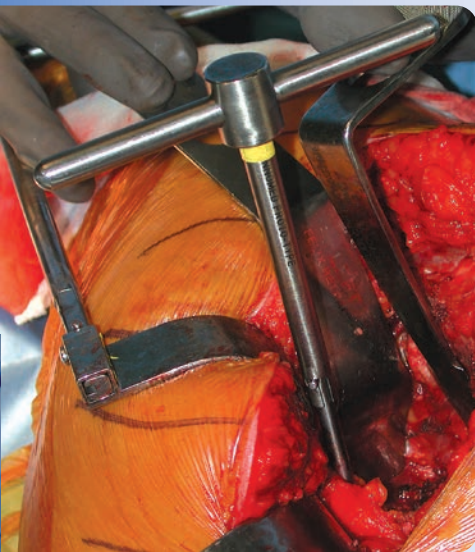
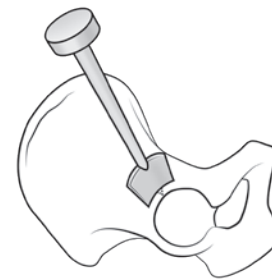
Thin Shaft  
#6117-5

Thick Shaft  
#6117-10

**PRODUCT NO'S:**

6117-5 [Thin Shaft]  
Shaft Diameter: 6 mm  
Overall Length: 9" (22,9 cm)  
Pad Dimensions: 31,4 x 19,6 mm  
Prong Length: .85" (21,6 mm)  
Prong Width (before taper): 3 mm

6117-10 [Thick Shaft]  
Shaft Diameter: 10 mm  
Overall Length: 9" (22,9 cm)  
Pad Dimensions: 31,4 x 19,6 mm  
Prong Length: .85" (21,6 mm)  
Prong Width (before taper): 3 mm



**PRODUCT NO'S:**

1200-00 [Set: Ins/Ext & Two Pins]

1200-0A [Set: Ins/Ext & Two Pins w/Stop]

Also sold individually:

1200-01 [Insertor/Extractor]

1200-02 [Pin]

Overall Length: 4.5" (11,4 cm)  
Pin Depth: 2" (5,1 cm)  
Pin Diam.: 3.9 mm

1200-03 [Pin with Stop]

Overall Length: 4.5" (11,4 cm)  
Pin Tip-to-Stop Depth: .75" (1,9 cm)  
Pin Diameter: 3.2 mm

1200-04 [Deep Pin]

Overall Length: 7" (17,8 cm)  
Pin Depth: 4.5" (11,4 cm)  
Pin Diameter: 3.9 mm



# Amstutz Charnley-type Acetabular Exposure Pin Set

Designed by Harlan C. Amstutz, MD

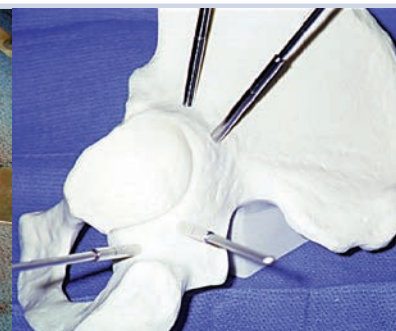
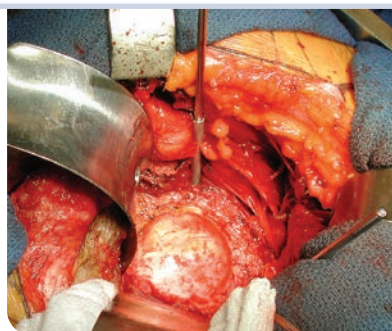
*Used to enhance exposure in the acetabulum*

Deep Pin  
#1200-04

Pin  
#1200-02

Pin with Stop  
#1200-03

Insertor/Extractor  
#1200-01



# Tube and Extender Pins

*Designed to help achieve wide exposure of the acetabulum during total hip arthroplasty*

Tube pins with depth stops are inserted under direct visualization into the thick bone of the posterior column and iliac wing. Extender pins placed in the tube pins help keep the soft tissues from obstructing the view of the acetabulum. The low profile of the tube pins helps keep them out of the way of the surgeon. The extender pin can be removed or left in the tube pin depending on the size of the patient.

Tube Pin  
#1230

Extender Pin  
#1250



**PRODUCT NO'S:**

Packages of 10

1230 [Tube Pin]  
Pin Diameter at End: 1/8" (3,2 mm)  
Overall Length: 70 mm  
Length to Stop: 20 mm

1250 [Extender Pin]  
Pin Diameter: 1/8" (3,2 mm)  
Overall Length: 100 mm

Helpful tools for inserting/removing pins.

**PRODUCT NO'S:**

1205 [Pin Insertor]

3030 [Pin Insertor/Extractor]

Pin Insertor

Pin Insertor/Extractor

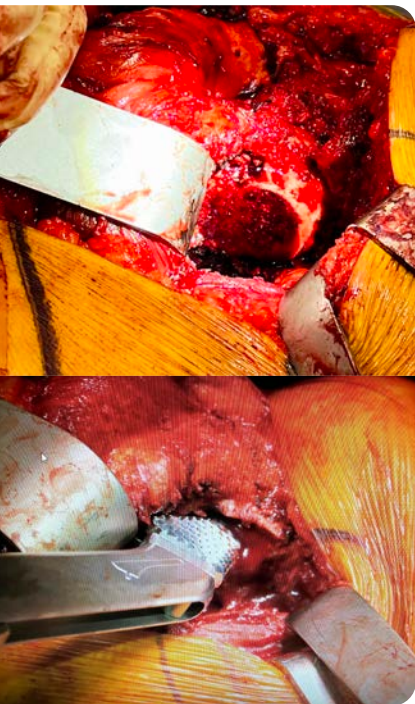


# FREE TRIAL

## 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.



*New!*

## McMaster Abductor Retractor

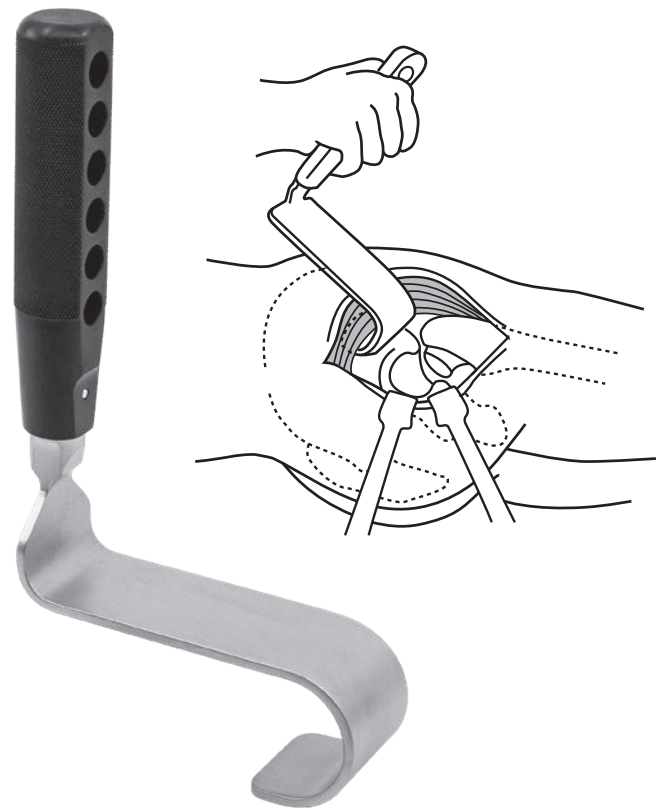
Designed by William D. McMaster, MD

*Designed to help with proximal femur exposure helping to protect the abductors – gluteus medius and minimus – during posterior approach THA*

The ergonomic design allows application where soft tissue retraction is needed.

**PRODUCT NO:**

6385  
Overall Length: 8.75" (22,2 cm)  
Handle Length: 4.625" (11,7 cm)  
Blade Depth: 4.125" (10,8 cm)  
Blade Width: 1.5" (3,8 cm)  
Blade Curve Diameter: 1.75" (4,4 cm)



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