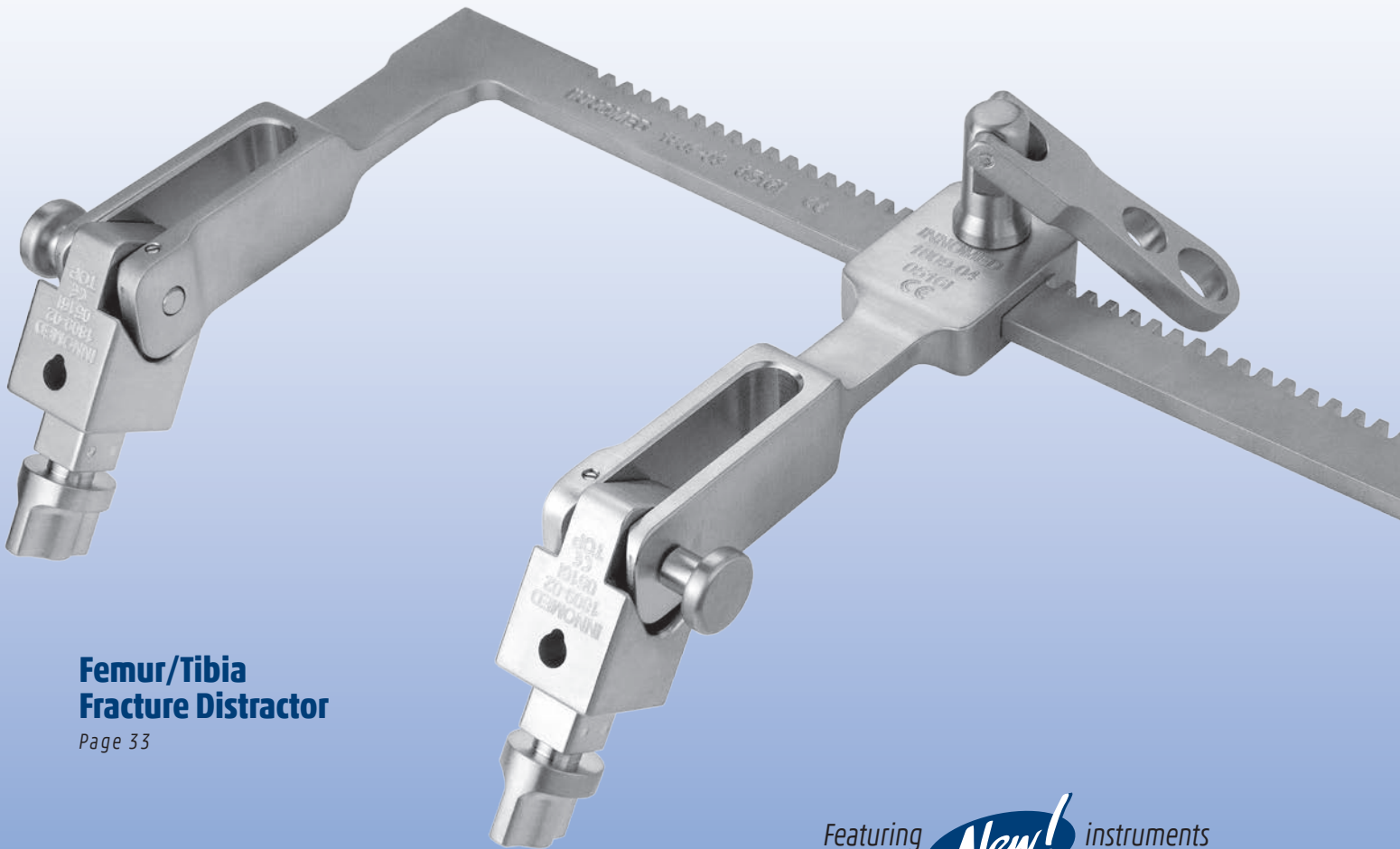


# INNOVATIONS

in Orthopedic Instruments

*Trauma*

October 2016



**Femur/Tibia  
Fracture Distractor**

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Featuring many **New!** instruments throughout

# What's New In This Catalog?

a snapshot of all the *New!* instruments within



**Adson Forceps with Cobb Elevator End**  
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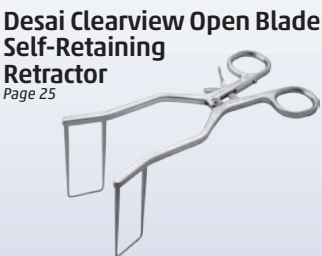
**Bradley Periosteal Elevator**  
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**Browner Wire Tightener**  
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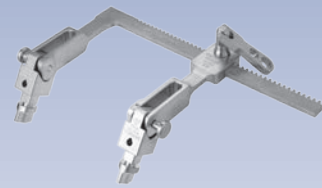
**Coated Allis Bone Clamp**  
Page 7



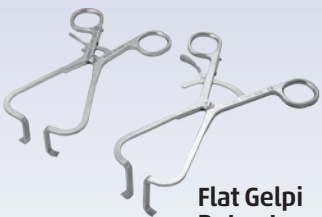
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**Locking Bone Screw Assembly Set**  
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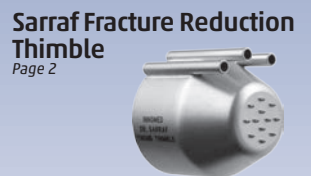
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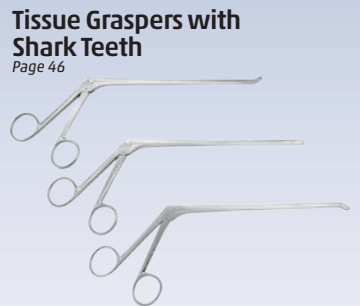
**O'Brien Bone Clamp**  
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**Ortholucent O'Brien Bone Clamp**  
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Page 2



**Tissue Graspers with Shark Teeth**  
Page 46



**Wagner Osteotome Handle**  
Page 40



**Wixted Fracture Distractor**  
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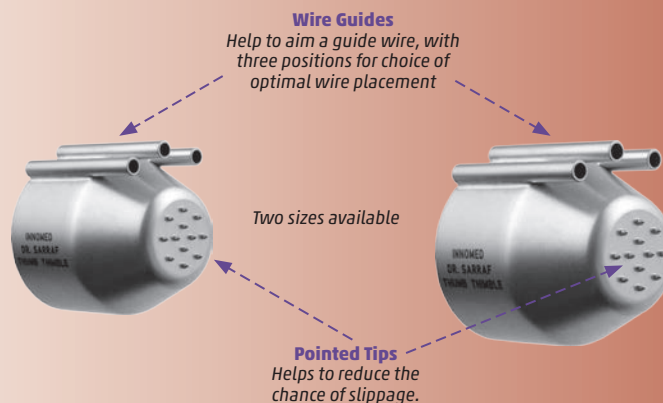
Designed by Khaled M. Sarraf, MD

<b>PRODUCT NO:</b>
2290 [22 mm] Overall Length: 1.185" (3 cm)
2291 [26 mm] Overall Length: 1.185" (3 cm)

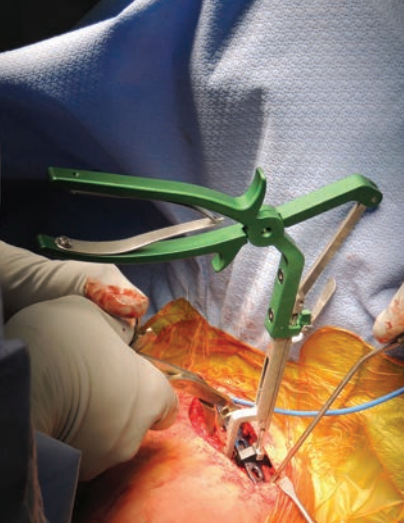


## Sarraf Fracture Reduction Thimble

Helps to hold bone fragments in place during fixation



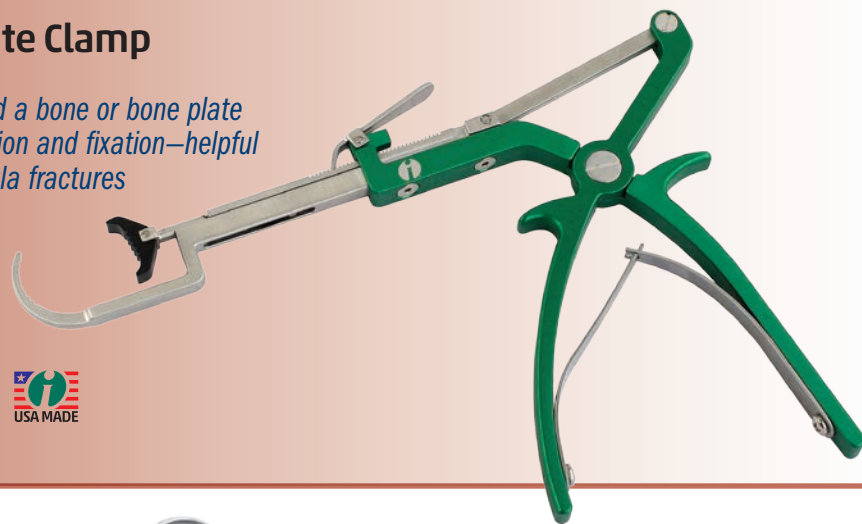
Provides the surgeon with an instrument for maintaining a fracture fragment in the appropriately reduced position during application of K-wires. Helpful in osteoporotic bone that is not amiable to forced reduction using reduction clamps. The wire guides help to aim the K-wire, with three positions for choice of optimal placement and for parallel wire placement. The pointed tips at the end of the thimble help to reduce the chance of slippage while maintaining a fracture reduction.



## Stoll Bone Plate Clamp

Designed by Jordan Stoll, MD

*Designed to help hold a bone or bone plate in position for reduction and fixation—helpful with clavicle and fibula fractures*



**PRODUCT NO:**  
1774  
Overall Length: 10" (25,4 cm)



**PRODUCT NO'S:**  
1895-01 [Small]  
Overall Length: 5" (12,7 cm)  
Pads: .75" x .45" (19 mm x 12 mm)  
1895-02 [Large]  
Overall Length: 8.5" (21,6 cm)  
Pads: 1.25" x 1" (32 mm x 25 mm)



## Bargo Bone Holding Clamp

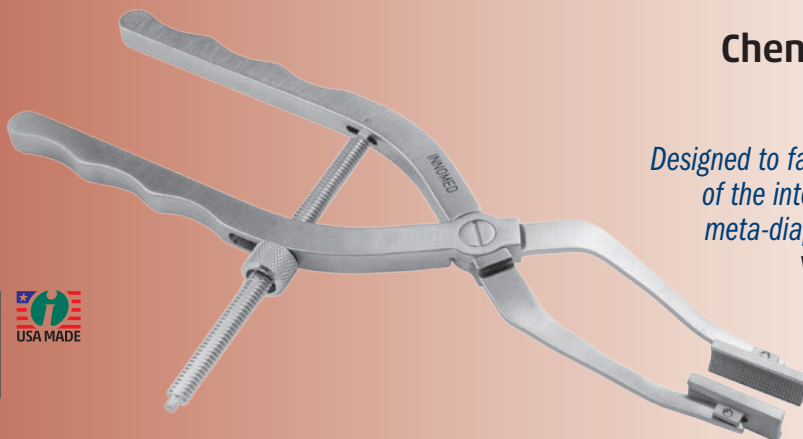
Designed by Lonnie Bargo, CST/CFA

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

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

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

**PRODUCT NO:**  
1808  
Overall Length: 9.25" (23,5 cm)  
Arm Downward Offset: 15 mm  
Pad Dimensions: 1" x .375" (25,4 cm x 1 cm)



## Chen Diaphyseal Fracture Reduction Clamp

Designed by Franklin Chen, MD

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

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

## Radiolucent Small Bone Clamp

*Can be kept in place while using image intensification or taking an x-ray*

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

**PRODUCT NO:**  
1828  
Overall Length: 7" (17,8 cm)



# Browner MIS Bone Clamp

Designed by Bruce D. Browner, MD

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

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

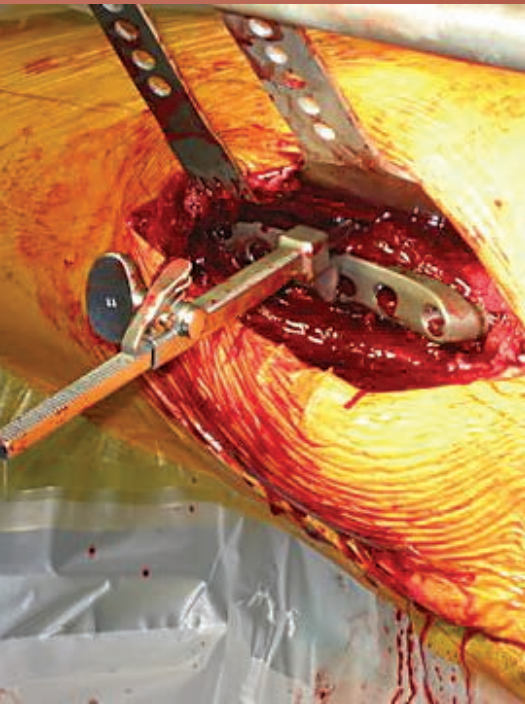
**PRODUCT NO:**

1379

Overall Length: 9.25" to 11.5" (23,5 to 29,2 cm)  
Maximum Bone Diameter: ~ 35 mm



*New!*



# Durkan Ratchet Bone Clamps

Designed by John Durkan, MD

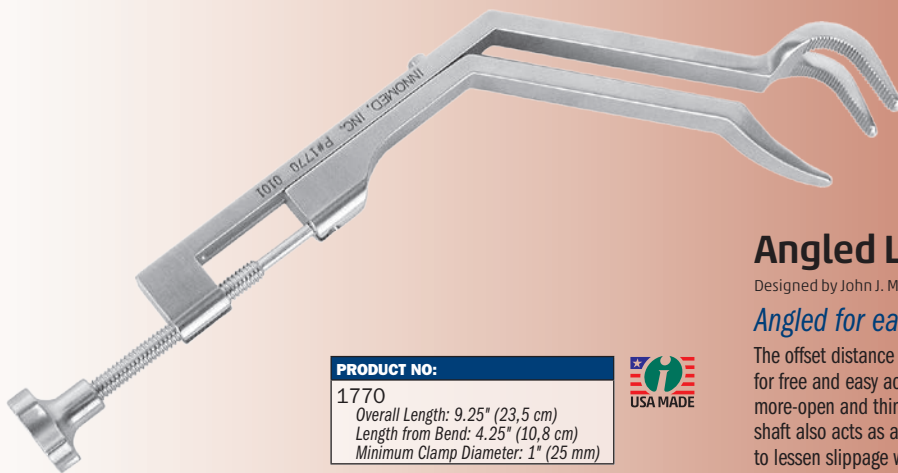
*Design of ratcheting mechanism allows for quick tightening and release around the bone*

**PRODUCT NO'S:**

1867 [Large]  
Overall Length: 8.625" (21,9 cm)  
Jaw opens to: 3.5" (8,9 cm)

1868 [Small]  
Overall Length: 8.5" (21,6 cm)  
Jaw opens to: 3.75" (9,5 cm)

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**PRODUCT NO:**

1770

Overall Length: 9.25" (23,5 cm)  
Length from Bend: 4.25" (10,8 cm)  
Minimum Clamp Diameter: 1" (25 mm)



# Angled Lowman-Type Bone Clamp

Designed by John J. McLeod, Jr., MD

*Angled for easier insertion of the jaws around the bone*

The offset distance between the jaws and handle of the clamp allow space for free and easy access to use a drill or screwdriver. The angled clamp and more-open and thinner jaws facilitate easier use in deep incisions. The angled shaft also acts as a self-retaining retractor. The tightening handle is scalloped to lessen slippage when tightening or untightening.

# Redler Wrist Bone Clamp with Wire Guide

Designed by M.R. Redler, MD



PRODUCT NO'S:	
1885-45	For Pins up to .045" (1.1 mm) Overall Length: 9.5" (24.1 cm) Jaw opens to: 3.5" (8.9 cm)
1885-62	For Pins up to .062" (1.6 mm) Overall Length: 9.5" (24.1 cm) Jaw opens to: 3.5" (8.9 cm)



Two sizes available:  
For use with 0.045" (1.1 mm)  
or 0.062" (1.6 mm) K-wires.

**Can be used for:**

- ▶ Placement of pins across distal radius fractures or across carpal bones
- ▶ Arthroscopically assisted fixation in the wrist
- ▶ Fracture fragments about the elbow

*Designed to hold bony fragments in place for placement of guide wires*

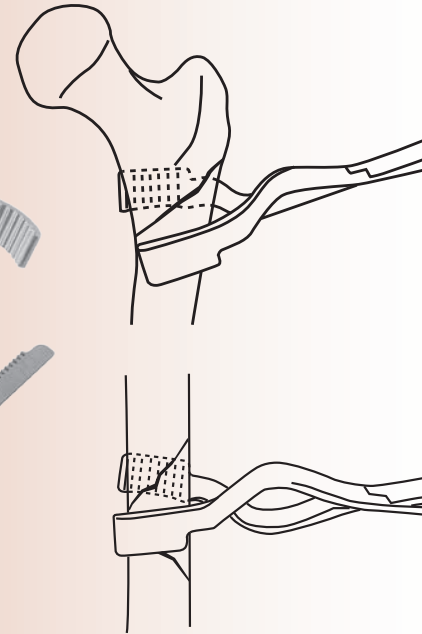
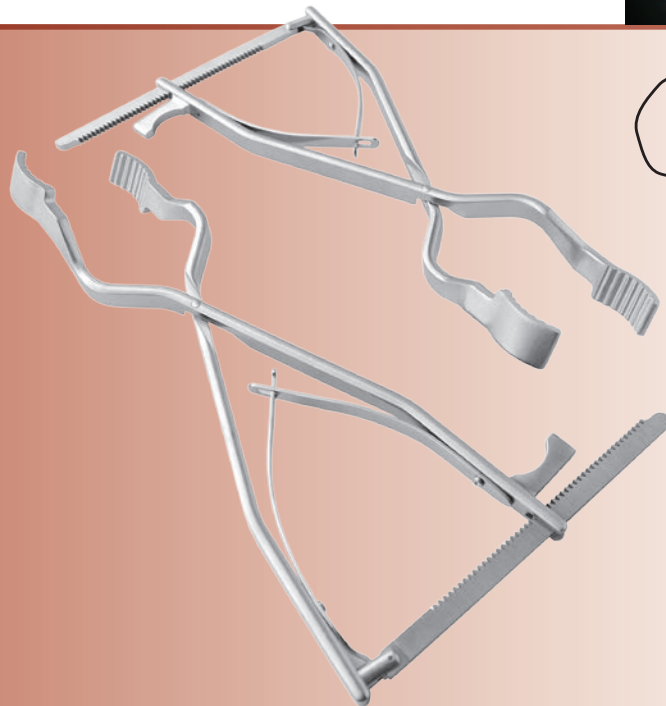


# Cannestra Trochanteric Fracture Reduction Clamp

*Designed to help reduce comminuted intertrochanteric and subtrochanteric hip fractures, this clamp is offset at its ends to avoid placement into the fracture bed*

Clamping ends are curved and rotated to allow maximum bony contact upon fracture reduction. Ideal for fractures with a flexed anterior cortical spike. Made for right and left hip fracture configurations.

PRODUCT NO'S:	
3860-L [Left]	Overall Length: 11.25" (28.6 cm)
3860-R [Right]	Overall Length: 11.25" (28.6 cm)



# Vosburg Cannulated Periarticular Clamp

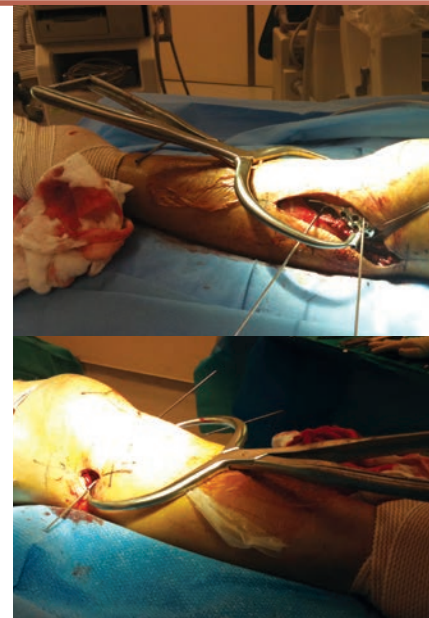
Designed by Caleb Vosburg, MD

*Cannulated clamp tips allow passage of k-wires*

By compressing the fracture with the clamp and then passing two k-wires, the clamp can then be removed to allow more working room and versatility when applying a plate.



PRODUCT NO:	
1864	Overall Length: 13" (33 cm) Handle Length: 8" (20.3 cm) Ratcheted Opening from 2" to 3.5" (5.4 to 7.6 cm) Accepts Pins up to: 7/64" (2.8 mm)



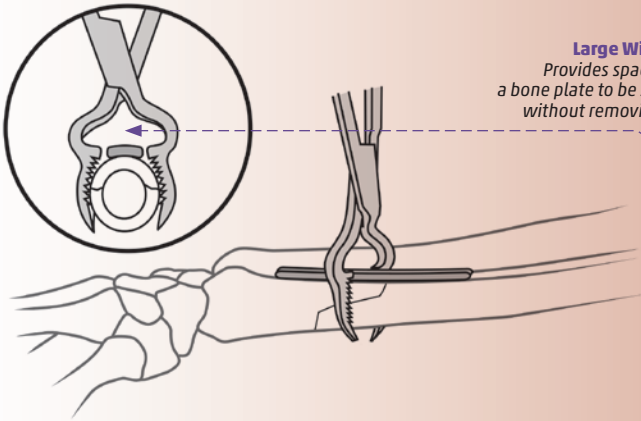
## Durham Bone Reduction Clamp

Designed by Alfred A. Durham, MD

*Allows application of a bone plate without removing the reduction clamp on medium size bones such as the fibula, ulna, and radius*

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

**New!**



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



**PRODUCT NO:**  
3652  
Overall Length: 7.375" (18,7 cm)

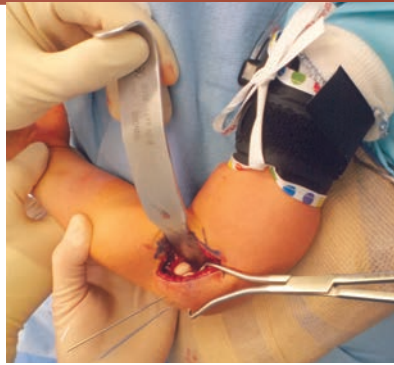


## Lateral Condyle Fracture Set

Designed by Carl R. Weinert, MD

*Designed for adult and pediatric lateral condyle fractures*

The asymmetric clamps (1756-L & 1756-R) are shaped to secure the lateral condyle fragment. The straight tip is placed in the coronoid fossa and the curved tip is used to grasp and compress the lateral condyle fragment. The symmetric reduction clamp (1755) is useful to compress T-condylar fractures, and in many other fracture reduction applications.



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

**New!**



## Weinert Elbow Retractor

*Designed for use within the elbow joint to retract the anterior capsule, and provide full exposure of the anterior articular surface for reduction and fixation of displaced lateral condyle fractures*

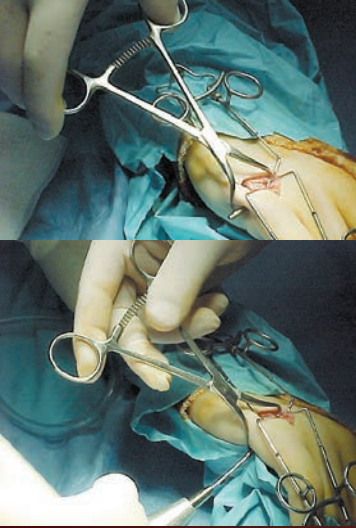
The small blunt tip hooks over the intact medial condyle.

## Weinert Bone Holding Reduction Clamps

*Designed to securely hold fracture reductions*

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



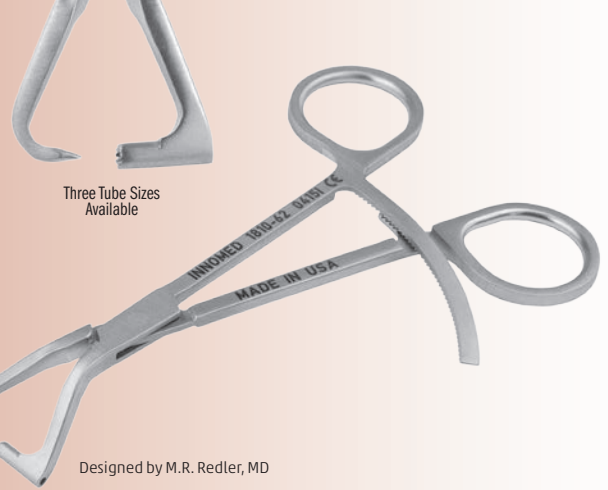


## Redler Percutaneous Pin Clamp

*Holds a small bone in apposition during percutaneous pinning of a fracture*

Designed with a proximal pin tube with teeth; the tube guides the pin and the teeth help keep the tube in place on the bone. The distal tip is used to control the bone fragment. Includes a long ratchet for locking on various sized bones, from 1 mm to 14 mm. Also useful during insertion of cannulated screw guide wires.

PRODUCT NO'S:	
Overall Length:	5" (12,7 cm)
1810-35 Tube Diameter:	.035" (.9 mm)
1810-45 Tube Diameter:	.045" (1.1 mm)
1810-62 Tube Diameter:	.062" (1.6 mm)



Three Tube Sizes Available

Designed by M.R. Redler, MD

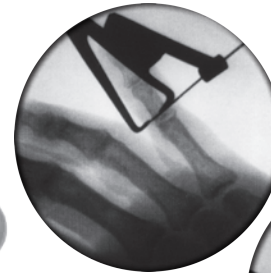
## Chang Pin Clamp

Designed by Win Chang, MD

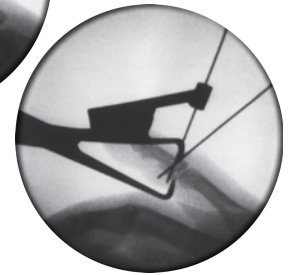
*Designed to allow accurate insertion of pins for internal fixation*

Used for small bones, the clamp allows accurate insertion of pins for internal fixation. The cannula has a 1.8 mm internal diameter.

PRODUCT NO:	
1760-01	Cannula Internal Diameter: 1.8 mm
	Overall Length: 6" (15,2 cm)
	Locking Ratchet Opens To: 25 mm



(Prototype used in X-ray images)



**New!**



## Coated Allis Bone Clamp

Modification of design by Charles T. Resnick MD

*A traditional Allis Bone Clamp designed with a longer ratchet—for a wider opening to allow a bone and plate to be clamped and locked onto—and one coated end to prevent from marring a component surface*

PRODUCT NO:	
1381	Overall Length: 6.125" (15,9 cm)
	Ratcheted Clamp Opens to: 35 mm
	Non-coated-end Width: 4 mm



## Resnick Allis Bone Clamp

Designed by Charles T. Resnick MD

*A traditional Allis Bone Clamp designed with a longer ratchet which allows for a wider opening to allow a bone to be clamped and locked onto*

PRODUCT NO:	
1385	Overall Length: 6" (15,2 cm)
	Ratcheted Clamp Opens to: 37 mm
	Clamp End Width: 4.7 mm



## O'Brien Bone Clamp

Designed by Todd O'Brien, DPM

*Designed for use in stabilization of a fracture or osteotomy*

**PRODUCT NO:**  
1816  
Overall Length: 5.25" (13,3 cm)



*New!*



*New!*

## OrthoLucent O'Brien Bone Clamp

Designed by Todd O'Brien, DPM

*Designed for use in stabilization of a fracture or osteotomy*

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

**PRODUCT NO:**  
1815-R  
Overall Length: 5.25" (13,3 cm)

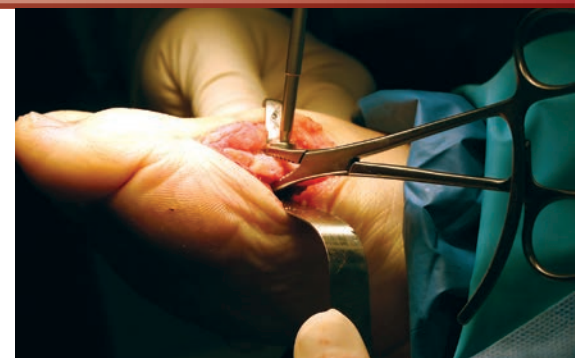
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## O'Brien Bone Clamp with Drill Guide

Designed by Todd O'Brien, DPM

*Enables a surgeon to apply a screw directly through the integrated guide*

Calibrated handle measures bones from 6 mm up to 24 mm. Guide accommodates 1.5, 2.0 and 2.7 mm screws.

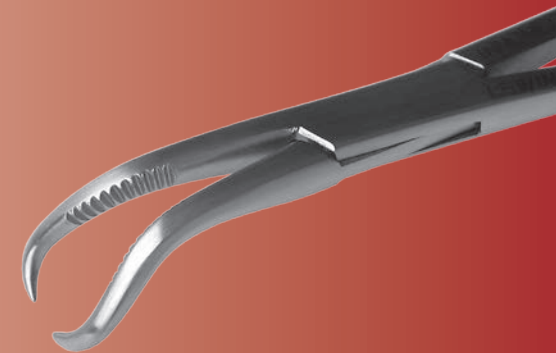


**PRODUCT NO:**  
1815  
Overall Length: 5" (12,7 cm)  
Guide Diameter: 6.2 mm  
Calibrations from 6 mm to 24 mm

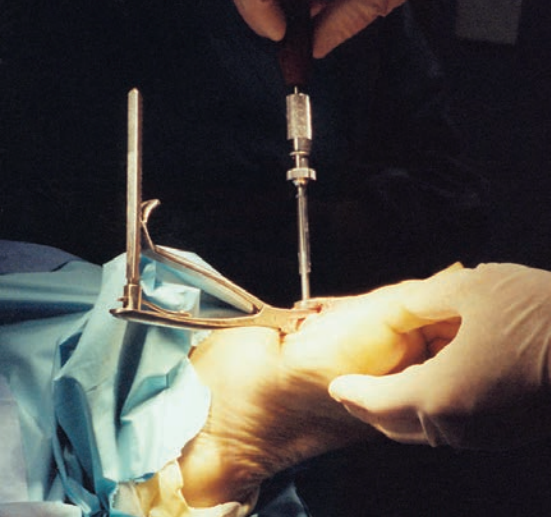
MADE EXCLUSIVELY FOR INNOMED IN GERMANY

## Lewin Small Bone Clamp

**PRODUCT NO:**  
4685  
Overall Length: 5" (12,7 cm)







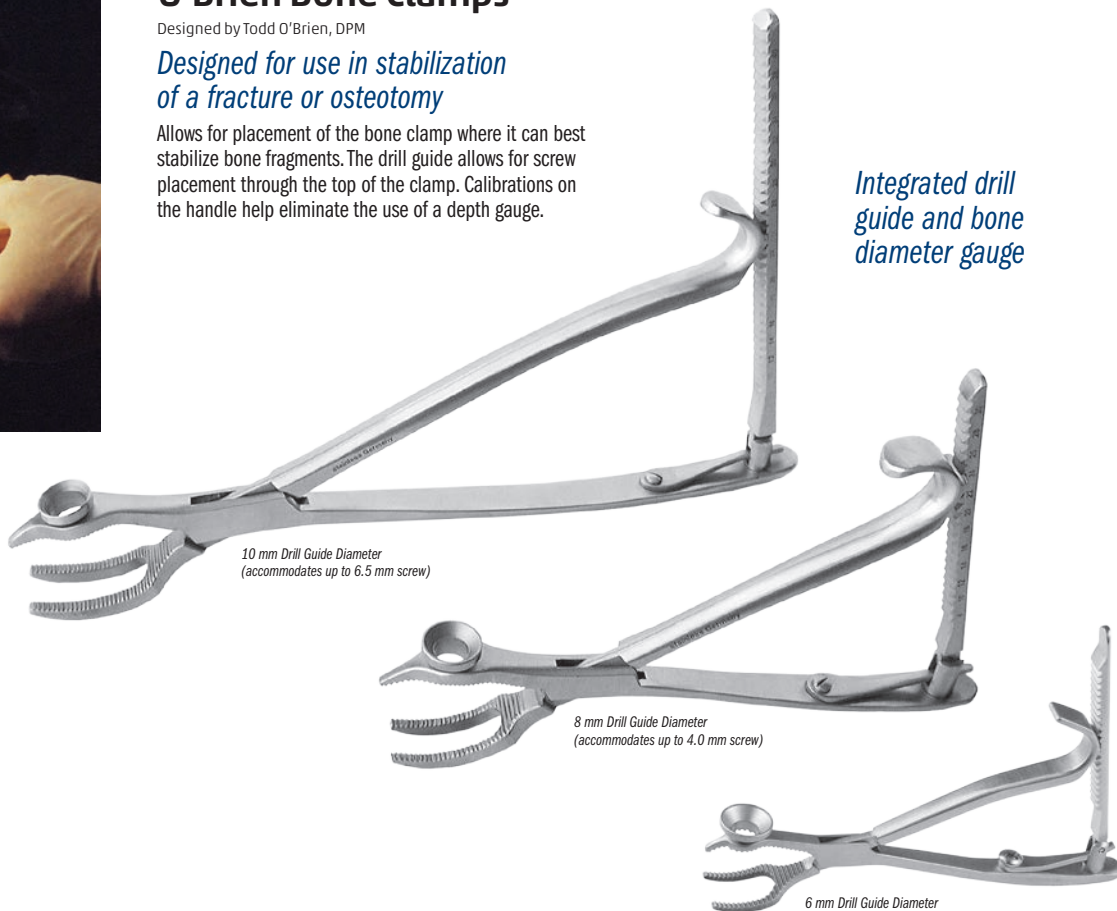
## O'Brien Bone Clamps

Designed by Todd O'Brien, DPM

*Designed for use in stabilization of a fracture or osteotomy*

Allows for placement of the bone clamp where it can best stabilize bone fragments. The drill guide allows for screw placement through the top of the clamp. Calibrations on the handle help eliminate the use of a depth gauge.

*Integrated drill guide and bone diameter gauge*



### PRODUCT NO'S:

#### 1890-02 [Large]

Drill Guide Diameter: 10 mm  
(accommodates up to 6.5 mm screw)  
Calibrated from 12 mm to 40 mm  
Overall Length: 9.25" (23.5 cm)

#### 1890-01 [Small]

Drill Guide Diameter: 8 mm  
(accommodates up to 4 mm screw)  
Calibrated from 8 mm to 30 mm  
Overall Length: 6" (15.2 cm)

#### 1890-XSM\* [Extra Small]

Drill Guide Diameter: 6 mm  
Overall Length: 4" (10.2 cm)

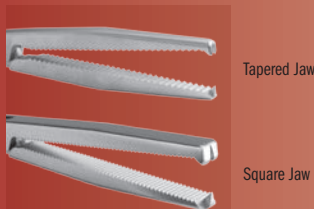
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FOR INNOMED IN  
GERMANY



## Powers Modified Kocher Clamps

Designed by Mark Powers, MD

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



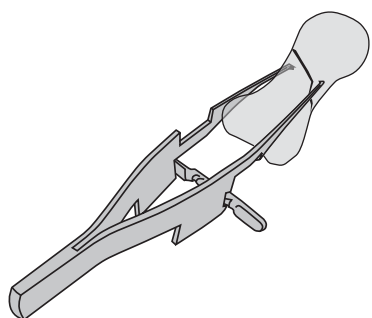
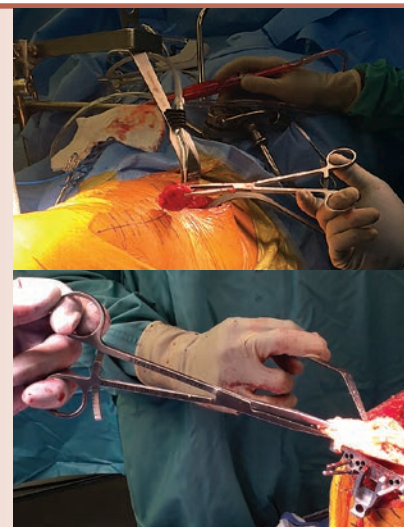
### PRODUCT NO'S:

#### 1813 [Tapered Jaw]

Overall Length: 8.25" (21 cm)  
Law Length: 2.5" (6.4 cm)

#### 1814 [Square Jaw]

Overall Length: 8.25" (21 cm)  
Law Length: 2.5" (6.4 cm)



## Balfour Locking Adson Forceps

Designed by George Balfour, MD

*A modified adson forceps designed with a locking ratchet to hold the forceps closed around a small bone fracture*

### PRODUCT NO:

2016  
Overall Length: 4.375 (11.1 cm)



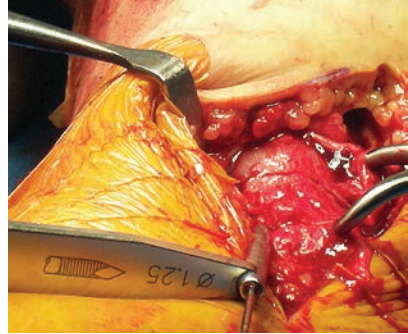


## Calvo Medial Malleolus Fracture Clamp

Designed by Ignacio Calvo, MD

*Designed to reduce and hold a displaced medial malleolus fracture*

Also very useful in olecranon fractures.



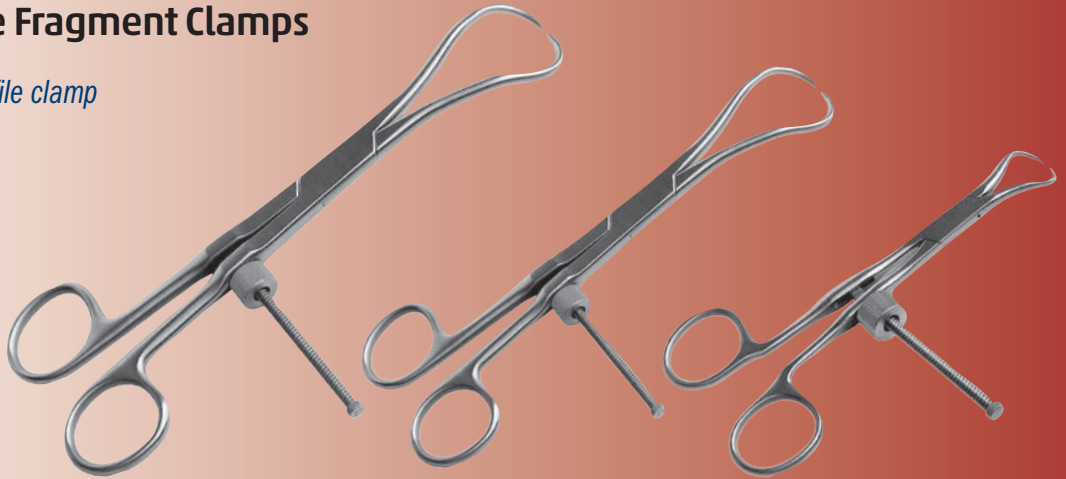
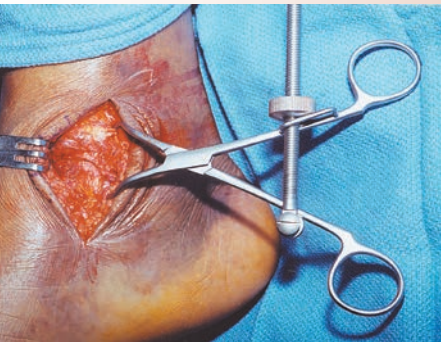
PRODUCT NO'S:	
1801-L	[Left]
1801-R	[Right]

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GERMANY

## Medial Malleolar/Bone Fragment Clamps

Designed by Edward L. Sclamberg, MD

*Quick tightening & release low profile clamp with unlimited settings*



**PRODUCT NO'S:**

1840 [Large]  
Overall Length: 8" (20,3 cm)  
Clamp End Length: 3"

1835 [Medium]  
Overall Length: 6" (15,2 cm)  
Clamp End Length: 2"

1830 [Standard]  
Overall Length: 5.5" (14 cm)  
Clamp End Length: 1"

MADE EXCLUSIVELY  
FOR INNOMED IN  
GERMANY



## Teurlings Medial Malleolar Clamp with Wire Guide

Designed by Luc Teurlings, MD

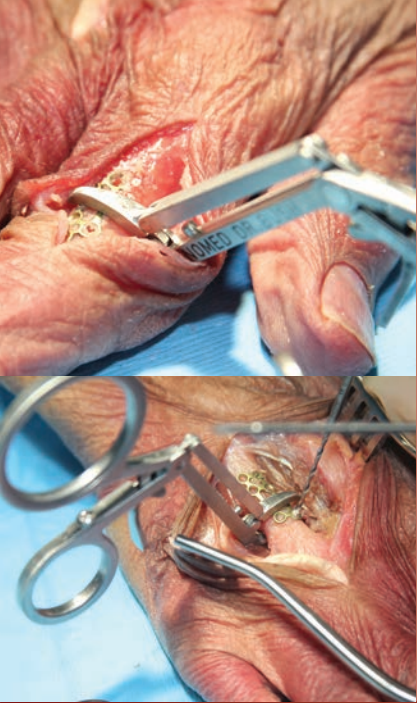
*Helps to stabilize the medial malleolar fragment during internal fixation*



**PRODUCT NO:**

1803  
Cannula Diameter: .062" (1.6 mm)  
Overall Length: 5.25" (13,3 cm)

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GERMANY

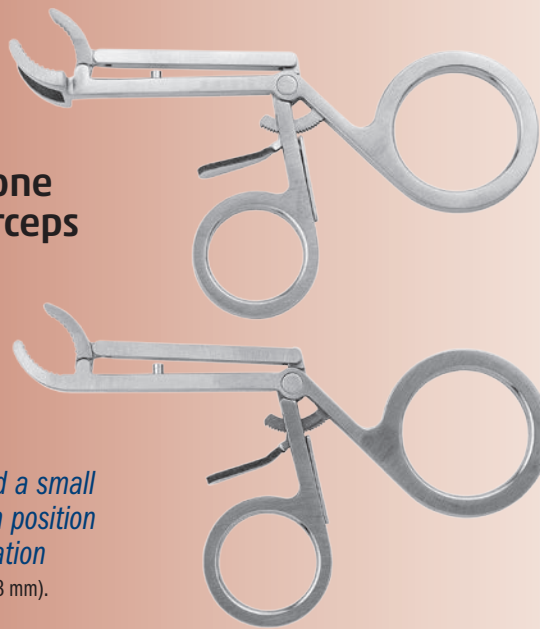


## Bush Small Bone Reduction Forceps

Designed by Andrew P. Bush, MD

*Designed to help hold a small bone or bone plate in position for reduction and fixation*

Opens to approximately .5" (13 mm).



PRODUCT NO'S:	
1888 [Double]	Overall Length: 4.5" (11,4 cm) Jaw Width: .7" (17,7 mm)
1889 [Single]	Overall Length: 4.5" (11,4 cm) Jaw Width: .15" (3,7 mm)

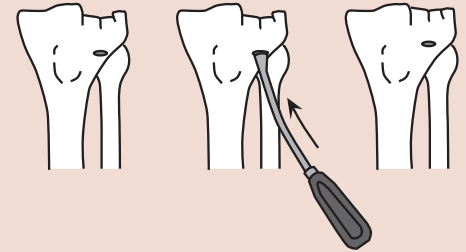


## Malleable Bone Tamps

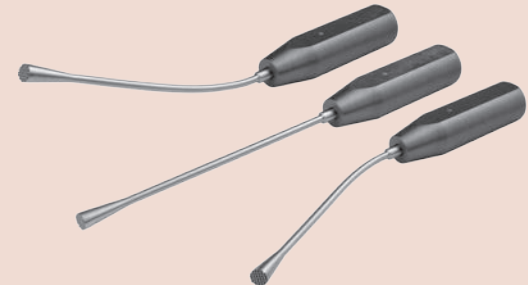
Modified by Serge Kaska, MD

*The large tamp is designed to help elevate a depressed tibial plateau fracture, while the small tamp can help elevate a depressed tibial plafond and smaller tibial plateau fractures*

PRODUCT NO'S:	
5296 [Large]	Overall Length: 14" (35,6 cm) Shaft Length: 9.5" (24,1 cm) Impactor Diameter: 12.5 mm
5296-01 [Small]	Overall Length: 9.5" (24,1 cm) Shaft Length: 6" (15,2 cm) Impactor Diameter: 10 mm



*Malleable shaft can be contoured for different angles*



## Sandman Curved Bone Punch

Designed by Geoffrey A. Sandman, MD

*Designed to help elevate a depressed tibial plateau fracture*

PRODUCT NO:	
5305	Overall Length: 14" (35,6 cm) Shaft Length: 9.5" (24,1 cm) Impactor Diameter: 12.5 mm (.5")

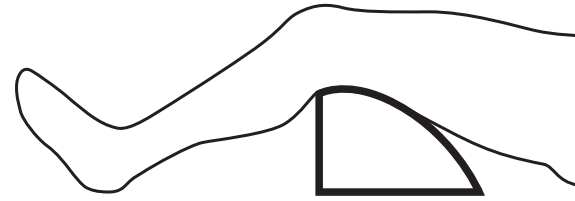


## Lower Extremity Leg Positioner

Designed by Ronald Romanelli, MD

Also well suited for use with ankle fractures. Supplied with one autoclavable silicone pad. Positioner is radiolucent and gas or steam sterilizable.

PRODUCT NO'S:	
2745	Dimensions: 5.5" H x 9.5" L x 9.25" W (12,7 cm x 24,1 cm x 23,5 cm)
Replacement Parts:	
2760-P	[Silicone Pad]



*Designed to lift the knee for lower extremity casting applications*

## Sanders Extremity Positioning Tubes

Designed by Richard A. Sanders, MD

*Designed to support the knee and ankle during lower extremity surgery*

The 6" tube lifts the knee off the operating table and allows for approximately 30° of knee flexion. Very useful for closure of total knee incisions, supporting fractures of the distal femur, and tibia plateau fractures. The 4" tube elevates the foot and ankle for ankle fracture surgery. The tubes are made of aluminum, allowing them to be autoclaved. They help eliminate the need for rolled sheet bolsters.

### PRODUCT NO'S:

2740-01 [Small]  
Diameter: 4" (10,2 cm)  
Width: 8" (20,3 cm)

2740-02 [Large]  
Diameter: 6" (15,2 cm)  
Width: 8" (20,3 cm)



## Cherf Cast Stand

Designed by John Cherf, MD

*Assists in applying short leg casts*

Designed to assist in applying short leg casts, the adjustable height permits optimal leg position for the seated patient and helps insure the application of a cast with the foot/ankle at 90 degrees to the leg. The foot is placed on the tongue of the stand. Stockinette is pulled over the foot and tongue. Cast padding and plaster/fiberglass is used in a routine fashion. The cast stand is slipped forward disengaging the foot after the cast has hardened.

### PRODUCT NO:

2040  
Base: 18.5" x 14.5" (47 cm x 36,9 cm)  
Height: Adjusts from 14" to 23.75" (35,6 cm to 55,3 cm)  
Foot Rest: 11" x 1.75" (27,9 cm x 4,4 cm)





## Jackson Flat Top Traction Device

A table-top traction device designed for fracture fixation in the acetabulum, pelvis, and femur

Can be used in a variety of applications, including open and percutaneous pelvic and acetabular fracture surgery, hip fracture fixation and femur fracture fixation including antegrade or retrograde nailing.

The light-weight portable device attaches directly to a standard radiolucent flat top table. Recommended for use with the disposable sterile kit, one of which is included, with additional kits sold separately.

### PRODUCT NO'S:

0007 [Jackson Traction Device]

This product number includes (1) #0008 Disposable Sterile Kit

### Sold Separately:

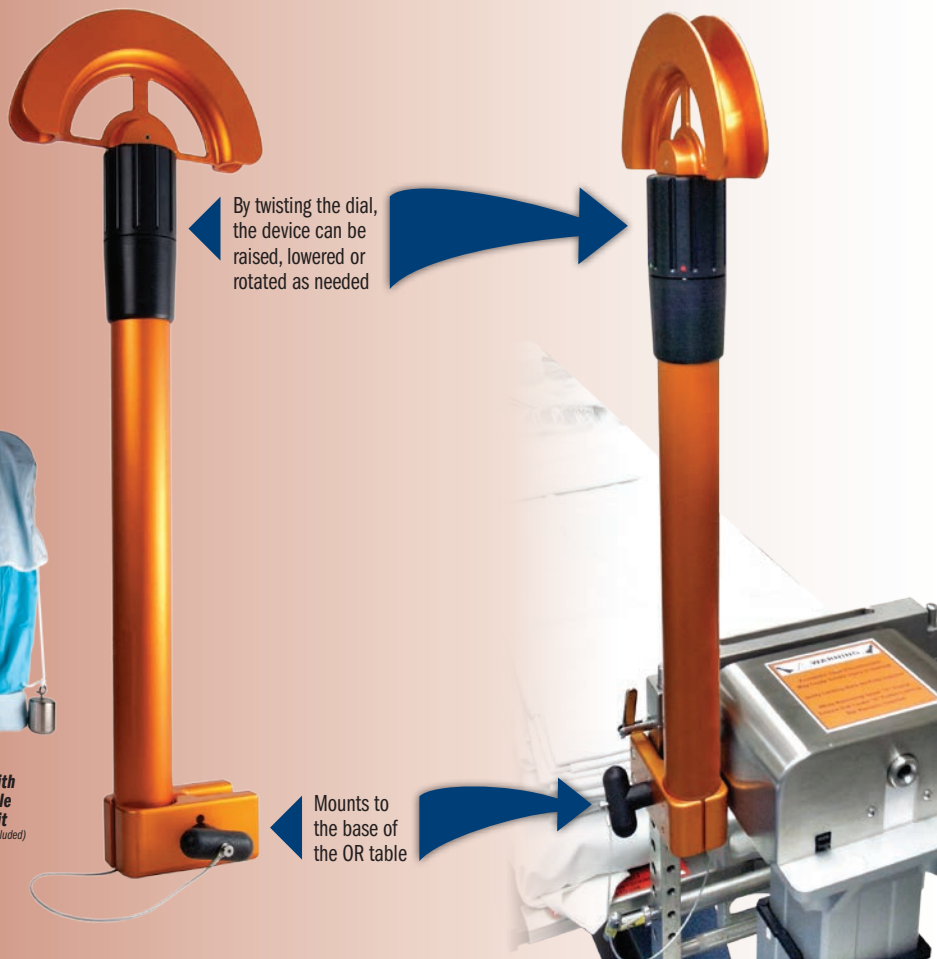
0008 [Disposable Sterile Kit]

Kit Includes: (1) Impervious Stockinette and (1) 11 ft. Traction rope

0008-CASE [Case of Disposable Sterile Kits] Pkg of 10



Shown with Disposable Sterile Kit (weight not included)

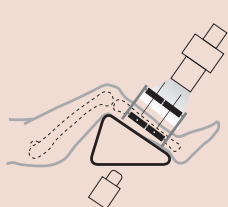


## Fromm Femur & Tibia Triangles

Used for femur and tibia positioning during nailing, repairs and fractures

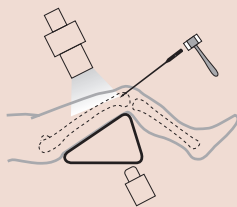
Designed by S.E. Fromm, MD\*  
Extra Small Triangle designed by S.E. Fromm, MD & Kenneth Merriman, MD

Designed to position and hold the femur and tibia during intramedullary nailing of the tibia, ligament repairs and extremity fractures. Allows knee to be flexed greater than 90° to allow reaming and nail insertion without displacing fracture. The triangles are available in four heights: 8.5", 11", 14", and 16". The three smaller triangles are designed to fit inside the larger triangle for storage. They are supplied with an autoclavable silicone cushioning pad and velcro\* straps. The triangles are also radiolucent and gas or steam sterilizable.



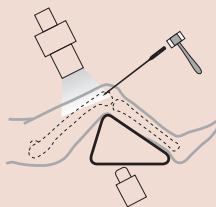
### Tibia Reduced For:

- Open Reduction and Internal Fixation (ORIF)
- Application of uni- or multi-plane external fixator
- Knee ligament repairs and/or reconstruction

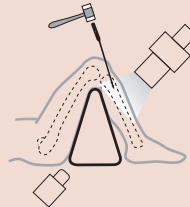


### Retrograde Femoral Nailing

Triangle holds femur reduced (prevents sagging)



### Retrograde Femoral Nailing



### Tibial Nailing

### PRODUCT NO'S:

2760-00 [Set of 3] Angles: Top 30°, Two Bottom 75°

2760-01 [11"] Base: 6" (15,2 cm), Height: 11" (27,9 cm)

2760-02 [14"] Base: 7" (17,8 cm), Height: 14" (35,6 cm)

2760-03 [16"] Base: 9" (22,9 cm), Height: 16" (40,7 cm)

### Sold Separately - Not In Set:

2760-XS [8.5"] Base 5" (12,7 cm), Height: 8.5" (21,6 cm)

### Replacement Parts:

2760-P [Silicone Pad]

2760-S [Straps] Package of 18

8120-SP [Straps for XS] Package of 10

\*Velcro® is a registered trademark of the Velcro Companies.



## Distal Humerus Fracture Board

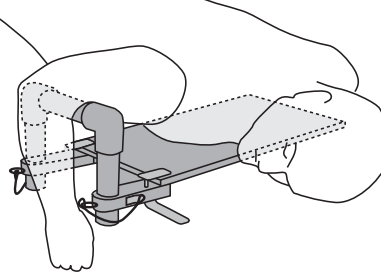
Designed by Burk Young, MD

*Designed for the pinning of pediatric supracondylar and adult distal humerus fractures*

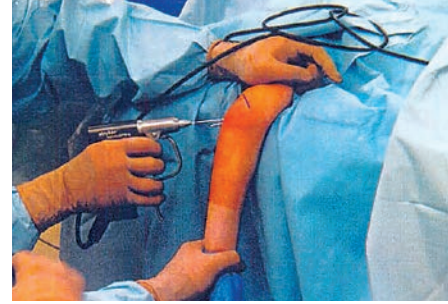
Allows the surgeon to pin these fractures without having to manually hold the fracture reduced, allowing the surgeon to focus on accurate pin placement and reduction. The height of the crossbar is fully adjustable to accommodate different size patients. Reduction is achieved by an assistant gently applying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

### PRODUCT NO'S:

2445 [Fracture Board – Pediatric] Main Board Dimensions: 22" x 12" (55,8 cm x 30,5 cm) Crossbar Height Adjusts From: 4.5" to 7.5" (11,4 cm x 19,1 cm)
2445-01 [Fracture Board – With Adult Adapter]
<b>Optional/Replacement Part:</b>
2445-06 [Adult Adapter]



Radiolucent



Optional Adult Adapter

## Budny Wire Drill Guide

Designed by Adam Budny, DPM

*Designed to be used for the insertion of smooth and olive wires during the application of ring-based external fixation systems*

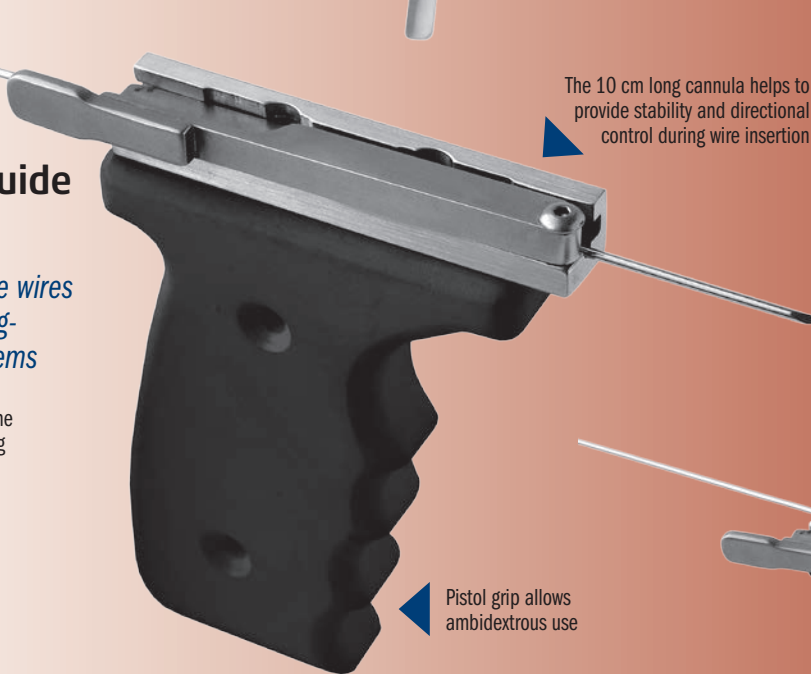
Internal stainless steel cannula (2 mm) can be completely exposed by opening the swinging latch-cover mechanism, allowing easy insertion/release of a wire.

### PRODUCT NO:

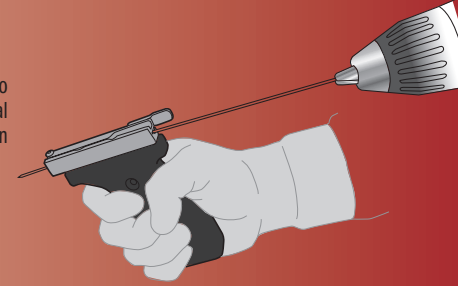
1188 Wire not included.
----------------------------



The entire unit is autoclavable.



The 10 cm long cannula helps to provide stability and directional control during wire insertion



Pistol grip allows ambidextrous use



## Clear Vision Debris Shield

Designed by R. Barry Sorrells, MD

*Provides a degree of restriction from flying debris or liquid during surgery*

Held between the surgical site and the operating personnel, the shield provides a clear undistorted view, while helping to protect the patient and personnel from possible contamination. The reamer-slotted version allows the shield to straddle a reamer shaft or drill bit, allowing the shield to be closer to the incision. The shield is autoclavable and gas sterilizable in a flat position.

### PRODUCT NO'S:

Shield Dimensions: 8" x 10.25" (20,3 cm x 26 cm) (not incl. handle)
8031-01 [Without Reamer Slot]
8033-01 [With Reamer Slot]





## Wubben Guide Rod Pusher

Designed by Robert Wubben, MD

*Used to help hold the guide rod in place during intramedullary nailing of a long bone*

The surgeon can initially use the concave end of the handle to hold the guide rod in place. As the reamer is retracted to the end of the guide rod, the shaft of the Pusher is used by inserting down the center hole of the drill, pushing on the guide and keeping it in the bone.

**PRODUCT NO:**

5985

Overall Length: 9" (22.9 cm)  
 Pusher End Diameter: 3.3 mm  
 Handle End Diameter: 10 mm



Handle Ends



Pusher End



*Cannulated!*

## Cannulated Fracture Awl

*Helps to reduce fractures without slipping off the bone, and cannulated to allow the placement of k-wire*



**PRODUCT NO:**

8091

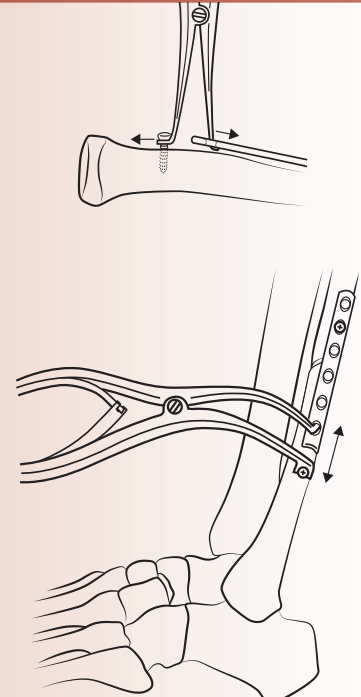
Overall Length: 9.75" (24.8 cm)  
 Handle Length: 4.75" (12.1 cm)  
 Cannula fits wire up to: .062" (1.6 mm)



## Wixted Fracture Distractor

Designed by John J. Wixted, MD

*Designed to provide opposing leverage to help bring the fibula (or other bone) back out to its proper length after it has been shortened by a fracture*



**New!**



**PRODUCT NO:**

1882

Overall Length: 7" (17.8 cm)

A 3.5 mm screw is temporarily placed above a plate, providing a source of leverage for the screw holding end of the distractor. The curved peg-shaped tip is then placed into a hole in the bone plate, and the distractor is activated to bring the bone back to its proper length before fixation.

**Cut-out for Screw**  
 Provides a secure source of leverage against a temporarily placed 3.5 mm screw

**Curved Peg-shaped Tip**  
 Fits securely into a hole in a bone plate for leverage

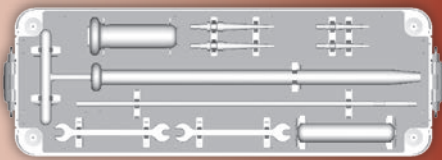
# Intramedullary Nail Extractor

Designed by Gary L. Kerns, RT(R)

*Helps remove broken intramedullary nails from long bone*

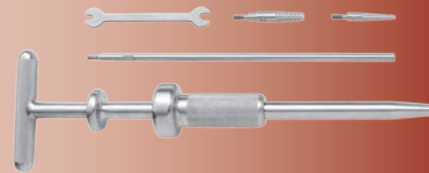
Designed to remove broken intramedullary nails from long bone. It will also remove IM nails with stripped threads, or threads that are difficult to access. It will remove both fluted or non-fluted nails as long as they are cannulated. Removal bits should be discarded after each use.

Complete Set in Case: 22" x 8" x 3.5"



Set Includes:

- (1) T-handle, Shaft and Stop Unit
- (1) Sliding Hammer
- (2) 1/2" Bits
- (2) 3/8" Bits
- (1) Extension Rod
- (2) Wrenches
- (1) Extension Rod Handle
- (1) Case



PRODUCT NO'S:	
8730	[Complete Set]
Replacement Parts:	
8730-01	3/8" Diameter Removal Bit
8730-02	1/2" Diameter Removal Bit

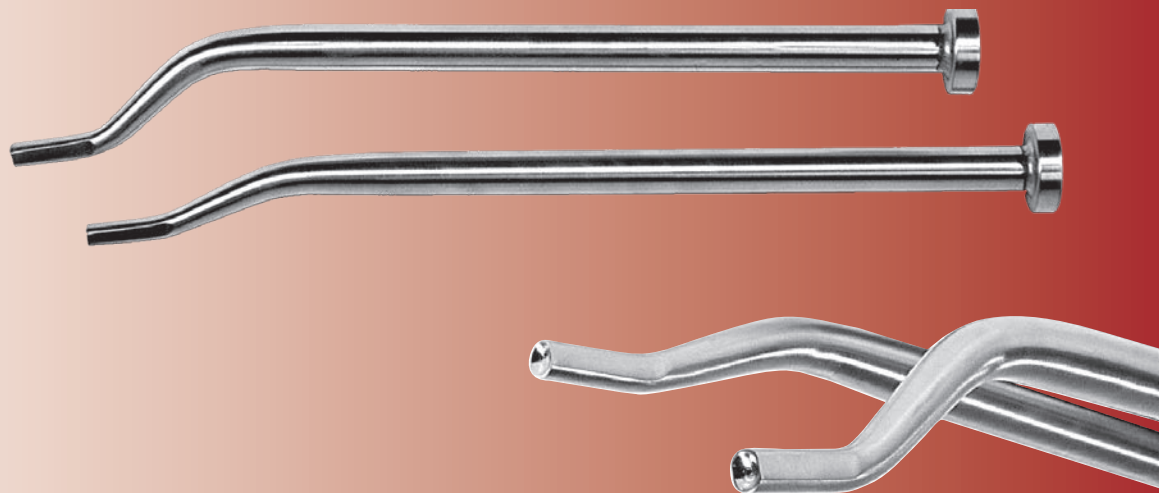


# Offset Punches

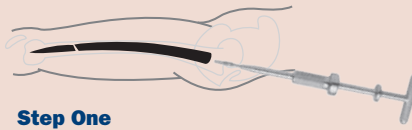
*Helps in the removal of hip stems*

Used to help remove a hip prosthesis stem via a window in the shaft of the femur. Two sizes of offsets allow the punches to be used to tap on a distal portion of the hip stem, after a window has been made in the femur below the tip of the stem.

PRODUCT NO'S:	
5125-02	[Large Offset]
Overall Length: 11" (27,9 cm)	
Punch End Offset: 32 mm	
Punch End Diameter: 7 mm	
5125-01	[Small Offset]
Overall Length: 11" (27,9 cm)	
Punch End Offset: 13 mm	
Punch End Diameter: 7 mm	

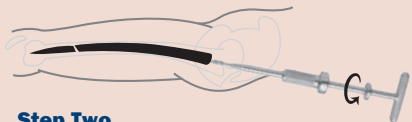


## Procedure: Removing A Broken Intramedullary Nail



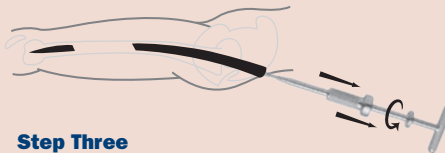
### Step One

Expose the greater trochanter and insert the larger extraction bit under fluoroscopy. Turn the T-handle counter-clockwise until the extraction bit is firmly seated within the IM Nail. If the proximal screw or screws do not allow good purchase on the IM Nail, remove them before tightening.



### Step Two

Once the bit is firmly in place, remove the proximal screws if this has not already been done.



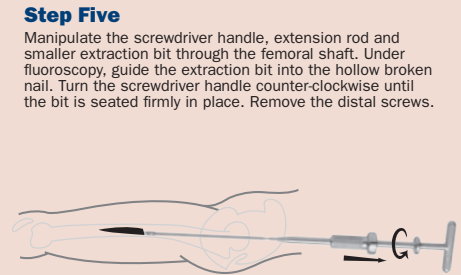
### Step Three

While holding the T-handle with one hand, take the sliding slap hammer with the other hand and strike the welded stopper plate several times for complete removal. It is important to maintain continuous counter-clockwise torque on the T-handle until the nail is removed.



### Step Four

After removal of the broken portion of the nail, it may be helpful to ream the femoral shaft. This will ensure the fragments and debris will not inhibit the removal of the distal broken portion of nail.



### Step Five

Manipulate the screwdriver handle, extension rod and smaller extraction bit through the femoral shaft. Under fluoroscopy, guide the extraction bit into the hollow broken nail. Turn the screwdriver handle counter-clockwise until the bit is seated firmly in place. Remove the distal screws.

While maintaining continuous counter-clockwise torque on the screwdriver, pull back to remove the distal portion of the nail. If the nail does not come out easily, remove the screwdriver handle from the extension rod and attach the T-handled slap hammer. Repeat step three.



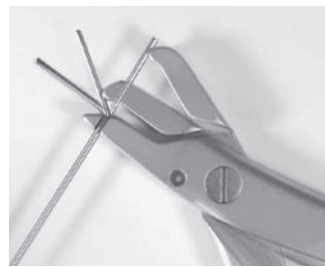
## K-Wire Bender/Cutter

*Designed to bend a K-Wire while extending from bone without applying mechanical strain*

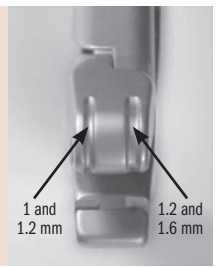
*Can bend and cut K-Wires measuring 1 to 1.6 mm (.039-.062") in diameter*

The K-Wire only needs to extend 20 mm from the skin surface to be bent.

**Bending**  
With the jaw of the instrument opened wide, the K-Wire is inserted from the side into one of the slots of the lower jaw. During bending, the K-Wire is forced backwards by the nose of the upper jaw and guided by a small groove.



The right slot of the instrument's lower jaw can hold K-Wires with a diameter of 1.2 mm or 1.6 mm. The smaller left slot can hold K-Wires measuring 1 mm or 1.2 mm in diameter.



**Cutting**  
The K-Wire is inserted into the cutting groove and the bender/cutter cuts by shearing (like a cigar cutter), not crushing. The result is a clean and burr-free cut surface.



**Bender/Cutter Cut**



**Standard Cut**



**PRODUCT NO:**

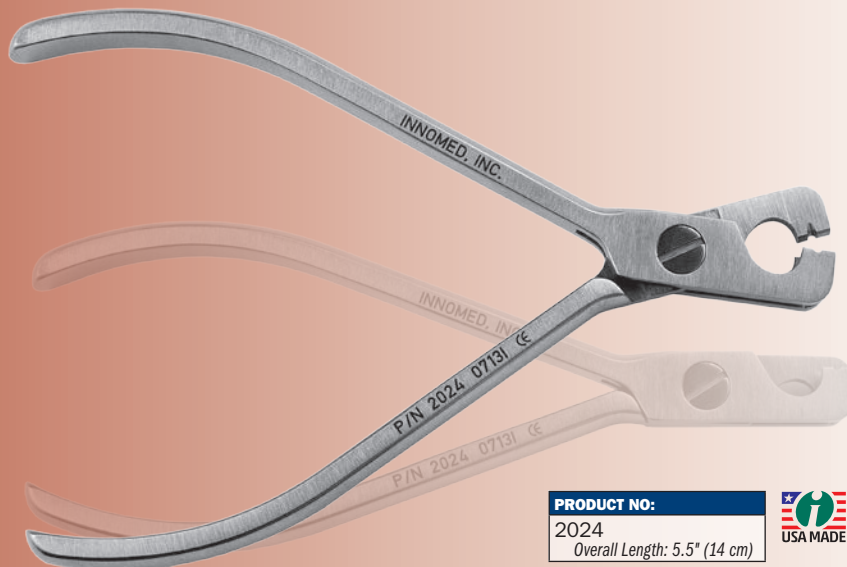
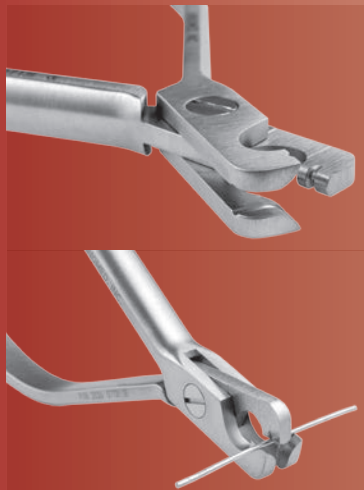
2111

Overall Length: 6.5" (16, 5 cm)

MADE EXCLUSIVELY  
FOR INNOMED IN  
GERMANY

## Wire Bender

*Designed to bend wire up to .062"/1.6 mm*



**PRODUCT NO:**

2024

Overall Length: 5.5" (14 cm)



## Argintar Claw Drill Guide Wire/Suture Passer

Designed by Evan Argintar MD

*Expandable claw design allows for minimally invasive, reproducible one-step wire/suture passage*

Especially helpful during applications where a suture will be passed—particularly when soft tissue dissection is to be minimized, such as wrist reconstruction (DRUJ), elbow reconstruction (ULCL/MCL), foot-ankle reconstruction (ATFL), quad/patella tendon repair surgery, and multi-ligament knee reconstruction (MCL/LCL).

**PRODUCT NO:**

8315-00 [Set: (1) Claw, (1) Wire/Suture Pin]

8315-01 [Claw Unit]

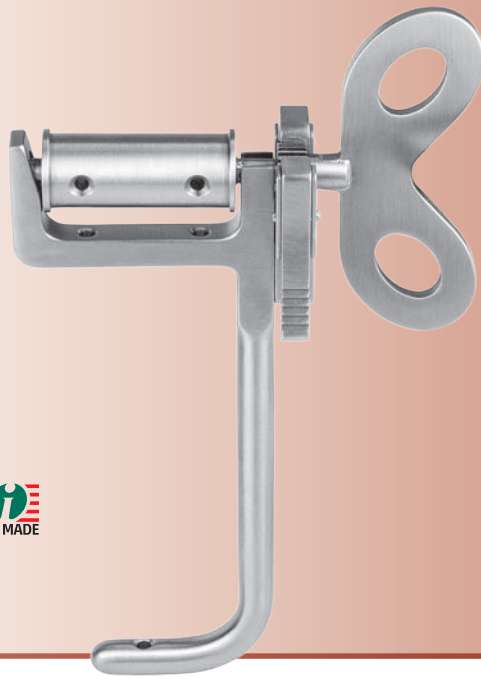
Overall Dimensions: 2.5" x 4"-6" (6,4 cm x 10,2 cm-15,2 cm)

1227 [3/32" (2 mm) Pin with Wire/Suture Hole]

Overall Length: 6" (15,2 cm)



**New!**



## Browner Wire Tightener

Designed by Bruce D. Browner, MD

Wire is passed through the distal arm hole and into the separate drum holes, and can then be tightened and rotated before being cut with a wire cutter



**PRODUCT NO:**  
8251  
Overall Length: 6" (15,2 cm)  
Width: 3.75" (9,5 cm)  
Wire Hole Diameters: .125" (3,2 mm)

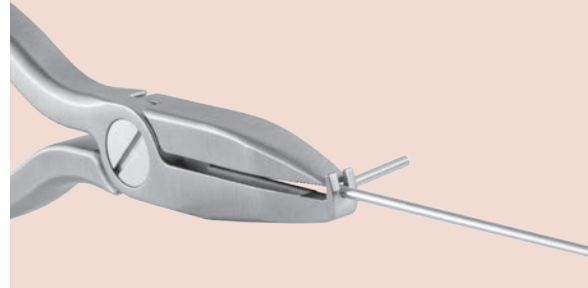
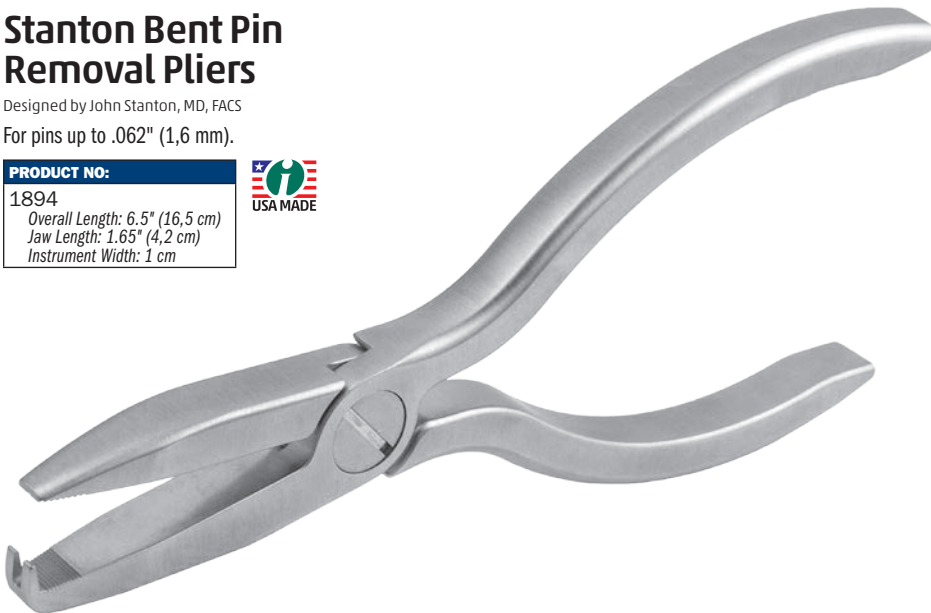


## Stanton Bent Pin Removal Pliers

Designed by John Stanton, MD, FACS

For pins up to .062" (1,6 mm).

**PRODUCT NO:**  
1894  
Overall Length: 6.5" (16,5 cm)  
Jaw Length: 1.65" (4,2 cm)  
Instrument Width: 1 cm



## Stanton Straight Pin Removal Pliers

Designed by John Stanton, MD

**PRODUCT NO:**  
1893  
Overall Length: 6.375" (16,2 cm)  
Jaw Length: 1.62 (4,1 cm)  
Instrument Width: 1 cm





Now with four wire holes – two for up to 20 gauge wires, and two for up to 18 gauge wires. T-Handle end is used to hand tighten a wire.

## DMP Wire Tightener

Designed by DMP

*Used to hand tighten a cerclage wire around a bone*

### PRODUCT NO:

8729

Overall Length: 4.5" (11,4 cm)  
Handle Width: 2.625" (6,7 cm)  
End Diameter: 15 mm



## Incavo Wire Passer

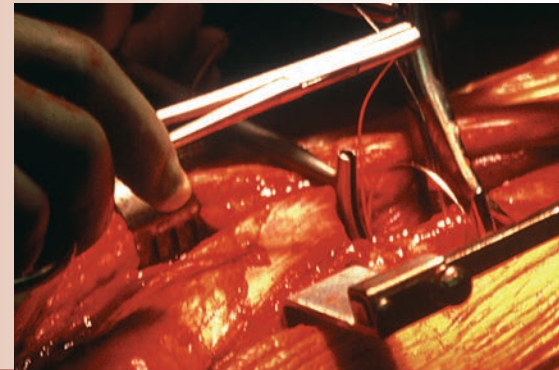
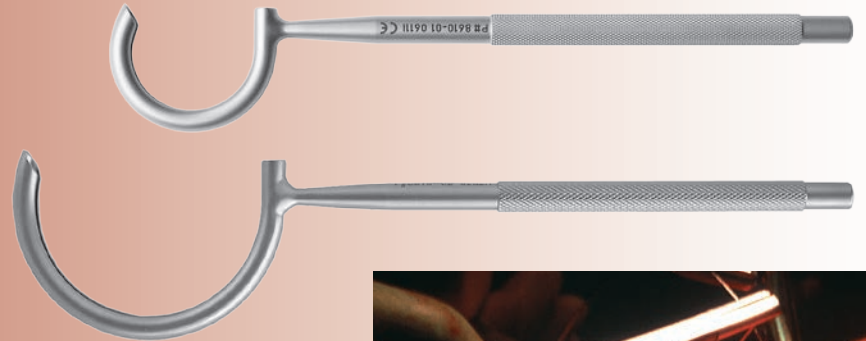
Designed by Stephen J. Incavo, MD

*Designed to pass multiple cerclage wires around a bone during a multiple wire wrap procedure*

### PRODUCT NO'S:

8610-01 [Small]  
Overall Length: 7.5" (19,1 cm)  
Accepts Wire Up To: 4 mm (5/32")

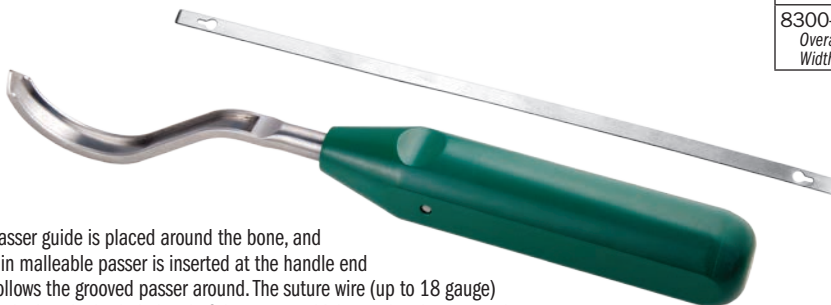
8610-02 [Large]  
Overall Length: 8.675" (21,3 cm)  
Accepts Wire Up To: 4 mm (5/32")



## Whelan Double-Ended Suture Wire Passer

Designed by E. J. Whelan, III, MD

*Passer guide and malleable passer designed to pass suture wires around a bone*



The passer guide is placed around the bone, and the thin malleable passer is inserted at the handle end and follows the grooved passer around. The suture wire (up to 18 gauge) is attached to the keyholed end of the passer, which can then be reversed out of the passer, drawing the suture wire around the bone.

### PRODUCT NO'S:

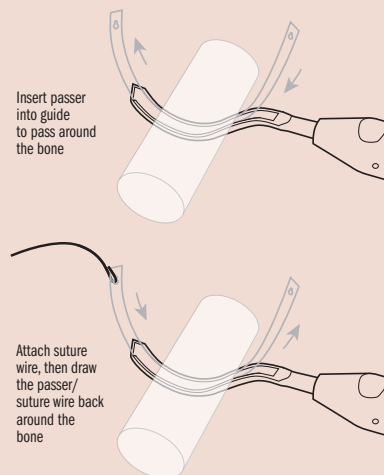
8300-00 [Set]

**Also available individually:**

8300-01 [Passer Guide]  
Overall Length: 8.125" (20,6 cm)  
Outside Width: 9 mm  
Inside Groove Width: 6,5 mm

8300-02 [Passer]  
Overall Length: 7.5" (19,1 cm)  
Width: 4,6 mm

Set includes Passer Guide and two Passers.



## Kaminsky OrthoLucent™ Browne-type Deltoid Retractors

Designed by Sean B. Kaminsky, MD

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

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

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

### PRODUCT NO'S:

1670-01R [Small]

Blade Width: 4,5 cm

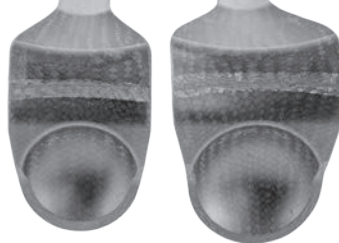
Overall Length: 10.5" (26,7 cm)

1670-02R [Large]

Blade Width: 5,4 cm

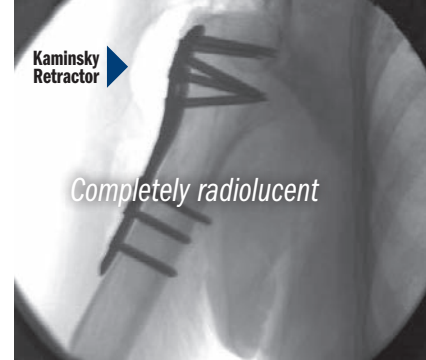
Overall Length: 10.5" (26,7 cm)

MADE EXCLUSIVELY  
FOR INNOMED IN  
SWITZERLAND



Kaminsky  
Retractor

Completely radiolucent



## Levy Wide Deltoid Retractor

Designed by Jonathan Levy, MD

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

### PRODUCT NO:

1672

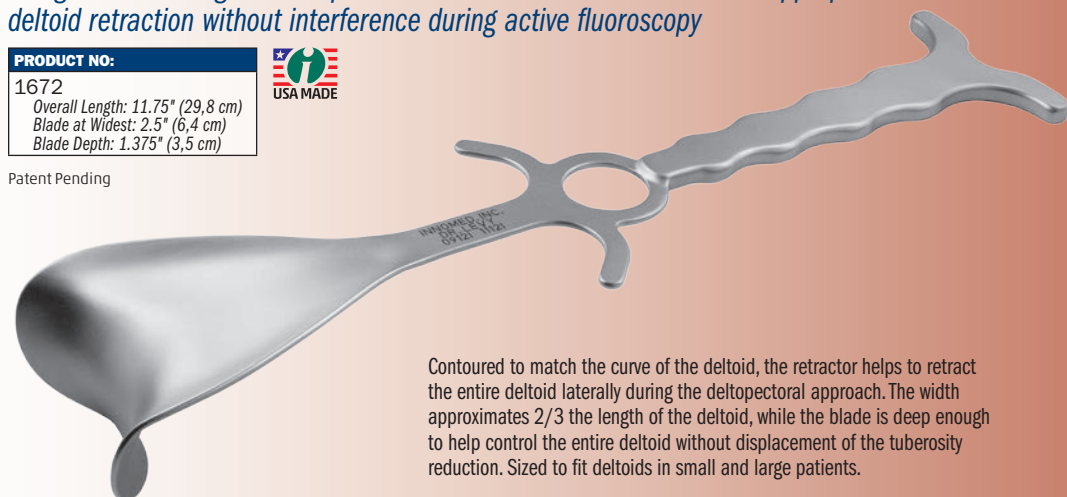
Overall Length: 11.75" (29,8 cm)

Blade at Widest: 2.5" (6,4 cm)

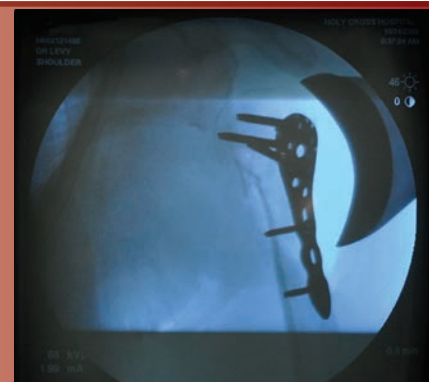
Blade Depth: 1.375" (3,5 cm)



Patent Pending



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



Designed to be used in hip fractures with the advantage that the retractor can be kept in place while using image intensification or taking an x-ray.

The handle can be rotated to the right or left for surgeon preference. May be steam or gas sterilized.



Handle can  
be rotated to  
right or left

## Dozier Radiolucent Bennett Hip Fracture Retractor

Designed by John K. Dozier, MD

*Can be kept in place while  
using image intensification  
or taking an x-ray*

### PRODUCT NO:

6870

Handle Length: 6.75" (17,1 cm)

Blade Length: 8.5" (21,6 cm)

Blade Width at Widest: 67 mm



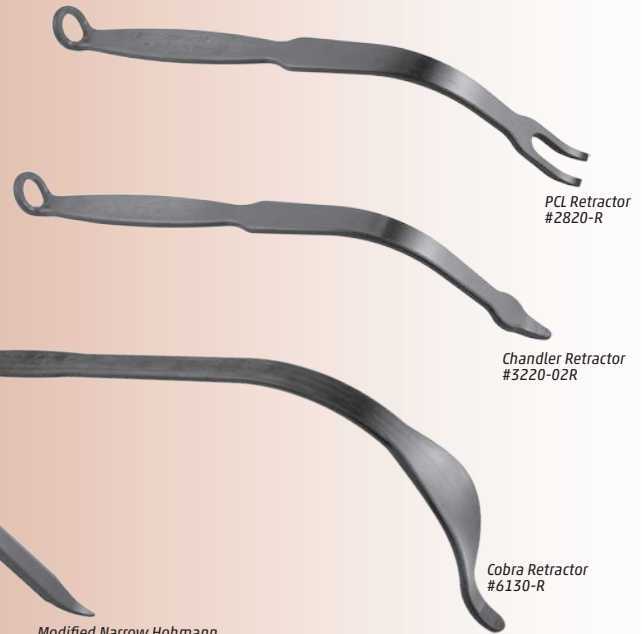
## Gain Radiolucence Without Compromising Strength or Function

- ▶ Ideal for total joint use with x-ray
- ▶ Steam sterilizable
- ▶ Completely radiolucent
- ▶ Flat black non-gloss finish\*
- ▶ No metal transfer with component contact
- ▶ Slightly higher cost than stainless steel

## OrthoLucent™ Retractors

PRODUCT NO'S:
2820-R [PCL] Overall Length: 9.875" (25,1 cm) Prong Width: 5 mm   10 mm Gap   5 mm
3220-02R [Chandler] Overall Length: 9.875" (25,1 cm) Blade Width: 19 mm
6130-R [Cobra] Overall Length: 12" (30,5 cm) Blade Width at Widest: 33 mm

MADE EXCLUSIVELY  
FOR INNOVEM IN  
SWITZERLAND



PCL Retractor  
#2820-R

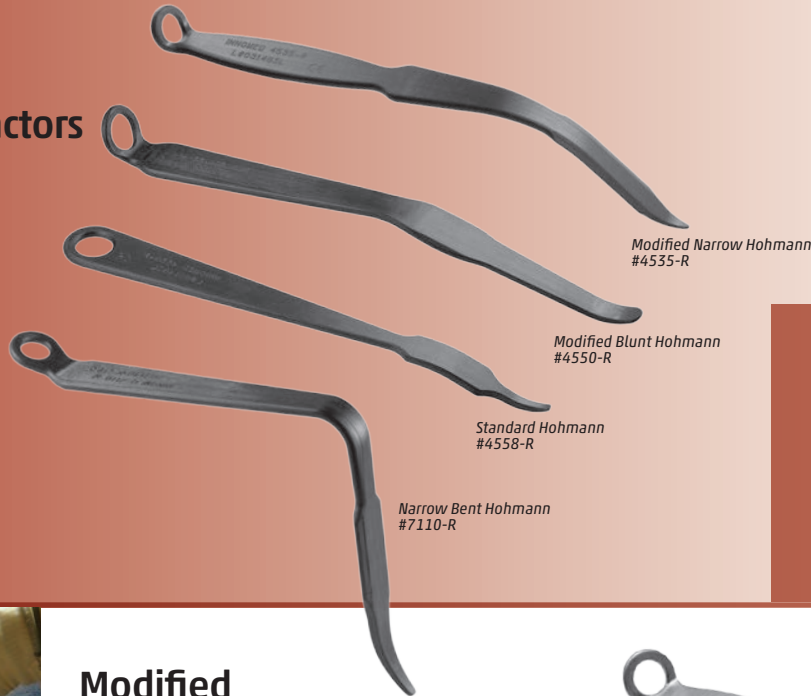
Chandler Retractor  
#3220-02R

Cobra Retractor  
#6130-R

## OrthoLucent™ Hohmann Retractors

PRODUCT NO'S:
4535-R [Modified Narrow] Blade Width: 18 mm Overall Length: 10"
4550-R [Modified Blunt] Blade Width at Widest: 24.5 mm Overall Length: 10.75"
4558-R [Standard] Blade Width: 16 mm Overall Length: 9.625" (24,4 cm)
7110-R [Narrow Bent] 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)

MADE EXCLUSIVELY  
FOR INNOVEM IN  
SWITZERLAND



Modified Narrow Hohmann  
#4535-R

Modified Blunt Hohmann  
#4550-R

Standard Hohmann  
#4558-R

Narrow Bent Hohmann  
#7110-R

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



## Modified Hohmann Retractors

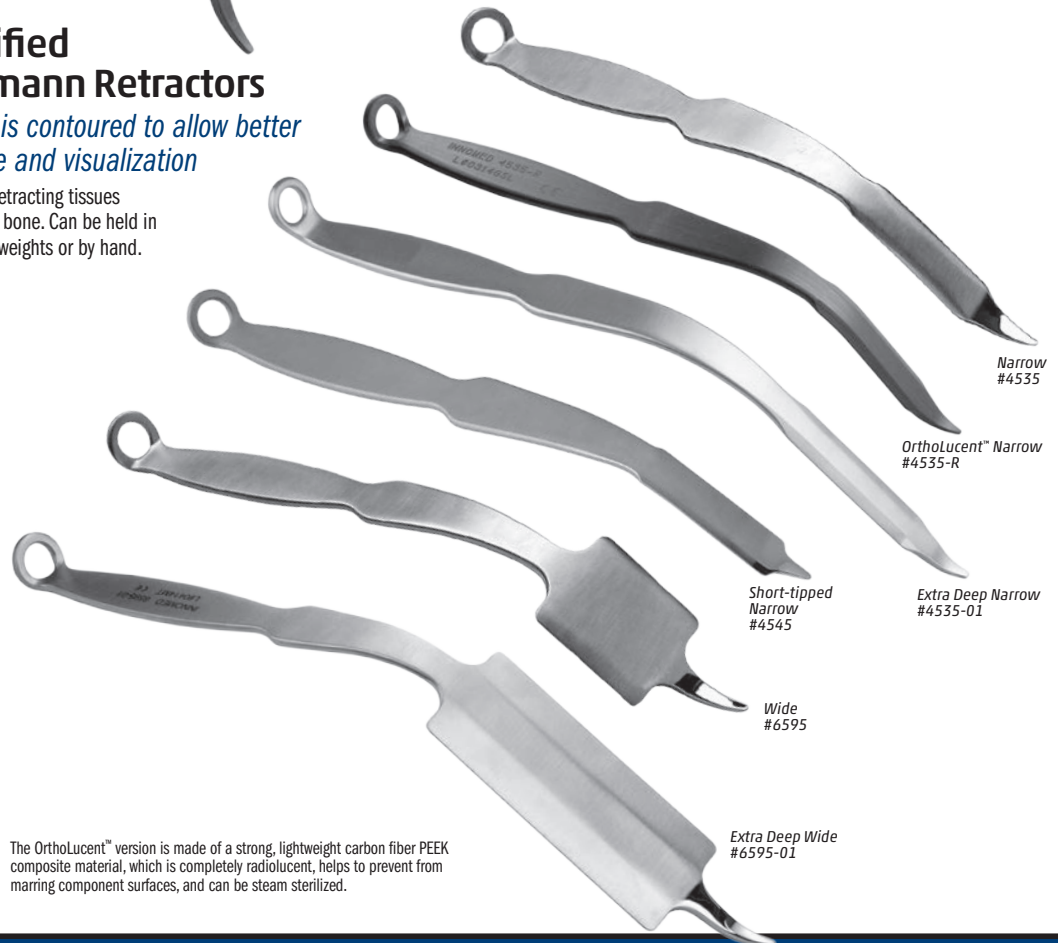
*Handle is contoured to allow better  
leverage and visualization*

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 INNOVEM IN  
SWITZERLAND



Narrow  
#4535

OrthoLucent™ Narrow  
#4535-R

Short-tipped  
Narrow  
#4545

Extra Deep Narrow  
#4535-01

Wide  
#6595

Extra Deep Wide  
#6595-01

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.

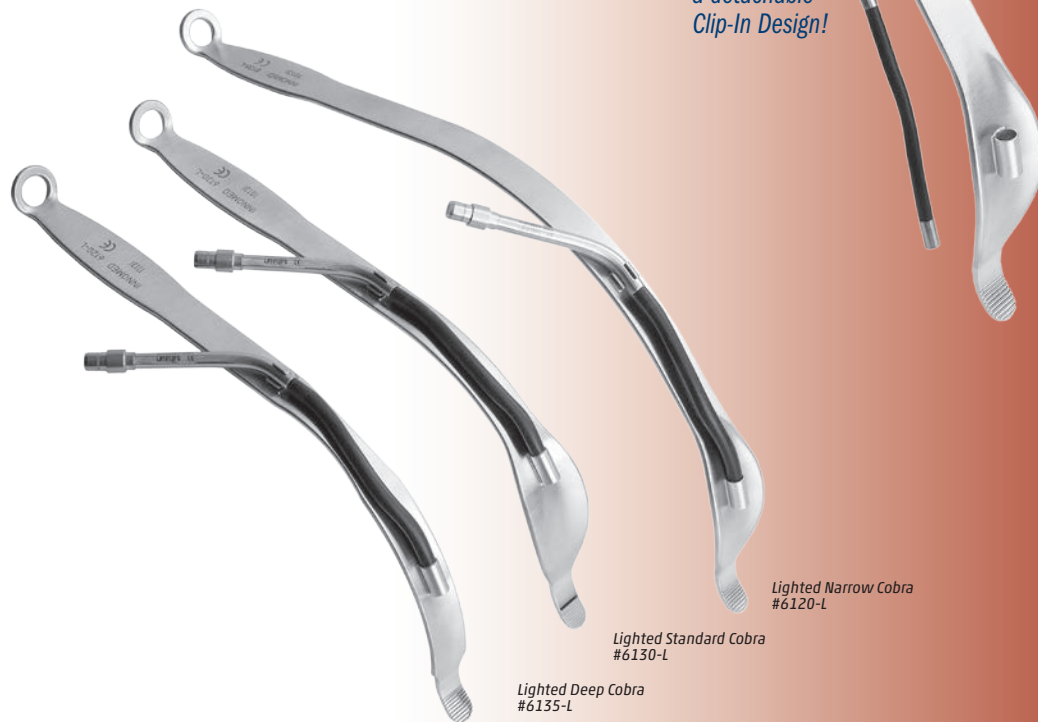
# Lighted Hip Retractors

*Lighting attachment for enhanced visual exposure*

Attaches to a fiber optic light cable with ACMI (female) connector. Can be steam sterilized.



Featuring a detachable Clip-In Design!



## Lighted Cobra Retractors

PRODUCT NO'S:
6120-L [Lighted Narrow Cobra] Overall Length: 11.75" (29,8 cm) Handle Length: 6.5" (16,5 cm) Blade Width: 19 mm
6130-L [Lighted Standard Cobra] Overall Length: 12" (30,5 cm) Handle Length: 7" (17,8 cm) Blade Width at Widest: 33 mm
6135-L [Lighted Deep Cobra] Overall Length: 14.5" (36,9 cm) Handle Length: 7" (17,8 cm) Blade Width at Widest: 33 mm

Lighted Narrow Cobra #6120-L

Lighted Standard Cobra #6130-L

Lighted Deep Cobra #6135-L

## Lighted Inferior Acetabular Retractor - Narrow

PRODUCT NO:
6255-L [Lighted Narrow] Overall Length: 12" (30,5 cm) Handle Length: 8" (20,3 cm) Blade Height Above Prongs: 3.25" (83 mm) Blade Width: 32 mm Prong Width: 5.1 mm   9.7 mm   5.1 mm



Lighted Inferior Acetabular #6255-L

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

PRODUCT NO:
6210-02L [Lighted] Overall Length: 12.5" (31,8 cm) Blade and Tip Length: 3" (76 mm) Blade Width: 15 mm



Lighted Single Prong Double Bent Hohmann #6210-02L

## OrthoLucent™ Richardson-type Soft Tissue Retractor

Designed by Sean B. Kaminsky, MD

*Designed to help retract soft tissues for enhanced exposure*

PRODUCT NO'S:	
3231-23R [23 mm] Overall Length: 13" (33 cm) Large Blade: 23 mm x 36 mm	3231-37R [37 mm] Overall Length: 13" (33 cm) Large Blade: 37 mm x 52 mm
3231-30R [30 mm] Overall Length: 13" (33 cm) Large Blade: 30 mm x 42 mm	3231-44R [44 mm] Overall Length: 13" (33 cm) Large Blade: 44 mm x 78 mm

Lightweight carbon fiber material is strong, completely radiolucent, can be steam sterilized, and helps to prevent from marring component surfaces.



Four sizes available



## 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)



## Self-Retaining Tension Retractor

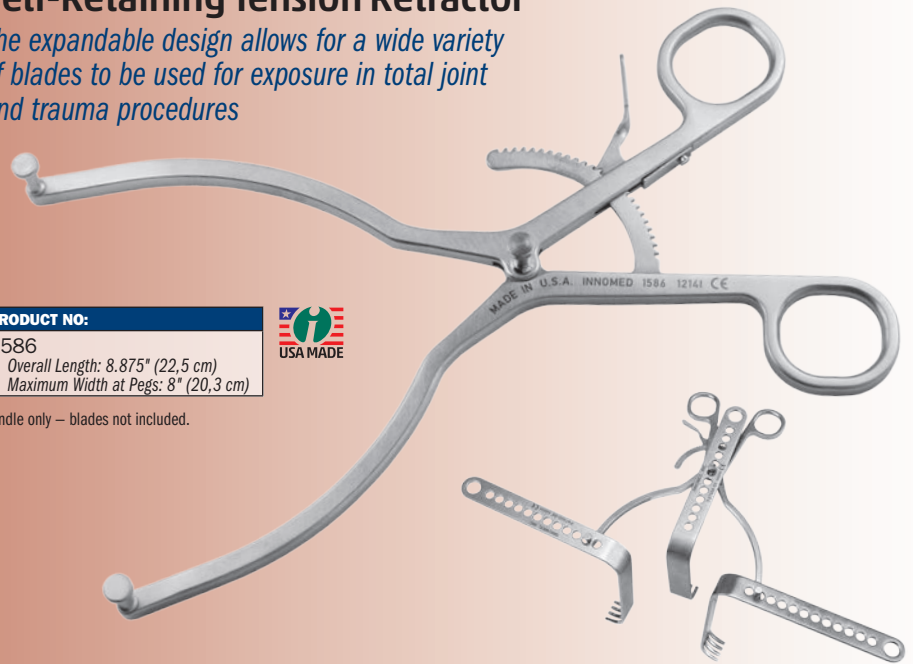
The expandable design allows for a wide variety of blades to be used for exposure in total joint and trauma procedures

### PRODUCT NO:

1586  
Overall Length: 8.875" (22,5 cm)  
Maximum Width at Pegs: 8" (20,3 cm)



Handle only – blades not included.



Three depths available

## OrthoLucent™ Standard Blades

Designed for use with Self-Retaining Hip Retractor Systems

Lightweight carbon fiber material is strong, completely radiolucent, can be steam sterilized, and helps to prevent from marring component surfaces.

### PRODUCT NO'S:

Handle Length: 6" (15,2 cm)
7450-02R 2" (5,1 cm) blade depth
7450-03R 3" (7,6 cm) blade depth
7450-04R 4" (10,2 cm) blade depth

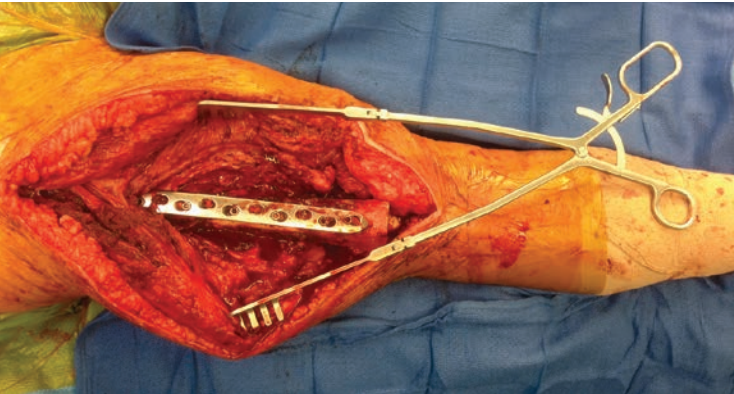


# Large Exposure Self-Retaining Retractor

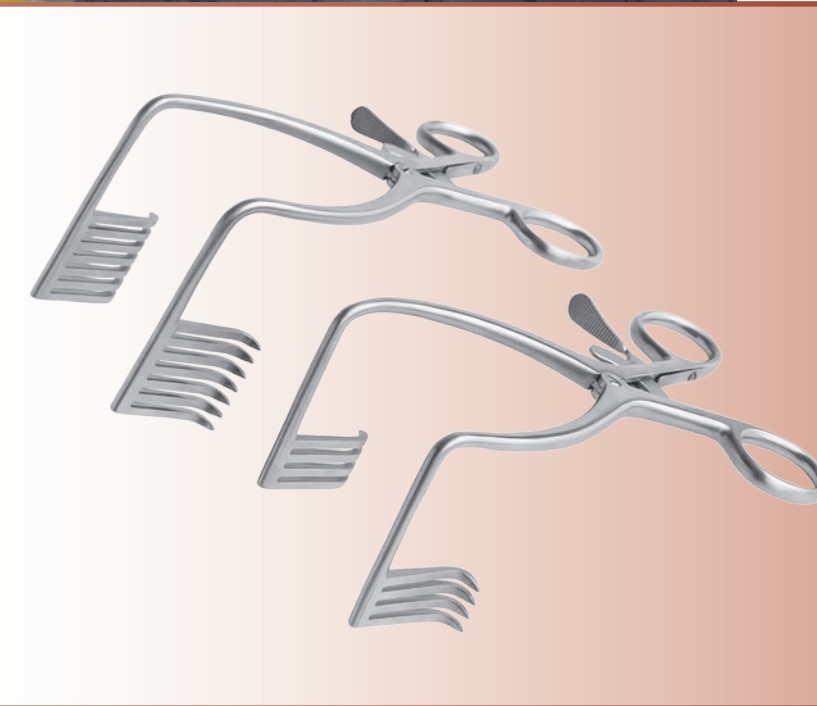
Designed by Vincent Ng, MD

*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)



**New!**



# Trauma/Spine Deep Tissue Retractor

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

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

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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)

# Durham Offset Zelpi Retractor

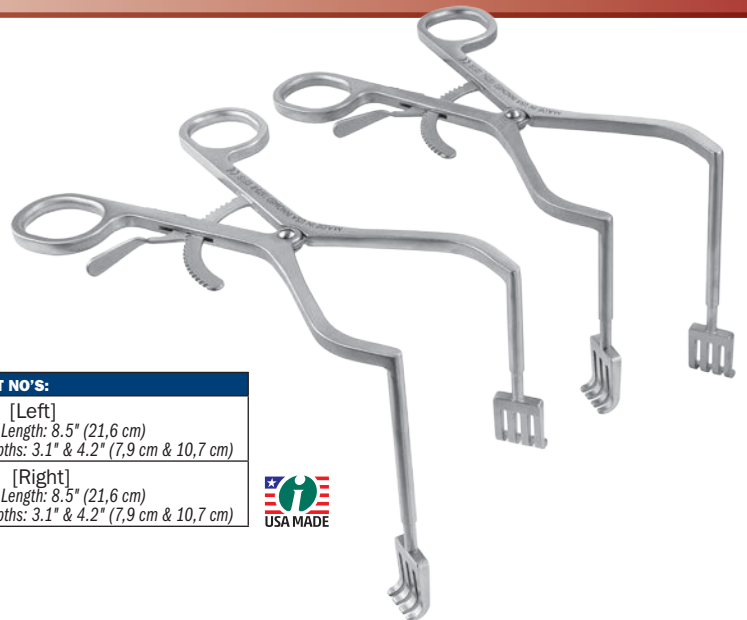
Designed by Alfred Durham, MD

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

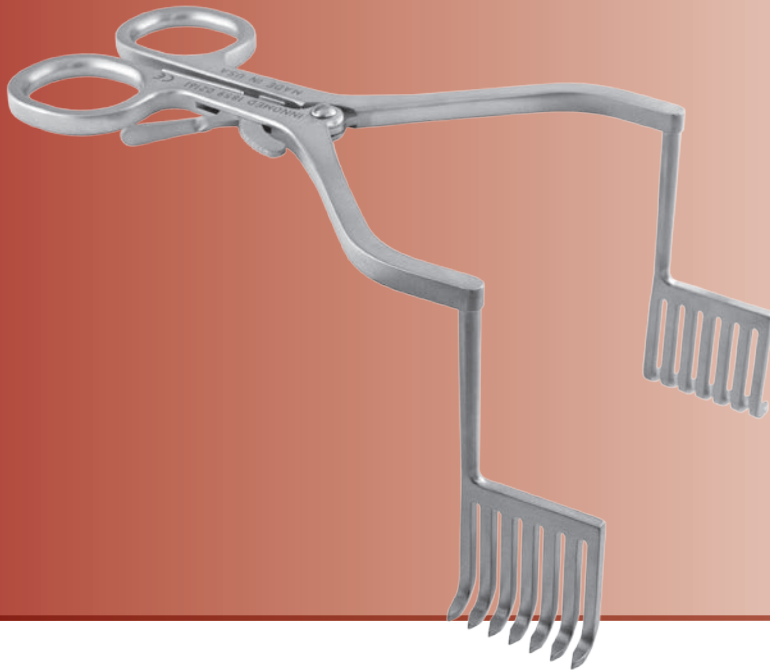
- ▶ In hip surgery, with the handle towards the surgeon, the longer leg is on the inside.
- ▶ In shoulder surgery, with the handle downward, the longer leg is on the outside.
- ▶ The longer leg extends 1.1" (2,8 cm) deeper.



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)







## 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)



## Desai Clearview Open Blade Self-Retaining Retractor

Designed by Sarang Desai, DO

*Open blade design allows clear visualization of soft tissue and neurovascular structures being retracted*

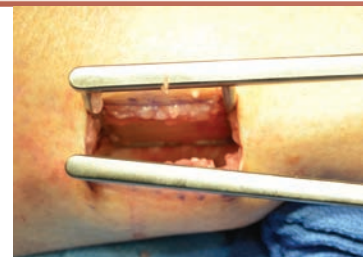
Tapered blades allows 90° deep soft tissue retraction and easy insertion into the wound. Open blades also allow the surgeon to work in the open blade area, such as for gastroc recession surgery.

**PRODUCT NO:**

1858  
 Overall Length: 7.25" (18,4 cm)  
 Blade Depth: 3" (7,6 cm)  
 Blade Width: 1.25" (3,2 cm)



*New!*



## Gelpi Retractors

**PRODUCT NO'S:**

4180 [Standard]
Overall Length: 7.5" (19,1 cm)
4181 [With Ergonomic Handle]
Overall Length: 7.5" (19,1 cm)
4182 [With Finger Hook]
Overall Length: 7.5" (19,1 cm)



*New!*

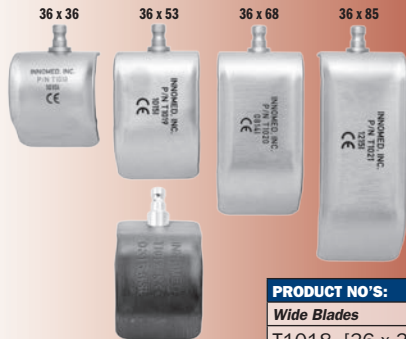
# Kolbel Self-Retaining Glenoid Retractors



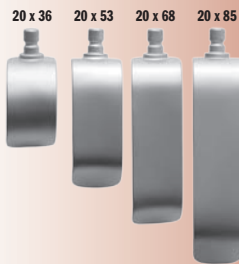
**Radiolucent  
Blades  
Now Available!**

The OrthoLucent™ carbon fiber PEEK blade is strong, lightweight, completely radiolucent, helps to prevent from marring component surfaces, and can be steam sterilized.

## Kolbel Self-Retaining Retractor Blades



PRODUCT NO'S:	
<b>Wide Blades</b>	
T1018	[36 x 36 mm]
T1019	[36 x 53 mm]
T1020	[36 x 68 mm]
T1021	[36 x 85 mm]
<b>Radiolucent Blade</b>	
T1019-R*	[36 x 53 mm]



PRODUCT NO'S:	
<b>Narrow Blades</b>	
T1022	[20 x 36 mm]
T1023	[20 x 53 mm]
T1024	[20 x 68 mm]
T1025	[20 x 85 mm]

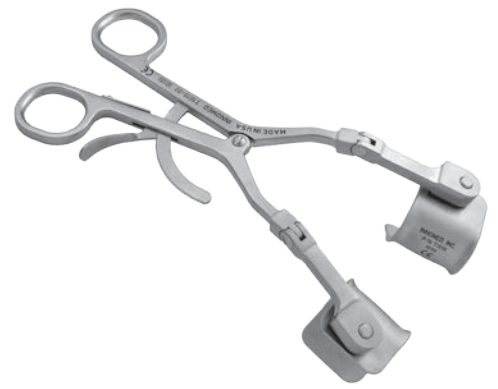


\* MADE EXCLUSIVELY FOR INNOMED IN SWITZERLAND

## Modified Kolbel Self-Retaining Glenoid Retractor with Hinge

Two pairs of snap-in, freely pivoting blades included.

PRODUCT NO'S:	
T1014-01	[Set]
Set Includes:	
T1015-01	[Retractor] Overall Length: 8.25" (21 cm) Length-to-hinge: 6" (15,2 cm) Arm Length: 2.25 (5,7 cm)
T1018-P	[Blades-Pair] 36 mm X 36 mm
T1019-P	[Blades-Pair] 36 mm X 53 mm



## Kolbel Self-Retaining Glenoid Retractor

Two pairs of snap-in, freely pivoting blades included.

PRODUCT NO'S:	
T1014	[Set]
Set Includes:	
T1015	[Retractor] Overall Length: 8.25" (21 cm)
T1018-P	[Blades-Pair] 36 mm X 36 mm
T1019-P	[Blades-Pair] 36 mm X 53 mm

## Kolbel Self-Retaining Glenoid Retractor with Center Blade

Center blade can be reversed for shallow or deep retraction

Two pairs of snap-in, freely pivoting blades included.

PRODUCT NO'S:	
T1050	[Set]
Set Includes:	
T1050-01	[Retractor] Overall Length: 8" (20,3 cm)
T1050-02	[Center Blade] Length-to-bend: 6.25" (15,9 cm) Depth: 2.5" (6,4 cm)
T1018-P	[Blades-Pair] 36 mm X 36 mm
T1019-P	[Blades-Pair] 36 mm X 53 mm



## Kolbel Self-Retaining Retractor

Two pairs of snap-in, freely pivoting blades included.

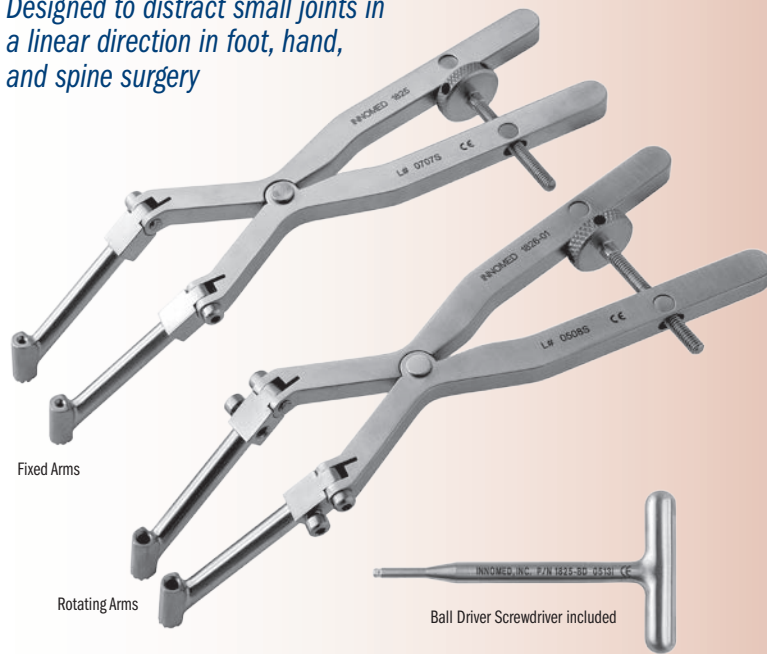
PRODUCT NO'S:	
T1016	[Set]
Set Includes:	
T1017	[Retractor] Overall Length: 8.25" (21 cm) Arm Length: 6.125" (15,6 cm) Arm Length-to-hinge: 3" (7,6 cm)
T1018-P	[Blades-Pair] 36 mm X 36 mm
T1019-P	[Blades-Pair] 36 mm X 53 mm



# Small Bone Compressor/Distractor

Designed by Richard Wittcock, DPM and Robert Baglio, DPM

Designed to distract small joints in a linear direction in foot, hand, and spine surgery



Multiple hinge design allows for better joint visualization and access

Distal hinge can be loosened once the distraction nut is tightened, allowing the surgeon to move the handle out of the surgical field.

MADE EXCLUSIVELY FOR INNOVED IN GERMANY

USA MADE

PRODUCT NO'S:	
<b>Fixed Arms</b>	
Overall Length (Flat): 7.5" (19,1 cm)	
Arm Length: 2.25" (5,7 cm)	
1825	Up to .062" (1.6 mm) Pin Diameter
1826	Up to .125" (3.2 mm) Pin Diameter
<b>Rotating Arms</b>	
Overall Length (Flat): 7.5" (19,1 cm)	
Arm Length: 2.25" (5,7 cm)	
1825-01	Up to .062" (1.6 mm) Pin Diameter
1826-01	Up to .125" (3.2 mm) Pin Diameter
<b>Included with All Models:</b>	
1025* [Sterilization Case]	
1825-BD* [Ball Driver Screwdriver]	



PRODUCT NO'S:	
<b>Sold In Pairs</b>	
4694-01 [Long]	
Overall Length: 67 mm	
End-to-shoulder: 22 mm	
Pad: 13 mm x 15 mm	
4694-02 [Medium]	
Overall Length: 67 mm	
End-to-shoulder: 31 mm	
Pad: 13 mm x 15 mm	
4694-03 [Short]	
Overall Length: 67 mm	
End-to-shoulder: 40 mm	
Pad: 13 mm x 15 mm	

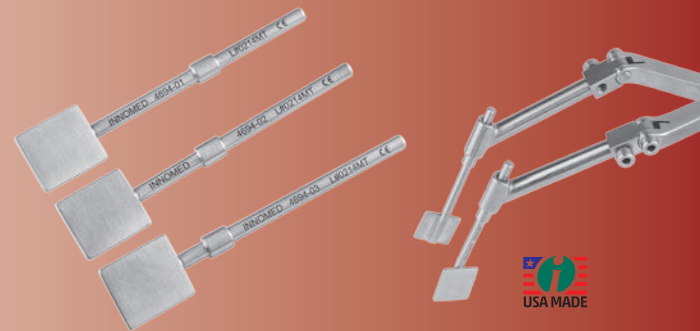
# Shouldered Pin Retractors

Designed by M. Jake Hamer, MD

Useful in fracture and reconstructive cases

Can be used for opening wedge osteotomies, obtaining length or distraction to correct a foreshortened malunion, or in trauma cases (calcaneus fractures, tibial plateau fractures, pilon fractures). With three different length shouldered pins, the retractor can be set at different depths to provide the necessary retraction and/or distraction.

Can be used with the 1826 and 1826-01 Compressor/ Distractors, and any other compressor and/or distractor that can accept 1/8" (3.2 mm) pins.



# Shouldered Bone Pins

For use with the Small Bone Compressor/Distractors, pins feature a trocar point



PRODUCT NO'S:	
<b>Packages of 10:</b>	
1270 [1/8" Smooth]	1297 [1/8" Threaded]
Diameter: 3.2 mm (.125")	Diameter: 3.2 mm (.125")
Overall Length: 70 mm	Overall Length: 55 mm
1271 [1/16" Smooth]	
Diameter: 1.6 mm (.062")	
Overall Length: 70 mm	

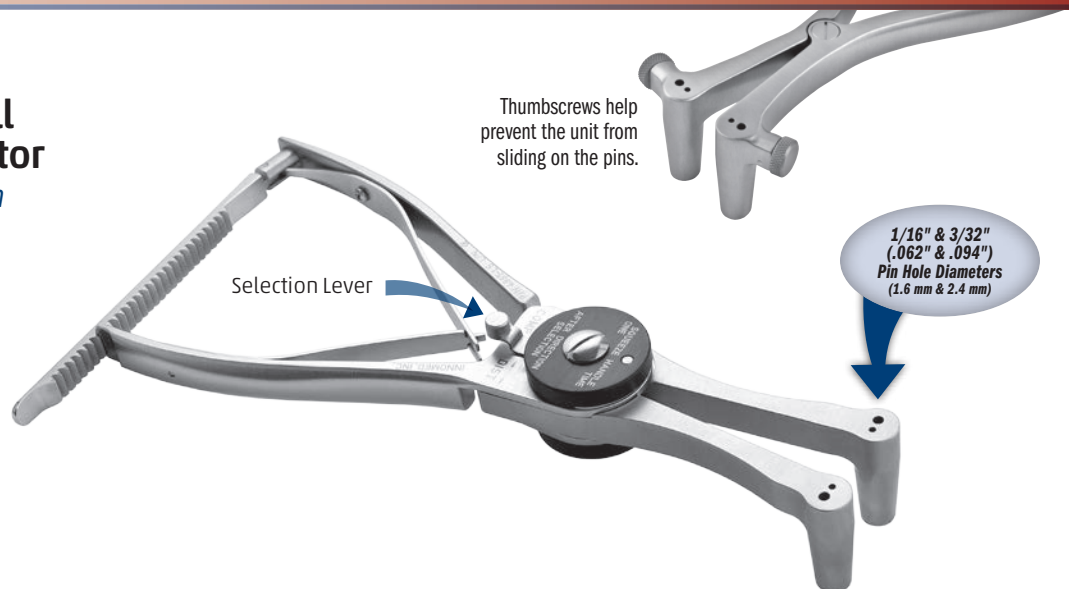
# Joint, Calcaneal, and Small Bone Compressor/Distractor

Selection lever switches the mechanism from compression to distraction

Simply squeeze the handle one time after direction selection to engage the mechanism. Two hole sizes for pin size selection.

PRODUCT NO'S:	
4865-LS [Standard]	
Overall Length: 8.5" (21,6 cm)	
Holes For: .062" & .094" (1,6 & 2,4 mm) K-wire Pins	
4865-LS-TS [With Thumbscrews]	
Overall Length: 8.5" (21,6 cm)	
Holes For: .062" & .094" (1,6 & 2,4 mm) K-wire Pins	

USA MADE



Thumbscrews help prevent the unit from sliding on the pins.

Selection Lever

1/16" & 3/32" (.062" & .094") Pin Hole Diameters (1.6 mm & 2.4 mm)



**LARGE**  
Outspread and Closed Arms



**SMALL**  
Outspread and Closed Arms

## Joint, Calcaneal and Small Bone Distractors

Two hole sizes and two arm designs allow for easier pin size selection and helps with distraction in a variety of indications

PRODUCT NO'S:	
OUTSPREAD ARMS	CLOSED ARMS
4210-LB [Large] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 8" (20,3 cm)	4210-LS [Large] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 8" (20,3 cm)
4210-SB [Small] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 6" (15,2 cm)	4210-SS [Small] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 6" (15,2 cm)
	4210-XSD [Extra Small] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 4.25" (10,8 cm)



**EXTRA SMALL**  
Closed Arms only



**WITH THUMBSCREWS**  
Large and Small, Outspread and Closed Arms

## Joint, Calcaneal and Small Bone Distractors with Thumbscrews

Thumbscrew Modification Designed by Kelly McCormick, MD

Thumbscrews help prevent the unit from sliding on the pins

PRODUCT NO'S:	
OUTSPREAD ARMS	CLOSED ARMS
4215-LB [Large] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 8" (20,3 cm)	4215-LS [Large] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 8" (20,3 cm)
4215-SB [Small] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 6" (15,2 cm)	4215-SS [Small] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 6" (15,2 cm)

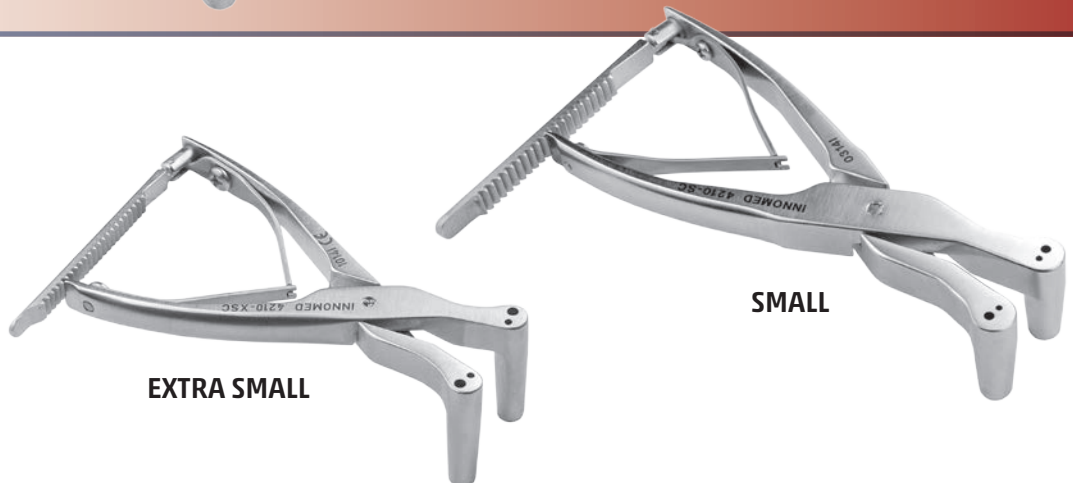


## Joint, Calcaneal, and Small Bone Compressor

Designed for compression in fracture and osteotomy procedures

Two hole sizes for ease of pin size selection:  
.062" (1,6 mm) & .094" (2,4 mm)

PRODUCT NO'S:
4210-SC [Small] Overall Length: 6" (15,2 cm)
4210-XSC [Extra Small] Overall Length: 4.25" (10,8 cm)



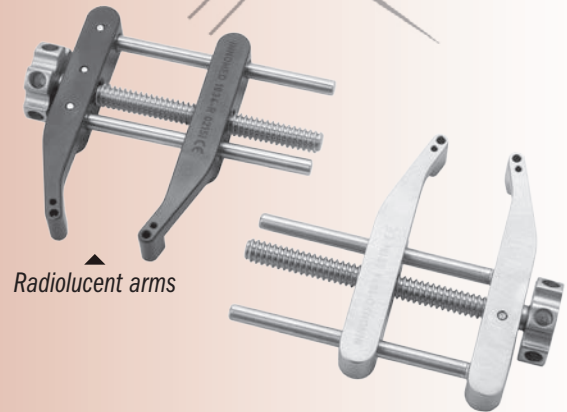
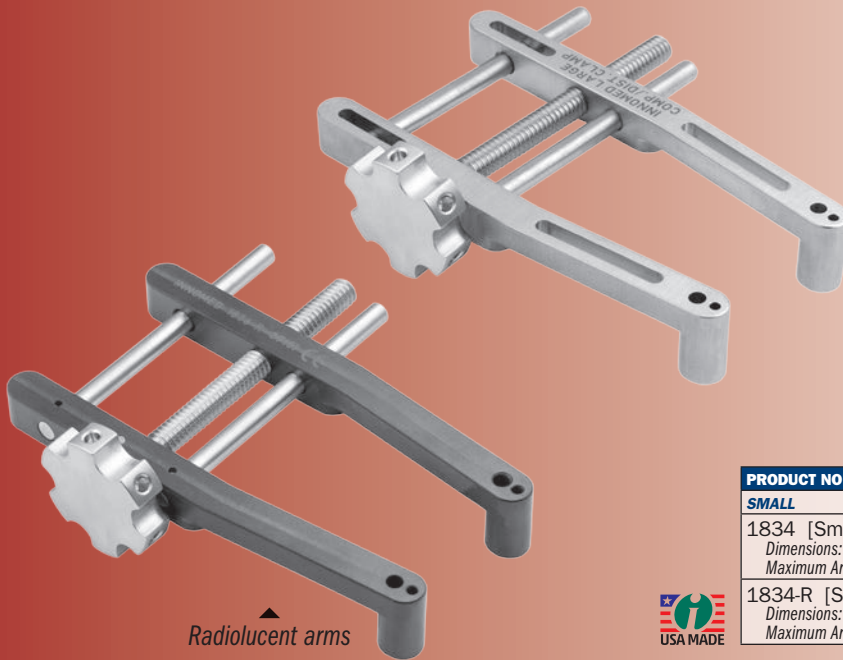
**EXTRA SMALL**

**SMALL**

# HFD Compressor/Distractor

Dial mechanism helps allow precise control of inserted wires—for maintaining a position, compressing or distracting

- ▶ A .125" (3,2 mm) pin can be used in the holes of the thumbwheel for leverage.
- ▶ Small: Two hole sizes allow for ease of pin size selection: .045" (1,1 mm) & .062" (1,6 mm)
- ▶ Large: Two hole sizes allow for ease of pin size selection: .062" (1,6 mm) & .125" (3,2 mm)
- ▶ Radiolucent arms are a steam sterilizable PEEK/Carbon Fiber composite.



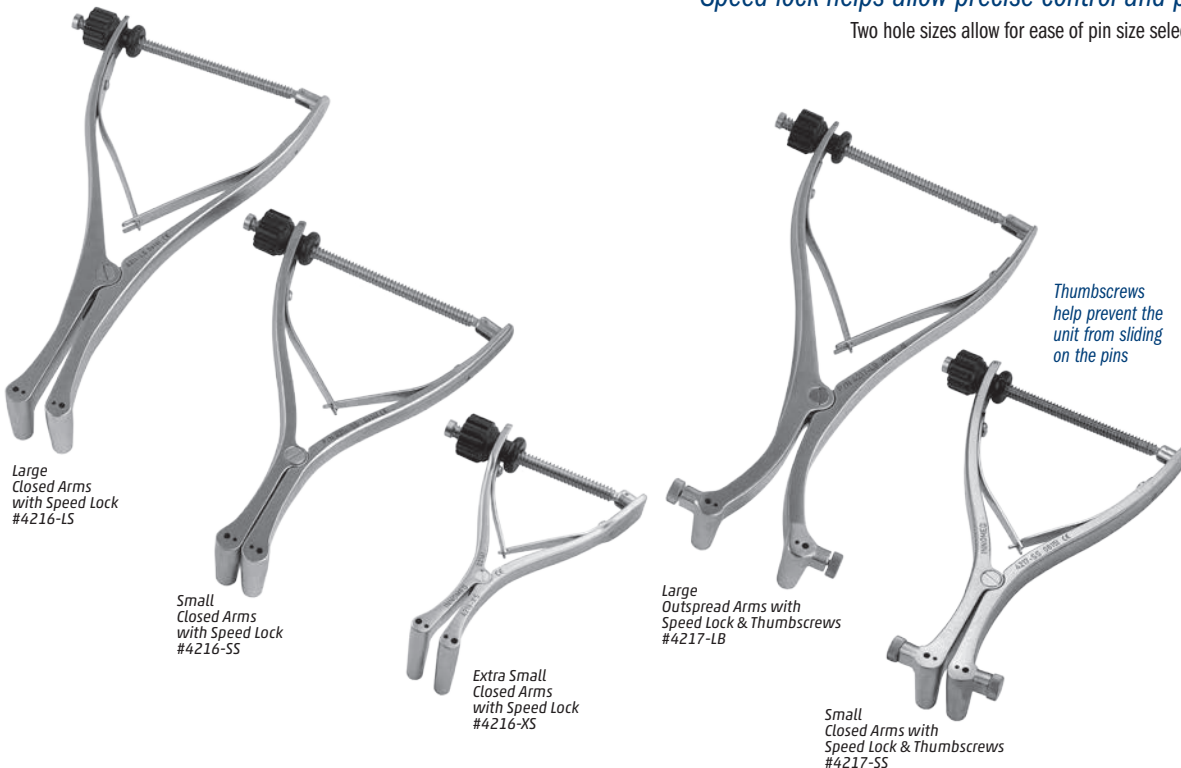
PRODUCT NO'S:	
SMALL	LARGE
1834 [Small – All Stainless Steel] Dimensions: 51 mm x 57 mm Maximum Arm Opening: 1.35" (3,4 cm)	1836 [Large – All Stainless Steel] Overall Length: 4" (10,2 cm) Maximum Arm Opening: 2.25" (5,7 cm)
1834-R [Small With Radiolucent Arms] Dimensions: 51 mm x 57 mm Maximum Arm Opening: 1.35" (3,4 cm)	1836-R [Large With Radiolucent Arms] Overall Length: 4" (10,2 cm) Maximum Arm Opening: 2.25" (5,7 cm)



# Joint, Calcaneal, and Small Bone Compressor/Distractors with Speed Lock

Speed lock helps allow precise control and prevents unintended release

Two hole sizes allow for ease of pin size selection: .062" (1,6 mm) & .094" (2,4 mm)

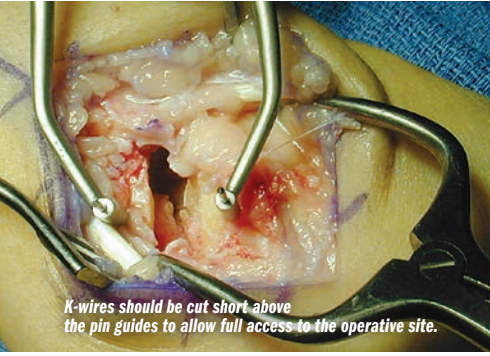


PRODUCT NO'S:	
CLOSED ARMS WITH SPEED LOCK	
4216-LS [Large] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 8" (20,3 cm)	
4216-SS [Small] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 6" (15,2 cm)	
4216-XS [Extra Small] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 4.5" (11,4 cm)	
OUTSPREAD ARMS WITH SPEED LOCK & THUMBSCREWS	
4217-LB [Large] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 8" (20,3 cm)	
CLOSED ARMS WITH SPEED LOCK & THUMBSCREWS	
4217-SS [Small] Holes Diameters: For .062" & .094" (1,6 & 2,4 mm) K-wire Pins Overall Length: 6" (15,2 cm)	



# Wurapa Small Joint Compressor and Distractor

Designed by Raymond K. Wurapa, MD



*K-wires should be cut short above the pin guides to allow full access to the operative site.*

*Designed to allow one-handed manipulation and deployment once fixation pins are placed*



Available with two hole sizes on each instrument!

**Designed to simplify several small joint procedures:**

- ▶ Preparation of small bone non-unions before bone grafting and fixation
- ▶ Preparation of small joints for arthrodesis (e.g. partial wrist fusion)
- ▶ Distract and better evaluate small joints before determining final management
- ▶ Useful for intercarpal stabilization while performing ligament reconstructions (e.g. scapholunate ligament repair/reconstruction)

MADE EXCLUSIVELY FOR INNOMED IN GERMANY



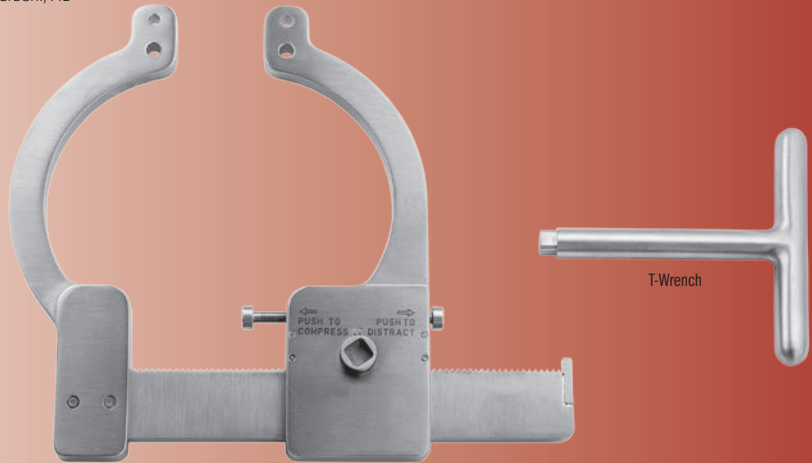
PRODUCT NO'S:	
<b>DOUBLE HOLES:</b> .045" (1,1 mm) & .062" (1,6 mm)	
1751 [Compressor]	Compresses From: 28 mm Overall Length: 4.625" (11,7 cm)
1752* [Distractor]	Distracts to: 46 mm Overall Length: 4.625" (11,7 cm)
<b>SINGLE HOLE:</b> .045" (1,1 mm) Hole	
1753 [Compressor]	Compresses From: 28 mm Overall Length: 4.5" (11,4 cm)
1754 [Distractor]	Distracts to: 46 mm Overall Length: 4.5" (11,4 cm)



# Gurbani Joint Distractor/Compressor

*Versatile joint distractor/compressor for arthroscopic or open procedures of foot, ankle, hand, and wrist joints*

Designed by Naren G. Gurbani, MD



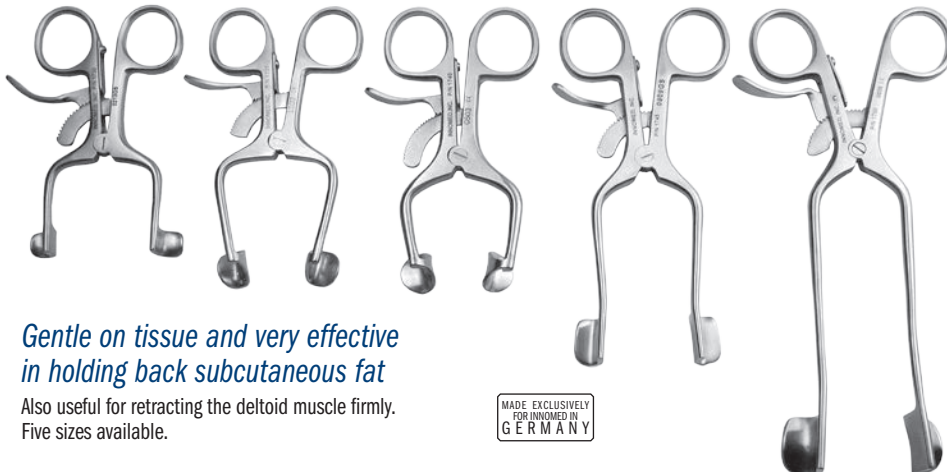
PRODUCT NO'S:	
4208-00 [Set with Case]	Includes: Distractor/Compressor, T-Wrench, and Case
<b>Available individually:</b>	
4208-01 [Distractor/Compressor Only]	Dimensions: 6" w x 5" h (16,2 cm x 12,7 cm) Distracts to: 2.75" (7 cm) / Compresses from: .5" (13 mm)
4208-TW [T-Wrench]	Overall Length: 10" (25,4 cm)
1025 [Sterilization Case]	



Pin Hole Sizes: .125" (3.2 mm) and .158" (4 mm)

# Hendren Self-Retaining Retractors

Designed by D.H. Hendren, MD

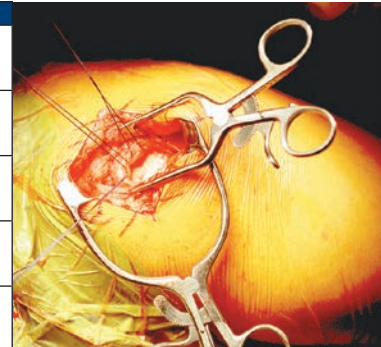


*Gentle on tissue and very effective in holding back subcutaneous fat*

Also useful for retracting the deltoid muscle firmly. Five sizes available.



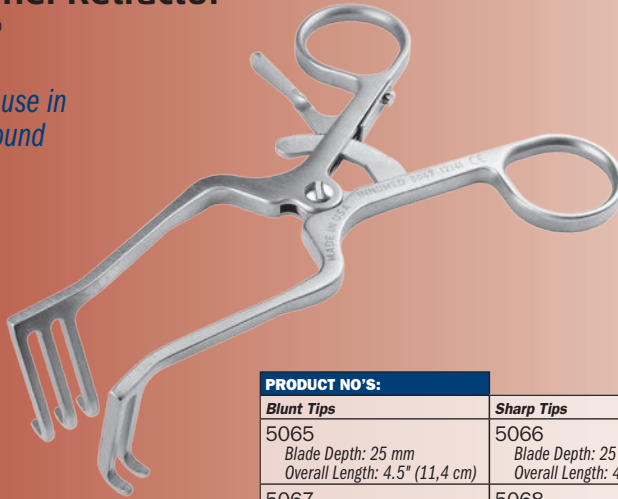
PRODUCT NO'S:	
1730	Overall Length: 3.5" (8,9 cm) Blade Size: 10 mm x 12 mm
1735	Overall Length: 4.5" (11,4 cm) Blade Size: 14 mm x 13 mm
1740	Overall Length: 4.5" (11,4 cm) Blade Size: 16 mm x 13 mm
1745	Overall Length: 5.5" (14 cm) Blade Size: 18 mm x 13 mm
1750	Overall Length: 6.5" (16,5 cm) Blade Size: 22 mm x 14 mm



# Chung Weitlaner Retractor

Designed by Raymond Chung, MD

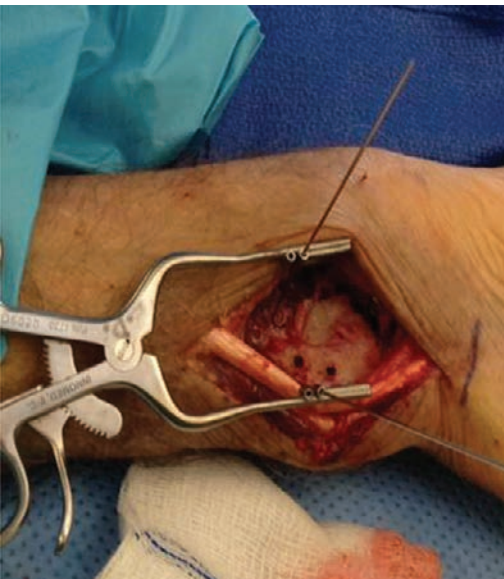
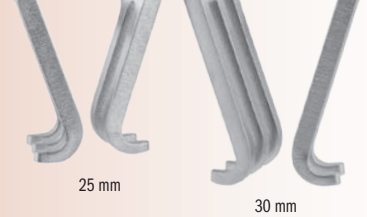
Longer prongs allow use in a small, but deep wound



PRODUCT NO'S:	
Blunt Tips	Sharp Tips
5065 Blade Depth: 25 mm Overall Length: 4.5" (11,4 cm)	5066 Blade Depth: 25 mm Overall Length: 4.5" (11,4 cm)
5067 Blade Depth: 30 mm Overall Length: 4.5" (11,4 cm)	5068 Blade Depth: 30 mm Overall Length: 4.5" (11,4 cm)



Prong lengths of 25 mm and 30 mm available with either sharp or blunt tips



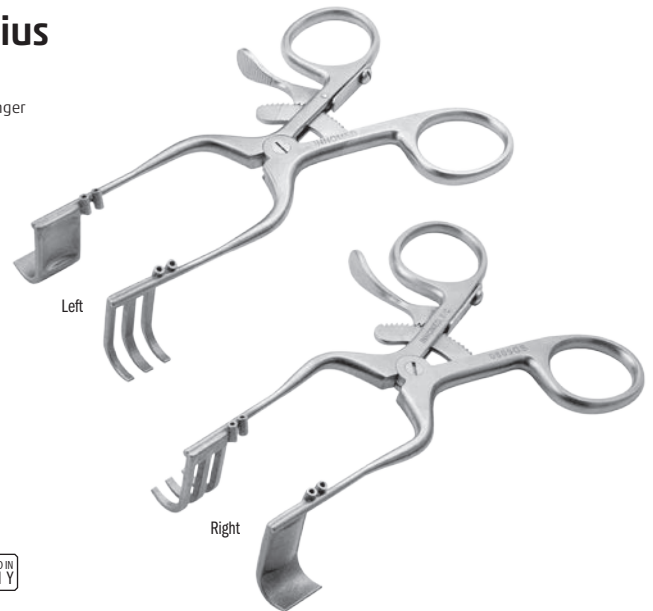
# Williams Distal Radius Fracture Retractor

Designed by Craig S. Williams, MD and Eric Dahlinger

Designed to provide excellent exposure during fracture reduction and plating

PRODUCT NO'S:
1837-L [Left] For Pins up to .045" (1.1 mm) Overall Length: 4.5" (11,4 cm) Blade Depth: 20 mm Blade Width: 12.5 mm
1837-R [Right] For Pins up to .045" (1.1 mm) Overall Length: 4.5" (11,4 cm) Blade Depth: 20 mm Blade Width: 12.5 mm

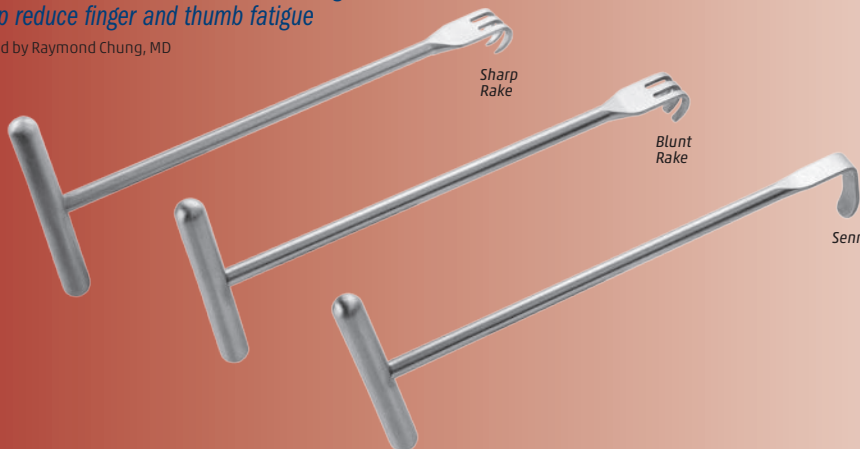
MADE FOR INNOVED IN GERMANY



# Chung T-Handle Retractors

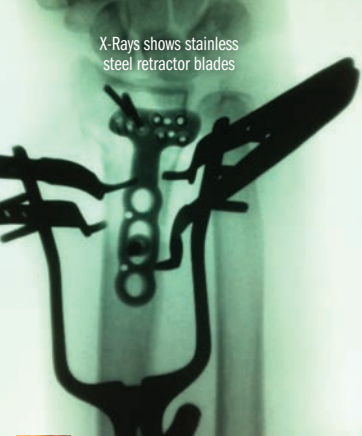
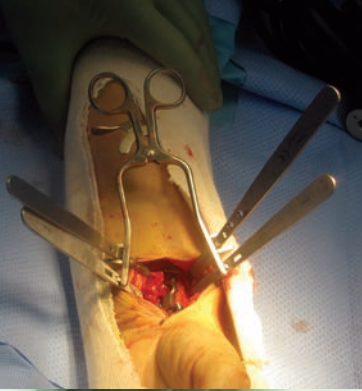
Designed with a T-handle for easier holding and to help reduce finger and thumb fatigue

Designed by Raymond Chung, MD

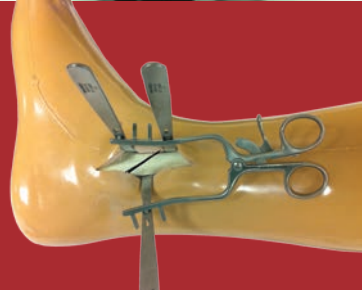


PRODUCT NO'S:	
1159 [Sharp Rake] Overall Length: 117 mm Blade Width: 9 mm Blade Depth: 7 mm	Rake
1161 [Blunt Rake] Overall Length: 117 mm Blade Width: 9 mm Blade Depth: 7 mm	Senn
1162 [Senn] Overall Length: 117 mm Blade Width: 6 mm Blade Depth: 16 mm	





X-Rays shows stainless steel retractor blades



## Dodson Modular Retractor

Designed by Mark A. Dodson, MD

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

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



<b>PRODUCT NO'S:</b>	Set consists of one ratcheting self-retaining handle, two stainless steel mini-hohmann retractor blades, and a sterilization case.
1838-00 [Set]	
<b>Replacement Parts:</b>	
1838-01 [Handle Only] Overall Length: 5.5" (14 cm)	
1838-02 [Blade Only – One] Overall Length: 5.25" (13,3 cm) Blade Width: 3/8" (9 mm)	
1025 [Sterilization Case Only]	
<b>Optional Parts — Not Included In Set:</b>	
1838-02R* [Radiolucent Blade Only – One] Overall Length: 5.25" (13,3 cm) Blade Width: 3/8" (9 mm)	

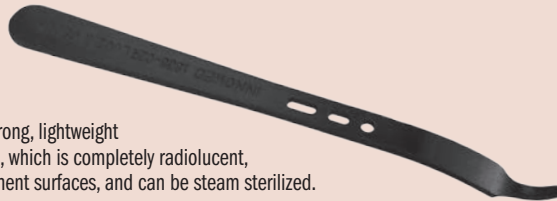
MADE EXCLUSIVELY FOR INNOVATED IN GERMANY

\* MADE EXCLUSIVELY FOR INNOVATED IN SWITZERLAND

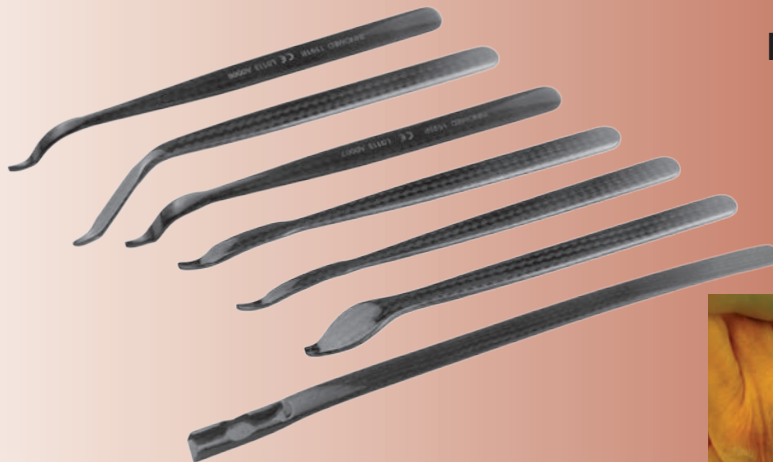
Patent Pending

## OrthoLucent™ carbon fiber PEEK composite blade

The radiolucent blade 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.



<b>PRODUCT NO'S:</b>
1591-R 6 mm Blade, Bent Overall Length: 7" (17,8 cm)
1592-R 8 mm Blade, Deep Bent Overall Length: 7" (17,8 cm)
1593-R 8 mm Blade, Bent Overall Length: 7" (17,8 cm)
1594-R 8 mm Blade Overall Length: 6.875" (17,5 cm)
1595-R 6 mm Blade Overall Length: 6.875" (17,5 cm)
1597-R 16 mm Blade Overall Length: 6.875" (17,5 cm)
1596-R 8" Extender Overall Length: 8" (20,3 cm)



## OrthoLucent™ Mini Hohmann Retractors

Designed by Jeffrey Lawton, MD

*Radiolucent, lightweight retractors*

Lightweight carbon fiber material is strong, completely radiolucent, can be steam sterilized, and helps to prevent from marring component surfaces.

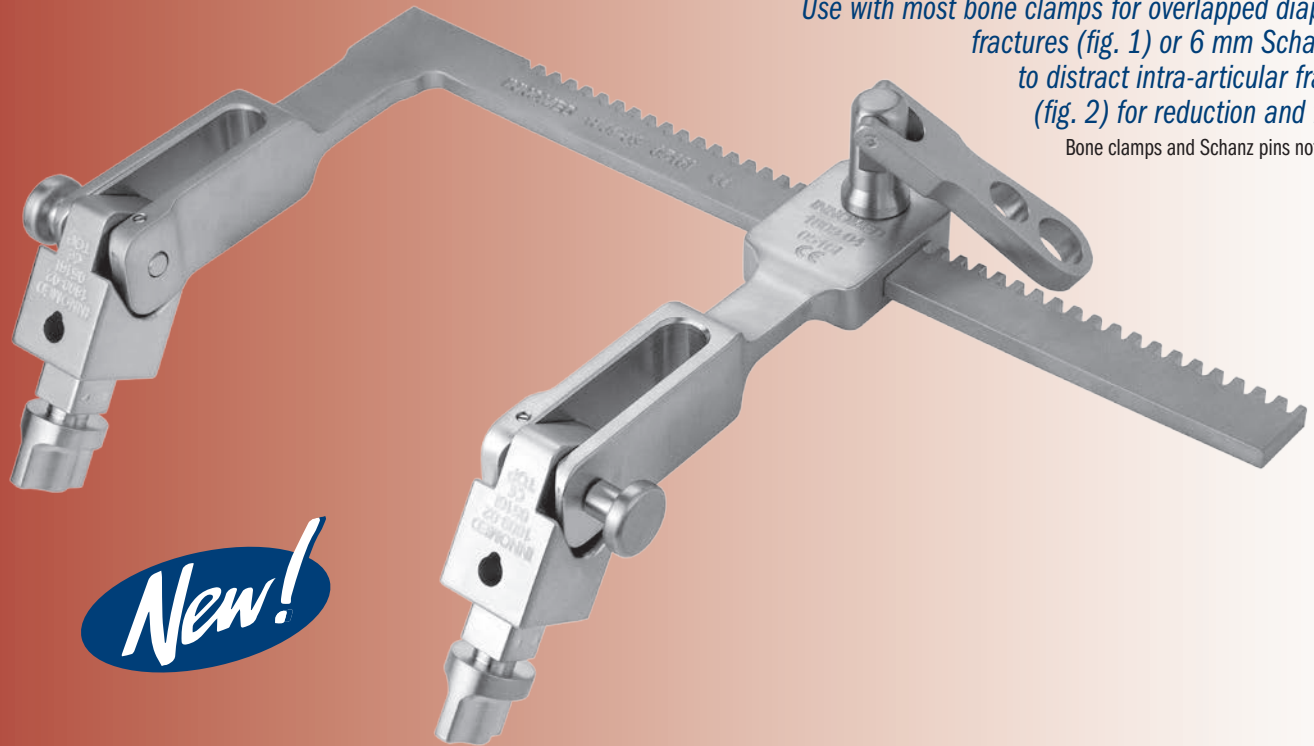




# Femur/Tibia Fracture Distractor

Use with most bone clamps for overlapped diaphyseal fractures (fig. 1) or 6 mm Schanz pins to distract intra-articular fractures (fig. 2) for reduction and fixation

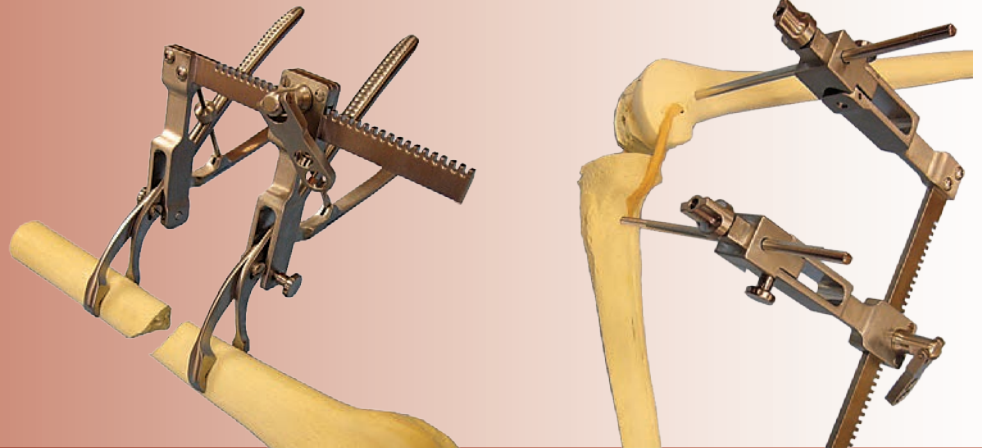
Bone clamps and Schanz pins not included.




**New!**

Fig. 1: Diaphyseal fractures with clamps

Fig. 2: Intra-articular fracture using pins



PRODUCT NO:	
1809	
Overall Length: 10.5" (26,7 cm)	
Overall Width: 7.25" (18,4 cm)	
For Pins Up To: .25" (6,4 mm)	
Individual/Replacement Parts:	
1809-02	[Pivot Block]
1809-03	[Frame (no pivot blocks or moveable arm)]
1809-04	[Moveable Arm (no pivot block or handle)]
1809-05	[Handle]

 A portion of all proceeds goes to SIGN Fracture Care International, a 501(c)(3) non-profit, to promote equality of fracture care in developing countries. [signfracturecare.org](http://signfracturecare.org)

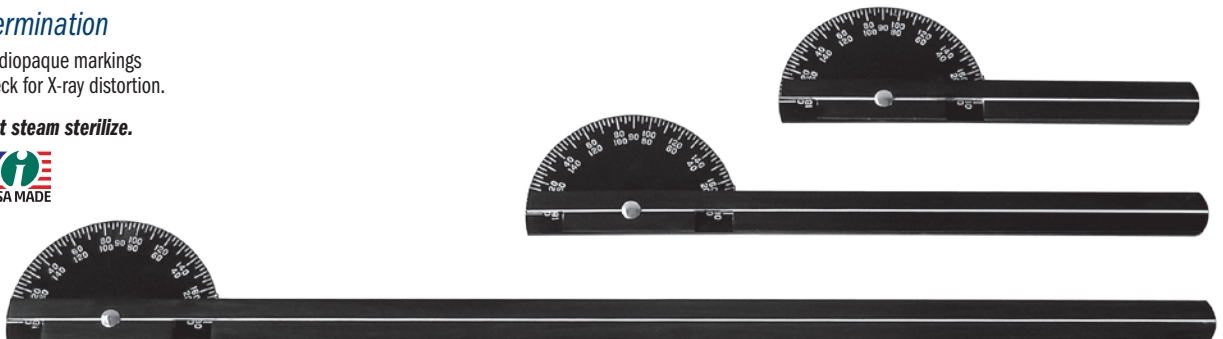
## Radiopaque Goniometers

*Designed for Angle Determination*

Transparent to X-ray—only white radiopaque markings show for easy reading. Used to check for X-ray distortion.

Ethylene oxide sterilize only. **Do not steam sterilize.**

PRODUCT NO'S:	
2000	[Set of 3]
2005	[Finger-size] Overall Length: 5" (12,7 cm)
2010	[Medium] Overall length: 8" (20,3 cm)
2015	[Large] Overall length: 14" (35,6 cm)



## Protect your hands!

# Radiation Attenuating Surgical Gloves

*Powder-free gloves provide increased protection from direct x-ray beam and scattered radiation*

### Reduced Exposure

Lead-free, surgical gloves attenuate direct or scattered rays and are an environmentally friendly alternative to leaded gloves.

### Freedom of Movement

Gloves are very thin—ONLY 0.007" THICK—to allow the greatest possible flexibility, dexterity, and sensitivity of touch while decreasing finger fatigue.

### Natural Latex Free & Powder-Free

Reduced risk of natural rubber latex allergies.

### Quality Guaranteed

All gloves are 100% tested for pin holes and leaks.

### Applications

Fluoroscopy, Orthopedics, Radioisotope Handling, Cardiology, Radiology, Dental, Nuclear Medicine

*Suitable for reducing harmful radiation exposure during any procedure requiring the use of fluoroscopy*



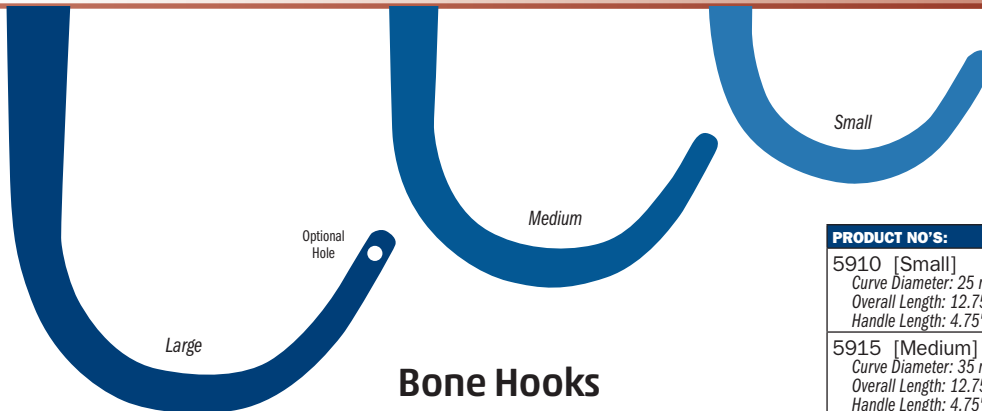
Average Radiation Attenuation Levels Measured in the Direct Beam

Beam Quality	Aluminum Half Value Layer	Measured Attenuation
60 kVp	HVL = 2.3 mm	58.7%
80 kVp	HVL = 3.3 mm	49.9%
100 kVp	HVL = 4.3 mm	44.6%
120 kVp	HVL = 5.6 mm	40.6%

**NOTE: Double gloving with conventional latex surgical gloves provides only 1% attenuation.**  
Levels are measured by a fixed filter equivalent: 2.5 mm Al



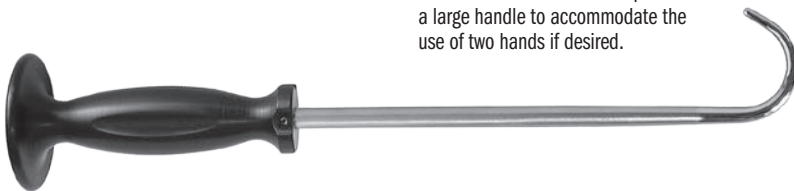
PRODUCT NO'S:		USA MADE	
5 PAIRS/PACK	25 PAIRS/PACK	5 PAIRS/PACK	25 PAIRS/PACK
7505-01 6.5	7505-02 6.5	7505-01 6.5	7505-02 6.5
7510-01 7.0	7510-02 7.0	7510-01 7.0	7510-02 7.0
7515-01 7.5	7515-02 7.5	7515-01 7.5	7515-02 7.5
7520-01 8.0	7520-02 8.0	7520-01 8.0	7520-02 8.0
7525-01 8.5	7525-02 8.5	7525-01 8.5	7525-02 8.5
7530-01 9.0	7530-02 9.0	7530-01 9.0	7530-02 9.0



## Bone Hooks

Designed by R.L. Wixson, MD

The instrument has a blunt tip and a large handle to accommodate the use of two hands if desired.



### 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

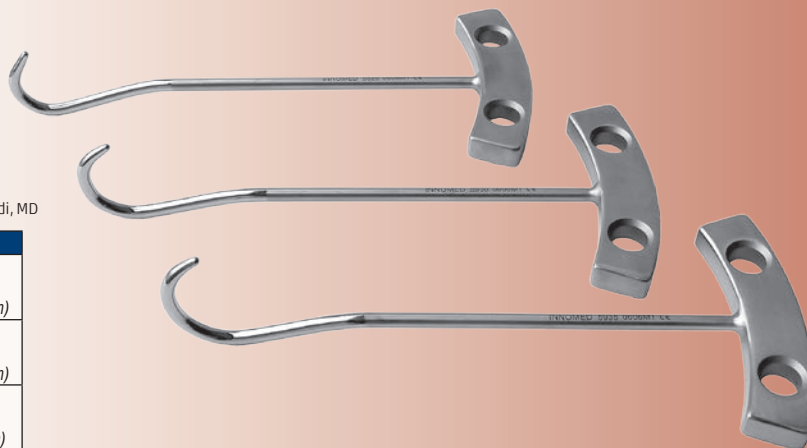
Designed by Adolph V. Lombardi, MD

### 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)



Small Ends drawn at actual size

Medium

Large



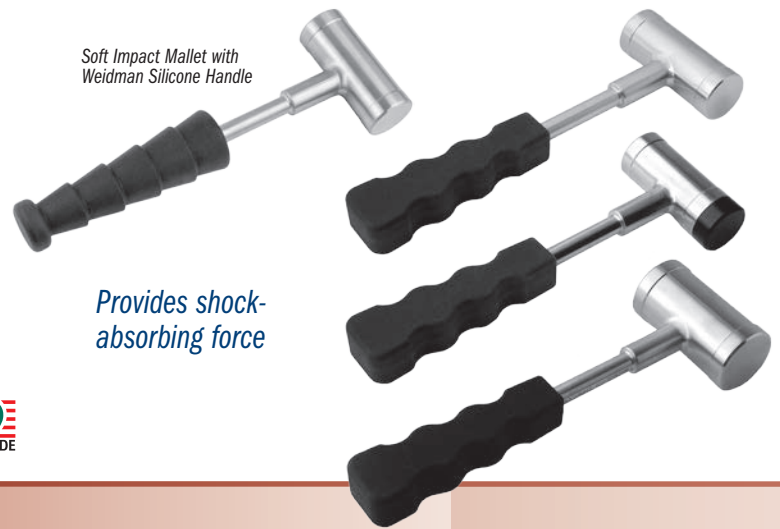
## Soft Impact Mallets with Easy Grip Handles

Designed to have a shock-absorbing force, providing less bounce or wasted force. The mallets are filled with a shock-absorbing media and has a flat striking surface to keep the mallets centered on an instrument.

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



Soft Impact Mallet with Weidman Silicone Handle



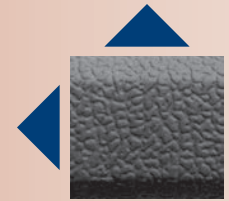
Provides shock-absorbing force



## Ortho Mallets with Easy Grip Handles

These solid stainless steel mallets each have a comfortable 4½" grip made of a textured silicone that helps prevent the surgeon's gloved hand from slipping and helps maintain a solid grip.

PRODUCT NO'S:	
7810 [Small] Overall Length: 8" (20,3 cm) Handle Length: 4.5" (11,4 cm) Head Weight: 1 lb. (.45 kg) Head Diameter: 1.3125"	7815 [Large] Overall Length: 8" (20,3 cm) Handle Length: 4.5" (11,4 cm) Head Weight: 1.75 lb. (.8 kg) Head Diameter: 1.5" (3,8 cm)



## Easy Grip Textured Soft Silicone Handles

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

## Jones Mallet

Designed by Dickie Jones, MD

*Unique hand fitting shape provides superior gripping strength*

This striking instrument has a unique hand fitting shape that provides superior gripping strength for accurate light to heavy impaction.

PRODUCT NO:
7825 [2.4 lbs] Overall Length: 8.25" (21 cm) Head Width: 3" (7,6 cm) Head Diameter: 1.5" (3,8 cm)



## Rotating Offset Handle Hex Driver

*Offset shaft and smooth spin handle allow for a rapid crank action when desired*



Large hex driver for 6.5 mm and 4.5 mm diameter screws. Especially helpful in insertion and removal of long screws.

PRODUCT NO:
7241 Overall Length: 13.5" (34,3 cm)



# Star Bit Driver Set

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

Helpful during revision total joint surgery. Set consists of four star bits – T10, T15, T20, & T25, a handle which accommodates any of the above bits, and a sterilization case. The drive end (A/O) is designed for easy and quick engagement with the universal instrument handle. The ergonomic, modular handle has two connection points, allowing for both straight and T-handle orientations.

PRODUCT NO'S:
5194-00 [4 Star Bits w/Handle & Case]
5194-01 [4 Star Bits w/Case only]
<b>Also sold individually:</b>
S0113 [Universal 4" (10,2 cm) Handle]
5194-10 [T10 with A/O End]
5194-15 [T15 with A/O End]
5194-20 [T20 with A/O End]
5194-25 [T25 with A/O End]
9003 [Case]



Set in Storage Case



Designed to help remove a variety of screws—solid and cannulated: stripped hex screws, buried screws, partial screws with broken screw heads



### Screw Extractors

Unique thread design accommodates removal of stripped screws. The instrument "locks" into the screw head and allows removal once engaged. Designed to be used in a counter-clockwise direction.



### Trephines

Designed to fit over submerged screws for extraction with minimal bone loss. Extraction is enhanced by the unique tooth design. Designed to be used in a counter-clockwise direction.



### Hex Drivers

Solid shaft in all standard hex sizes.



### Cannulated Hex Drivers

Four sizes with a cannulated shaft for easier removal of buried screws.



### Universal Extractor

Designed to remove screws with heads partially or completely missing. The cone shaped head fully engages the remaining screw and optimizes the force needed for removal. The bolt is disposable and locks into place using a unique thread design. Designed to be used in a counter-clockwise direction.



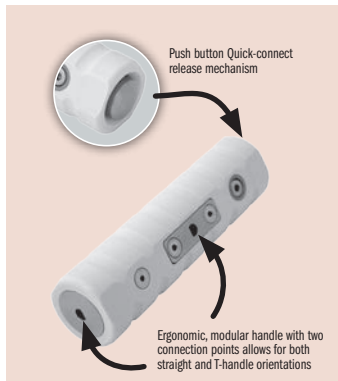
### Screwdrivers

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



### Cannulated Drive Extension

Used when a longer instrument shaft is desired.



Push button Quick-connect release mechanism

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



Extractor Wrench

### Universal Instrument Handle

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

### Pick

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

# Universal Screw Removal Instrument System



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

PRODUCT NO'S:
S0010-00 [Complete System with Case]
<b>Individual/Replacement Parts</b>
S0113 [Universal 4" (10,2 cm) Handle]
S0128 [1.5 mm Screw Extractor]
S0116 [2.5 mm Screw Extractor]
S0130 [3.5 mm Screw Extractor]
S0117 [1.5 mm Hex Driver]
S0114 [2.5 mm Hex Driver]
S0115 [3.5 mm Hex Driver]
S0132 [4.0 mm Hex Driver]
S0133 [5.0 mm Hex Driver]
S0136 [2.5 mm Cannulated Hex Driver]
S0137 [3.5 mm Cannulated Hex Driver]
S0138 [4.0 mm Cannulated Hex Driver]
S0139 [5.0 mm Cannulated Hex Driver]
S0118 [Large Cruciform Screwdriver]
S0119 [Small Cruciform Screwdriver]
S0141 [Mini Cruciform Screwdriver]
S0120 [Single Slot Screwdriver]
S0121 [2.2 mm Trephine]
S0122 [3.2 mm Trephine]
S0123 [4.2 mm Trephine]
S0124 [4.7 mm Trephine]
S0125 [7.2 mm Trephine]
S0127 [Universal Extractor – Shaft Only]
S0127-01 [Large Extraction Bolt Body]
S0127-03 [Small Extraction Bolt Body]
S0127-04 [Extractor Wrench]
S0129 [Pick]
S0140 [Cannulated Drive Extension]
9017 [Screw Removal Case Only]
Case Dimensions: 20" x 9.25" (50,8 cm x 23,5 cm)



## Universal Screwdriver Set

*Helps eliminate the opening of multiple sterile packs when a specific size or style of screwdriver is needed*

Helpful during revision total joint surgery where screws have been used, removal of bone plates, fracture fixation screws or bone graft screws.

PRODUCT NO'S:	
5195	[Set with Storage Case] <i>Also sold individually</i>
5195-01	[Handle]
5195-02	[Straight (single slot)] <i>Large: 7x1.5 mm, Small: 5x1 mm</i>
5195-03	[Cross/Cruciate] <i>Large: 7 mm, Small: 6 mm</i>
5195-04	[Hex] <i>Large: 4.5 mm, Small: 3.5 mm</i>
5195-05	[Phillips] <i>Large: 4 mm, Small: 3.5 mm</i>
5195-06	[Small Star: #10 & #15]
5195-07	[Large Star: #20 & #25]

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

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

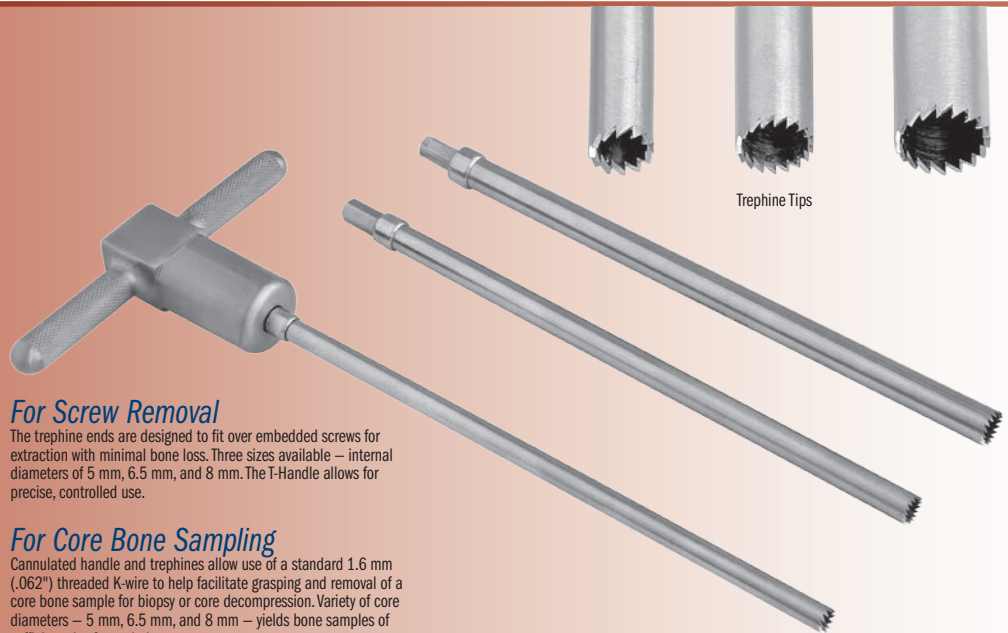


## Cheng Screw Removal and Bone Trepine Set

Designed by Edward Cheng, MD



PRODUCT NO'S:	
1426-00	[Complete Set with Case]
<b>Includes:</b>	
1426-01	[Small Trepine] 5 mm Internal Diameter <i>Overall Length: 7.125" (18,1 cm)</i>
1426-02	[Medium Trepine] 6.5 mm Internal Diam. <i>Overall Length: 7.125" (18,1 cm)</i>
1426-03	[Large Trepine] 8 mm Internal Diameter <i>Overall Length: 7.125" (18,1 cm)</i>
1426-04	[Handle Assembly] <i>Dimensions: 4" x 2" (10,2 cm x 5,1 cm)</i>
1025	[Sterilization Case]
<b>Replacement Part:</b>	
1425-14-B-COMP	[Handle Retaining Screw]

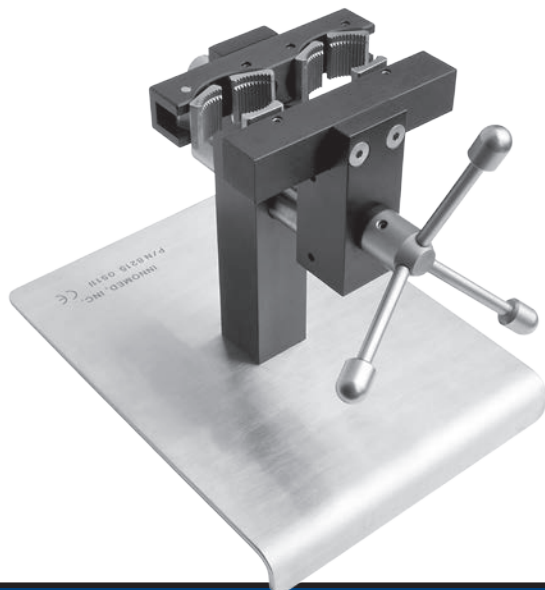


### For Screw Removal

The trephine ends are designed to fit over embedded screws for extraction with minimal bone loss. Three sizes available – internal diameters of 5 mm, 6.5 mm, and 8 mm. The T-Handle allows for precise, controlled use.

### For Core Bone Sampling

Cannulated handle and trephines allow use of a standard 1.6 mm (.062") threaded K-wire to help facilitate grasping and removal of a core bone sample for biopsy or core decompression. Variety of core diameters – 5 mm, 6.5 mm, and 8 mm – yields bone samples of sufficient size for pathology.

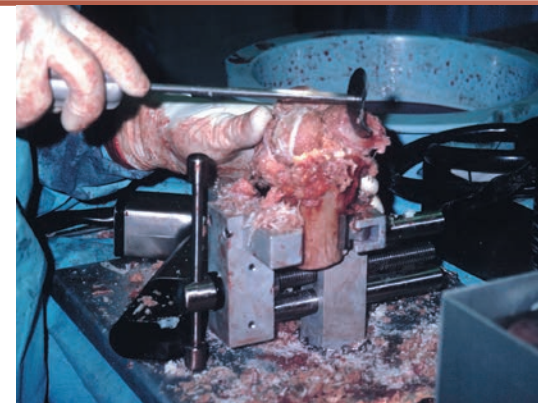


## Allograft Bone Vise

*Holds allograft bone for reaming, shaping or cutting*

The vise is designed with two sets of vise jaws for reaming of two femoral heads and also for holding a long bone horizontally and vertically. The base plate is designed with a table flange for stabilization during use. The vise is completely autoclavable.

PRODUCT NO:
8215
<i>Base Dimensions: 8.25" x 11" (21,6 cm x 27,9 cm)</i>



**New!**



## Mengato Depth Gauge

Designed by Richard Mengato, MD

*Right-handed design with 3 rings gives 3-point grip for ease of holding and manipulation*

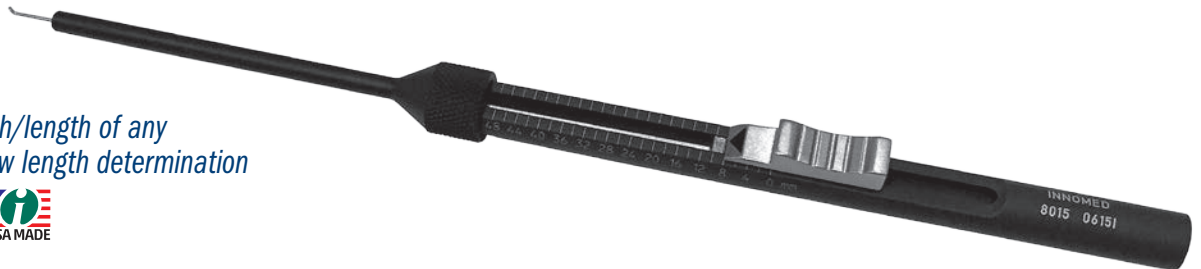
Allows for superior gauge control and manipulation, to advance, engage and maintain the hook on the distal cortex by levering the probe against the bone hole and keeping gentle tension on the hook.

<b>PRODUCT NO:</b>
1139
Overall Length - Contracted: 7.125" (18,1 cm)
Overall Length - Extended: 9.125" (23,2 cm)
Gauge: 0 to 50 mm



## Bone Depth Gauge

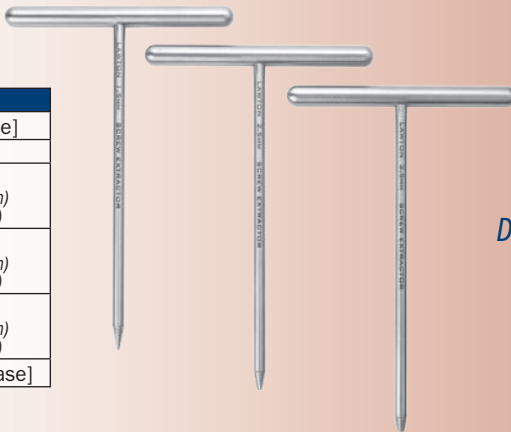
*Designed to help provide measurement of the depth/length of any bone hole for proper screw length determination*



<b>PRODUCT NO:</b>
8015
Overall Length: 7.625" (19,4 cm)
Scale: From 0 to 48 mm



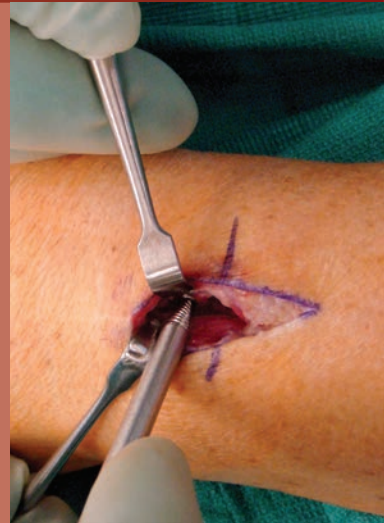
<b>PRODUCT NO'S:</b>
7653-00 [Set w/Case]
<b>Individual Parts:</b>
7653-01 [1.5 mm] Overall Length: 6" (15,2 cm) Handle Width: 4" (10,2 cm)
7653-02 [2.5 mm] Overall Length: 6" (15,2 cm) Handle Width: 4" (10,2 cm)
7653-03 [3.5 mm] Overall Length: 6" (15,2 cm) Handle Width: 4" (10,2 cm)
1025 [Sterilization Case]



## Lawton Screw Extractors

Designed by Jeffrey Lawton, MD

*Designed to help extract mini and micro fragment screws; small cannulated screws; or headless screws*



## Lawton Broken Screw Extractor

Designed by Jeffrey Lawton, MD

*Designed to help remove broken or stripped screws (1 mm-2 mm)*

<b>PRODUCT NO:</b>
7653-04
Overall Length: 4" (10,2 cm)
Handle Width: 3" (7,6 cm)





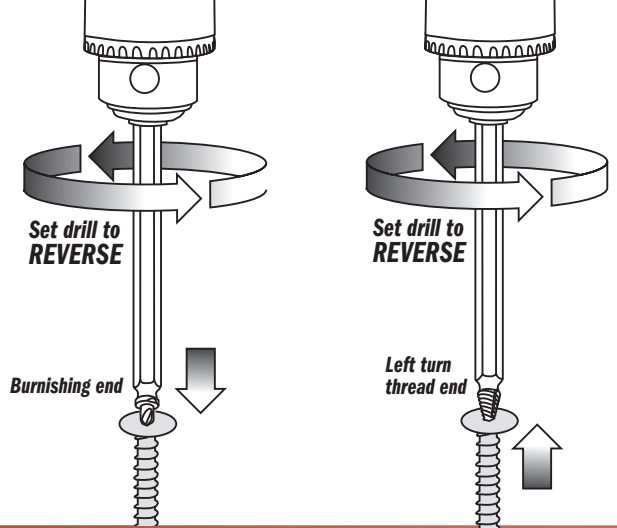
## Screw Extractor Set

Designed to help remove screws with stripped or damaged heads

PRODUCT NO'S:
7250-00 [Set with Case]
7250-01 [Small] Overall Length: 6" (15,2 cm)
7250-02 [Medium] Overall Length: 6" (15,2 cm)
7250-03 [Large] Overall Length: 6" (15,2 cm)



- ▶ Extractors must be used with drill in reverse.
- ▶ Screw head is reamed with burnishing end, and is then removed with the left turn thread end.
- ▶ Care must be taken to burnish no more than 1/16" (1.6 mm) deep, as burnishing too deep can weaken the screw head.



## Craig-Type Extractor Set

Designed to firmly tighten circumferentially around a wire, pin, broken screw, etc. for removal – especially helpful for the removal of threaded pins

- ▶ Removes pins & screws up to 5 mm (.2") diameter and wires as small as .8 mm (1/32") diameter
- ▶ Two cross-handle insert rods give strong leverage for locking the collet securely onto the pin
- ▶ Five interchangeable collets for various grasping capacities
- ▶ Slap hammer included



**PRODUCT NO:**  
1215-00  
Includes Sterilization Case

**Set includes:**

- (1) handle draw bar,
- (1) closing sleeve with hand wheel,
- (5) collets (1 mm to 5 mm),
- (2) cross-handle insert rods,
- (1) slap hammer,
- (1) sterilization case



**PRODUCT NO:**  
S0142  
Overall Length: 8" (20,3 cm)  
Jaw Width: 4.5 mm



## Screw/Pin Removal Locking Pliers

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



## Screw Removal Pliers

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



**PRODUCT NO:**  
2020  
Overall Length: 8 (20,3 cm)



## Wagner Osteotome Handle

Designed by Russell Wagner, MD

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

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

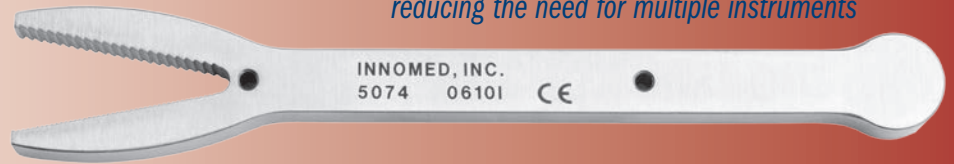


**New!**



## Universal Multi-Nut Wrench

Designed to allow single-tool adjustment to any size nut from 1/4" to 3/4" (6.4 mm to 19 mm), reducing the need for multiple instruments



PRODUCT NO:
5074 Overall Length: 7" (17,8 cm) Wrench End: 3/4" to 1/4" (19 mm to 6,4 mm)



## Long Jaw Needle Nose Pliers

PRODUCT NO:
1833 Overall Length: 7" (17,8 cm) Jaw Length: 2.25" (5,7 cm) Jaw Width Tapered from: 8 mm to 1,5 mm Jaw Height Tapered from: 12 mm to 2,5 mm



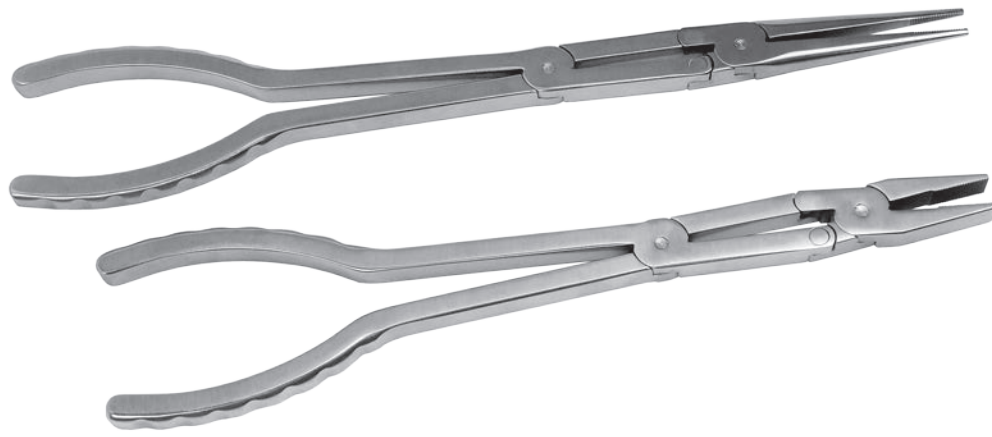
## Delrin Insert Pliers

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

PRODUCT NO'S:
2025 Overall Length: 8" (20,3 cm)
2025-03 [Replacement Insert] Includes top and bottom delrin jaws, two screws and a hex wrench





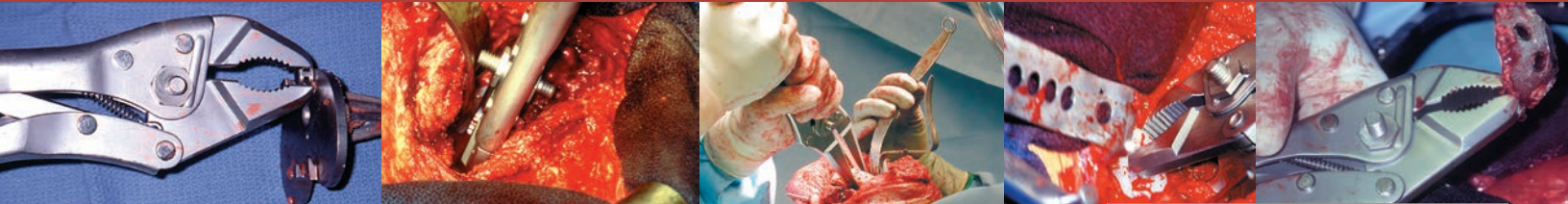


## Extended Double Action Pliers

### PRODUCT NO'S:

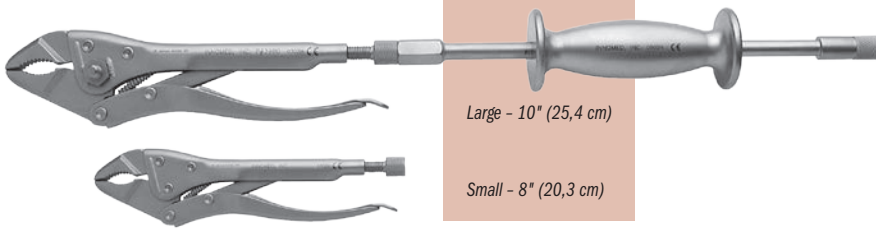
3962 [Needle Nose]  
Overall Length: 13" (33 cm)  
Jaw Length: 2.625" (6,7 cm)  
Jaw Width: 2.5 mm

3961 [Blunt Nose]  
Overall Length: 11.75" (29,8 cm)  
Jaw Length: 1.25" (3,2 cm)  
Jaw Width: 10 mm



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### Standard



Large - 10" (25,4 cm)

Small - 8" (20,3 cm)

## OrthoVise™

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

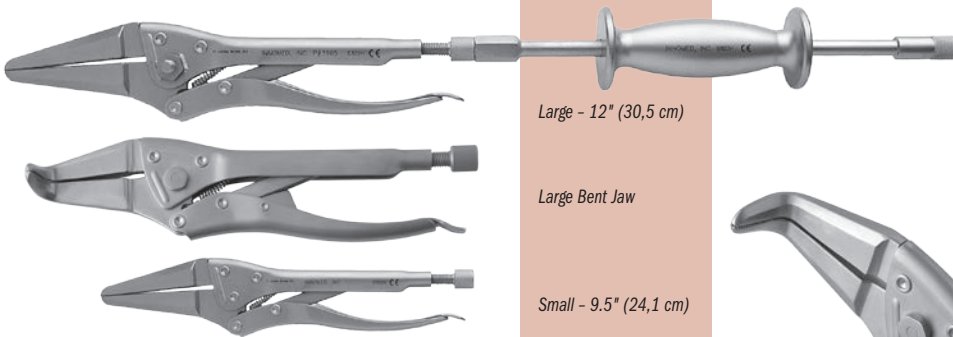
On models equipped with attachment bolts, a slap hammer can be attached to the end of the OrthoVise™, as well as to either side of the large OrthoVise™ (except the bent jaw model).

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

U.S. Patent #D398,208



### Long Nose



Large - 12" (30,5 cm)

Large Bent Jaw

Small - 9.5" (24,1 cm)

### PRODUCT NO'S:

#### Standard

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

#### Long Nose

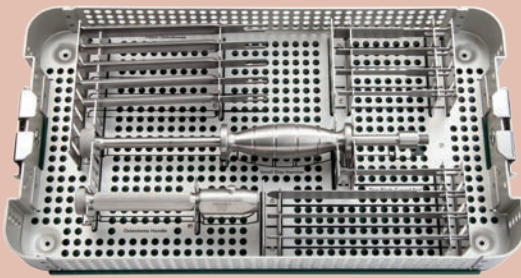
3965	[Large] Overall Length: 12" (30,5 cm) with Attachment Bolts with Large OrthoVise™ Slap Hammer (#3950)
3965-01	[Large] Overall Length: 12" (30,5 cm) with Attachment Bolts without Slap Hammer
3966	[Large Bent Jaw] with Attachment Bolt with Standard Slap Hammer (#3925)
3966-01	[Large Bent Jaw] without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

#### Threaded Adapters

3980-02	[Small Adapter] Changes Male End of a Slap Hammer to Female
3980-03	[Threaded Adapting Screw - Large] For use with 3965's, 3966's, 3980's, 3981
3985-03	[Threaded Adapting Screw - Small] For use with: 3975's, 3985's

#### Slap Hammers

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



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

PRODUCT NO'S:	
S0011-00	[Complete Set with Case]
<b>Individual Instruments:</b>	
S1002	[Thin Osteotome Blade] 3" (7,6 cm) x 8 mm
S1003	[Thin Osteotome Blade] 3" (7,6 cm) x 10 mm
S1004	[Thin Osteotome Blade] 3" (7,6 cm) x 12 mm
S1005	[Thin Osteotome Blade] 3" (7,6 cm) x 20 mm
S1006	[Curved Thin Osteotome Blade] 3" (7,6 cm) x 12 mm
S1007	[Curved Thin Osteotome Blade] 3" (7,6 cm) x 20 mm
S1008	[Thin Osteotome Blade] 5" (12,7 cm) x 10 mm
S1009	[Thin Osteotome Blade] 5" (12,7 cm) x 8 mm
S1020	[Handle with Quick-Coupling End] 6" (15,2 cm)
S1133	[Radial Osteotome] 5" (12,7 cm) x 10 mm
S1120	[Radial Osteotome] 5" (12,7 cm) x 12 mm
S1134	[Radial Osteotome] 5" (12,7 cm) x 14 mm
S1121	[Radial Osteotome] 5" (12,7 cm) x 16 mm
S1122	[Radial Osteotome] 5" (12,7 cm) x 20 mm
S2007	[Slap Hammer] 12" (30,5 cm)
9018	[Case]



# Flexible Osteotome System

Provides an assortment of osteotome blades for various orthopedic surgery procedures

Slap Hammer



Handle with Quick-Coupling End



8MM



10 MM



12 MM



20 MM



12 MM

Curved Thin Blades



20 MM



8 MM

5" Thin Blades



10 MM



10MM INNOMED S1133



12 MM INNOMED S1120

Radial Blades



14MM INNOMED S1134



16MM INNOMED S1121



20MM INNOMED S1122

## Optional Blades

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

Medial Curve Radial Blade

Lateral Curve Radial Blade

PRODUCT NO'S:	
<b>Optional Blades (Not Included In Complete Set)</b>	
S1123	[Extra Long Osteotome Blade] 9" (22,9 cm) x 8 mm
S1135	[Radial Osteo. Medial Curve] 6.75" (17,1 cm) x 11 mm
S1136	[Radial Osteo. Lateral Curve] 6.75" (17,1 cm) x 11 mm
S1137	[Radial Osteo. Medial Curve] 5" (12,7 cm) x 11 mm
S1138	[Radial Osteo. Lateral Curve] 5" (12,7 cm) x 11 mm
S1222	[Chisel Blade] 2.5" (6,4 cm) x 8 mm
S1223	[Chisel Blade] 2.5" (6,4 cm) x 10 mm
S1224	[Chisel Blade] 2.5" (6,4 cm) x 12 mm
S1225	[Chisel Blade] 2.5" (6,4 cm) x 20 mm
S1228	[Chisel Blade] 5" (12,7 cm) x 10 mm
S1229	[Chisel Blade] 5" (12,7 cm) x 8 mm
S1230	[Chisel Blade] 5" (12,7 cm) x 20 mm
S1231	[Chisel Blade] 5" (12,7 cm) x 12 mm



Medial and Lateral Curve Radial Blades designed by Henry Boucher, MD



Extra Long 9" Blades



Medial Curve Radial Blades



Lateral Curve Radial Blades



Lateral Curve Radial Blades



Lateral Curve Radial Blades



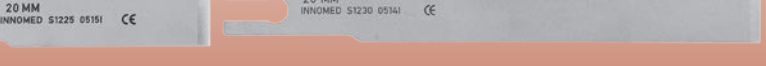
2.5" Chisel Blades



5" Chisel Blades



2.5" Chisel Blades



2.5" Chisel Blades




2.5" Chisel Blades



## Modified Lambotte Osteotomes

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

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

PRODUCT NO'S:	
5350-00 [Set w/Case]	
	
Also Available Individually:	
5350-25 [1/4" (6 mm)] Overall Length: 9" (22,9 cm) Osteotome Width: .25" (6,35 mm)	5350-100 [1" (25 mm)] Overall Length: 9" (22,9 cm) Osteotome Width: 1" (25,4 mm)
5350-50 [1/2" (13 mm)] Overall Length: 9" (22,9 cm) Osteotome Width: .5" (12,7 mm)	5350-125 [1-1/4" (32 mm)] Overall Length: 9" (22,9 cm) Osteotome Width: 1.25" (31,75 mm)
5350-75 [3/4" (19 mm)] Overall Length: 9" (22,9 cm) Osteotome Width: .75" (19 mm)	5350-150 [1-1/2" (38 mm)] Overall Length: 9" (22,9 cm) Osteotome Width: 1.5" (38,1 mm)
5350-CB [Cross Bar]	5350-CASE [Case]



## Bradley Periosteal Elevator

Designed by Gary W. Bradley, MD

PRODUCT NO'S:
4719 [1/2"] Overall Length: 11" (27,9 cm) Blade Width: .5" (13 mm)
4720 [3/4"] Overall Length: 11" (27,9 cm) Blade Width: .75" (19 mm)



SMALLER SIZE AVAILABLE



STYLE WITH TEETH AVAILABLE

## Cobb Elevators

*Two Sizes Available With or Without Teeth*

Ultra hard titanium nitride coating helps to extend blade life by increasing surface hardness, prolonging sharpness, and resisting chemicals and corrosion.

PRODUCT NO'S:	
WITH TEETH	WITHOUT TEETH
3432 [1/2" with Teeth] Overall Length: 11" (27,9 cm) Blade Width: 1/2" (13 mm)	3436 [1/2" without Teeth] Overall Length: 11" (27,9 cm) Blade Width: 1/2" (13 mm)
3434 [1" with Teeth] Overall Length: 11" (27,9 cm) Blade Width: 1" (25,4 mm)	3438 [1" without Teeth] Overall Length: 11" (27,9 cm) Blade Width: 1" (25,4 mm)



## Periosteal Elevator

*Designed for better control*

Designed with a curved end for easier use, and sharper sides for ease of elevating and stripping. The handle is designed for better control.



PRODUCT NO'S:
3450 [Curved] Overall Length: 7.5" (19,1 cm) Handle Length: 4.5" (11,4 cm) Blade Size: 16 x 13 mm
3455 [Straight] Overall Length: 7.75" (19,7 cm) Handle Length: 4.5" (11,4 cm) Blade Size: 19 x 14 mm



## Adson Forceps with Cobb Elevator End

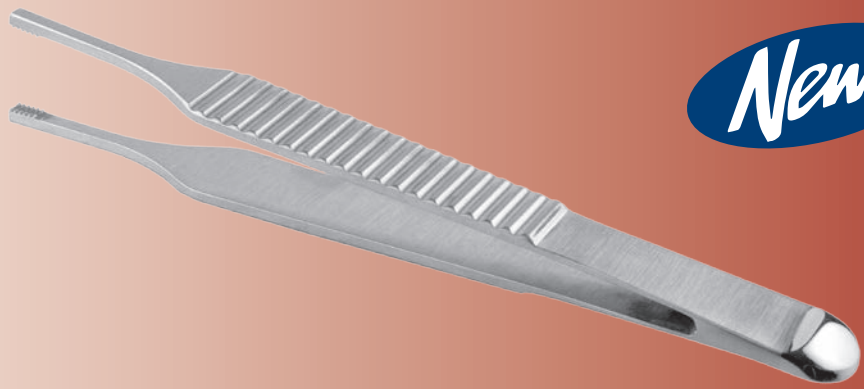
Designed by Oscar Castro-Aragon, MD

*Has the advantages of having a Cobb tip at the end of an Adson forceps*

Allows the opportunity to do soft tissue dissection, cleaning of the bone or bone fragments in a fracture, push bone fragments to hold a reduction in a fracture, separate soft tissue, and turn it around to pick up tissue without having to switch instruments back and forth.

**PRODUCT NO:**  
1166  
Overall Length: 4.75" (12,1 cm)  
Tip Width: 2.4 mm (2,4 mm)

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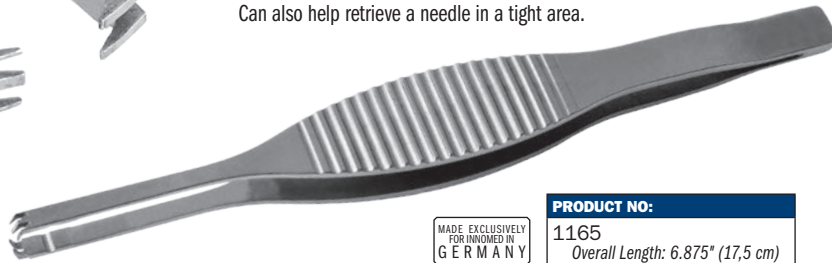
*New!*

## Charnley Type Tissue Needle Forceps

Designed by Amal Das Jr., MD

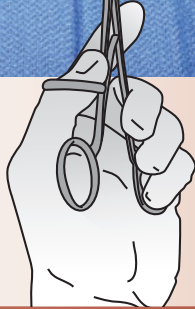
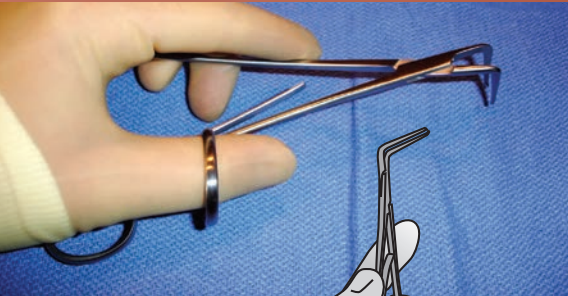
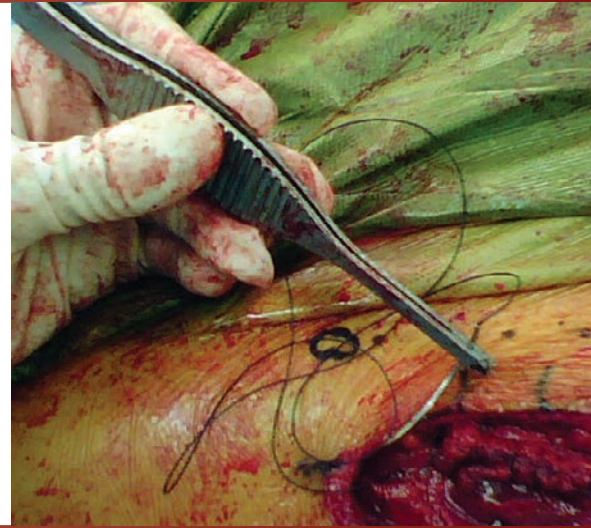
*Helpful for wound closure in deep areas with fascia under tension such as hip or knee replacement*

Can also help retrieve a needle in a tight area.



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**PRODUCT NO:**  
1165  
Overall Length: 6.875" (17,5 cm)



## Freeman Forceps

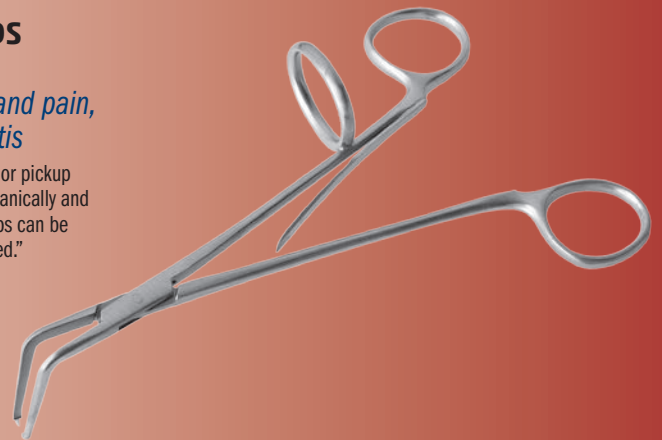
Designed by Carl R. Freeman, MD

*Designed to help with hand pain, fatigue, and hand arthritis*

Allows surgeons to utilize a forceps or pickup type instrument using a more mechanically and ergonomically favorable grip. Forceps can be used with a full-hand grip or "palmed."

**PRODUCT NO:**  
1174  
Overall Length: 6.875" (17,5 cm)

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GERMANY



## Long Bonney Tissue Forceps

*Extra length—3" more than standard—allows for use in deep wound areas*

**PRODUCT NO:**  
5040  
Overall Length: 10" (25,4 cm)

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GERMANY



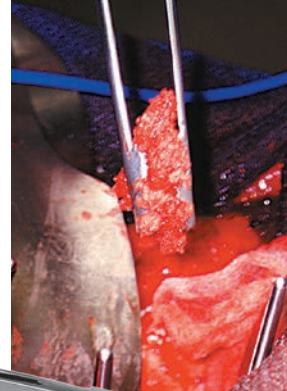
# Universal Bone Grafting/Impacting Forceps

Designed by J. A. Amis, MD

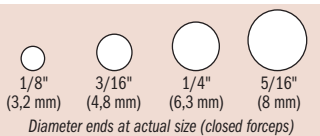
*Bone graft can be grasped, placed & impacted without changing hands or instruments*

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

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



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



Stainless  
Impactor Sizes



Delrin  
Impactor Sizes

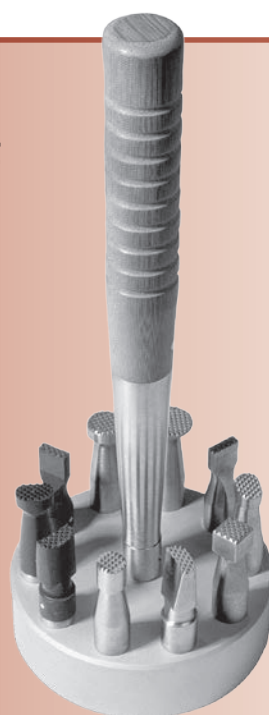


## Modular Impactor Set

*Makes multiple impactor heads easily visible and available*

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

**PRODUCT NO:**  
5370 [Complete Set]  
Overall Handle Length: 8" (20,3 cm)  
Grip Length: 4.5" (11,4 cm)  
Impactor Head Lengths: 1.45" (3,7 cm)  
Base Diameter: 3.5" (8,9 cm)



## Ortho Impactors

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





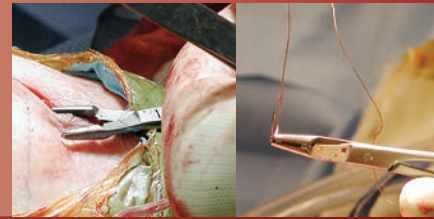
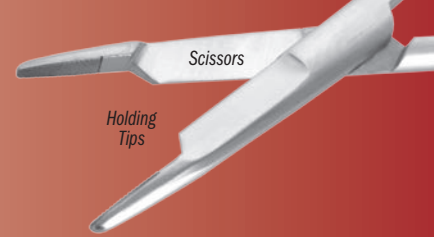
Longer sizes are helpful in orthopedics

## Orthopedic Needle Holder/Scissors

Drive a needle and cut a suture without changing instruments

PRODUCT NO'S:	
Standard Tips	Tungsten Carbide Tips
	3045 4.5" (11,4 cm)
3050 5.5" (14 cm)	3055 5.5" (14 cm)
3060 6.5" (16,5 cm)	3065 6.5" (16,5 cm)
3070 7.0" (17,8 cm)	3075 7.0" (17,8 cm)

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## Tissue Graspers with Shark Teeth

Designed by Luis Ulloa

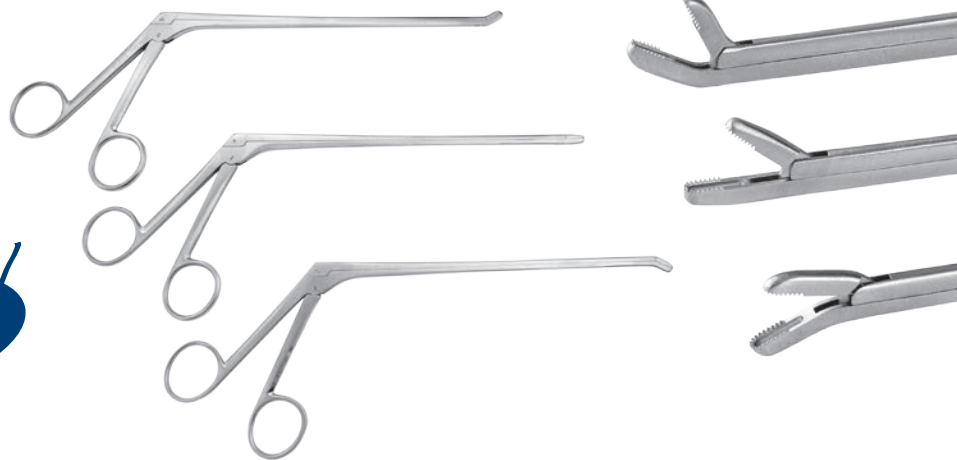
Shark teeth help to grasp on to tissue and bone

Shaft allows for use in narrow spaces.

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



**New!**



## Shark Tooth Grasper

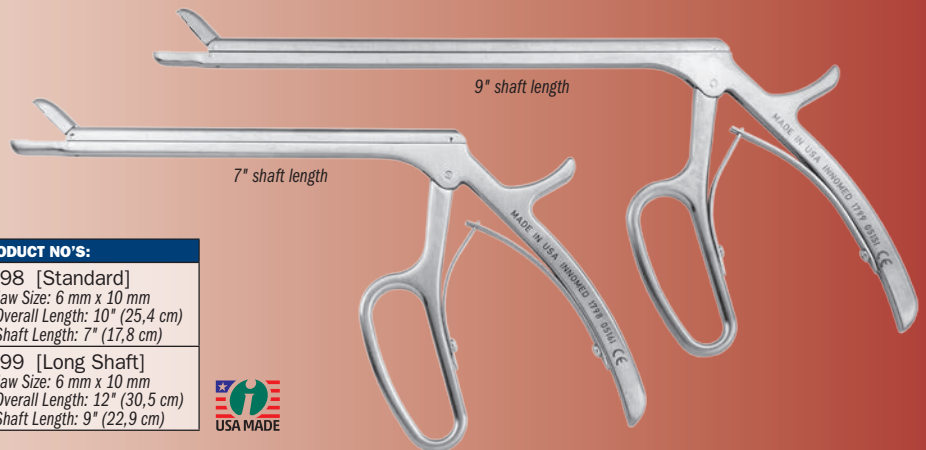
Designed by Luis Ulloa

Sharp teeth help grasp onto tissue and bone

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

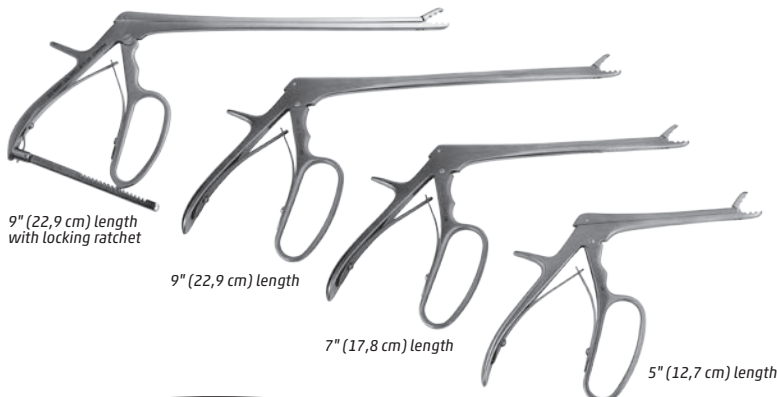


PRODUCT NO'S:
1798 [Standard] Jaw Size: 6 mm x 10 mm Overall Length: 10" (25,4 cm) Shaft Length: 7" (17,8 cm)
1799 [Long Shaft] Jaw Size: 6 mm x 10 mm Overall Length: 12" (30,5 cm) Shaft Length: 9" (22,9 cm)



## Intraarticular Tissue Grasper/Rongeur

Used to securely grasp tissue or can be used to rongeur tissue



9" (22,9 cm) length with locking ratchet

9" (22,9 cm) length

7" (17,8 cm) length

5" (12,7 cm) length

PRODUCT NO'S:
1790-01 [5"] Overall Length: 8" (20,3 cm) Shaft Length: 5" (12,7 cm)
1790-03 [7"] Overall Length: 10" (25,4 cm) Shaft Length: 7" (17,8 cm)
1790-02 [9"] Overall Length: 12" (30,5 cm) Shaft Length: 9" (22,9 cm)
1791-02 [9" w/Locking Ratchet] Overall Length: 12" (30,5 cm) Shaft Length: 9" (22,9 cm)





## Stanton Needle Driver

Designed by John L. Stanton, MD, FACS

*Allows a heavy cutting needle such as an OS-6 to be pushed through cancellous bone when re-attaching muscle or tendon*

The groove captures the outer (convex) side of the needle and prevents the needle from spinning even when applying significant pressure. Useful for reattaching the rotator cuff in rotator cuff repairs, as well as in attaching suture anchors.

**PRODUCT NO:**  
3042  
Overall Length: 6.75 (17,1 cm)  
Jaw Width: .25" (6,3 mm)

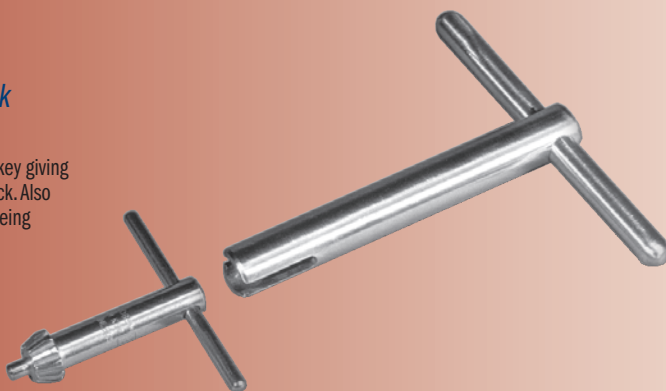


## Chuck Key Handle

*Snaps onto a standard chuck key for better leverage*

Designed to snap onto a standard chuck key giving better leverage during tightening of a chuck. Also helps keep a chuck key from slipping or being dropped during surgery.

**PRODUCT NO:**  
5560  
Overall Length: 4" (10,2 cm)  
Chuck Key Not Included

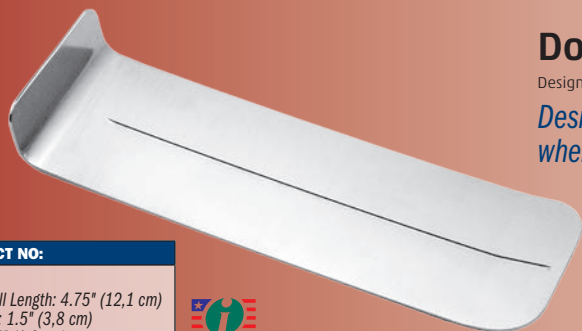


## Large Handle Chuck Key

*For easy tightening/untightening of a chuck*

Designed to allow a chuck to be tightened and untightened easily.

**PRODUCT NO:**  
5517-01  
Chuck Size: 1/4" (6,4 mm)  
Overall Length: 10.5" (26,7 cm)  
Handle Length: 4.5" (11,4 cm)



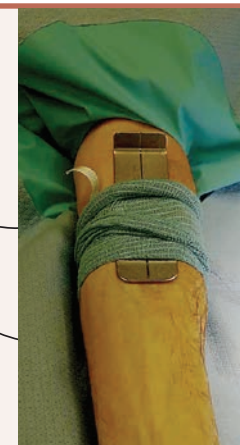
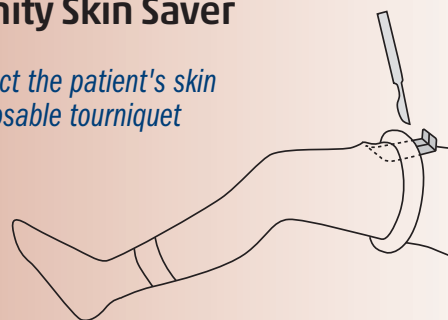
**PRODUCT NO:**  
8628  
Overall Length: 4.75" (12,1 cm)  
Width: 1.5" (3,8 cm)  
Lip: .5" (1,3 cm)



## Dodson Extremity Skin Saver

Designed by Mark A. Dodson, MD

*Designed to help protect the patient's skin when removing a disposable tourniquet*

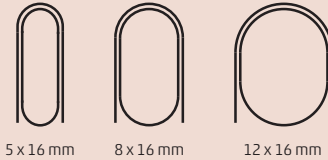




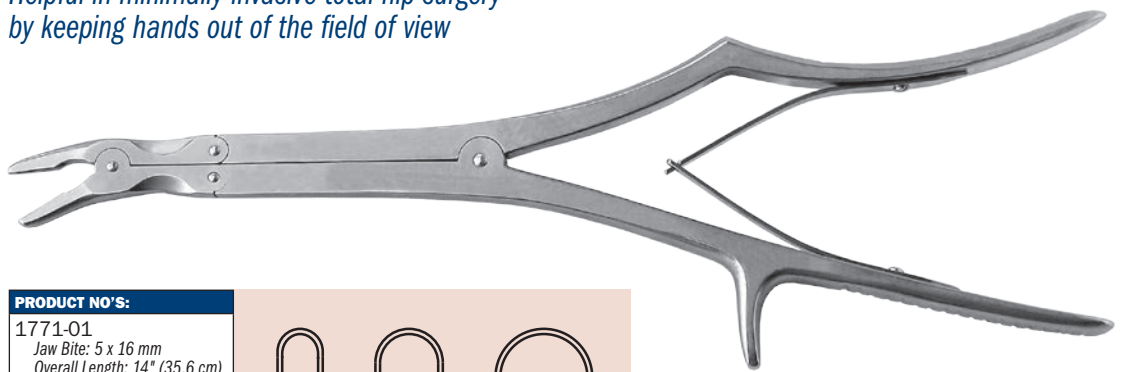
## Extra Long Rongeur

Helpful in minimally invasive total hip surgery by keeping hands out of the field of view

PRODUCT NO'S:	
1771-01	Jaw Bite: 5 x 16 mm Overall Length: 14" (35,6 cm)
1771-02	Jaw Bite: 8 x 16 mm Overall Length: 14" (35,6 cm)
1771-03	Jaw Bite: 12 x 16 mm Overall Length: 14" (35,6 cm)



MADE FOR INNOMED IN GERMANY

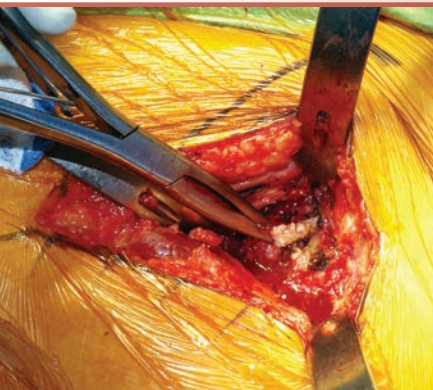


## Mazzara Pistol Grip Extra Long Rongeur

Designed by James T. Mazzara, MD

Pistol Grip handle lessens hand fatigue and slippage, and allows for better visualization

PRODUCT NO:
1768-02
Jaw Bite: 8 x 16 mm
Overall Length: 12.5" (31,8 cm)
Shaft-to-End Length: 6" (15,2 cm)



## Hannum Tissue Grasper




Designed by Scott Hannum, MD

Teeth in jaw firmly holds bone and tissue

Three jaw sizes available.

MADE EXCLUSIVELY FOR INNOMED IN GERMANY

Non-locking design can be easily gripped while allowing greater pressure to be applied. Used for dissection (to preserve)/or removal of the anterior capsule, removal of the labrum, or other soft tissue around the acetabulum prior to cup implantation. Also used to release the capsule to expose the femur for placement of the femoral stem. Long, low profile helps facilitate working through a small incision without disrupting vision. Three jaw sizes: short for holding bone, medium for smaller bones, and long for tissue.

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







Three Jaw Sizes Available



## Macko Square Tipped Rongeur

Designed by Victor W. Macko, MD

*Unique square tipped rongeur features an ergonomic grip, double action mechanism, long reach, and low profile for use in total knee, ankle, hip, and spine surgery*

When used for morcelizing bone graft, the shallow, wide jaw helps avoid impaction.

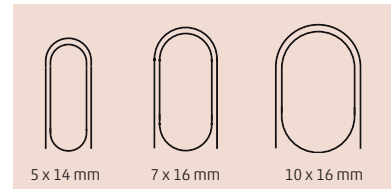
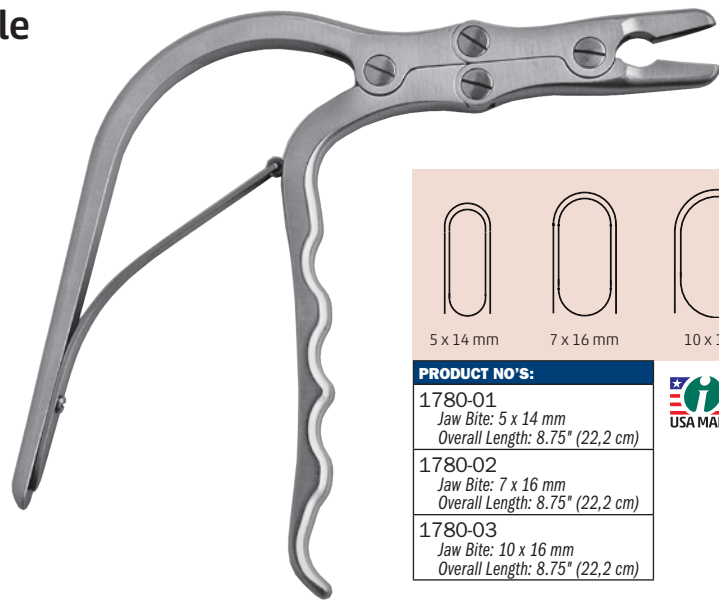
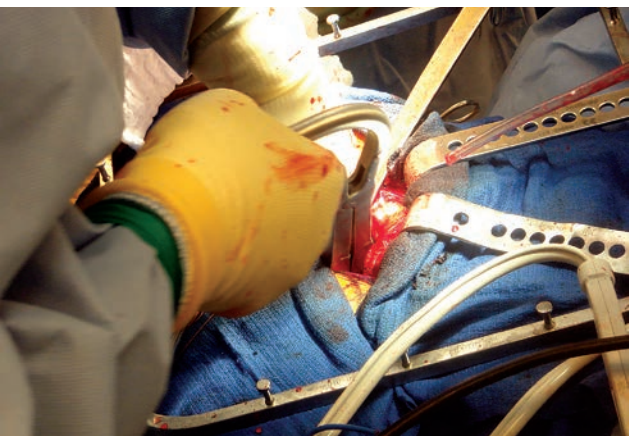
PRODUCT NO'S:	
1778-01	Jaw Bite: 5 x 18 mm Overall Length: 10" (25,4 cm)
1778-02	Jaw Bite: 7 x 18 mm Overall Length: 10" (25,4 cm)
1778-03	Jaw Bite: 10 x 18 mm Overall Length: 10" (25,4 cm)



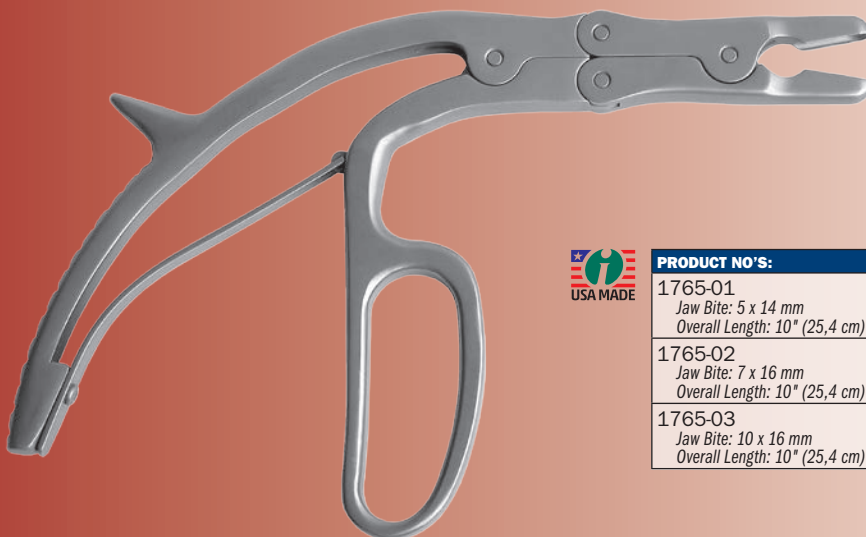
## Ortho Rongeur with Easy Grip Handle

*Offset handle lessens hand fatigue and slippage, and allows for better visualization*

Offset handle gives better gripping power and helps reduce hand fatigue. Finger grooves help to prevent hand slippage. The offset handle also allows for better visualization. Available in three jaw bite sizes.



PRODUCT NO'S:	
1780-01	Jaw Bite: 5 x 14 mm Overall Length: 8.75" (22,2 cm)
1780-02	Jaw Bite: 7 x 16 mm Overall Length: 8.75" (22,2 cm)
1780-03	Jaw Bite: 10 x 16 mm Overall Length: 8.75" (22,2 cm)

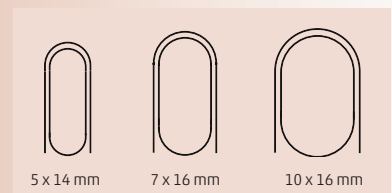


PRODUCT NO'S:	
1765-01	Jaw Bite: 5 x 14 mm Overall Length: 10" (25,4 cm)
1765-02	Jaw Bite: 7 x 16 mm Overall Length: 10" (25,4 cm)
1765-03	Jaw Bite: 10 x 16 mm Overall Length: 10" (25,4 cm)

## Mazzara Rongeur with Pistol Grip Handle

Designed by James T. Mazzara, MD

*Pistol Grip handle lessens hand fatigue and slippage, and allows for better visualization*



## Mini-lexer Osteotomes

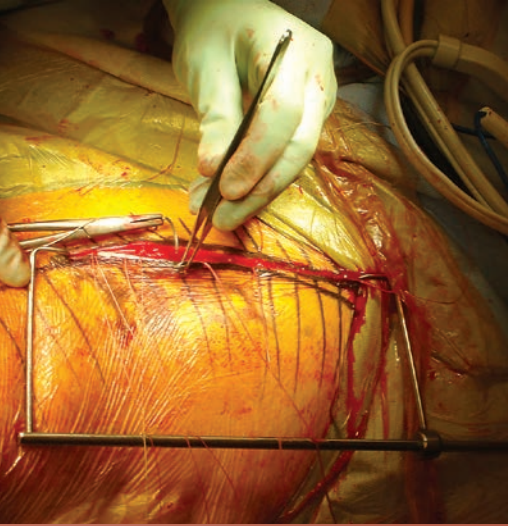
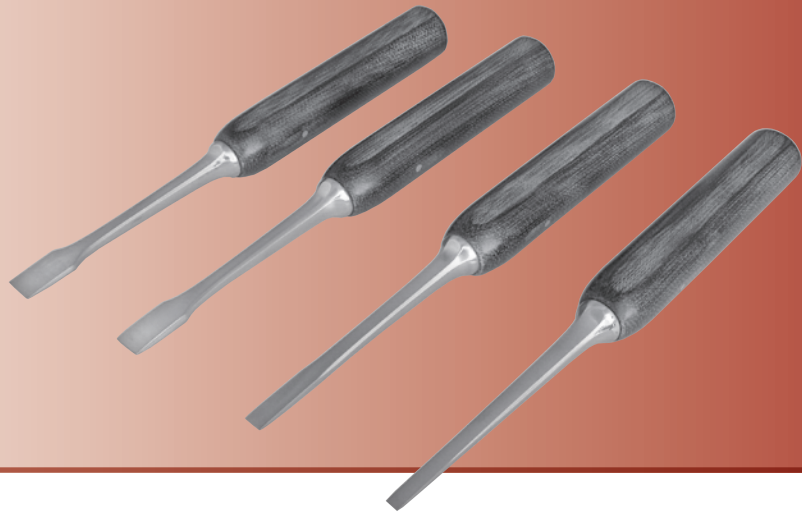
*Helpful in osteophyte and cement removal*

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

### PRODUCT NO'S:

5270-01 Blade Width: 4 mm Overall Length: 7.25" (18,4 cm) Handle Length: 4" (10,2 cm)	5270-03 Blade Width: 10 mm Overall Length: 7.25" (18,4 cm) Handle Length: 4" (10,2 cm)
5270-02 Blade Width: 6 mm Overall Length: 7.25" (18,4 cm) Handle Length: 4" (10,2 cm)	5270-04 Blade Width: 12 mm Overall Length: 7.25" (18,4 cm) Handle Length: 4" (10,2 cm)

MADE FOR INNOMED IN GERMANY



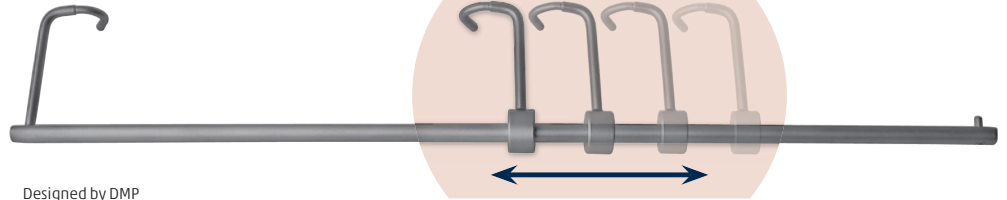
## Incision Aligner

*Designed to align an incision during closing*

The bent ends of the aligner are placed at each end of an incision, which is aligned by pulling outward on each end. The sliding end will lock in place when it is tensioned. Pressing inward slightly on the sliding end will allow the aligner to be collapsed and removed.

### PRODUCT NO:

1330  
Overall Length: 14" (35,6 cm)  
Blade Offset: 45 mm



Designed by DMP

## Ball Spike with Bell Handle

*Designed with a long shaft for use in deep wounds*

### PRODUCT NO:

8032  
Overall Length: 12" (30,5 cm)



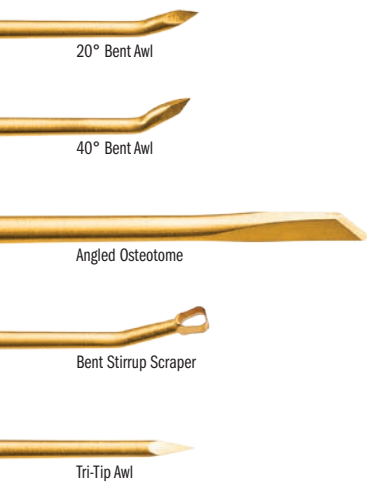
## Fracture Reduction Pick

*Used to align bone fragments, and to pick away tissue and bone fragments*

### PRODUCT NO:

S0129  
Overall Length: 6.25" (15,9 cm)





## Nordt Precision Micro Fracture Set

Designed by William E. Nordt, III, MD

- ▶ Helps create sharp cartilage shoulders
- ▶ Precise microfracture points

PRODUCT NO'S:	
8025-00	[Complete Set]
<b>Also available individually:</b>	
8025-01	[20° Bent Awl] Overall Length: 10" (25,4 cm)
8025-02	[40° Bent Awl] Overall Length: 10" (25,4 cm)
8025-03	[Angled Osteotome] Overall Length: 10.875" (27,6 cm)
8025-04	[Bent Stirrup Scraper] Overall Length: 10.125" (25,7 cm)
8025-05	[Tri-Tip Awl] Overall Length: 10" (25,4 cm)
8025-CASE	[Case]

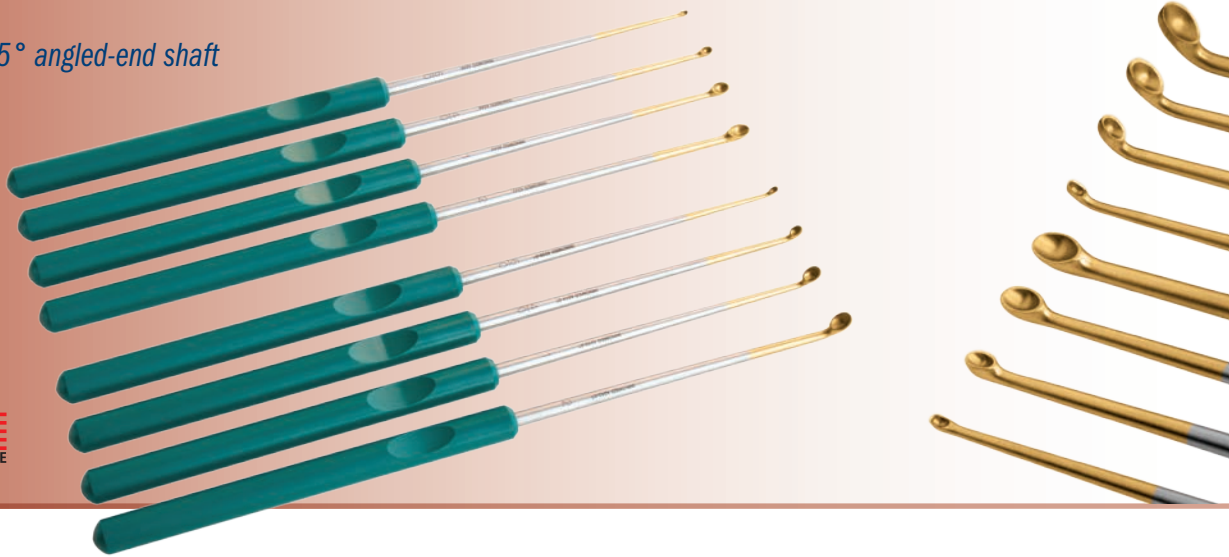
Ultra hard titanium nitride coating helps to extend life by increasing surface hardness, prolonging sharpness, and resisting chemicals and corrosion.



## Micro Curettes

Four cup sizes, straight or 45° angled-end shaft

PRODUCT NO'S:	
<b>Straight Micro Curettes</b>	
Overall Length: 9.75" (24,8 cm) Shaft Length: 4.5" (11,4 cm)	
4242	Cup Size 2
4240	Cup Size 1
4244	Cup Size 4/0
4246	Cup Size 6/0
<b>Angled Micro Curettes</b>	
Overall Length: 9.75" (24,8 cm) Shaft Length: 4.5" (11,4 cm)	
4242-01	Cup Size 2
4240-01	Cup Size 1
4244-01	Cup Size 4/0
4246-01	Cup Size 6/0



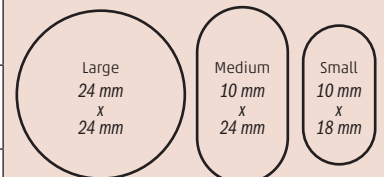
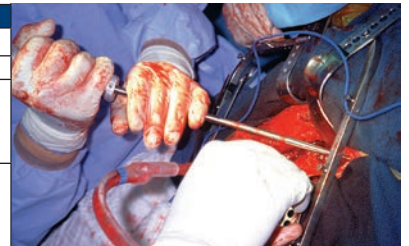
## Large Bone Curettes

Designed with a 5/16" (8 mm) diameter shaft allowing better visualization of the operative area

The contoured handle is designed to keep the curette from slipping in the surgeon's hand and for better control. The Angled Large Curette is designed for use in the acetabulum or exposed bone.



PRODUCT NO'S:	
5160	[Set of 1 each w/Case]
<b>Also sold individually:</b>	
5160-01	[Angled Small] Curette End: 10 mm X 18 mm Overall Length: 15" (38,1 cm) Handle Length: 4.5" (11,4 cm)
5160-02	[Straight Small] Curette End: 10 mm X 18 mm Overall Length: 15" (38,1 cm) Handle Length: 4.5" (11,4 cm)
5160-03	[Angled Medium] Curette End: 10 mm X 24 mm Overall Length: 15" (38,1 cm) Handle Length: 4.5" (11,4 cm)
5160-04	[Angled Large] Curette End: 24 mm X 24 mm Overall Length: 15" (38,1 cm) Handle Length: 4.5" (11,4 cm)
5160-05	[Straight Medium] Curette End: 10 mm X 24 mm Overall Length: 15" (38,1 cm) Handle Length: 4.5" (11,4 cm)

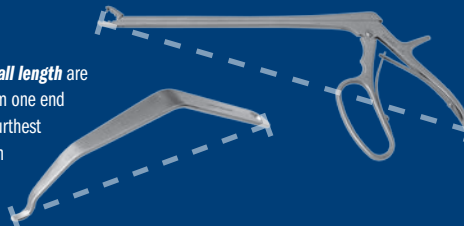


Curette Ends at Actual Size

## 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:



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## 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.

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10-16

#### PRODUCT NO'S:

8270-00 [Set with Case]

#### Also sold individually:

8270-2.0 [Locking Bone Screw – 2.0 mm]  
Overall Length: 1.7" (43 mm)

8270-2.7 [Locking Bone Screw – 2.7 mm]  
Overall Length: 1.7" (43 mm)

8270-3.5 [Locking Bone Screw – 3.5 mm]  
Overall Length: 1.94" (49 mm)

8270-4.5 [Locking Bone Screw – 4.5 mm]  
Overall Length: 1.94" (49 mm)

8270-HS [Hex Screwdriver]  
Overall Length: 5" (12,7 cm)

8270-CASE [Case]  
Dimensions: 6" x 4" x .8" (15,2 cm x 10,2 cm x 20,4 cm)

Set includes (2) of each size Locking Bone Screws,  
(1) Hex Screwdriver, and (1) Case.



**New!**

## Locking Bone Screw Assembly Set

*Designed to help temporarily hold a bone plate in position while screws are inserted*

