

Knee Primary & Revision

INSTRUMENTS



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plus a new instrument section
for hip, trauma, upper extremity, small bone, and spine

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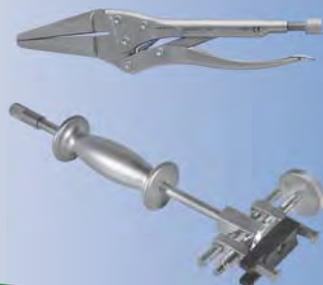


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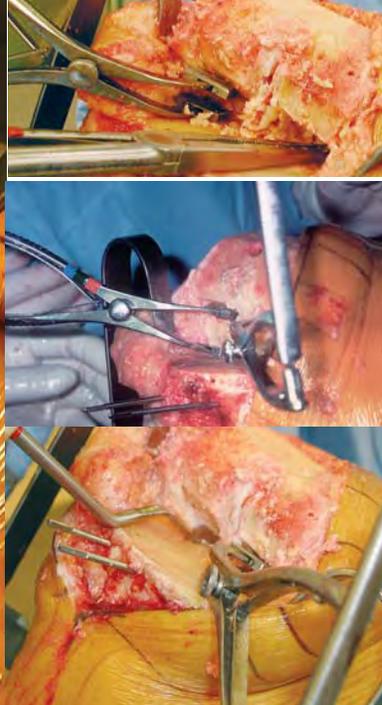
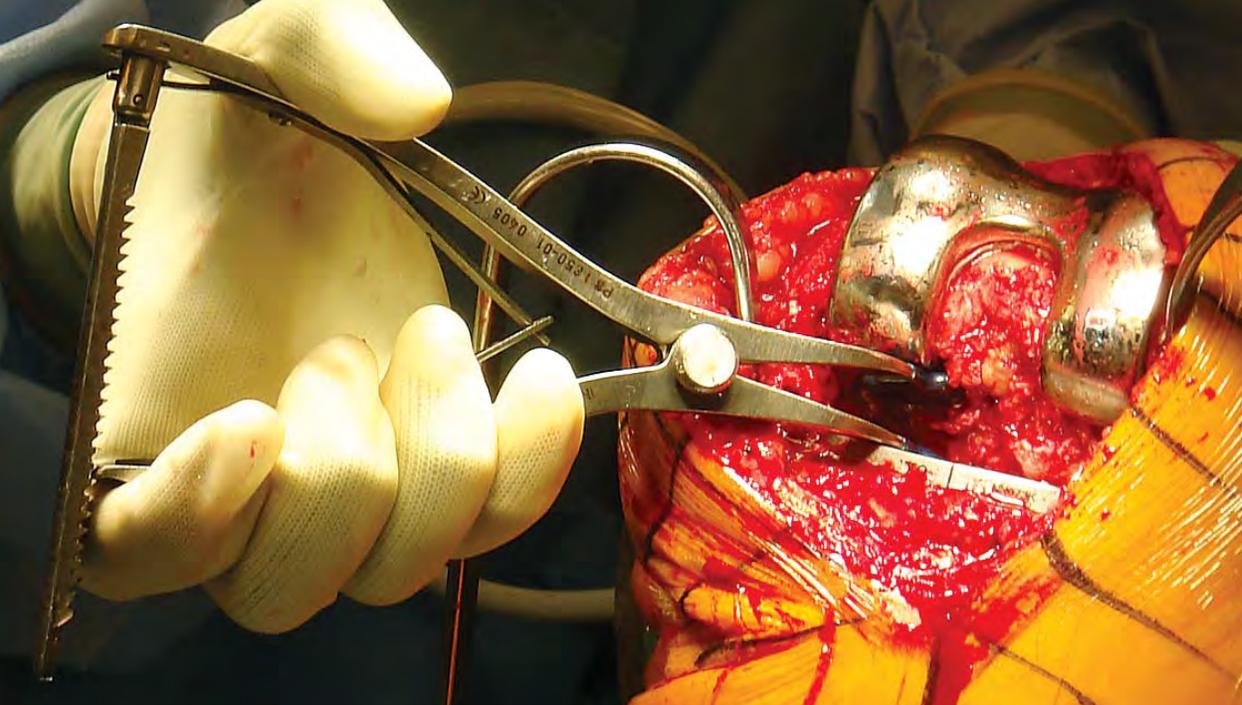


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Designed to remain in position, with the femur and tibia separated, without the need of an assistant, and to minimize crushing the bone, even if osteoporotic. A wide unobstructed view of the posterior compartment is possible. Osteophytes on the posterior condyles of the femur and tibia can be seen and removed. The calibrated handle of the spreader makes it possible for two spreaders to be used to assist the surgeon in balancing ligaments.

Calibrated Femoral Tibial Spreaders

Helps separate the femur and tibia during total knee replacement surgery

PRODUCT NO'S:	
Horizontal Grooved Pads	Diamond Cut Pads
1850 [Small] Overall Length: 7" (17,8cm) Pads: 23x12mm Opens to 39mm	1850-D [Small] Overall Length: 7" (17,8cm) Pads: 23x12mm Opens to 39mm
1855 [Medium] Overall Length: 10" (25,4cm) Pads: 23x14mm Opens to 50mm	1855-D [Medium] Overall Length: 10" (25,4cm) Pads: 23x14mm Opens to 50mm
1860 [Large] Overall Length: 12" (30,5cm) Pads: 25x16mm Opens to 65mm	1860-D [Large] Overall Length: 12" (30,5cm) Pads: 25x16mm Opens to 65mm

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PRODUCT NO'S:	
Coated Pads	
1850-01 [Small w/Coated Pads] Overall Length: 7" (17,8cm) Pads: 18x15mm Opens to 39mm	
Round Pads	
1865 [Small w/Round Pad] Overall Length: 7" (17,8cm) Pads: 25x25mm Opens to 39mm	
1866 [Medium w/Round Pads] Overall Length: 10" (25,4cm) Pads: 25x25mm Opens to 50mm	

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Coated pads help protect the component surfaces
The coated spreader is designed to separate the femur and tibia when implant components are in place. This is helpful in checking the back of the knee joint for cement, etc. The pads are coated to keep from scratching component surfaces and are slightly contoured to add stability against the curved articulating surfaces.

Calibrated Ortho Spreader without Teeth

In knee surgery, helps separate the femur and tibia during knee replacement procedures

Available with flat or serrated outside blades.

PRODUCT NO'S:	
Flat Outside Pads	Serrated Outside Pads
1842 [Small Flat] Overall Length: 6.5" (16,5cm) Blade Width: 7mm Blade Thickness: 1.68mm	1842-01 [Small Serrated] Overall Length: 6.5" (16,5cm) Blade Width: 7mm Blade Thickness: 1.68mm
1843 [Medium Flat] Overall Length: 9.25" (23,5cm) Blade Width: 10mm Blade Thickness: 1.68mm	1843-01 [Medium Serrated] Overall Length: 9.25" (23,5cm) Blade Width: 10mm Blade Thickness: 1.68mm

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- ▶ Can also be used for spine surgery where the calibrated ratchet is used to accurately measure the size of opening – useful in procedures to help assess bone graft needs
- ▶ Also used for foot & ankle surgery



Calibrated ratchet (in mm) is helpful in ligament balancing

Lombardi Gap Balancing Femoral Tibial Spreader

Designed to help separate the femur and tibia during total knee procedures, with the pads being parallel when measured at 20mm of separation

Designed by Adolph V. Lombardi Jr., MD



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The calibrated handle helps to accurately gauge the gap, and makes it possible for two spreaders to be used to assist in balancing ligaments.

PRODUCT NO'S:	
Horizontal Grooved Pads	
1878 [Large] Overall Length: 9.25" (23,5cm) Pads: 22mm x 13mm Opens to 50mm	
1877 [Small] Overall Length: 7" (17,8cm) Pads: 22mm x 13mm Opens to 35mm	
Diamond Cut Pads	
1878-D [Large] Overall Length: 9.25" (23,5cm) Pads: 22mm x 13mm Opens to 50mm	
1877-D [Small] Overall Length: 7" (17,8cm) Pads: 22mm x 13mm Opens to 35mm	



Lombardi Femoral Tibial Spreader

Designed by Adolph V. Lombardi Jr., MD



Thin pads help to separate the femur and tibia during total knee procedures

PRODUCT NO'S:	
Horizontal Grooved Pads	
1875 [Large] Overall Length: 9.25" (23,5cm) Pads: 22mm x 13mm Opens to 50mm	
1876 [Small] Overall Length: 7" (17,8cm) Pads: 22mm x 13mm Opens to 35mm	
Diamond Cut Pads	
1875-D [Large] Overall Length: 9.25" (23,5cm) Pads: 22mm x 13mm Opens to 50mm	
1876-D [Small] Overall Length: 7" (17,8cm) Pads: 22mm x 13mm Opens to 35mm	

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NEW



Femoral Tibial Spreader with Speed Lock

Designed by Nasim A. Rana, MD

Helps separate the femur and tibia during total knee replacement surgery

PRODUCT NO:
1855-SL [Speed Lock]
Overall Length: 10" (25,4cm)
Pads: 23x14mm
Opens to 50mm

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Scott Femoral Tibial Tensor/Spreaders Patent Pending

Used before determining femoral component rotation to help properly tense the medial and lateral ligaments and help assure a stable, balanced flexion gap

Designed by Richard Scott, MD

Four Pad Configurations Available

Narrow Fixed Pads

Original with narrow pads, designed to be used before making the femoral and tibial cuts

Wide Fixed Pads

Three new wide pad styles, designed for use after the cuts have been made

Wide Block Pads

Round Pads

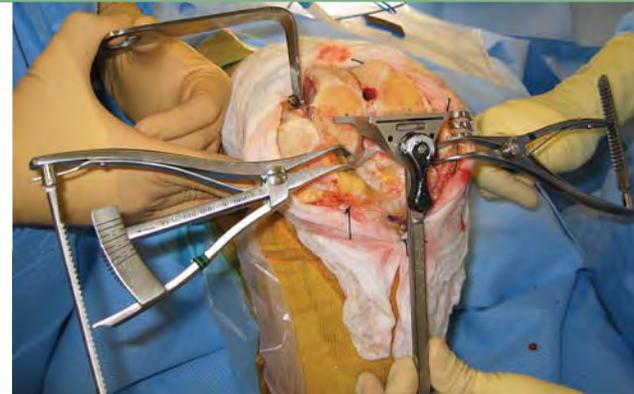
PRODUCT NO'S:	
1995 [Narrow Fixed Pads]	Overall Length: 7" (17,8cm) Blade Width: 7mm Opens to: 40mm
1996 [Wide Fixed Pads]	Overall Length: 7" (17,8cm) Pads: 22mm x 13mm Opens to: 40mm
1997 [Wide Block Pads]	Overall Length: 7" (17,8cm) Pads: 23mm x 12mm Opens to: 40mm
1998 [Round Pads]	Overall Length: 7" (17,8cm) Pads: 25mm x 25mm Opens to: 40mm



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Surgical Technique Available on DVD

*Pad Modification designed by Raymond H. Kim, MD

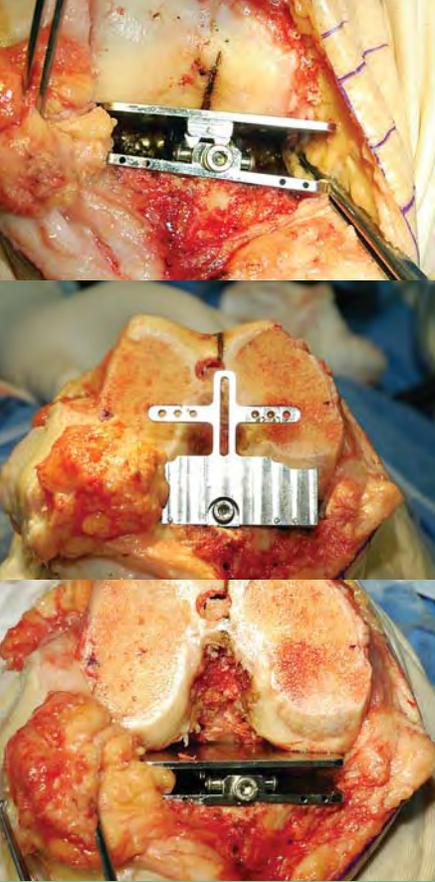


An important part of surgical technique during total knee arthroplasty is the establishment of a symmetric balanced flexion gap. This can be achieved by tensing the medial and lateral ligaments with laminar spreaders and rotating the femoral component until a rectangular space is formed. The calibrated Tensor/Spreader allows the surgeon to choose a reproducible amount of tension across the medial or lateral flexion space.

In the varus knee, any medial release necessary to balance the knee in extension is performed first. In the valgus knee, the flexion gap can be balanced before the extension gap if the lateral retinaculum (not the lateral collateral ligament) is all that needs releasing to correct the deformity.

The spreader can be used before or after tibial preparation and also during revision surgery after a well-aligned tibial platform has been established.

The knee is flexed 90 degrees. Any medial retractor is removed. The medial gap is tensed with a plain or calibrated laminar spreader that is opened until the medial collateral ligament is fully tensed. The calibrated tensor is applied laterally and opened to the desired tension on the indicator. The femoral component is rotated until a rectangular gap is formed based off the tibial cut or an external tibial alignment device (if the tibial resection has not yet been performed).



Kaufman Gap Jack Assembly

Designed by Basil Kaufman, MD

Designed for tensioning and balancing ligaments during total knee arthroplasty

- ▶ Both compartments are simultaneously but independently tensioned by the same device
- ▶ Allows for determination of femoral rotation
- ▶ Can be used with the patella reduced, so that any lateral tightness caused by the everted patella is eliminated
- ▶ Release can be performed with the device in situ



Hex Driver and Sterilization Case Included

PRODUCT NO'S:

1212-00 [Jack Assembly with Hex Driver and Case]

Jack Paddles: 60mm x 50mm

Jack Rise: From 12mm to 24mm

Jig: 60mm x 50mm

Individual/Replacement Parts:

1212-01 [Jack Assembly Only]

1212-02 [Hex Driver]

Overall Length: 6.875" (17,5cm)

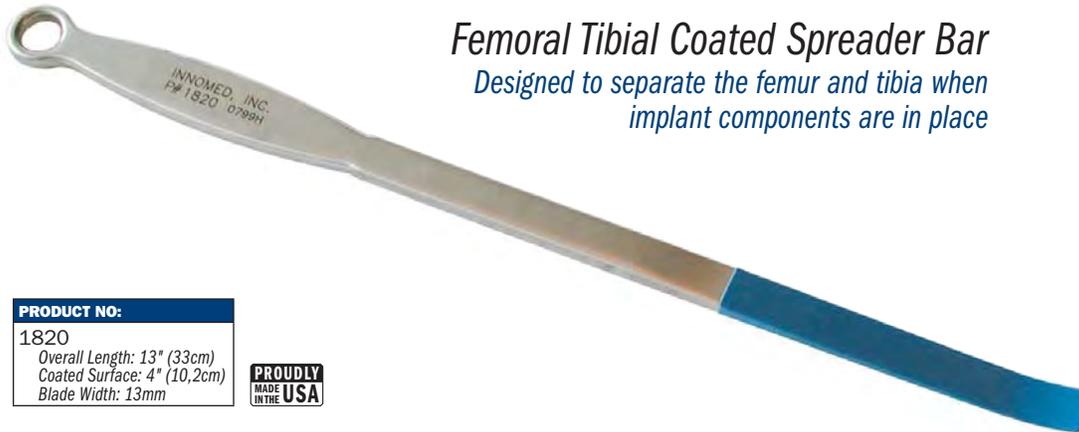
Handle Length: 3.875" (9,8cm)

Hex Length: 7mm



Femoral Tibial Coated Spreader Bar

Designed to separate the femur and tibia when implant components are in place



PRODUCT NO:

1820

Overall Length: 13" (33cm)

Coated Surface: 4" (10,2cm)

Blade Width: 13mm



The end is coated to help protect from scratching component surfaces.



Beyer Wedges

Designed by Craig A. Beyer, MD

Can be used during total knee surgery as a retractor or for assessing intraoperative soft tissue balance, or can be used in same-size pairs to assess flexion/extension balance

Made of delrin to prevent from scratching implant surfaces. Wider sizes also useful in revision knee surgery.



PRODUCT NO'S:

1204-08 [8mm]

Overall Length: 5.5" (14cm)

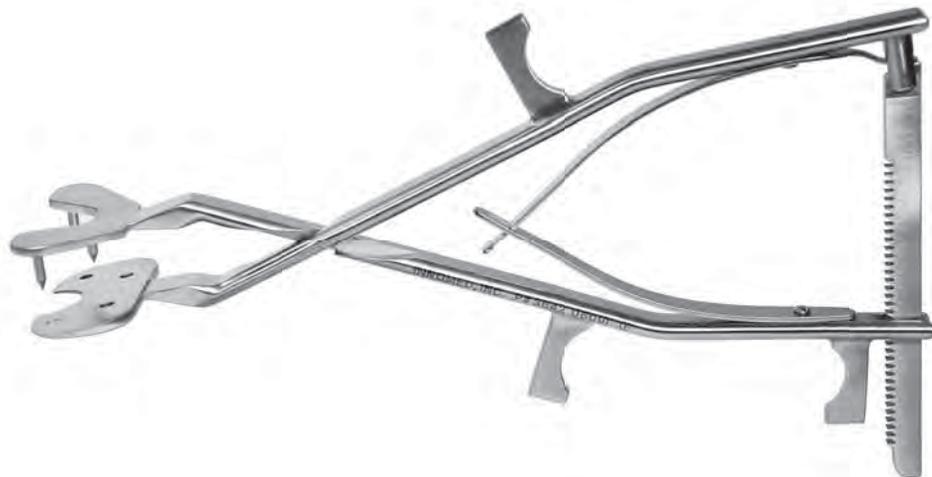
1204-12 [12mm]

Overall Length: 5.5" (14cm)

1204-16 [16mm]

Overall Length: 5.5" (14cm)





Andrews Modified Tibial Wedge Clamp

Designed by Scott Andrews, MD and Kuldeep Sidhu, MD

Designed to help remove the cut tibial bone during total knee procedures

The bone is held by the spikes which helps it to come out in one piece, and also helps with release of soft tissues from the bone.

PRODUCT NO:
3642
Overall Length: 10.25" (26cm)
Pads: 60mm x 30mm
Front Spike Length: 14mm
Back Spike Length: 7.5mm



Sidhu Tibia Clamp

Designed by Kuldeep Sidhu, MD

Designed to be used to securely grasp and remove an entire tibial wedge

The tapered lower pad slides under the cut tibial wedge without first having to use wedges, then, clamping allows the spikes in the upper pad to securely grasp the entire tibial wedge for easy removal.

PRODUCT NO:
3643
Overall Length: 10.25" (26cm)
Pads: 60mm x 30mm
Spike Length: 7.5mm

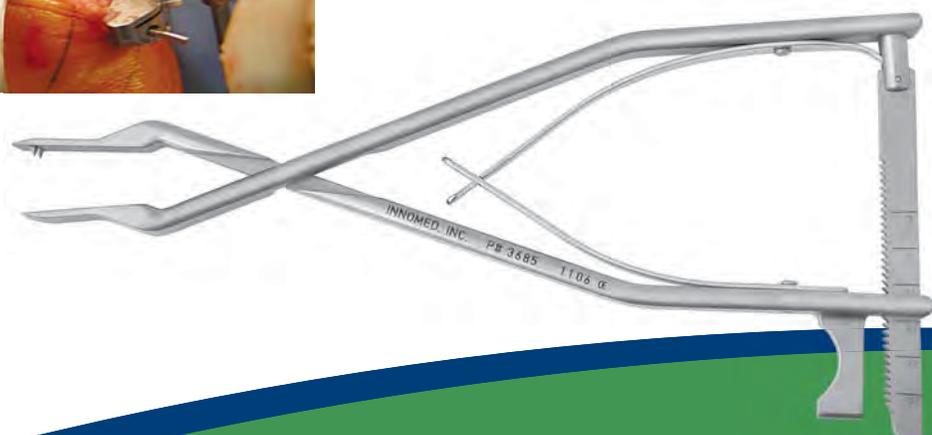


Fracchia Calibrated Tibia/Patella Clamp

Designed by Michael J. Fracchia, MD & S. David Stulberg, MD

Designed to be used to remove a tibia wedge, helps in everting the patella, and calibrations help in measuring the thickness of the patella and tibia wedges

PRODUCT NO:
3645
Overall Length: 10" (25,4cm)
Calibrations: 0 to 26mm



Universal Calibrated Tibia/Patella Clamp

Designed by S. David Stulberg, MD

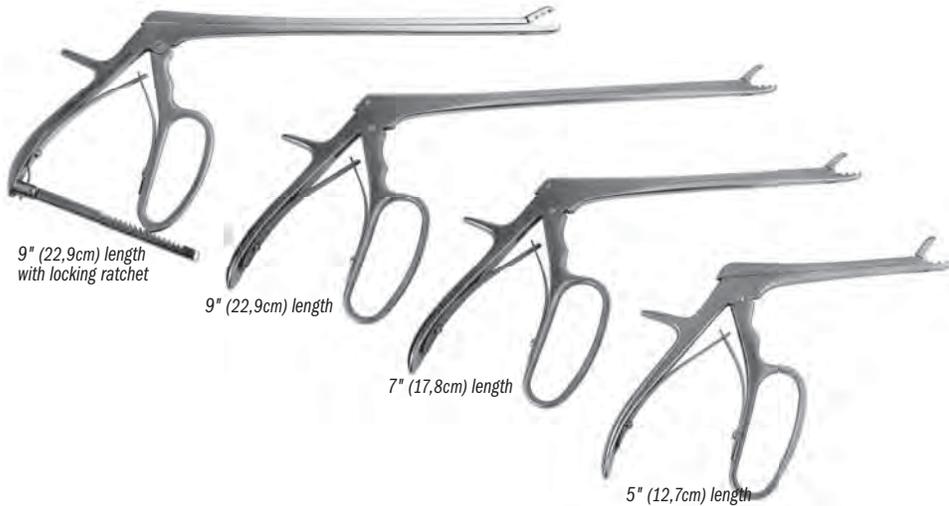
Designed to be used to remove a tibia wedge, helps in everting the patella, and calibrations help in measuring the thickness of the patella and tibia wedges

PRODUCT NO:
3685
Overall Length: 10" (25,4cm)
Calibrations: 0 to 26mm



Intraarticular Tissue Grasper/Rongeur

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



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

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Sure Grip Soft Tissue Grasper

Designed by Andrew Glassman, MD

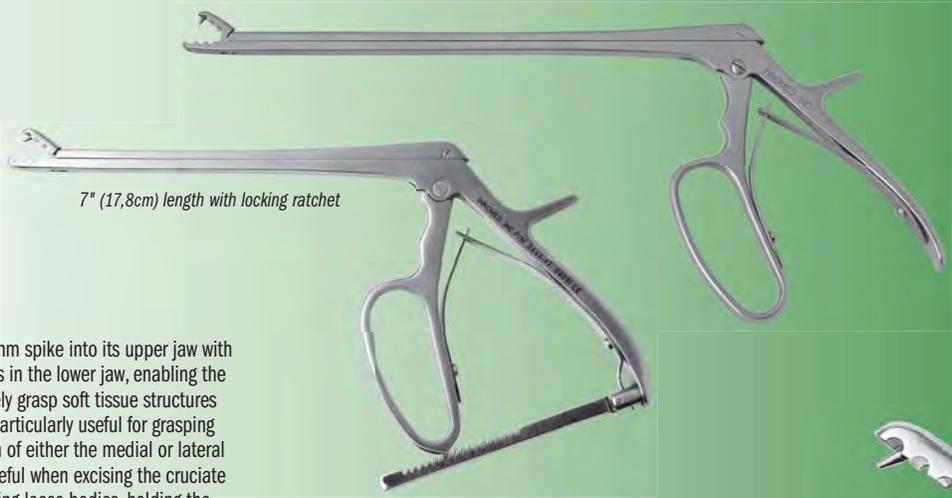
Enables the surgeon to securely grasp soft tissue structures within the knee

Available in 5", 7" and 9" lengths.

PRODUCT NO'S:
3645-01 [5"] Overall Length: 8" (20,3cm) Shaft Length: 5" (12,7cm) Spike Depth: 3mm
3645-02 [7"] Overall Length: 10" (25,4cm) Shaft Length: 7" (17,8cm) Spike Depth: 3mm
3646-02 [7" w/Locking Ratchet] Overall Length: 10" (25,4cm) Shaft Length: 7" (17,8cm) Spike Depth: 3mm
3645-03 [9"] Overall Length: 12" (30,5cm) Shaft Length: 9" (22,9cm) Spike Depth: 3mm

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Incorporates a 3mm spike into its upper jaw with a matching recess in the lower jaw, enabling the surgeon to securely grasp soft tissue structures within the knee. Particularly useful for grasping the posterior horn of either the medial or lateral meniscus. Also useful when excising the cruciate ligaments, capturing loose bodies, holding the retinaculum during patellar preparation, and grasping the capsule during wound culture.

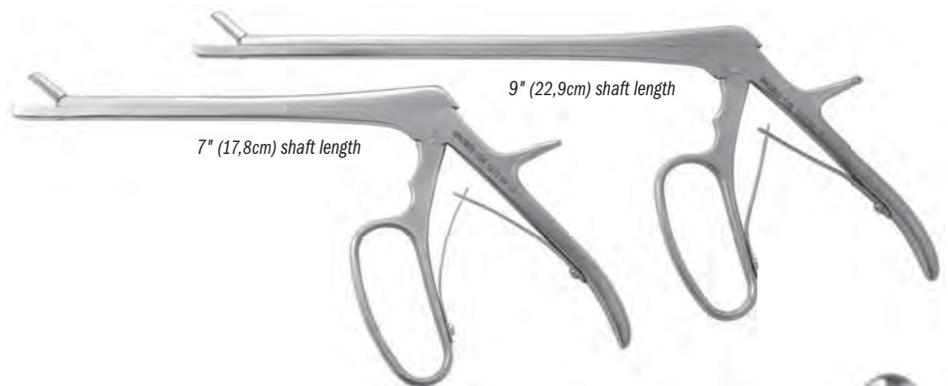


Shark Tooth Grasper

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:	
1798 [Standard] Jaw Size: 6mm x 10mm Overall Length: 10" (25,4cm) Shaft Length: 7" (17,8cm)	1799 [Long Shaft] Jaw Size: 6mm x 10mm Overall Length: 12" (30,5cm) Shaft Length: 9" (22,9cm)

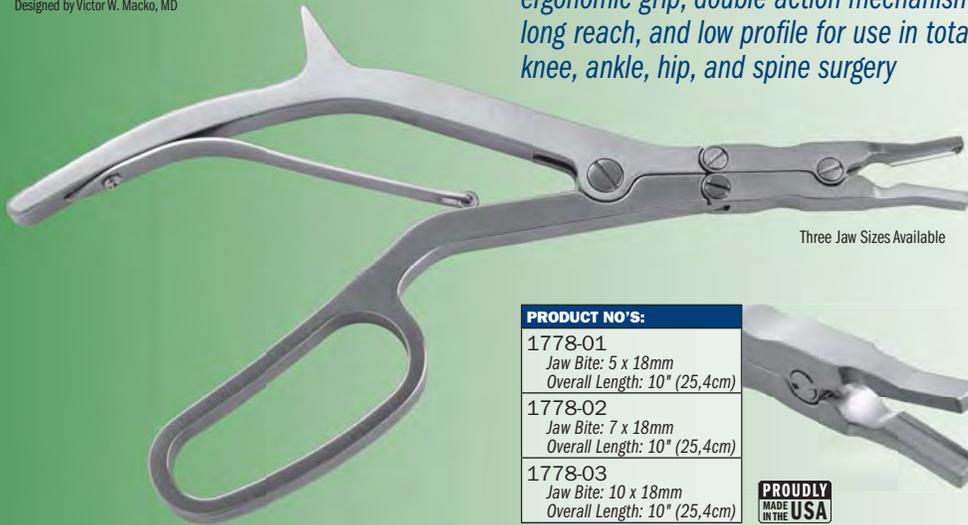
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Macko Square Tipped Rongeur

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



Three Jaw Sizes Available

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

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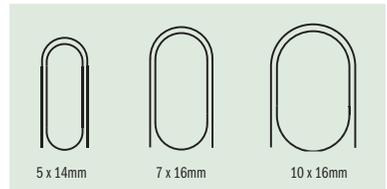


When used for morcelizing bone graft, the shallow, wide jaw helps avoid impaction.

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 14mm Overall Length: 8.75" (22,2cm)
1780-02	Jaw Bite: 7 x 16mm Overall Length: 8.75" (22,2cm)
1780-03	Jaw Bite: 10 x 16mm Overall Length: 8.75" (22,2cm)

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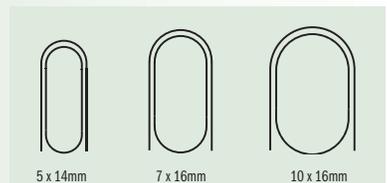
PRODUCT NO'S:	
1765-01	Jaw Bite: 5 x 14mm Overall Length: 10" (25,4cm)
1765-02	Jaw Bite: 7 x 16mm Overall Length: 10" (25,4cm)
1765-03	Jaw Bite: 10 x 16mm Overall Length: 10" (25,4cm)

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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



Cartilage Graspers

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

Longer 8" (20,3cm) shaft allows for use in narrow spaces.

Long 6" (15,2cm) shaft allows for use in narrow spaces.

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

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PRODUCT NO:
1779 [Shark Teeth]
Shaft Length: 8" (20,3cm)
Overall Length: 11.25" (28,6cm)

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Design modification by
Michael Soudry, MD

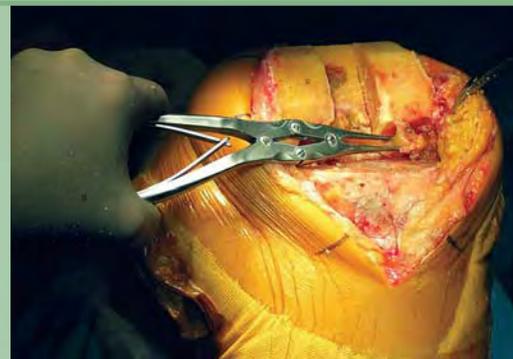
Lotke Double Action Cartilage Graspers

Designed by Paul Lotke, MD

Double action strength helps to securely hold soft tissues

PRODUCT NO'S:
1710 [Standard]
Overall Length: 7.5" (19,1cm)
1715 [Ratcheted]
Overall Length: 7.5" (19,1cm)

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Angled to simulate the pinch forceps position. Ferris-Smith tips effectively hold soft tissues or needles. Powergrip avoids fatigue or excessive forces on the surgeons thumbs.

Hannum Tissue Grasper

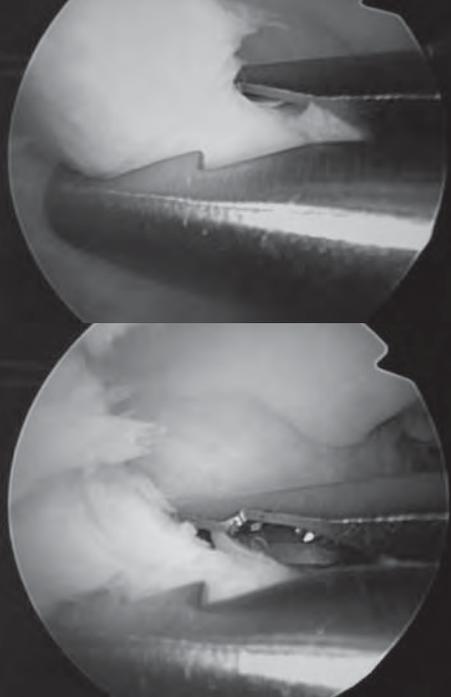
Designed by Scott Hannum, MD

Teeth in jaw firmly holds bone and tissue

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

Three
Jaw Sizes
Available

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



Soudry Loose Body Grasper

Designed by Michael Soudry, MD

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

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

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NEW



Bhargava Modified Meniscal Clamp

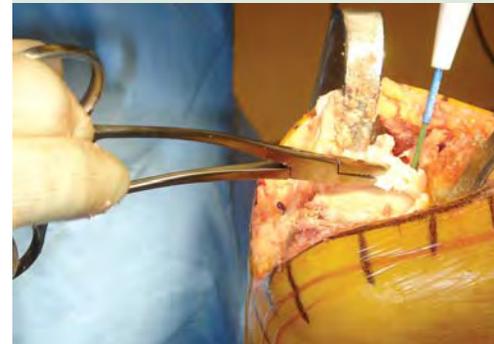
Designed by Tarun Bhargava, MD

Low-profile design helps facilitate grasping the posterior portion of the meniscus

Improved bite when tension is placed on the meniscus.
Can also be used to help remove the fat pad and suprapatellar bursa.

PRODUCT NO:
1886
Overall Length: 7" (17,8cm)
Jaw Length: 1.125" (2,9cm)

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Meniscal Clamp

Redesigned clamp is curved for easier use, visualization, and tissue holding

PRODUCT NO:
1883
Overall Length: 7" (17,8cm)
Teeth Length: .082" (2mm)
Jaw Length: 1.5" (3,8cm)

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Scott Patella Resection Guide/Clamp

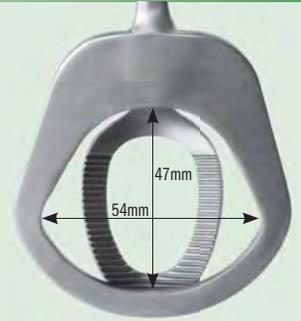
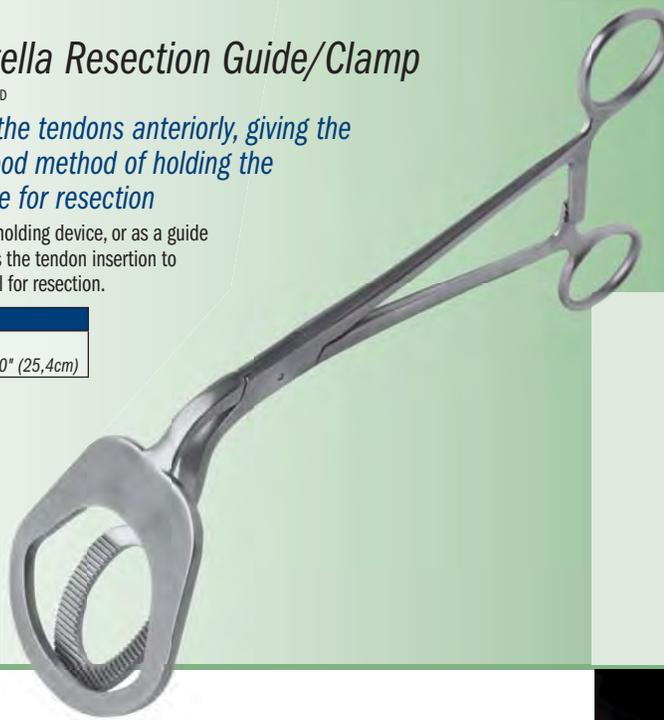
Designed by James Scott, MD

Helps move the tendons anteriorly, giving the surgeon a good method of holding the patella stable for resection

Can be used as a holding device, or as a guide if the surgeon uses the tendon insertion to the patella as level for resection.

PRODUCT NO:
1164
Overall Length: 10" (25,4cm)

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Patella Grasping Forceps

Designed by S. David Stulberg, MD

Bent handle on forceps helps the surgeon to evert the patella during minimally invasive knee surgery



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PRODUCT NO:
4250
Overall Length: 6.75" (17,1cm)



Normally two forceps are used (sold individually)



Patella Cover Plate

Designed by S. David Stulberg, MD

Protects the cut surface of the patella during minimally invasive knee surgery

Sharp spikes help hold the plates in place. Lessens the chance of weakening the patella, as pre-drilling is not necessary.

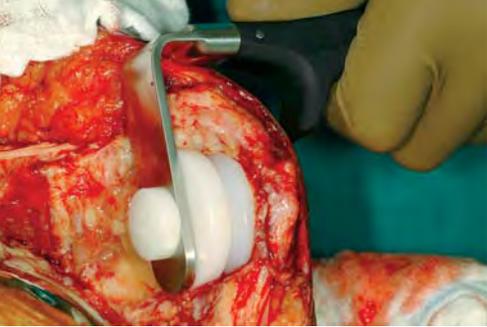
PRODUCT NO'S:	
4230-00	[Set of 4 Sizes]
4230-01	[Small] 35mm x 31mm
4230-02	[Medium] 36mm x 32mm
4230-03	[Large] 37mm x 33mm
4230-04	[Extra Large] 38mm x 34mm

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Flat topside, with three small spikes underneath





PRODUCT NO:
3235
Overall Length: 6.5" (16.5cm)
Patella Pad Diameter: 1.5" (3.8cm)
Patella Pad Thickness: .25" (6.3mm)



Lachiewicz-Hoover Patella Retractor

Designed By Paul Lachiewicz, MD & Steve Hoover, MD

Helps prevent harm to the polyethylene implant from scratches, gouges, and bovie cautery during debridement and removal of other components

In primary TKA, it is used after implantation of components so the surgeon can debride the lateral gutter of synovium and for exposure for hemostasis laterally. Also extremely valuable for revisions in which a well fixed patella component is to be retained.

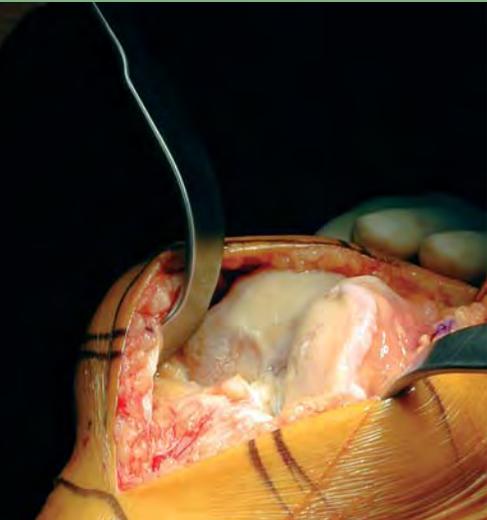
AORI Patellar Retractor

Designed by Gerard A. Engh, MD

Designed to enhance exposure during total knee arthroplasty

The patellar retractor has a deep basket and two rows of teeth to grab and hold to the lateral side of the patella. The curved handle provides a fulcrum so that the applied force will both displace and evert the patella from the femur. The patellar retractor is placed after a routine midline, midvastus, or medial para patellar surgical approach to the knee. Once the patella is everted the patellar retractor is applied to the lateral border of the patella.

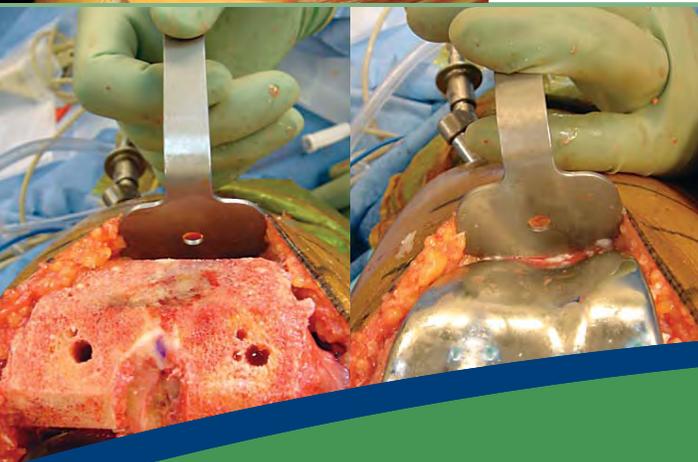
PRODUCT NO:
4690
Overall Length: 7" (17.8cm)
Prong Width: 10mm | 22mm Gap | 10mm



MIS Patella Retractor

Designed by William Robb, MD

PRODUCT NO:
3220-05
Overall Length: 9" (22.9cm)
Patella Pad Width at Widest: 22 mm
Lower Blade Width at Widest: 16 mm



Anterior Femoral Condylar Retractor

Designed by S. David Stulberg, MD

PRODUCT NO:
3405
Overall Length: 5" (12.7cm)
Blade Width at Widest: 45mm



Eng Intercondylar Notch Retractors

Designed by Gerard A. Eng, MD

Enhances minimally invasive exposure of the medial femoral condyle

PRODUCT NO'S:	
3230-01 [Small]	Blade Width at Teeth: 9mm Depth from Bend: 2.25" (5,7cm) Overall Length: 8.125" (20,6cm)
3230-02 [Medium]	Blade Width at Teeth: 10mm Depth from Bend: 2.25" (5,7cm) Overall Length: 8.125" (20,6cm)
3230-03 [Large]	Blade Width at Teeth: 12mm Depth from Bend: 2.25" (5,7cm) Overall Length: 8.125" (20,6cm)



Used for unicondylar arthroplasty



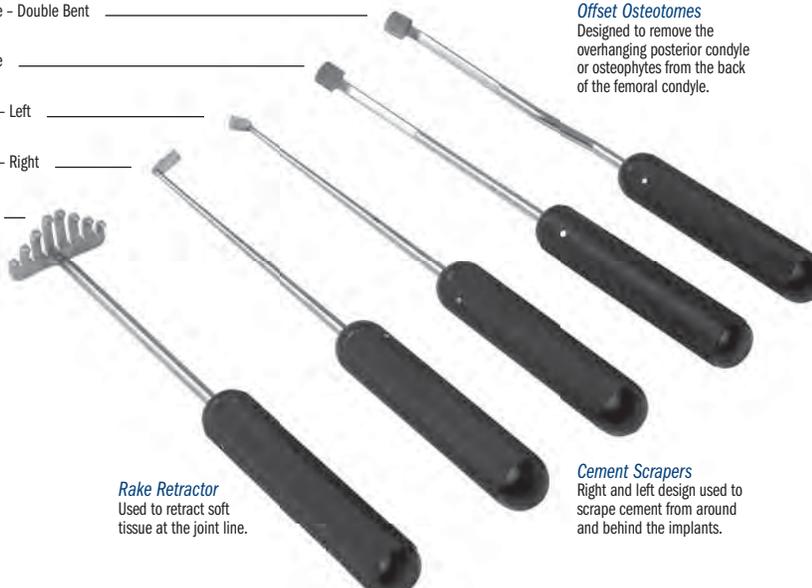
Offset Osteotome - Double Bent

Offset Osteotome

Cement Scraper - Left

Cement Scraper - Right

Rake Retractor



Rake Retractor
Used to retract soft tissue at the joint line.

Offset Osteotomes
Designed to remove the overhanging posterior condyle or osteophytes from the back of the femoral condyle.

Cement Scrapers
Right and left design used to scrape cement from around and behind the implants.

Eng Unicondylar Minimally Invasive Knee Surgery Instruments

Designed by Gerard A. Eng, MD

Designed for use in unicondylar minimally invasive knee surgery

PRODUCT NO'S:	
4910 [Rake Retractor]	Rake Head: 38mm x 25mm Overall Length: 7.5" (19,1cm)
4920-01 [Cement Scraper - Right]	Scraper Head: 5mm x 9mm Overall Length: 8.5" (21,6cm)
4920-02 [Cement Scraper - Left]	Scraper Head: 5mm x 9mm Overall Length: 8.5" (21,6cm)
4930-01 [Offset Osteotome]	Osteotome Head: 10mm x 10mm Overall Length: 8.5" (21,6cm)
4930-02 [Offset Osteotome - Double Bent]	Osteotome Head: 10mm x 10mm Overall Length: 8.5" (21,6cm)

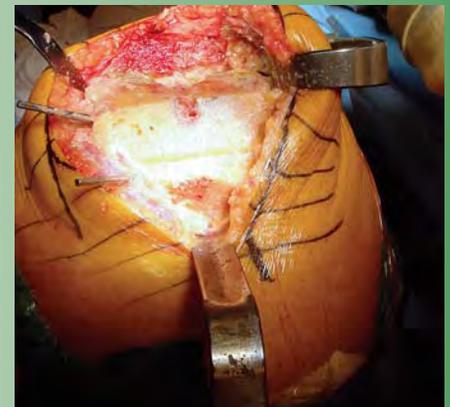
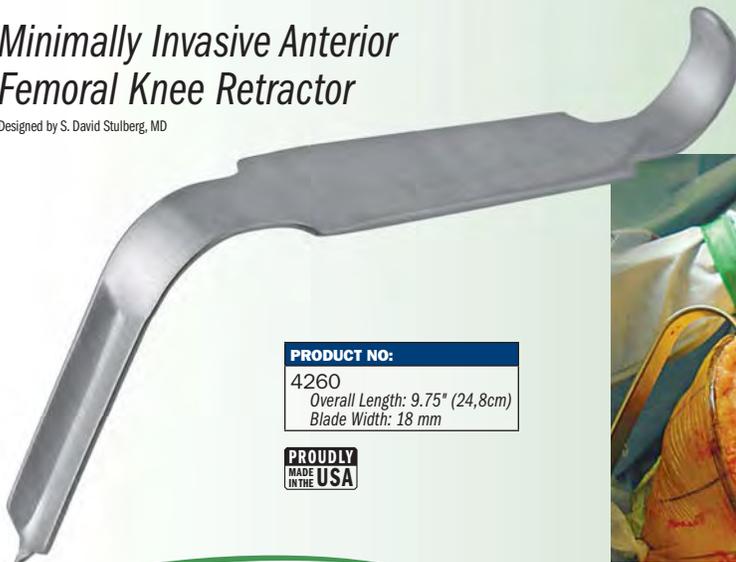


Minimally Invasive Anterior Femoral Knee Retractor

Designed by S. David Stulberg, MD

Narrow blade with rounded edges helps lessen pressure on soft tissue during minimally invasive knee surgery

PRODUCT NO:
4260 Overall Length: 9.75" (24,8cm) Blade Width: 18 mm



Goytia Stackable Hohmann Retractors

Designed by Robin N. Goytia, MD

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



PRODUCT NO.'S:	
Sold in pairs: each item number is for 2 retractors	
4551 [Standard]	Overall Length: 9.25" (23,5cm) Blade Width: 19.5mm
4552 [Bent]	Overall Length: 8.25" (21cm) Blade Width: 19.5mm
4553 [Wide]	Overall Length: 9.25" (23,5cm) Blade Width: 43mm

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



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

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



45° Knee Retractors

Designed for use around the knee

PRODUCT NO'S:
6290-00-075 [Large] Overall Length: 9.125" (23,2cm)
6290-00-076 [Small] Overall Length: 7.875" (20cm)



Bent Hohmann Retractors

Helps retract tissues at the margins of the joint

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

Bent Hohmann Retractors—Narrow

PRODUCT NO'S:
7110 [Narrow] Overall Length: 9.75" (23,8cm) Handle Length: 7" (17,8cm) Blade Width: 19mm Depth from Bend: 4.75" (12,1cm)
7110-R* [Radiolucent Narrow] Overall Length: 9.75" (23,8cm) Handle Length: 7" (17,8cm) Blade Width: 19mm Depth from Bend: 4.75" (12,1cm)
7110-01 [Extra Long Handle] Overall Length: 11.5" (29,2cm) Handle Length: 10" (25,4cm) Blade Width: 19mm Depth from Bend: 4.75" (12,1cm)
7115 [Short-tipped Narrow] Overall Length: 9.25" (23,5cm) Handle Length: 7" (17,8cm) Blade Width: 19mm Depth from Bend: 4.25" (10,8cm)
7115-01 [Short-tipped Extra Long Handle] Overall Length: 11" (27,9cm) Handle Length: 10" (25,4cm) Blade Width: 19mm Depth from Bend: 4.25" (10,8cm)
7115-03 [Extra Deep] Overall Length: 12.125" (31,1cm) Handle Length: 9.75" (24,8cm) Depth from Bend: 6.25" (15,9cm) Blade Width: 19mm



*Radiolucent
MADE EXCLUSIVELY FOR INNOMED IN SWITZERLAND



Short-tipped designed by Carl DiRaimondo, MD

Bent Hohmann Retractors—Wide

PRODUCT NO'S:
6590 [Wide] Overall Length: 9.375" (23,8cm) Handle Length: 7" (17,8cm) Blade Width: 41mm Depth from Bend: 4.75" (12,1cm)
6590-01 [Extra Long Handle] Overall Length: 11" (27,9cm) Handle Length: 9" (22,9cm) Blade Width: 41mm Depth from Bend: 5.5" (14cm)



Modular Weights

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



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

Hohmann Retractor

Designed like the original Hohmann-style retractor



PRODUCT NO'S:	
4558	Blade Width: 16mm Overall Length: 11.375" (28,9cm)
4558-R* [Radiolucent]	Blade Width: 16mm Overall Length: 9.625"
4558-01 [Extra Deep]	Blade Width: 16,7mm Overall Length: 11.5" (29,2cm)

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SWITZERLAND

Modified Blunt Hohmann Retractor

Used for soft tissue retraction



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

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SWITZERLAND

Meckel Posterior Stabilizing Knee Retractor

Designed by Christopher M. Meckel, MD

Designed to provide enhanced anterior translation of the tibia when doing posterior stabilized total knee replacement

The 15mm deep blade section of the retractor is used to lever the tibia forward (by resting the tip on the posterior tibia and the middle blade section block levering off the distal femur) after the box cut has been made in the distal femur.

PRODUCT NO:
4538
Blade Width: 20mm
Blade Depth: 15mm
Overall Length: 10" (24,5cm)



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PRODUCT NO:
4699
Overall Length: 12" (30,5cm)
Depth from Bend: 5" (12,7cm)
Blade Width: 1.5" (3,8cm)

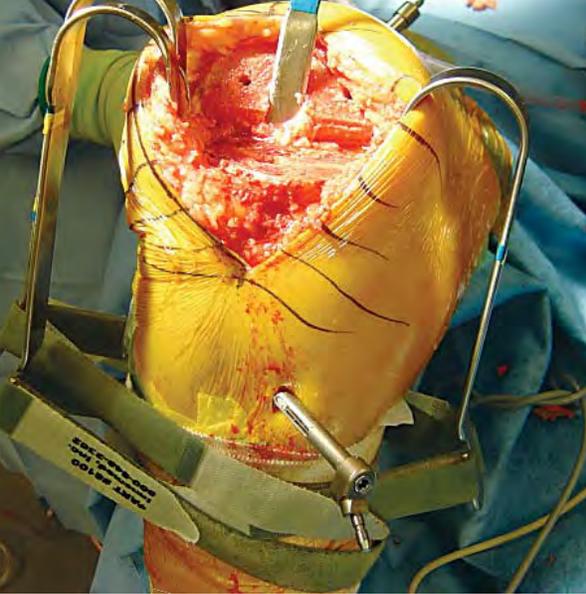
**PROUDLY
MADE IN THE USA**

Lester Proximal Tibial TKA Retractor

Designed by D. Kevin Lester, MD

Helps expose the cut surface of the tibia to allow sizing, preparation and cleansing during TKA

Also helps protect the posterior knee soft tissue structures from injury.



Knee Retractor System

Designed by S. David Stulberg, MD

Helps free assisting personnel while providing excellent exposure

Velcro® is a registered trademark of Velcro U.S.A.



MIS Modified Wide PCL Retractor with Strap

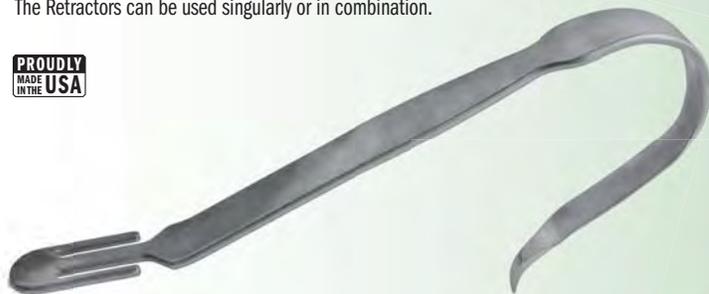
PRODUCT NO:
3515
Overall Length: 10" (25,4cm)
Blade Width Above Prongs: 34mm
Prong Width: 8.5mm 17mm Gap 8.5mm



Wide PCL Retractor with Strap

PRODUCT NO:
3525
Overall Length: 10" (25,4cm)
Blade Width Above Prongs: 57mm
Prong Width: 8.5mm 17mm Gap 8.5mm

The Knee Retractor System holds retractors utilizing Velcro® straps. This helps eliminate obstruction of the surgeon's operative area and frees assisting personnel. Four retractor styles are available; straps are available in two lengths. Retractors and straps are autoclavable. The Retractors can be used singularly or in combination.



Single Prong Collateral Ligament Retractor with Strap

PRODUCT NO:
6650
Overall Length: 8.25" (21cm)
Blade Width: 14mm



Long Prong Collateral Ligament Retractor with Strap

PRODUCT NO:
6630
Overall Length: 8" (20,3cm)
Overall Blade Width: 21mm
Prong Width: 4.5mm 12mm Gap 4.5mm



Stubbs Short Prong Collateral Ligament Retractor with Strap

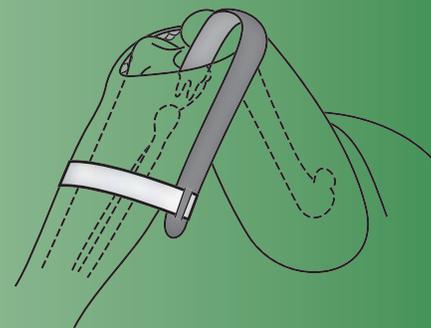
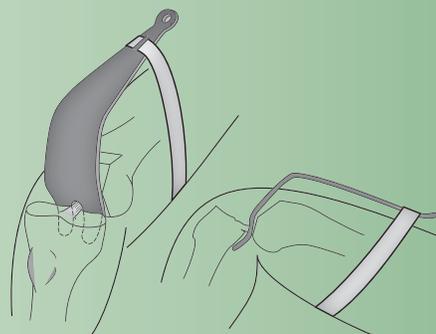
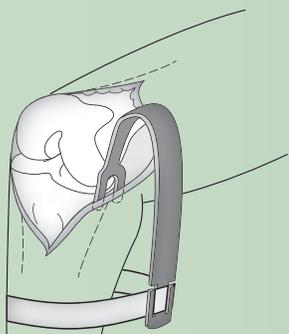
Designed by B. Stubbs, MD

PRODUCT NO:
6640
Overall Length: 8" (20,3cm)
Blade Width Above Prongs: 27mm
Prong Width: 4.8mm 3.4mm Gap 4.8mm



Strap

PRODUCT NO'S:
Packages of 10
8100-P [Long Strap-Femur]
8120-P [Short Strap-Tibia]





NEW

Bargo Femoral Lift

Designed by Lonnie Bargo, CSFA

Designed to distract the distal femur up and away from the proximal tibia during TKR to help expose the popliteal fossa and access the soft tissues for meniscal excision

Particularly useful when using a 3D printed cutting block, where drilled access to the intramedullary canal (to help lift the femur) is unavailable.

PRODUCT NO:

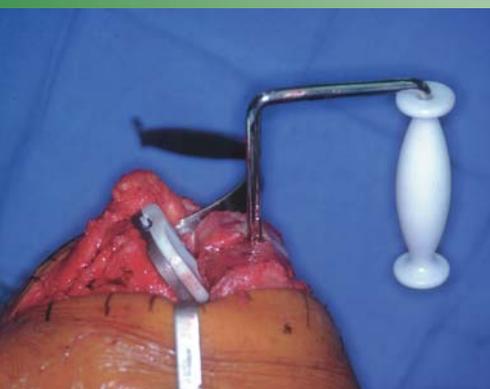
3649
 Overall Length: 6.75" (17,1cm)
 Handle Offset: 3.5" (8,9cm)
 Handle Length: 5" (12,7cm)
 Lift Pad: 2" x 1.675" (51mm x 41mm)

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Distal Femur Distractor

Helps distract the distal femur away from the proximal tibia

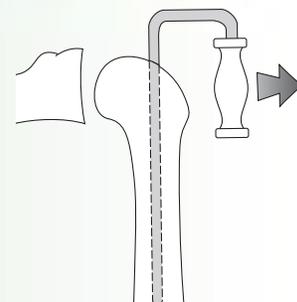
Designed to distract the distal femur away from the proximal tibia during total knee surgery. It is inserted into a pre-drilled hole in the distal femur. The bent handle allows the femur to be distracted away from the tibia. The intramedullary rod portion is fluted.



PRODUCT NO'S:

4220-00 [Standard Handle]
 Overall Length: 12.75" (32,4cm)
 Rod Offset from Handle: 4.5" (11,4cm)
 4220-01 [Upward Bent Handle]
 Overall Length: 17.5" (49,6cm)
 Rod Length from Bend: 12.75" (32,4cm)
 Rod Offset from Handle: 4.5" (11,4cm)

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Harwin Modified Cobra Retractor

Designed by Steven F. Harwin, MD, FACS

Designed for use during total knee and hip surgery

The long handle and obtuse angle provide more ergonomic leverage—especially helpful for use with obese patients. For total knee surgery, the wide blade of the large retractor spans the prepared box and helps bring the tibia forward. The small retractor helps with retraction of the medial and lateral structures, where the wide, concave blade provides added exposure over standard bent Hohmann retractors. The serrated tip helps improve stability.

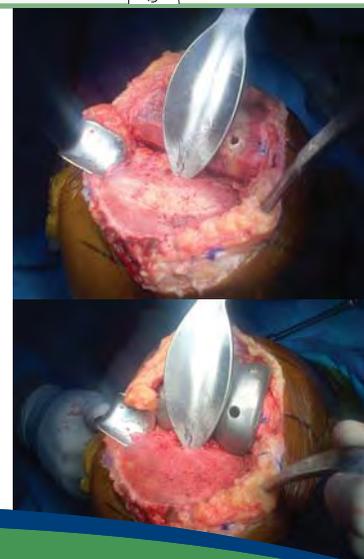
In total hip surgery, the wide, concave blade design allows for enhanced exposure—especially useful in anterior hip surgery with the placement of reamers, and to elevate and expose the proximal femur.

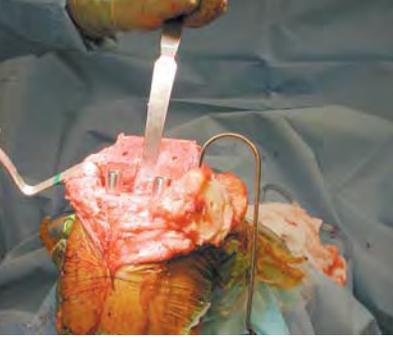


PRODUCT NO'S:

6143 [Large]
 Overall Length: 14.75" (37,5cm)
 Horizontal Handle: 8" (20,3cm)
 Blade Width: 43.2mm
 Tongue: 25mm x 5mm
 6143-01 [Small]
 Overall Length: 12.5" (31,8cm)
 Horizontal Handle: 5" (12,7cm)
 Blade Width: 30mm
 Tongue: 25mm x 5mm

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PCL Retractor

Designed to straddle the cruciate ligament



PRODUCT NO'S:	
2820 [Standard]	Overall Length: 8" Prong Width: 5mm 10mm Gap 5mm
2820-C [Coated Standard]	Overall Length: 8" Prong Width: 5mm 10mm Gap 5mm
2820-R [Radiolucent Standard]	Overall Length: 8" Prong Width: 5mm 10mm Gap 5mm
2825 [Wide Prong]	Overall Length: 8" Prong Width: 8.5mm 11mm Gap 8.5mm



Designed to straddle the cruciate ligament and lie in the femoral condylar notch, allowing the surgeon to retract the tibia away from the femur for better access. The handle is contoured away from the surgeon's field of view. Modular weights can be used to help hold the retractor in place.

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

Also available with a special protective coating, applied to the areas of the instrument that may come into contact with component surfaces, to help prevent from marring the articulating surfaces.

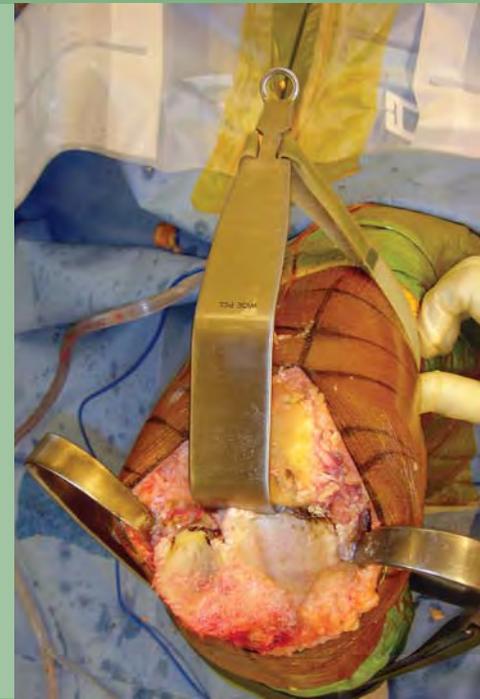
Wider prongs offer better stability



MIS Modified Wide PCL Retractor

Designed by S. David Stulberg, MD

PRODUCT NO'S:	
3510 [Standard]	Overall Length: 10" (25,4cm) Blade Width Above Prongs: 34mm Prong Width: 8.5mm 17mm Gap 8.5mm
3515 [With Velcro Strap]	Overall Length: 10" (25,4cm) Blade Width Above Prongs: 34mm Prong Width: 8.5mm 17mm Gap 8.5mm



Wide PCL Retractor

Helps expose the proximal tibia for better surface access

Designed by S. David Stulberg, MD



PRODUCT NO:	
3520	Overall Length: 10" (25,4cm) Blade Width Above Prongs: 57mm Prong Width: 8.5mm 17mm Gap 8.5mm

Designed to expose the proximal tibia during total knee surgery for better access to the articulating surfaces. The handle is contoured to allow the surgeon a clear field of view of the operating area. Modular weights can be used to help hold the retractor in place.





MIS PCL Retractor

Designed by S. David Stulberg, MD

PRODUCT NO'S:

6203 [Medium]
Overall Length: 12.5" (31,8cm)
Handle Length: 6" (15,2cm)
Blade Width: 15mm

6203-01 [Long]
Overall Length: 16.5" (41,9cm)
Handle Length: 8" (20,3cm)
Blade Width: 15mm



Baldwin Lateral Soft Tissue Retractor

Designed by James L. Baldwin, MD

Designed to hold back the fat pad and soft tissues during total knee arthroplasty

The fenestrated paddle helps hold back the fat pad and soft tissues, while the two long narrow prongs help penetrate the soft tissue, and rest against the side of the tibia to help prevent rotation of the instrument.

PRODUCT NO:

6312 [Sharp Prongs]
Overall Length: 9.875" (25,1cm)
Pad Dimensions: 38mm x 15mm
Prong Depth: 22mm

6313 [Blunt Prongs]
Overall Length: 9.75" (24,8cm)
Pad Dimensions: 38mm x 15mm
Prong Depth: 20mm



Wubben Lateral Fat Pad Retractor for TKR

Designed by Robert Wubben, MD

Designed to hold soft tissues when inserting the TKR

PRODUCT NO:

3218
Overall Length: 10" (25,4cm)
Blade Width: 41mm

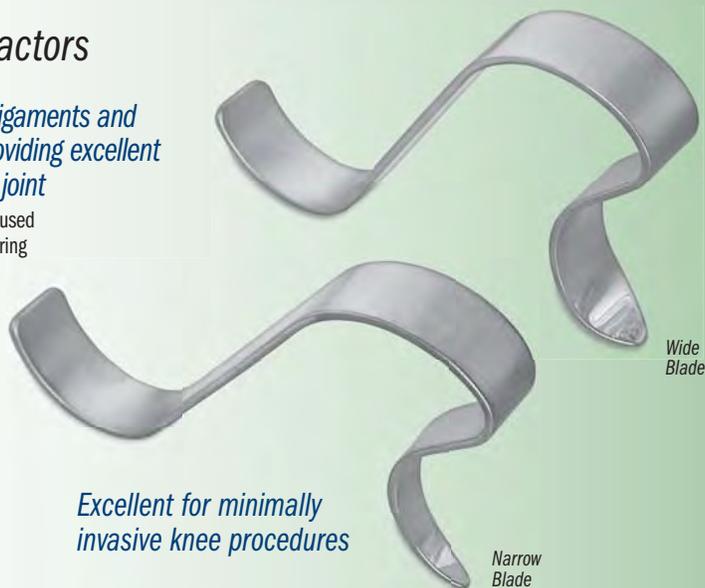


"S" Total Knee Retractors

Designed by R. Barry Sorrells, MD

Helps protect the collateral ligaments and popliteal structures while providing excellent visualization within the knee joint

The design is self-retaining and can be used singularly and in pairs. For cruciate sparing or sacrificing prosthetic designs.



Excellent for minimally invasive knee procedures



PRODUCT NO'S:	
3720-00 [Wide Blade]	Overall Length: 6" (15,2cm) Blade Width: 20mm
3720-01 [Narrow Blade]	Overall Length: 6" (15,2cm) Blade Width: 10mm

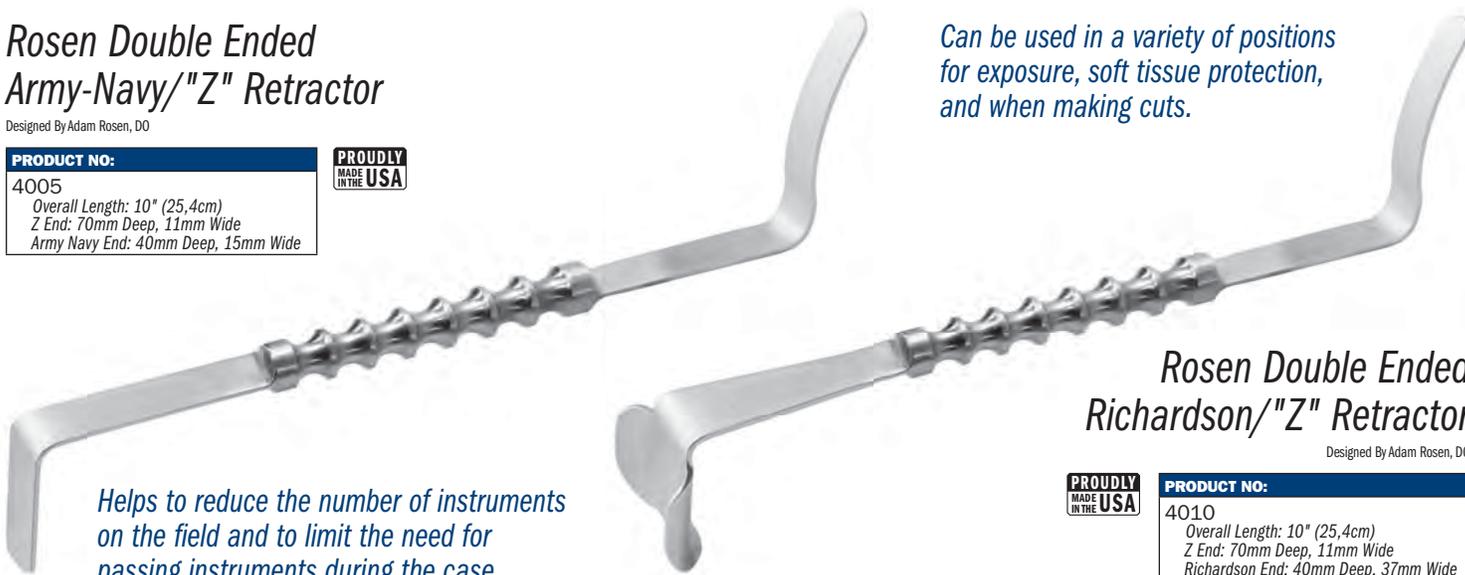
**PROUDLY
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Rosen Double Ended Army-Navy/"Z" Retractor

Designed By Adam Rosen, DO

PRODUCT NO:
4005
Overall Length: 10" (25,4cm)
Z End: 70mm Deep, 11mm Wide
Army Navy End: 40mm Deep, 15mm Wide

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Can be used in a variety of positions for exposure, soft tissue protection, and when making cuts.

Helps to reduce the number of instruments on the field and to limit the need for passing instruments during the case.

Rosen Double Ended Richardson/"Z" Retractor

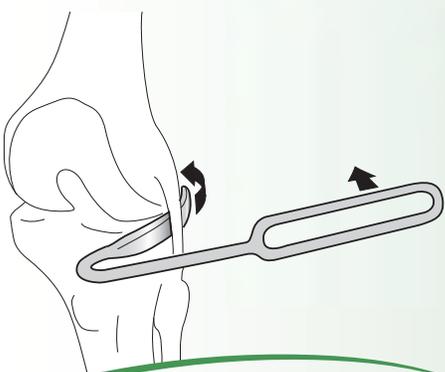
Designed By Adam Rosen, DO

**PROUDLY
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PRODUCT NO:
4010
Overall Length: 10" (25,4cm)
Z End: 70mm Deep, 11mm Wide
Richardson End: 40mm Deep, 37mm Wide

Blount Knee Retractor

Designed by James B. Stiehl, MD



Designed for retraction in total knee arthroplasty, the long narrow blade easily fits above the capsular ligament at the joint line. Can also be used for knee revision, fitting easily around the implant.



PRODUCT NO:
4850
Overall Length: 8.5" (21,6cm)
Prong Width: 9mm

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NEW



Uni Medial/Lateral Ligament Retractor

Designed by Kurt Kramer, PA-C

Designed to be placed in the medial/lateral tibial recess while making the horizontal tibial cut during unicompartmental knee arthroplasty—helping to retract and protect the medial and lateral collateral ligaments

Ambidextrous, ergonomic design allows for comfortable and natural hand positioning, helping to improve MCL/LCL protection and ease of use, especially in the obese patient.

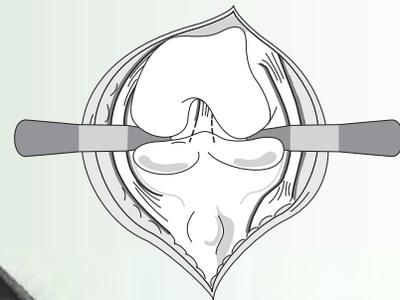
PRODUCT NO:
3632
Overall Length: 4.25" (10,8cm)
Blade Width: 8.8mm
Blade Depth: 2.375" (6cm)

**PROUDLY
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"Z" Knee Retractor

Helps create better access to the articulating surfaces

Designed to expose the femur and the tibia during knee surgery for better access to the articulating surfaces. The "Z" contouring of the retractor provides the surgeon with an open field of view and working area.



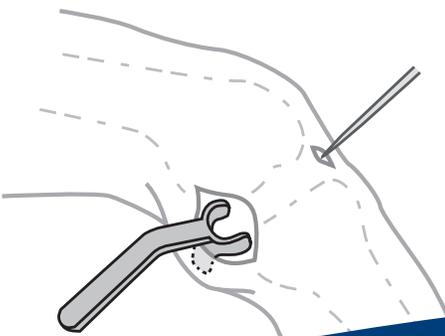
PRODUCT NO:
4420-00
Overall Length: 7.25" (18,4cm)
Blades: 11mm Wide, 3" Deep

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Bicos Meniscal Repair Retractor

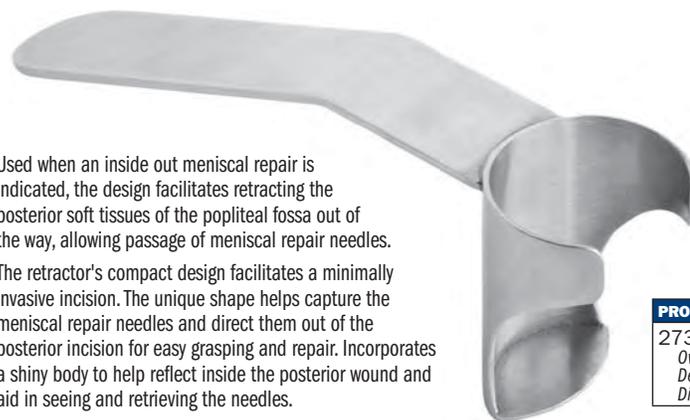
Designed by James Bicos, MD

A popliteal retractor specifically designed for meniscal repair or access to the posterior knee



Used when an inside out meniscal repair is indicated, the design facilitates retracting the posterior soft tissues of the popliteal fossa out of the way, allowing passage of meniscal repair needles.

The retractor's compact design facilitates a minimally invasive incision. The unique shape helps capture the meniscal repair needles and direct them out of the posterior incision for easy grasping and repair. Incorporates a shiny body to help reflect inside the posterior wound and aid in seeing and retrieving the needles.



PRODUCT NO:
2731
Overall Length: 5" (12,7cm)
Depth: 1.625" (4,1cm)
Diameter: 28mm

**PROUDLY
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Knee Retractors with Easy Grip Handles

Silicone handles help reduce holding fatigue

Retractors help provide excellent visibility and ligament protection during total and unicondylar knee replacement surgery.

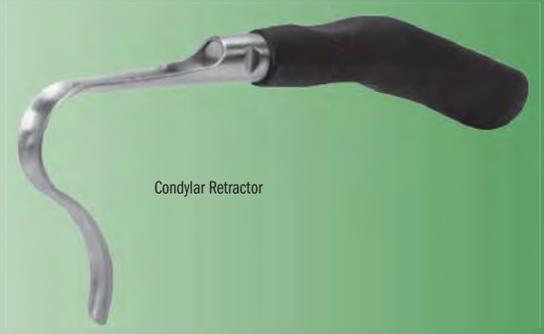
PRODUCT NO'S:

SS3035 [Small Hohmann Retractor] Overall Length: 7" (17,8cm) Blade Width: 25mm
SS3037 [Condylar Retractor] Overall Length: 7" (17,8cm) Blade Width: 12mm
SS3038 [Superior Retractor] Overall Length: 8.25" (21cm) Blade Width: 31mm
SS3042 [Soft Tissue Retractor] Overall Length: 8.25" (21cm) Blade Width: 36mm

**PROUDLY
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Small Hohmann Retractor



Condylar Retractor



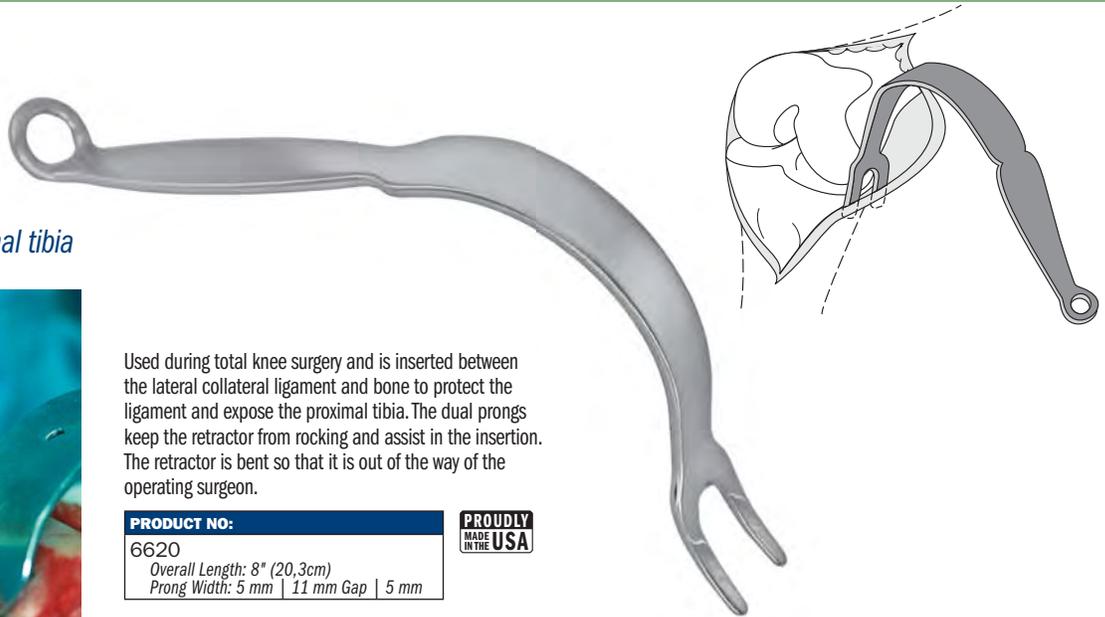
Soft Tissue Retractor



Superior Retractor

Collateral Ligament Retractor

Helps protect the lateral collateral ligament while exposing the proximal tibia



Used during total knee surgery and is inserted between the lateral collateral ligament and bone to protect the ligament and expose the proximal tibia. The dual prongs keep the retractor from rocking and assist in the insertion. The retractor is bent so that it is out of the way of the operating surgeon.

PRODUCT NO:

6620
Overall Length: 8" (20,3cm)
Prong Width: 5 mm | 11 mm Gap | 5 mm

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Concave Total Knee Retractor

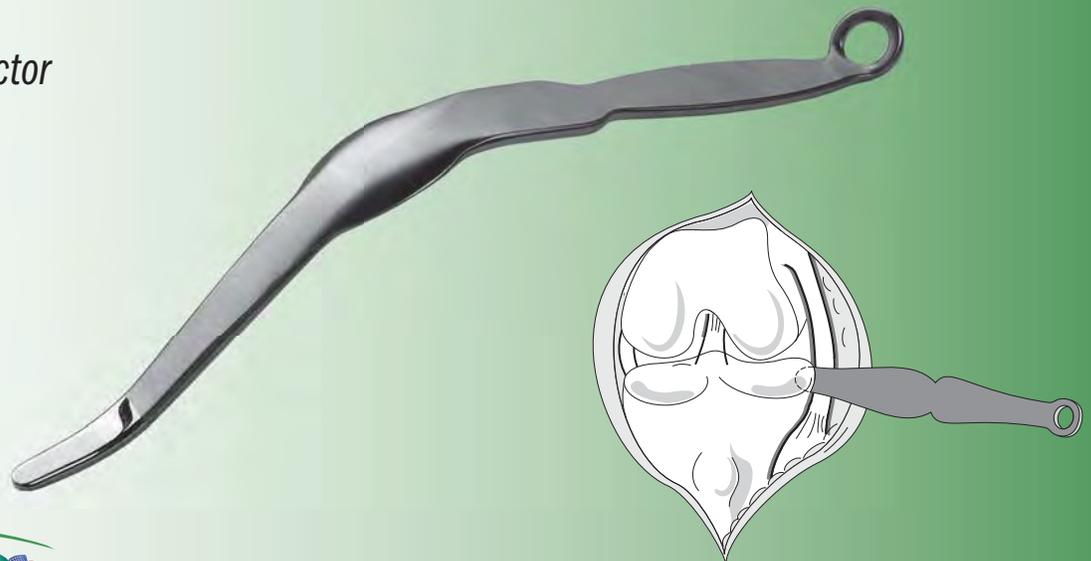
Used to retract soft tissue away from the femur and tibia

Used during total knee surgery to retract soft tissue away from the femur and tibia. The blade is designed to curve around the distal femur and tibia plateau.

PRODUCT NO'S:

6720 [Standard] Overall Length: 9.625" (24,4cm) Blade Width: 15mm
6720-01 [Narrow] Overall Length: 9.625" (24,4cm) Blade Width: 9mm

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Minimally Invasive Knee Retractors



1 MI Small Hohmann Retractor

5 MI Patellar Retractor

2 MI Large Hohmann Retractor

6 MI Collateral Retractor - Left

3 MI Condylar Retractor

7 MI Collateral Retractor - Right

4 MI Superior Retractor

8 MI Soft Tissue Retractor

Helps provide excellent visibility and ligament protection during Total and Unicondylar Knee Replacement Surgery

PRODUCT NO'S:

1	S3035 [Small Hohmann Retractor] Overall Length: 7.5" (19,1cm) Blade Width: 25mm
2	S3036 [Large Hohmann Retractor] Overall Length: 8" (20,3cm) Blade Width: 36mm
3	S3037 [Condylar Retractor] Overall Length: 7.5" (19,1cm) Blade Width: 12mm
4	S3038 [Superior Retractor] Overall Length: 8.75" (22,2cm) Blade Width: 31mm

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5	S3039 [Patellar Retractor] Overall Length: 10.25" (26cm) Blade Width: 45mm
6	S3040 [Collateral Retractor - Left] Overall Length: 8" (20,3cm) Blade Width: 25mm
7	S3041 [Collateral Retractor - Right] Overall Length: 8" (20,3cm) Blade Width: 25mm
8	S3042 [Soft Tissue Retractor] Overall Length: 8.75" (22,2cm) Blade Width: 36mm

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Retractor handles are designed for optional use with modular weights to help hold the retractors in place.



Modular Weights

PRODUCT NO'S:

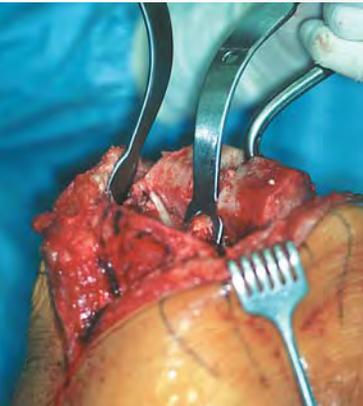
3430-01	1.5 lbs. (.68 kg)
3430-02	2.0 lbs. (.91 kg)
3430-03	2.5 lbs. (1.13 kg) with attaching hook

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Chandler Retractor

Used for retracting tissue away from the bone, and helpful for posterior exposure of the tibia in MIS surgery

Allows the surgeon to retract soft tissue away from the bone, and can be used for hip and knee surgery. The specially designed handle is contoured away from the surgeon's field of view and working area.



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

PRODUCT NO'S:	
3220-01	[5/8" (15,9mm)] Overall Length: 9.125" (23,5cm) Blade Width: 16mm
3220-02	[3/4" (19mm)] Overall Length: 9.125" (23,5cm) Blade Width: 19mm
3220-04	[1" (25,4mm)] Overall Length: 9.125" (23,5cm) Blade Width: 25.4mm
3220-02R	[Radiolucent 3/4" (19mm)] Overall Length: 9.125" (23,5cm) Blade Width: 19mm

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USA

Modular Weights

Weights can be used to help hold the retractors in place

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



MIS Utility Knee Retractor

Designed by William Robb, MD

Used interchangeably for medial exposure, lateral exposure and to assist in posterior exposure for the tibia

Helps to keep hands out of the field of view while providing retraction in minimally invasive knee surgery.

PRODUCT NO:	
3220-03	Overall Length: 9" (22,9cm) Blade Width: 16mm

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Roose Utility Knee Retractor

Designed by Paul Roose, DO



Used for retraction of the soft tissues laterally or medially and for anterior translation of the tibia during tibial prosthetic insertion

The curvature and width are designed for retraction of soft tissues and excellent visualization of bone structure.



PRODUCT NO:	
4532	Overall Length: 9" (22,9cm) Blade Width (above tip): 14mm

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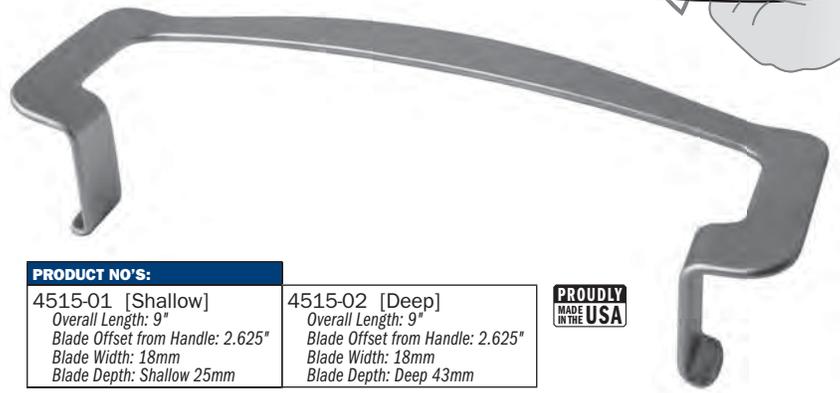
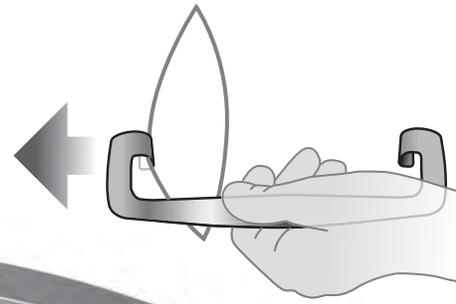
Stanton Forward Army-Navy Retractor

Designed by John L. Stanton, MD, FACS

Designed to work as “tissue pushers”, helping to enhance exposure by allowing the surgeon or an assistant to push forward the opposite side of the wound while retracting (or not) the nearer side



Helps to hold the wound open without having to reach around to the opposite side and become fatigued.



PRODUCT NO'S:

4515-01 [Shallow]
Overall Length: 9"
Blade Offset from Handle: 2.625"
Blade Width: 18mm
Blade Depth: Shallow 25mm

4515-02 [Deep]
Overall Length: 9"
Blade Offset from Handle: 2.625"
Blade Width: 18mm
Blade Depth: Deep 43mm

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Double Prong Soft Tissue Retractor

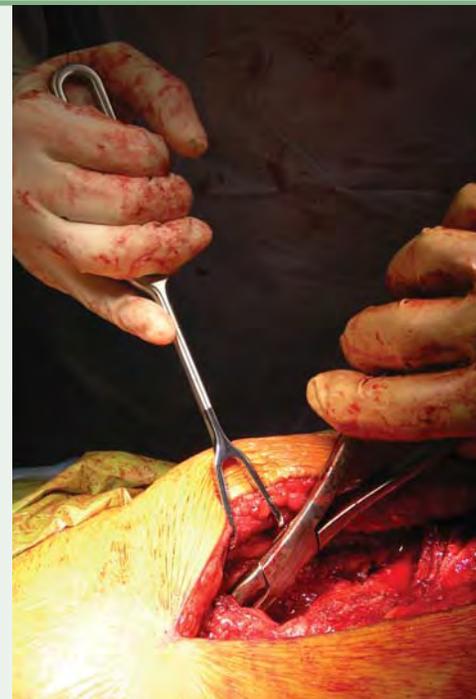
Designed by Adolph V. Lombardi Jr., MD

Designed to help retract myofascial sleeves about the hip during hip surgery and other soft tissue retraction

PRODUCT NO:

3233
Overall Length: 8.875" (22,5cm)
Prong Separation: 1" (2,5cm)
Prong Depth: 1.125" (2,9cm)

PROUDLY
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USA



Lipscomb Meniscal Retractor

Designed by A. Brant Lipscomb, Jr., MD, PA.

Designed to protect neurovascular structures during meniscal and extraarticular ligament repairs

PRODUCT NO:

3740
Overall Length: 9" (22,9cm)

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Fromm Femur & Tibia Triangles

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

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

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" (21,5cm, 27,9cm, 25,6cm, and 40,7cm). 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.

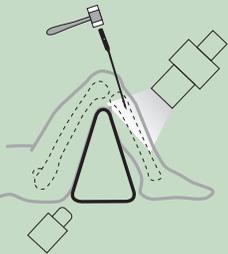
PRODUCT NO'S:	
2760-00	[Set of 3] Angles: Top 30°, Two Bottom 75°
2760-01	[11"] Base: 6" (15,2cm), Height: 11" (27,9cm)
2760-02	[14"] Base: 7" (17,8cm), Height: 14" (25,6cm)
2760-03	[16"] Base: 9" (22,9cm), Height: 16" (40,7cm)
Sold Separately - Not In Set:	
2760-XS	[8.5"] Base 5" (12,7cm), Height: 8.5" (21,6cm)
Replacement Parts:	
2760-P	[Silicone Pad]
2760-S	[Straps] Package of 18
8120-SP	[Straps for XS] Package of 10



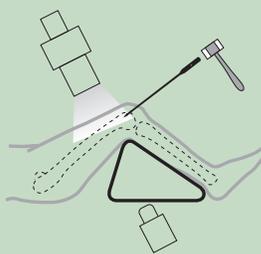
*Velcro® is a registered trademark of the Velcro Companies.



Tibial Nailing

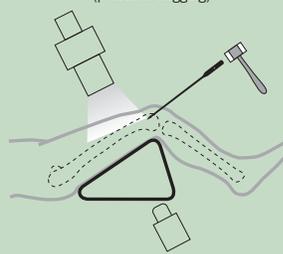


Retrograde Femoral Nailing



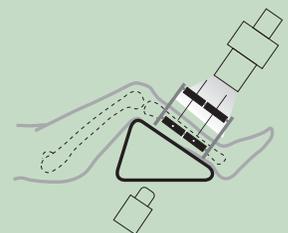
Retrograde Femoral Nailing

Triangle holds femur reduced (prevents sagging)



Tibia Reduced For:

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



Churf Cast Stand

Designed by John Churf, 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.



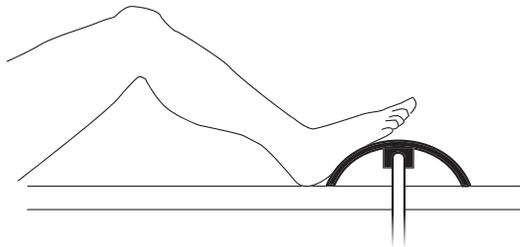
PRODUCT NO:
2040
Base: 18.5" x 14.5"
Height: Adjusts from 14" to 23.75"
Foot Rest: 11" x 1.75"



Kirschenbaum Foot Positioner

Designed by Ira Kirschenbaum, MD

Helps eliminate the use of sand bags under the drape during total knee surgery



The foot rest is dome shaped for optimal foot contact and positioning the leg in flexion, and can be rotated. The unit can be used under the drape by attaching it to a standard table attachment or it can be sterilized for use on top of the drape. It can be attached to the table with the optional sterilizable table clamp. Supplied with a removable, sterilizable silicone foot pad.



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PRODUCT NO'S:

2590	[Foot Positioner – Long]	15.5" x 6" (39,4cm x 15,2cm)
2591	[Foot Positioner – Short]	9.5" x 6" (24,1cm x 15,2cm)
Optional & Replacement Parts:		
2590-P	[Large Replacement Pad]	16" x 9" (40,7cm x 22,9cm)
2591-P	[Small Replacement Pad]	9.5" x 9.25" (24,1cm x 23,5cm)
2595	[Optional Table Clamp]	

Sanders Extremity Positioning Tubes

Designed by Richard A. Sanders, MD

Designed to support the knee and ankle during lower extremity surgery



The 4" (10,2cm) tube elevates the foot and ankle for ankle fracture surgery.

The 6" (15,2cm) 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 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" (10,2cm) Width: 8" (20,3cm)
2740-02	[Large]	Diameter: 6" (15,2cm) Width: 8" (20,3cm)

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Lower Extremity Leg Positioner

Designed by Ronald Romanelli, MD

Designed to lift the knee for lower extremity casting applications

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
Replacement Parts:	
2760-P	[Silicone Pad]

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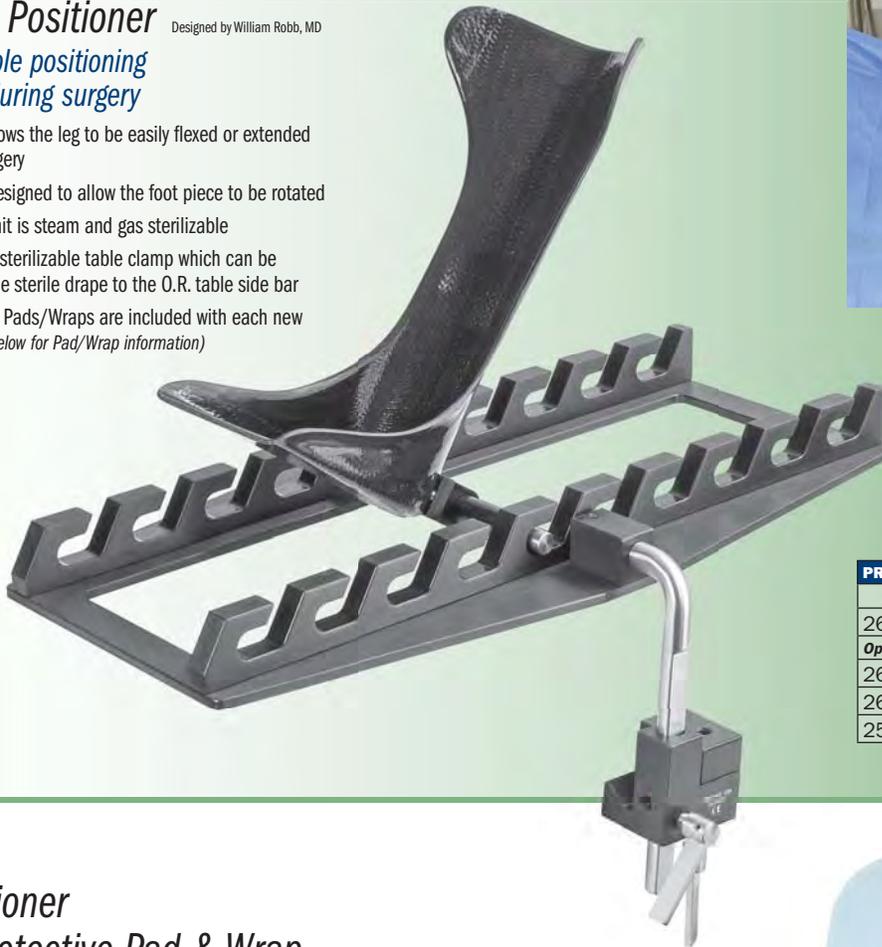


Robb Leg Positioner

Designed by William Robb, MD

Provides stable positioning of the knee during surgery

- ▶ Slotted base allows the leg to be easily flexed or extended during knee surgery
- ▶ Slots are also designed to allow the foot piece to be rotated
- ▶ The complete unit is steam and gas sterilizable
- ▶ Supplied with a sterilizable table clamp which can be clamped over the sterile drape to the O.R. table side bar
- ▶ Three (3) Sterile Pads/Wraps are included with each new purchase (See below for Pad/Wrap information)



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PRODUCT NO'S:

Base Dimensions: 21" x 11" (53,4cm x 27,9cm)

2630 [Leg Holder with Footpiece]

Optional & Replacement Parts:

2630-FPI [Carbon Fiber Footpiece Only]

2629-00 [Case of 10 Sterile Pads/Wraps]

2595 [Table Clamp]

Leg Positioner Sterile Protective Pad & Wrap

Disposable, latex-free sterile foam pad and cohesive wrap helps protect patient from pressure sores, abrasions and possible neurological impairment while securing foot into the boot

Compatible with the Innomed's Stulberg and Robb Leg Positioners



Each set includes 1 Pad and 1 Wrap.

PRODUCT NO:

2629-00 [Case of 10 Sets]

2629-L [1 Set]

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Stulberg Sliding Bolster

Designed by S. David Stulberg, MD

Helps eliminate the need for a sand bag during total knee surgery

The base plate is attached to the table and the sterile sliding bolster is placed on top of the sterile drape. The bolster can be adjusted for different angles of knee flexion during surgery.

PRODUCT NO'S:

2730

Base Dimensions:

20" x 10.5" (50,8cm x 26,7cm)

**PROUDLY
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USA**

Stulberg Leg Positioner

Designed by S. David Stulberg, MD

*Provides stable positioning
of the knee during surgery*

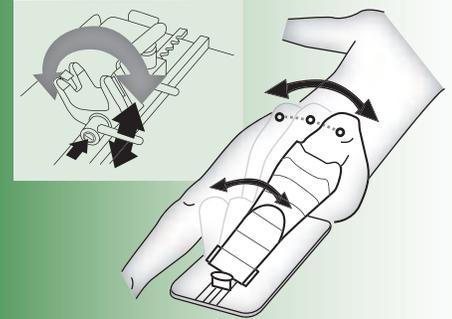


- ▶ Allows the leg to be manipulated into the desired position and securely locked in place
- ▶ Includes the necessary adjustments to tilt, rotate, and flex or extend the knee
- ▶ Extension/flexion adjustments can be made with the quick release of the ratchet
- ▶ In use, the base plate is clamped onto the operating table with the vertical side bar, the base plate is draped, and the sterile support plate lowered into the base plate
- ▶ The patient's foot is wrapped into the foot support with a sterile bandage (additional padding may be used for thin tibias)
- ▶ The complete unit is steam and gas sterilizable
- ▶ Three (3) Sterile Pads/Wraps are included with each new purchase
(See left for Pad/Wrap information)



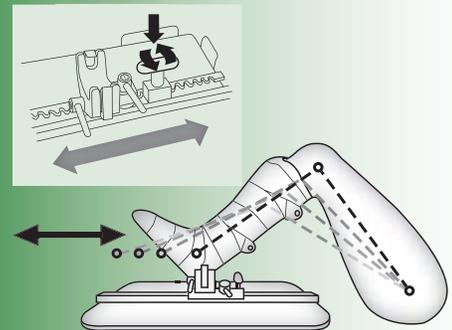
PRODUCT NO'S:	
Base Dimensions: 20" x 10.5" (50,8cm x 26,7cm)	
2620 [Leg Holder with Footpiece]	
Optional & Replacement Parts:	
2620-FPI [Carbon Fiber Footpiece Only]	
2629-00 [Case of 10 Sterile Pads/Wraps]	

Tilt Bar



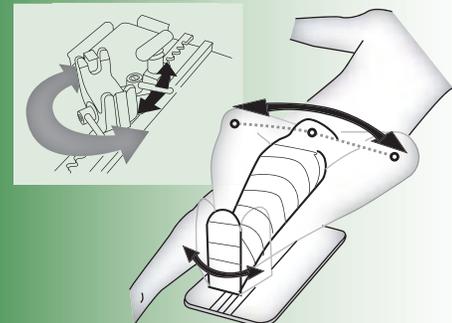
Loosening the Tilt Bar allows the knee to be tilted in either direction. Tightening the bar locks the Yoke System in the desired position.

Ratchet



The Ratchet allows the Yoke Assembly to be moved in a precise gradual manner, the length of the Track. For faster adjustments, downward pressure on the Ratchet Handle releases the Yoke Assembly which then can be easily slid the length of the Track.

Rotation Bar



Loosening the Rotation Bar allows the knee to be rotated in either direction. Tightening the bar locks the Yoke System in the desired direction.



Modified 90° Leg Stabilizer

Designed by Gregory Fanelli, MD

Useful in total knee surgery to hold the leg in position

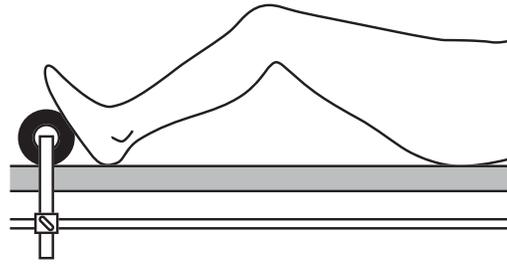
PRODUCT NO:

2725
 Post Height: 11.375" (28,9cm)
 Pad Length: 9" (22,9cm)
 Pad Diameter: 3" (7,6cm)

Replacement Parts:

9120 [Table Clamp]
 8840-P [Pad]

Helps to open up the knee joint when pressure is applied to the lower leg. Pad and sterilizable table clamp included.



George Arthroscopic Knee Positioner

Designed by Michael S. George, MD

Provides lateral as well as superior support which allows valgus stress to open the medial compartment

Shape does not squeeze the thigh, making the need for a thigh tourniquet optional. If desired, the unit can easily be rotated out of the way without disrupting the sterile field. Using with a standard operating table clamp, the unit can easily be raised or lowered to accommodate all thigh sizes.

PRODUCT NO'S:

2735
 Overall Height: 22" (55,9cm)
 Post Height: 12" (30,5cm)
 Pad Width: 3" (7,6cm)

Replacement Parts

2735-P [Pad]

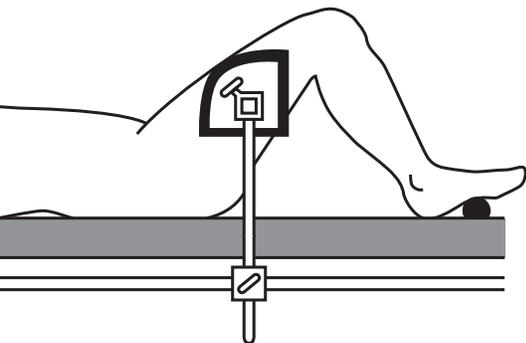


Durham Leg Positioner

Designed by Al Durham, MD

Placed against the thigh, helping to hold the leg upright in knee surgery

Supplied with a sterilizable table clamp. The pad is made of semi-dense foam to help prevent pressure points and is sealed with a washable coating.



PRODUCT NO:

4105
Replacement Parts:
 9120 [Table Clamp]
 4105-P [Pad]



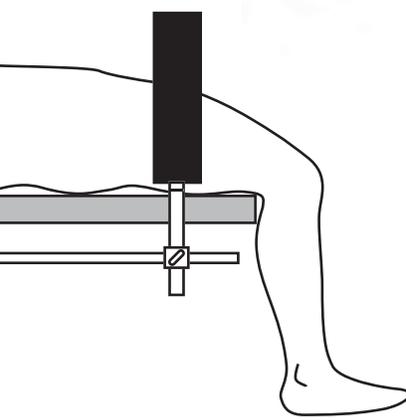
Stanton Arthroscopic Leg Holder

Designed by John Stanton, MD

Designed to securely hold legs of various sizes for arthroscopic surgery

- ▶ Sliding leg holder can be adjusted for small calves or to accommodate large thighs
- ▶ Locking pin prevents sides from spreading apart
- ▶ Strap can be placed high or low through the slots in the side plates to accommodate large/small limbs
- ▶ Strap is strongly secured with a toothed clamp
- ▶ Support rod, when clamped into a standard table clamp, helps to prevent rotation

PRODUCT NO'S:
4045
Dimensions: 16.5" L x 8.5" H x 3.5" W (42cm L x 21.6cm H x 8.9cm W)
Fits Legs: From 4" to 11" (10cm to 28cm)
Replacement Parts
4045-S [Strap]
Overall Length: 28" (71,2cm)



Leg Stabilizer

Designed by Gregory Fanelli, MD

Useful in arthroscopic knee surgery to hold the leg in position

Helps to open up the knee joint when pressure is applied to the lower leg. Sterilizable table clamp included.

PRODUCT NO:
8840
Overall Length: 18.5" (47cm)
Handle Length: 9.25" (23,5cm)
Pad Diameter: 3" (7,6cm)
Replacement Parts:
9120 [Table Clamp]
8840-P [Pad]



Cherf Leg Holder

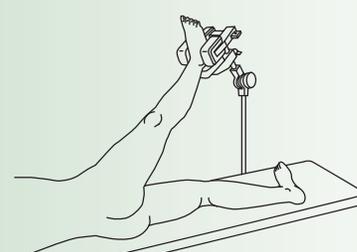
Designed by John Cherf, MD

Supports the lower extremity for prepping before knee or hip surgery

Useful for all lower extremity procedures and is particularly helpful for supporting the leg with the patient positioned in the lateral position. By holding the foot/ankle in an externally rotated position, the knee can be locked into extension which helps eliminate the need for manual support.

May also be used to support the limb for surgical patients in the supine position such as for knee and foot/ankle procedures.

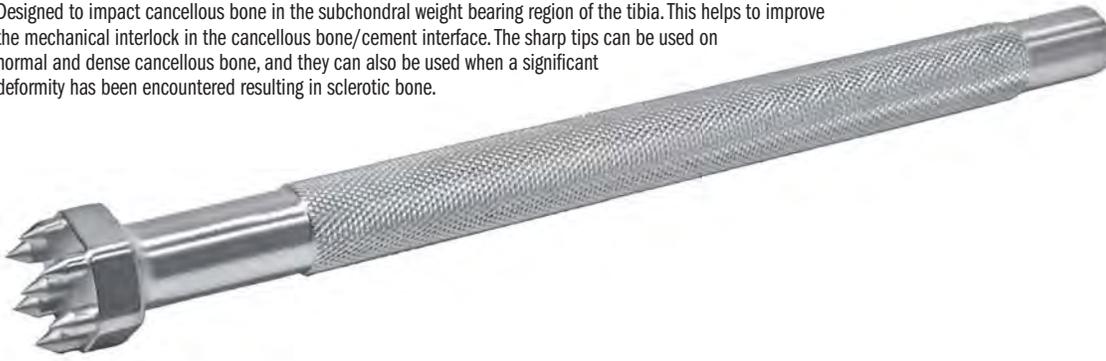
PRODUCT NO'S:
2270
Replacement Parts:
4150-PD3 [Set of 3 Small Pads]



Woolley Tibia Punch Designed by D. Woolley, MD

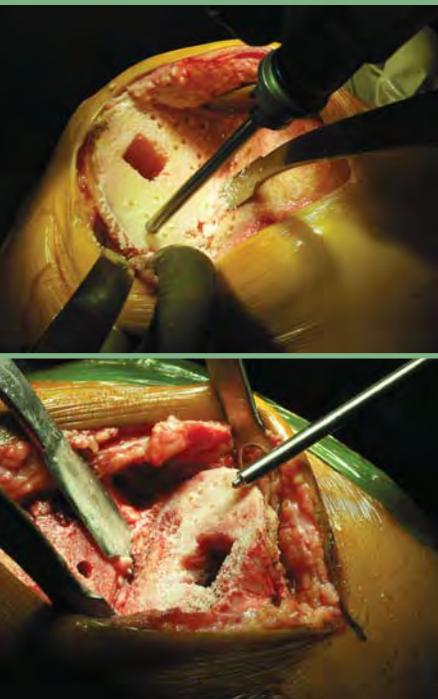
Designed to impact cancellous bone to help improve bone/cement interface

Designed to impact cancellous bone in the subchondral weight bearing region of the tibia. This helps to improve the mechanical interlock in the cancellous bone/cement interface. The sharp tips can be used on normal and dense cancellous bone, and they can also be used when a significant deformity has been encountered resulting in sclerotic bone.



PRODUCT NO:
5140
Prong Depth: 5.5mm
Overall Length: 7" (17.8cm)
Shaft Diameter: 13mm

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Lombardi Tibia Cement Preparation Drill

Designed by Adolph Lombardi, MD

Designed to drill cancellous bone to help improve bone/cement interface

Designed to drill cancellous bone in the subchondral weight bearing region of the tibia. This helps to improve the mechanical interlock in the cancellous bone/cement interface.

PRODUCT NO:
1112
Drill Diameter: 2.7mm
Drill Length: 3mm
Overall Length: 4.75" (12,1)

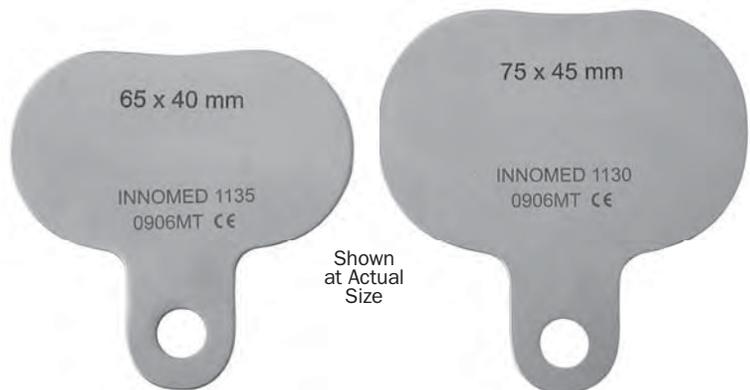
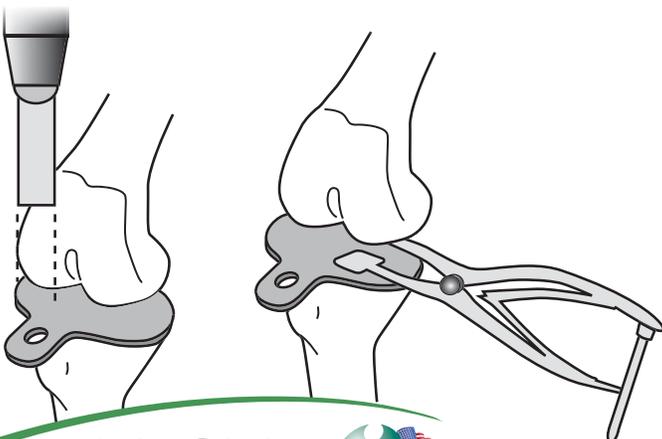
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Sorrells Tibia Protector Plates

Designed to protect the surface of the tibia

Designed by R. Barry Sorrells, MD



65 x 40 mm

INNOMED 1135
0906MT CE

75 x 45 mm

INNOMED 1130
0906MT CE

Shown
at Actual
Size

PRODUCT NO'S:
1130 [Large] 75mm x 45mm
1135 [Small] 65mm x 40mm

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NEW



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" (6,4cm x 10,2cm-15,2cm)
1227	[3/32" (2mm) Pin with Wire/Suture Hole] Overall Length: 6" (15,2cm)

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Whelan Double-Ended Suture Wire Passer

Designed by E. J. Whelan, III, MD

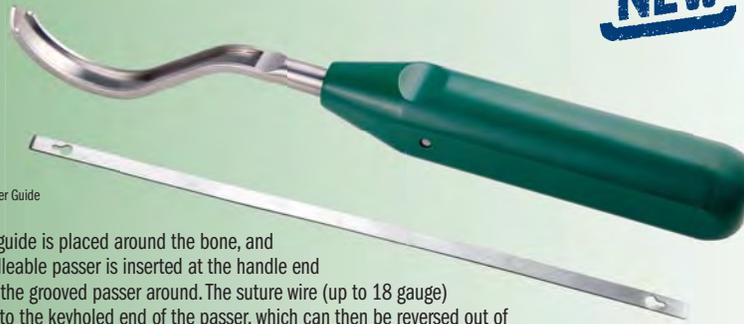
Passer guide and malleable passer designed to pass suture wires around a bone

PRODUCT NO'S:	
8300-00	[Set]
Also available individually:	
8300-01	[Passer Guide] Overall Length: 8.125" (20,6cm) Outside Width: 9mm Inside Groove Width: 6.5mm
8300-02	[Passer] Overall Length: 7.5" (19,1cm) Width: 4.6mm

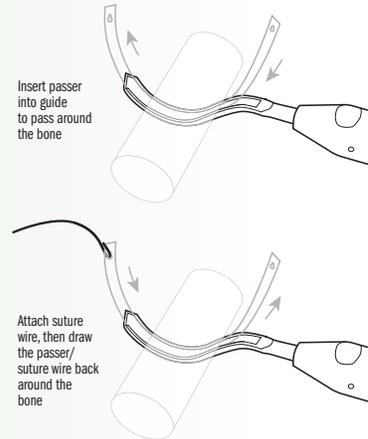
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Set includes Passer Guide and two Passers.

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.



NEW



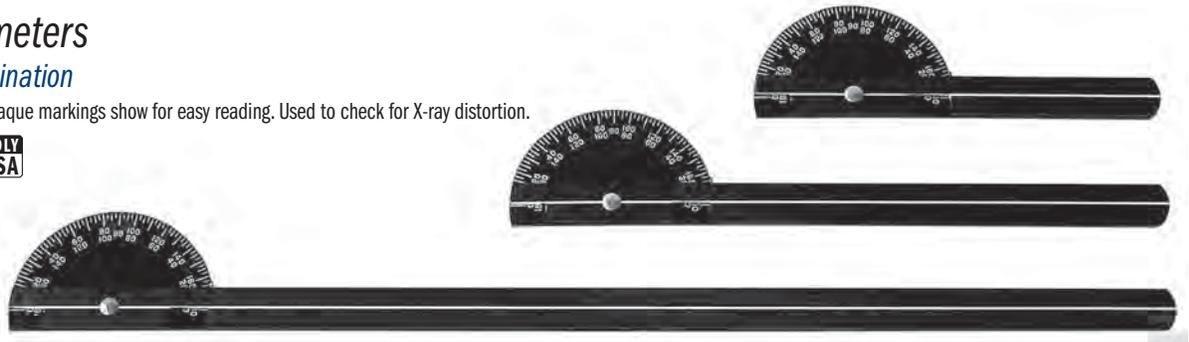
Radiopaque Goniometers

Designed for Angle Determination

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

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

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Ortho Caliper

Designed by Odell Woods

PRODUCT NO:	
5285	Caliper: 0 to 12cm Leg Depth: 2" (5,1cm) Overall Length: 6" (expands to 10.5") Width: 8mm

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AccuAngles

for Tibial Cut Reference During Total Knee Replacement Surgery

Can help to provide a visual aid in determining if the center line of the tibia is 90 degrees perpendicular to the floor

Can be used individually or in combination.



Tibia AccuAngle

Tibia Alignment AccuAngle

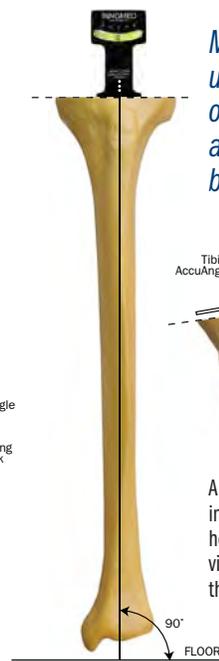
Tibia AccuAngle

Designed to be placed on the tibia cutting block to check if the cut is level

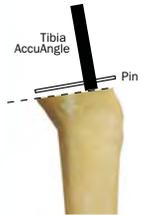
Magnetic base helps to hold the AccuAngle in place on a cutting block.



PRODUCT NO:
1145
Dimensions:
2"x 3" (5,1cm x 7,6cm)



May also be used on top of the tibia after cut has been made



A pin may be inserted in the holes to provide a visual reference of the cut's slope.



Tibia Alignment AccuAngle

Designed to clamp onto the tibia alignment bar of most knee systems

Helps to confirm upright bar is perpendicular to the floor.



PRODUCT NO:
1140
Dimensions:
2"x 1" (5,1cm x 2,5cm)



Shin AccuAngle

Designed to be attached to the shin with straps to help provide a visual reference throughout the surgery

May remain attached after the tibia alignment bar has been removed to help provide a visual reference throughout the surgery.

PRODUCT NO:
1155
Dimensions: 3.5"x 8" (8,9cm x 20,3cm)
Set of two velcro straps included.

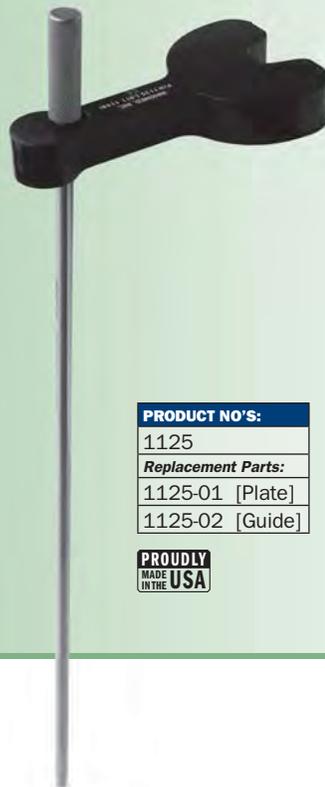


Prototype Shown

Cannestra Tibia Alignment Guide Assembly

Designed by Vince Cannestra, MD

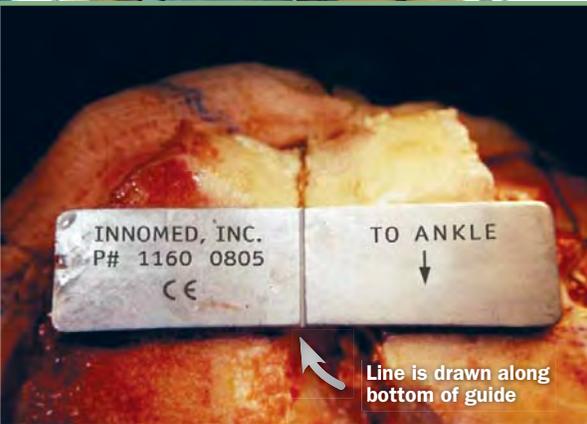
Helps determine an accurate, level tibial cut during total knee arthroplasty



PRODUCT NO'S:
1125
Replacement Parts:
1125-01 [Plate]
1125-02 [Guide]



This extramedullary alignment guide helps indicate whether the proximal tibial resection is in too much varus or valgus alignment, as demonstrated by the position of the alignment rod over the ankle joint.



Line is drawn along bottom of guide

Trans-sulcus Angle Guide

Helps to establish the trans-sulcus line



PRODUCT NO:
1160
<i>Dimensions: 2.25" x .75" (5,7cm x 1,9cm)</i>
<i>Post Depth: 1.5" (3,8cm)</i>



A line is drawn down the deepest part of the trochlear sulcus (Whiteside line) with a marking pen or cautery. The post on the guide is inserted into the hole in the femur made for an intramedullary alignment guide. The trans-sulcus angle guide is then rotated until the line on the guide lines up with the Whiteside line. A line is then drawn along the bottom of the guide.

Merchant Surgical Goniometer

Designed to help assess frontal plane limb alignment or measure the Q angle

Designed by Alan Merchant, MD



Collapsible and steam sterilizable.

The extended length can reach from the center of the knee to the femoral head or the anterior superior iliac spine. The collapsible stainless steel device is autoclavable.

PRODUCT NO:
2029
<i>Overall Length: 41" Fully Extended (104,2cm)</i>
<i>22.5" Folded in Half (57,2cm)</i>
<i>12" Fully Collapsed (30,5cm)</i>

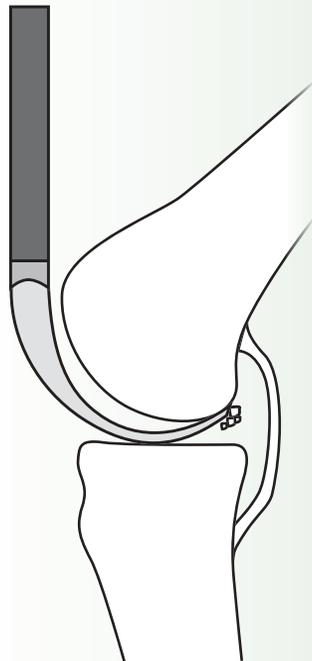


Modified Lambotte Osteotomes

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" (3,2mm) hole in which an 1/8" (3,2mm) pin can be used as a cross bar (not included).

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



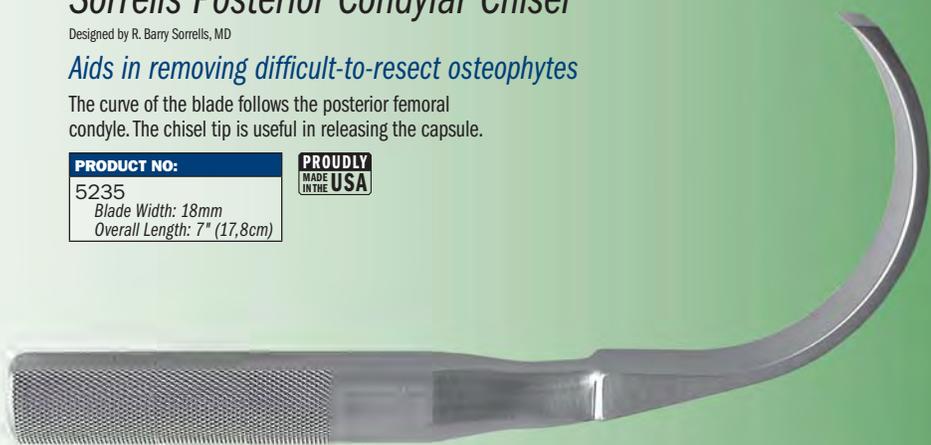
Sorrells Posterior Condylar Chisel

Designed by R. Barry Sorrells, MD

Aids in removing difficult-to-resect osteophytes

The curve of the blade follows the posterior femoral condyle. The chisel tip is useful in releasing the capsule.

PRODUCT NO:
5235 Blade Width: 18mm Overall Length: 7" (17,8cm)



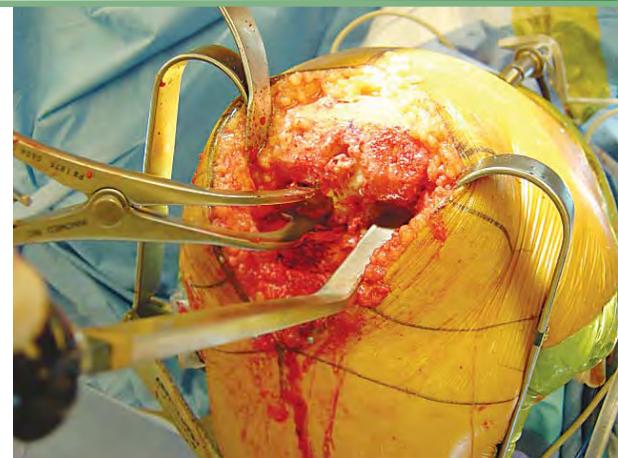
Angled Osteotome

Designed by S. David Stulberg, MD

Helps to remove the cut tibia plateau in minimally invasive knee surgery

30° angled blade, beginning 3 inches from the end, allows for easier insertion.

PRODUCT NO:
4940 Overall Length: 12.75" (32,4cm) Handle Length: 4.5" (11,4cm) Blade Width: 13mm





Wide Offset Osteotome

Designed by Paul Lotke, MD & Adam Rosen, DO

Designed to remove osteophytes from the posterior femoral condyles during knee arthroplasty

PRODUCT NO:

4920

Blade Width: 18.5mm

Overall Length: 9" (22.9cm)

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Lotke Offset Osteotome

Designed by Paul Lotke, MD

Designed to remove osteophytes from the posterior femoral condyles during knee arthroplasty

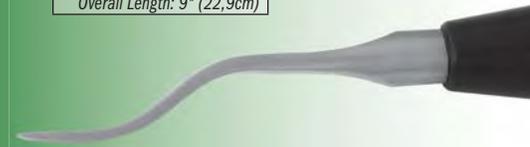
PRODUCT NO:

4935

Blade Width: 13mm

Overall Length: 9" (22.9cm)

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Dennis Offset Osteotome

Designed by Douglas Dennis, MD & Paul Lotke, MD

Designed to remove osteophytes from the posterior femoral condyles during knee arthroplasty

PRODUCT NO:

4935-W

Blade Width: 18.5mm

Overall Length: 9" (22.9cm)

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Paulos Osteo Wedges Designed by Lonnie E. Paulos, MD

Designed to help cut and separate bone segments for angular corrections of long bones

After an initial bone cut has been made with a saw blade or sharp osteotome—but before penetrating through it—the osteo wedges can be used to help complete the bone cut through the opposite cortex by splitting the bone.

If the osteo wedges do penetrate, they are blunt and rounded, helping to prevent damage to the soft tissues and other structures contiguous to the bone cortex.

The osteo wedges can be used anytime both cortices of a bone are osteotomized. Helpful when correcting mal-unions, growth deformities, collecting bone graft material, etc. Can be used on the femur, tibia, humerus, clavicle, calcaneus, metatarsals/metacarpals, pelvis, and vertebral bodies.

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PRODUCT NO'S:

6425-01 [Small]
Overall Length: 9.375" (23,8cm)
Blade Width: 13.9mm
6425-02 [Medium]
Overall Length: 9.375" (23,8cm)
Blade Width: 25.1mm
6425-03 [Large]
Overall Length: 9.375" (23,8cm)
Blade Width: 37.8mm

Cobb Elevators

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

PRODUCT NO'S:
3436 [1/2"]
Overall Length: 11" (27,9cm)
3438 [1"]
Overall Length: 11" (27,9cm)

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Bradley Periosteal Elevator

Designed by Gary W. Bradley, MD

PRODUCT NO:
4720
Overall Length: 11" (27,9cm)

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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]	3455 [Straight]
Overall Length: 7.5"	Overall Length: 7.75"
Handle Length: 4.5" (11,4cm)	Handle Length: 4.5" (11,4cm)
Blade Size: 16x13mm	Blade Size: 19x14mm

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Scott Uni & Total Knee Cement Removing Curette

Designed by Richard D. Scott, MD

Sized, shaped and angled 90° to help with retrieval of posteriorly extruded cement behind the tibial component in both total and unicompartmental knee arthroplasty

Ultra hard titanium nitride coating helps to extend curette life by increasing surface hardness, prolonging sharpness, and resisting chemicals and corrosion, while helping to eliminate metal transfer and protect the implant surface.

PRODUCT NO:

4247

Overall Length: 9.625" (24,4cm)

Overall Length: 5.25" (13,3cm)

Cup Size: 4/0

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NEW

The tool has a blunt blade tip on one end to help with separation of the trimmed cement. The angled curette end helps gather the trimmed cement. The thin shank and angled curette can reach into tight spaces such as the back of the implants to remove excess cement. The ends are titanium nitrite coated, which helps to extend curette life by increasing surface hardness, prolonging sharpness, and resisting chemicals and corrosion, while helping to eliminate metal transfer and protect the implant surface

Bozeman Cement Trimmer

Designed by Daniel M. Gannon, MD

Combines the two most common cement trimming tools into one



PRODUCT NO:

5245

Overall Length: 8.5" (21,6cm)

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Seachris Delrin Cement Scraper

Designed by Timothy Seachris

Reusable delrin scraper is designed to help remove cement around a knee or hip prosthesis

PRODUCT NO:

5218

Overall Length: 5" (12,7cm)

Thickness: 1/8" (3,1mm)

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PRODUCT NO:

5635

Overall Length: 8" (20,3cm)

Freer End: 5mm

Cup End: 10mm

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Robb Cement Curette

Designed by William Robb, MD

Designed to help remove cement around a hip or knee prosthesis

Made of Delrin



NEW



Sarraf Spearhead Cement Exciser

Designed by Khaled M. Sarraf, MD

Two-in-one instrument designed for cement removal during arthroplasty surgery

PRODUCT NO:
5211
Overall Length: 7.75" (19,7cm)

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- ▶ The curved semicircular tip is congruent to most tibial plates and femoral condylar implants, helping to facilitate removal of excess cement, especially at the tight posterior aspect
- ▶ The spearhead tip assists in excising and shaping the unset cement
- ▶ Ultra hard titanium nitride coating helps to extend curette life by increasing surface hardness, prolonging sharpness, and resisting chemicals and corrosion, while helping to eliminate metal transfer and protect the implant surface



- ▶ The curved semicircular tip is congruent to most tibial plates and femoral condylar implants, helping to facilitate removal of excess cement, especially at the tight posterior aspect
- ▶ The small scoop-end tip assists in excising unset cement
- ▶ Ultra hard titanium nitride coating helps to extend curette life by increasing surface hardness, prolonging sharpness, and resisting chemicals and corrosion, while helping to eliminate metal transfer and protect the implant surface



Sarraf Cement Trimmer

Designed by Khaled M. Sarraf, MD

Two-in-one instrument designed for cement removal during arthroplasty surgery

NEW

PRODUCT NO:
5212
Overall Length: 7.75" (19,7cm)

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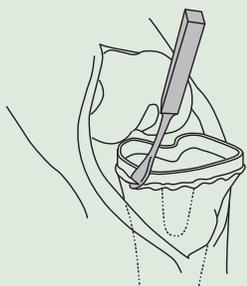
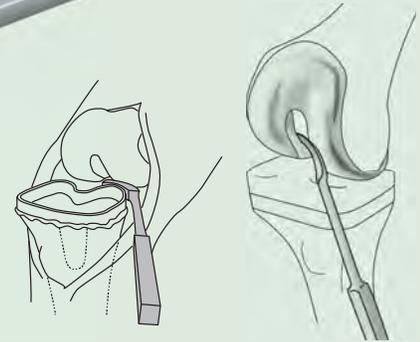
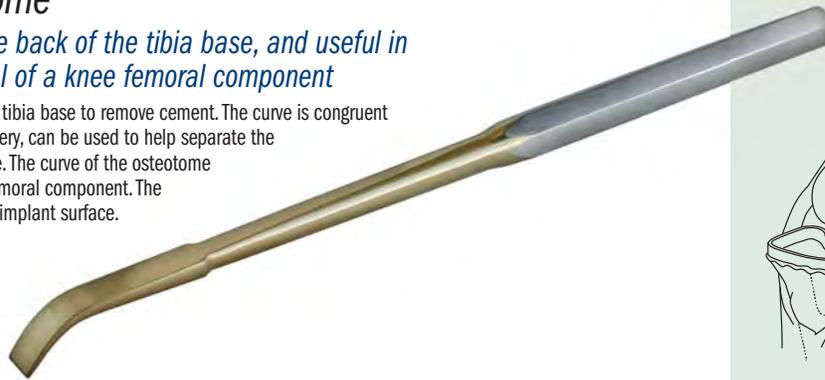
Curved Cement Osteotome

Helps remove cement around the back of the tibia base, and useful in the femoral notch during removal of a knee femoral component

Designed to be inserted around the back of the tibia base to remove cement. The curve is congruent with most tibia bases. During revision knee surgery, can be used to help separate the prosthesis/bone or prosthesis/cement interface. The curve of the osteotome allows it to be used in the femoral notch of a femoral component. The osteotome is nitrate coated to help protect the implant surface.

PRODUCT NO:
5220
Overall Length: 6.75" (17,1cm)
Handle Length: 3" (7,6cm)
Blade Width: 3.5mm

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Cement Remover

Helps remove unhardened cement around femoral and tibial knee components

Designed with a sharper face to help remove unhardened cement around femoral and tibial knee components. The remover is nitrate coated to help protect implant surfaces.

PRODUCT NO:
5230
Overall Length: 7.25" (18,4cm)
Handle Length: 5" (12,7cm)
Blade Width: 5mm

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Long Jaw Needle Nose Pliers

PRODUCT NO:

1833

Overall Length: 7" (17,8cm)
Jaw Length: 2.25" (5,7cm)
Jaw Width Tapered from: 8mm to 1.5mm
Jaw Height Tapered from: 12mm to 2.5mm

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Ring Curettes



PRODUCT NO'S:

Straight Shaft

Overall Length: 8.75" (22,2cm)

5150 [3mm, Straight]
Ring Diameter: 3mm

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5152 [6mm, Straight]
Ring Diameter: 6mm

5154 [8mm, Straight]
Ring Diameter: 8mm

PRODUCT NO'S:

Bent Shaft

Overall Length: 8.625" (21,9cm)

5156 [3mm, Bent]
Ring Diameter: 3mm

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5157 [6mm, Bent]
Ring Diameter: 6mm

5158 [8mm, Bent]
Ring Diameter: 8mm

Redler ACL Guide Wire Stabilizer

Designed by M.R. Redler, MD

Designed to control the guide wire used to direct the reaming or dilating of the tibial tunnel

The conical close-ended design helps insure that the guide wire tip remains captured and helps to minimize the chances of the guidewire slipping. The tempered nitrate coated steel head helps to minimize the risk of metal shavings being introduced into the joint while the guide wire position is maintained.

Designed to work with all ACL instrument sets, the head of the ACL Guide Wire Stabilizer will easily fit through any standard arthroscopic portal.

PRODUCT NO:

5210

Overall Length: 9.5" (24,1cm)
Handle Length: 4" (10,2cm)
Cup Outside Diameter: 4mm
Cup Inside Diameter: 2mm

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Cement Packer & Trimmer

Designed by Harlan C. Amstutz, MD

PRODUCT NO:

4995

Overall Length: 9.75" (24,8cm)

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McMaster Medullary Canal Aspirator Designed by William McMaster, MD

Designed to aspirate the medullary canal prior to insertion of the solid instrumentation alignment rod to decrease the amount of semi-liquid material present

Helps evacuate excess fat and marrow content from the medullary canal of a long bone, helping to reduce the pressure and force created during insertion of a metal rod into the canal. The guide wire serves a dual purpose: To help break up the medullary bone in the proximal metaphysis to facilitate the passage of the fenestrated rod, and after the procedure to assist in cleaning and clearing the cannulated portion of the rod.

Also can be used on the tibial side if an intramedullary guide system is used. Can also be used during femoral rodding procedures for fractures.



PRODUCT NO:
8075
Aspirator Overall Length: 18" (45,7cm)
Guide Wire Overall Length: 19" (48,3cm)

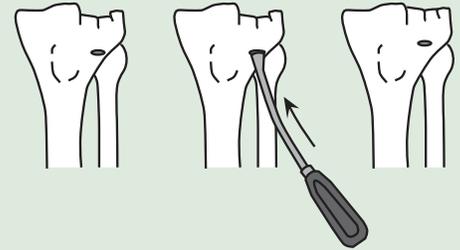
Malleable Bone Tamps Modified by Serge Kaska, MD

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

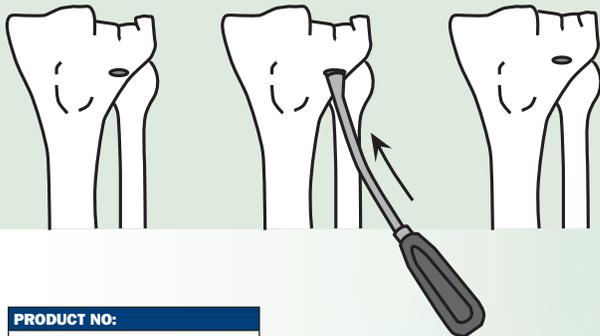
PRODUCT NO'S:

5296 [Large]
Overall Length: 14" (35,6cm)
Shaft Length: 9.5" (24,1cm)
Impactor Diameter: 12,5mm

5296-01 [Small]
Overall Length: 9.5" (24,1cm)
Shaft Length: 6" (15,2cm)
Impactor Diameter: 10mm



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" (35,6cm)
Shaft Length: 9.5" (24,1cm)
Impactor Diameter: 12,5mm (.5")



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.

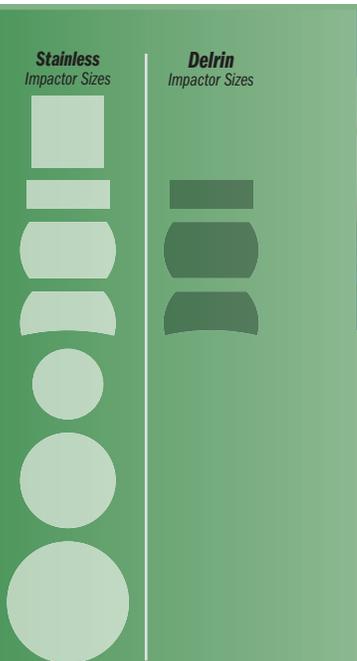
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PRODUCT NO.'S:	
Short: 6" (15,2cm) Length	Long: 10" (25,4cm) Length
5010-01 1/8" (3,2mm) Diameter End	5050-01 1/8" (3,2mm) Diameter End
5010-02 3/16" (4,8mm) Diameter End	5050-02 3/16" (4,8mm) Diameter End
5010-03 1/4" (6,3mm) Diameter End	5050-03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



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



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

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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.



Ortho Impactors

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

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Femoral Trial Extraction Hook *Designed to help remove a trial femoral component during total knee arthroplasty*



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PRODUCT NO'S:	
3635	[Hook with Slap Hammer]
3635-01	[Hook Only] Overall Length: 2.85" (7,2cm) Hook End: 5mm X 5mm
3040	[Slap Hammer] Overall Length: 6.75" - 10" (17,1cm - 25,4cm)



Stanton Pin Extractor

Designed by John L. Stanton, MD, FACS

Designed to tightly grasp and apply torque to help remove standard 1/8" (3.2mm) pins used during knee arthroplasty surgery

PRODUCT NO:
1892
Overall Length: 5.25" (13,3cm)

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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" (10,2cm)
Chuck Key Not Included

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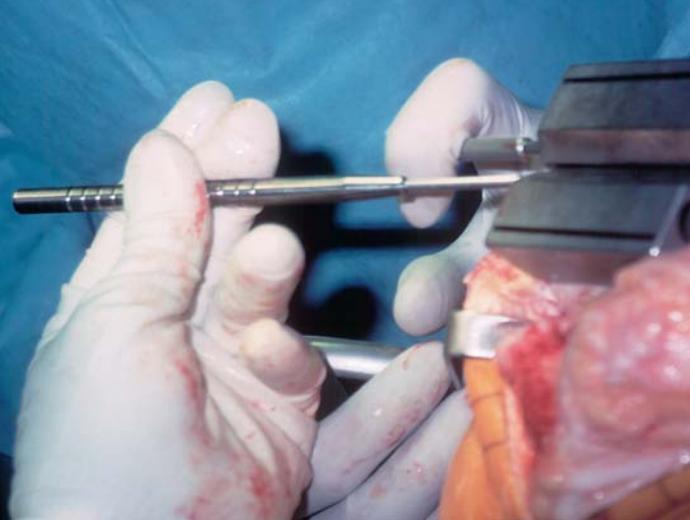
Large Handle Chuck Key

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" (6,4mm)
Overall Length: 10.5" (26,7cm)
Handle Length: 4.5" (11,4cm)

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Pin Inserter

Used for 1/8" (3.2mm) diameter pin insertion

Designed to hold onto a 1/8" (3.2mm) diameter pin while it is being inserted into a cutting block during total knee surgery or other applications where a 1/8" (3.2mm) diameter pin is used. The pin inserter holds the pin tightly, yet releases it easily after insertion. It may be used with round or triangular end pins.



PRODUCT NO:
4020
Overall Length: 5" (12,7cm)

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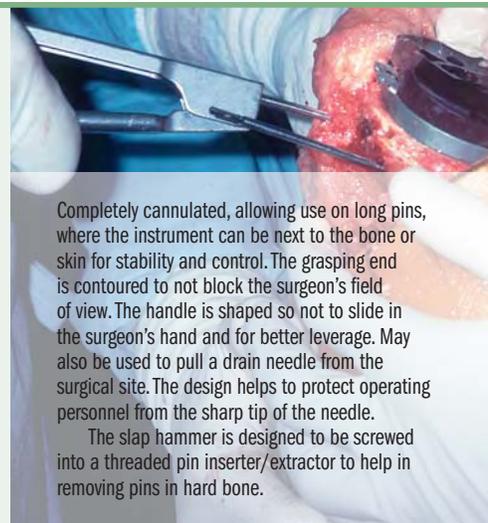
Pin Inserter/Extractor

Helps provide better leverage, stability and control when inserting/extracting pins

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PRODUCT NO'S:

3020 [For 1/8" (3.2mm) Pins]
3020-T-00 [For 1/8" (3.2mm) Pins, with Slaphammer and Case]
3020-T [For 1/8" (3.2mm) Pins, Threaded to Accept slap hammer]
3030 [For 3/16" (4.8mm) Pins]
3040 [Slap Hammer] Thread: 5/16"x 18
1015 [Sterilization Case]



Completely cannulated, allowing use on long pins, where the instrument can be next to the bone or skin for stability and control. The grasping end is contoured to not block the surgeon's field of view. The handle is shaped so not to slide in the surgeon's hand and for better leverage. May also be used to pull a drain needle from the surgical site. The design helps to protect operating personnel from the sharp tip of the needle.

The slap hammer is designed to be screwed into a threaded pin inserter/extractor to help in removing pins in hard bone.

Pin Driver and Threaded Bone Pins



PRODUCT NO'S:

1/8" (3.2mm) Pins - Packages of 10:
1287 [85mm Threaded Bone Pin]
1290 [65mm Threaded Bone Pin]
1297 [55mm Threaded Bone Pin with Collar]

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PRODUCT NO'S:

1206 [Pin Driver w/Quick-connect End] Overall Length: 5" (12,7cm)
1205 [Pin Driver] Overall Length: 3.75" (9,5cm)

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Shouldered Bone Pins



PRODUCT NO'S:

Packages of 10:	
1270 [1/8"] Diameter: 3.2mm (.125") Overall Length: 70mm Shoulder-to-tip: 45mm	1271 [1/16"] Diameter: 1.6mm (.062") Overall Length: 70mm Shoulder-to-tip: 45mm

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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



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Average Radiation Attenuation Levels Measured in the Direct Beam

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

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

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



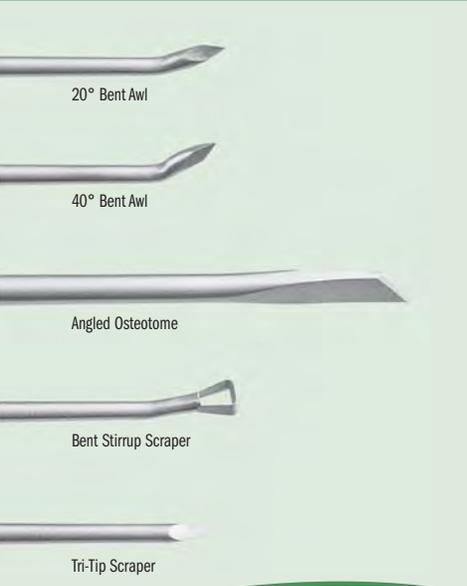
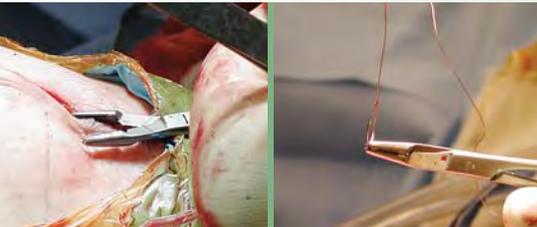
Orthopedic Needle Holder/Scissors

Drive a needle and cut a suture without changing instruments

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

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Longer sizes are helpful in orthopedics



Nordt Precision Micro Fracture Set

Designed by William E. Nordt, III, MD

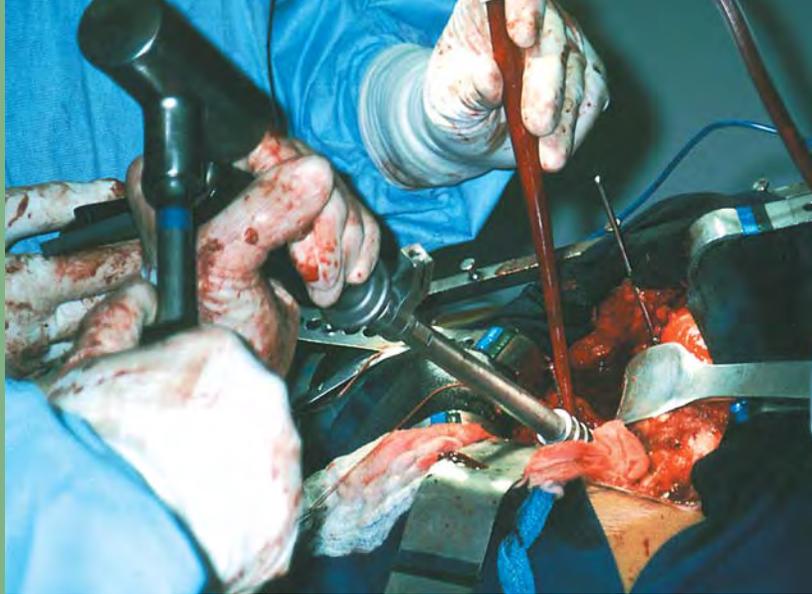


- ▶ Helps create sharp cartilage shoulders
- ▶ Precise microfracture points

NEW

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

**PROUDLY
MADE
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USA**



Designed by J. Stehl, MD

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:

7805 [Cloward-Style]
Overall Length: 8" (20,3cm)
Handle Length: 4.5" (11,4cm)
Head Weight: 1 lb. (.45 kg)
Head Diameter: 1" (2,54cm)
Ball Pean Diameter: .75"

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

7815 [Large]
Overall Length: 8" (20,3cm)
Handle Length: 4.5" (11,4cm)
Head Weight: 1.75 lb. (.8 kg)
Head Diameter: 1.5" (3,8cm)

Textured soft silicone handle



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



PRODUCT NO:

7825 [2.4 lbs]
Overall Length: 8.25" (21cm)
Head Width: 3" (7,6cm)
Head Diameter: 1.5" (3,8cm)



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.



NEW

Soft Impact Mallet with Weidman Silicone Handle

Soft Impact Mallets with Easy Grip Handles

Provides shock-absorbing force

Designed to have a shock-absorbing force, providing less bounce or wasted force. The Mallet is filled with a shock-absorbing media and has a flat striking surface to keep the Mallet centered on an instrument. The standard handle is manufactured of copolymer. The bottom can also be used to tap an implant in place.

PRODUCT NO'S:

7820 [2 lbs. Standard]
Weight: 2 lbs. (.907 kg)
Overall Length: 10.5" (26,7cm)
Handle Length: 5" (12,7cm)
Head Width: 3.5" (8,9cm)
Head Diameter: 1.375"

7832 [2 lbs. With Delrin End]
Weight: 2 lbs. (.907 kg)
Overall Length: 10.5" (26,7cm)
Handle Length: 5" (12,7cm)
Head Width: 3.5" (8,9cm)
Head Diameter: 1.375"

7821 [2 lbs. With Weidman Handle]
Weight: 2 lbs. (.907 kg)
Overall Length: 10.625" (27cm)
Grip Length: 5.5" (14cm)
Head Width: 3.5" (8,9cm)
Head Diameter: 1.375" (3,5cm)

NEW

7837 [3 lbs. Standard]
Weight: 3 lbs. (1.35 kg)
Overall Length: 11" (27,9cm)
Handle Length: 5" (12,7cm)
Head Width: 3.5" (8,9cm)
Head Diameter: 1.875"



Long Bonney Tissue Forceps

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



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

MADE EXCLUSIVELY
FOR INNOMED IN
GERMANY

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.

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

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FOR INNOMED IN
GERMANY



Ortho Suction Tube

Designed by T. Eickmann, MD

Very effective for suction and minor retracting

Helps eliminate plugging due to bone, cement fragments, blood clots, etc.



PRODUCT NO:
5465
Overall Length: 9.25" (23,5cm)
End Hole Dia.: 1mm
Side Hole Dia.: 1.5mm

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USA



Delrin Insert Pliers

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

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

PROUDLY
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IN THE
USA

NEW



Dodson Extremity Skin Saver

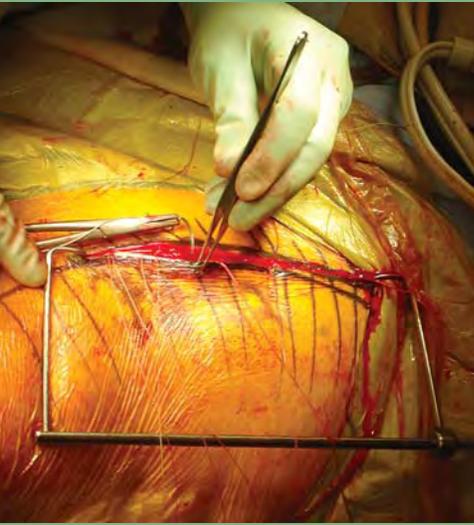
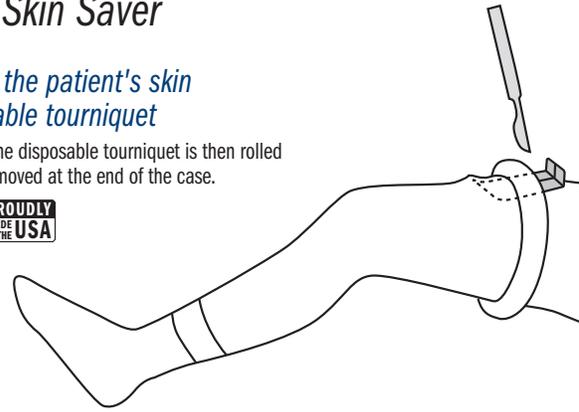
Designed by Mark A. Dodson, MD

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

After the device is laid on the skin, the disposable tourniquet is then rolled over it, and stays in position until removed at the end of the case.

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

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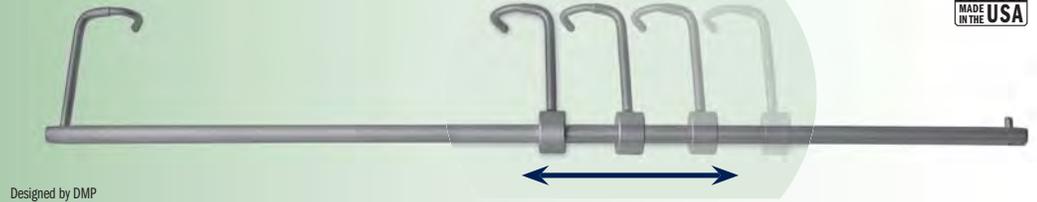
Incision Aligner

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.

Designed to align an incision during closing

PRODUCT NO:
1330
Overall Length: 14" (35,6cm)
Blade Offset: 45mm

**PROUDLY
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USA**



Designed by DMP



Universal Multi-Nut Wrench

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

PRODUCT NO:
5074
Overall Length: 7" (17,8cm)
Wrench End: 3/4" to 1/4" (19mm to 6.4mm)

**PROUDLY
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USA**



Adjustable Wrench

Designed for quick one-handed adjustments

Opens to 7/8" (22mm)

PRODUCT NO:
5015
Overall Length: 8" (20,3cm)
Handle Length: 5.5" (14cm)

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Star Bit Driver Set

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

PROUDLY
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USA

PRODUCT NO'S:

5194-00 [4 Star Bits w/Handle & Case]
5194-01 [4 Star Bits w/Case only]
Also sold individually:
S0113 [Universal 4" Handle]
5194-10 [T10 with A/O End]
5194-15 [T15 with A/O End]
5194-20 [T20 with A/O End]
5194-25 [T25 with A/O End]
9003 [Case]



Set in Storage Case



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



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.



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]
Individual/Replacement Parts
S0113 [Universal 4" (10,2cm) Handle]
S0128 [1.5mm Screw Extractor]
S0116 [2.5mm Screw Extractor]
S0130 [3.5mm Screw Extractor]
S0117 [1.5mm Hex Driver]
S0114 [2.5mm Hex Driver]
S0115 [3.5mm Hex Driver]
S0132 [4.0mm Hex Driver]
S0133 [5.0mm Hex Driver]
S0136 [2.5mm Cannulated Hex Driver]
S0137 [3.5mm Cannulated Hex Driver]
S0138 [4.0mm Cannulated Hex Driver]
S0139 [5.0mm Cannulated Hex Driver]
S0118 [Large Cruciform Screwdriver]
S0119 [Small Cruciform Screwdriver]
S0141 [Mini Cruciform Screwdriver]
S0120 [Single Slot Screwdriver]
S0121 [2.2mm Trephine]
S0122 [3.2mm Trephine]
S0123 [4.2mm Trephine]
S0124 [4.7mm Trephine]
S0125 [7.2mm 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" (50,8cm x 23,5cm)

PROUDLY
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IN THE
USA



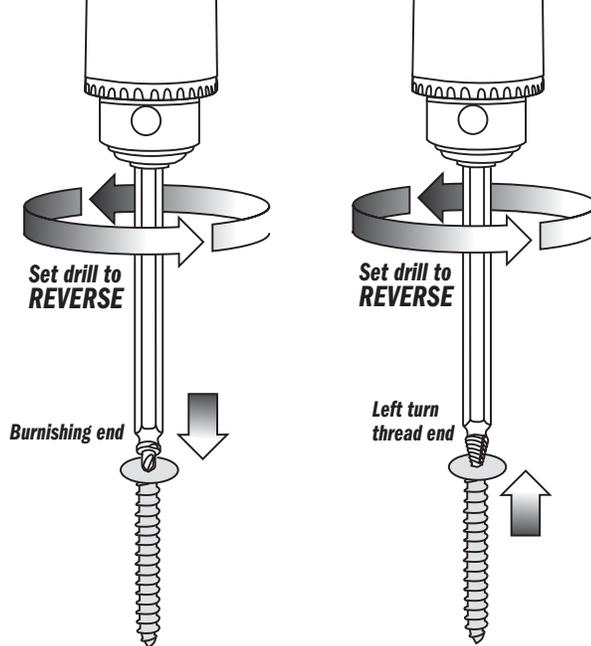
Screw Extractor Set

Designed to help remove screws with stripped or damaged heads

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



- ▶ 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" (1.6mm) deep, as burnishing too deep can weaken the screw head.



Cheng Screw Removal and Bone Trepine Set

Designed by Edward Cheng, MD

Cannulated to allow use of a standard 1.6mm (.062") threaded K-wire is used to help facilitate grasping and removal of a core bone sample

Cannulated handle assembly allows the passing of the threaded K-wire. (K-wire not included.)

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



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

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



Universal Screwdriver Set

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

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

PRODUCT NO'S:
5195 [Complete Set with Storage Case] Also sold individually
5195-01 [Handle]
5195-02 [Straight (single slot)] Large: 7x1.5mm, Small: 5x1mm
5195-03 [Cross/Cruciate] Large: 7mm, Small: 6mm
5195-04 [Hex] Large: 4.5mm, Small: 3.5mm
5195-05 [Phillips] Large: 4mm, Small: 3.5mm
5195-06 [Small Star: #10 & #15]
5195-07 [Large Star: #20 & #25]



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

PRODUCT NO:

1215-00

Includes Sterilization Case

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Set includes:

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



PRODUCT NO:

SO142

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

**PROUDLY
MADE IN THE USA**

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

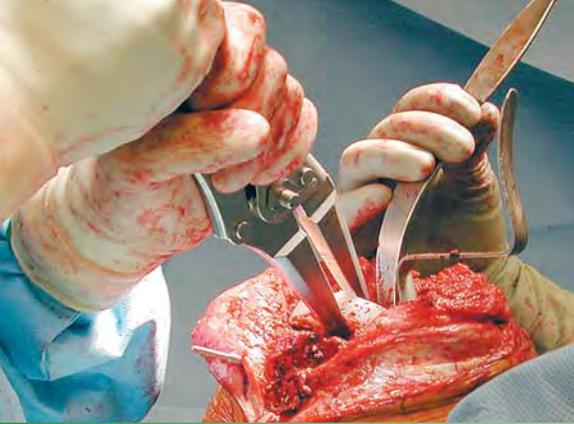
PRODUCT NO:

2020

Overall Length: 8 (20,3cm)

**PROUDLY
MADE IN THE USA**





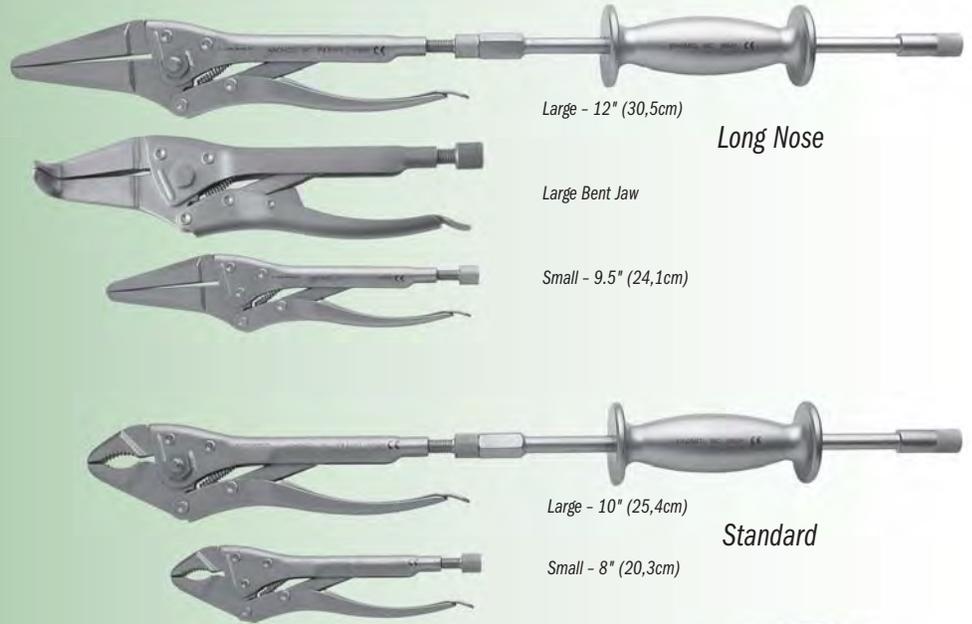
OrthoVise™

Made of stainless steel, the OrthoVise™ is designed with the option of using a slap hammer for greater adaptability.

On OrthoVise™ models equipped with attachments, a slap hammer can be attached to the end of the OrthoVise™, as well as to either side of the large slap hammers (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



Large - 12" (30,5cm)

Long Nose

Large Bent Jaw

Small - 9.5" (24,1cm)

Large - 10" (25,4cm)

Standard

Small - 8" (20,3cm)



MADE EXCLUSIVELY
FOR INVOICED IN
GERMANY

PRODUCT NO'S:

Standard	Long Nose
3980 [Large 10" (25,4cm) with Large Slap Hammer]	3965 [Large 12" (30,5cm) with Large Slap Hammer]
3980-01 [Large 10" (25,4cm) w/o Slap Hammer, w/Attachments]	3965-01 [Large 12" (30,5cm) w/o Slap Hammer, w/Attachments]
3981 [Large 10" (25,4cm) without Slap Hammer or Attachments]	3966 [Large Bent Jaw w/Slap Hammer]
3985 [Small 8" (20,3cm) without Slap Hammer or Attachments]	3966-01 [Large Bent Jaw w/o Slap Hammer, w/Attachment]
3985-01 [Small 8" (20,3cm) with Small Slap Hammer]	3975 [Small 9.5" (24,1cm) without Slap Hammer or Attachments]
	3975-01 [Small 9.5" (24,1cm) with Small Slap Hammer]

U.S. Patent #D398,208



Boynton Punch

Designed by L. Boynton, MD

Helpful in removing trial, femoral and revision total knee components



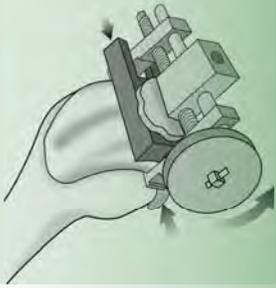
The flange end fits onto the flange of a femoral knee component or trial.

PRODUCT NO'S:

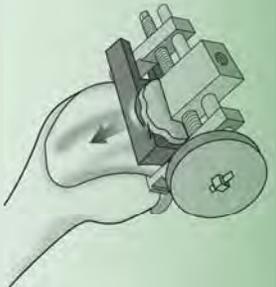
5120-01 [Standard] Overall Length: 11.75" (29,8cm) Shaft Diameter: 9.5mm	5120-02 [Offset] Overall Length: 11.75" (29,8cm) Shaft Diameter: 9.5mm Punch End Offset: 60mm
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PROUDLY
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USA

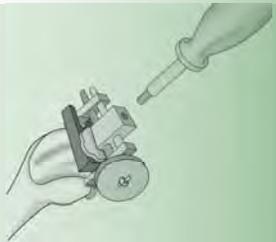
Attaching Jaws To Component
The jaws are tightened against the femoral component with the socket wrench or tightening wheel.



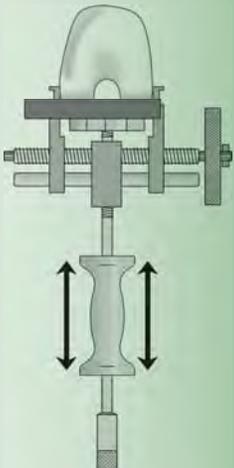
Stabilizing The Component
The delrin stabilizing insert is tightened against the femoral component by rotating the thumbwheel.



Attaching Slap Hammer Assembly
The slap hammer assembly is threaded into the extractor body.



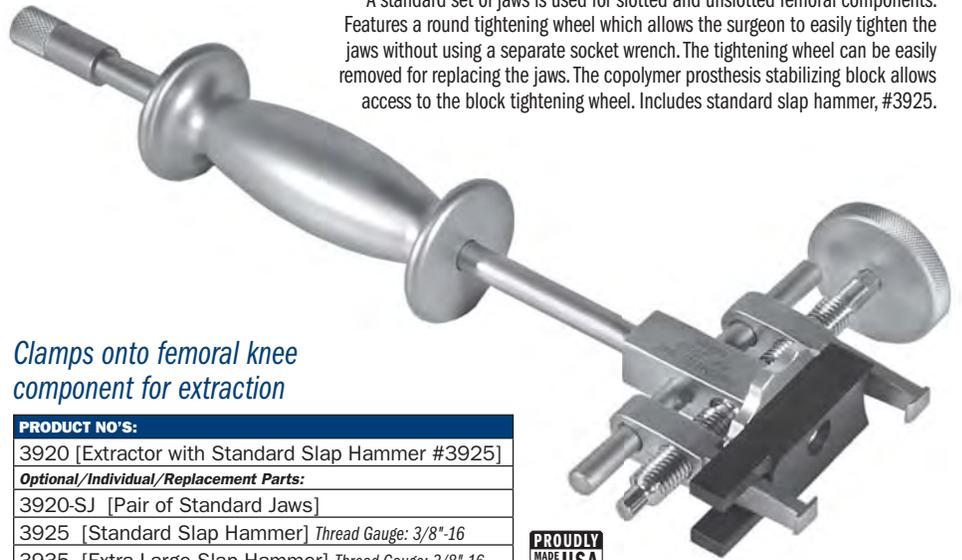
Using Slap Hammer Assembly To Remove Component
The slap hammer is also designed with a hammer flare for optional use with a mallet.



Femoral Component Extractor

Universal extraction instrument for total knee revision surgery

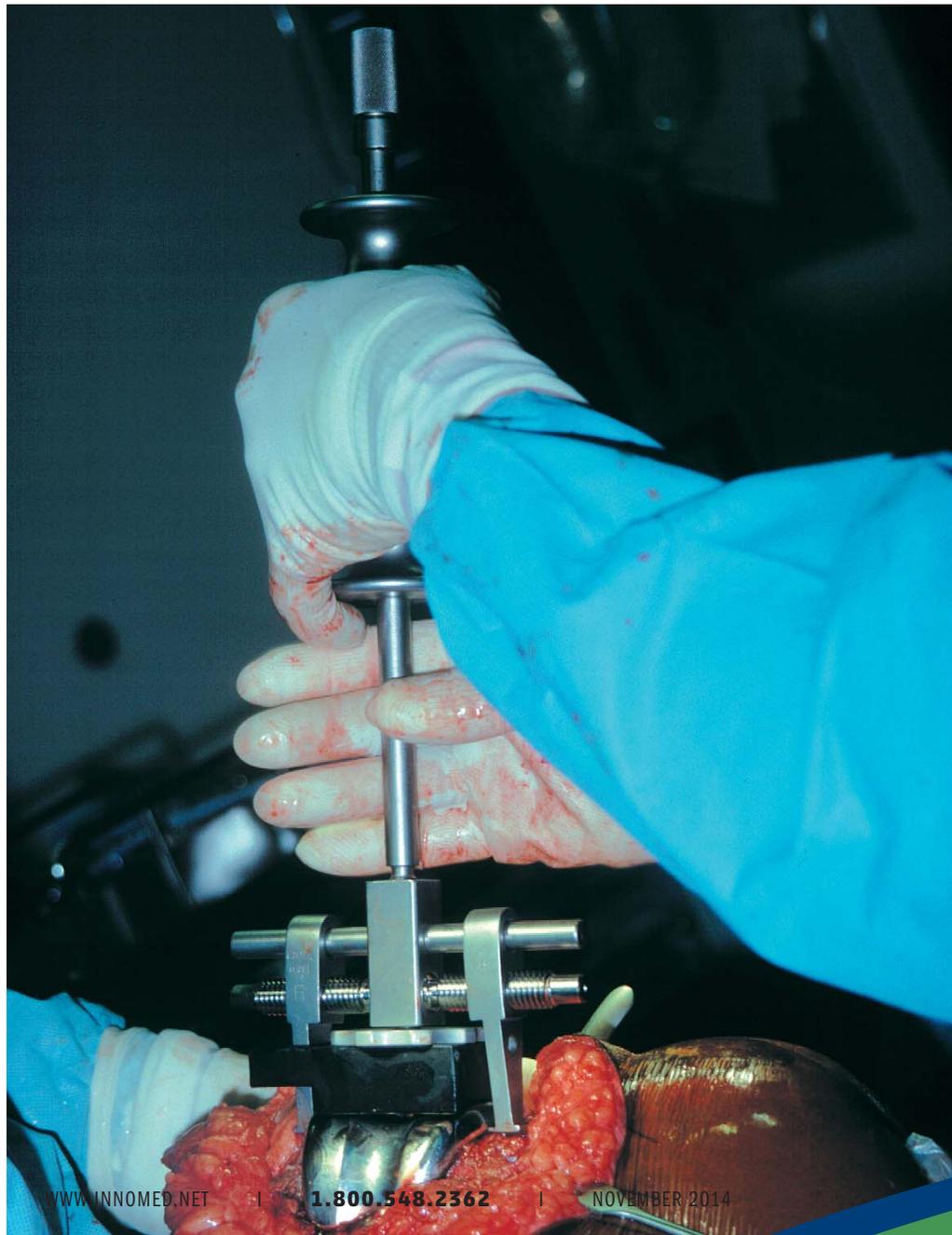
A standard set of jaws is used for slotted and unslotted femoral components. Features a round tightening wheel which allows the surgeon to easily tighten the jaws without using a separate socket wrench. The tightening wheel can be easily removed for replacing the jaws. The copolymer prosthesis stabilizing block allows access to the block tightening wheel. Includes standard slap hammer, #3925.



Clamps onto femoral knee component for extraction

PRODUCT NO'S:	
3920	[Extractor with Standard Slap Hammer #3925]
Optional/Individual/Replacement Parts:	
3920-SJ	[Pair of Standard Jaws]
3925	[Standard Slap Hammer] Thread Gauge: 3/8"-16
3935	[Extra Large Slap Hammer] Thread Gauge: 3/8"-16

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Lachiewicz-Hoover Patella Retractor

Designed By Paul Lachiewicz, MD & Steve Hoover, MD

Helps prevent harm to the polyethylene implant from scratches, gouges, and bovie cautery during debridement and removal of other components

In primary TKA, it is used after implantation of components so the surgeon can debride the lateral gutter of synovium and for exposure for hemostasis laterally. Also extremely valuable for revisions in which a well fixed patella component is to be retained.



PRODUCT NO:

3235

Overall Length: 6.5" (16,5cm)

Patella Pad Diameter: 1.5" (3,8cm)

Patella Pad Thickness: .25" (6,3mm)

**PROUDLY
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USA**

PRODUCT NO'S:

5270-01

Blade Width: 4mm

Overall Length: 7.25" (18,4cm)

Handle Length: 4" (10,2cm)

5270-02

Blade Width: 6mm

Overall Length: 7.25" (18,4cm)

Handle Length: 4" (10,2cm)

5270-03

Blade Width: 10mm

Overall Length: 7.25" (18,4cm)

Handle Length: 4" (10,2cm)

5270-04

Blade Width: 12mm

Overall Length: 7.25" (18,4cm)

Handle Length: 4" (10,2cm)

**MADE FOR INNOVEM IN
GERMANY**



Mini-lexer Osteotomes

Helpful with osteophyte and cement removal

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

Eickmann Knee Revision Set

Designed by Thomas Eickmann, MD

PRODUCT NO'S:

5470-00 [Complete Set]

Individual Instruments:

5470-08 [8mm Chisel]

Osteotome Width: 8mm

Blade Length: 2.375" (6cm)

Overall Length: 7.375" (18,7cm)

5470-11 [11mm Chisel]

Osteotome Width: 11mm

Blade Length: 2.375" (6cm)

Overall Length: 7.375" (18,7cm)

5470-20 [20mm Chisel]

Osteotome Width: 20mm

Blade Length: 2.375" (6cm)

Overall Length: 7.375" (18,7cm)

5472-08 [8mm Offset
Cement Removal Chisel]

Osteotome Dimensions: 8mm Wide x 12mm Long

Blade Length: 2.375" (6cm)

Overall Length: 7.375" (18,7cm)

5474-06 [6mm Notched
Cement Removal Chisel]

Osteotome Width: 6mm

Blade Length: 2.625" (6cm)

Overall Length: 7.375" (18,7cm)

5475-08 [8mm Implant Remover]

Diameter: 8mm

Blade Length: 2.625" (6cm)

Overall Length: 7.375" (18,7cm)

5470-CASE [Case Only]

**PROUDLY
MADE
IN THE
USA**



Used for total knee revision



Flexible Osteotome System

Provides an assortment of osteotome blades for various orthopedic surgery procedures

- ▶ 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



Slap Hammer



Handle with Quick-Coupling End (2 included per set)



Curved Thin Blades



3" Thin Blades



Radial Blades



5" Thin Blades

PRODUCT NO.'S:	
S0011-00	[Complete Set with Case]
Individual Instruments:	
S1002	[Thin Osteotome Blade] 3" (7,6cm) x 8mm
S1003	[Thin Osteotome Blade] 3" (7,6cm) x 10mm
S1004	[Thin Osteotome Blade] 3" (7,6cm) x 12mm
S1005	[Thin Osteotome Blade] 3" (7,6cm) x 20mm
S1006	[Curved Thin Osteotome Blade] 3" (7,6cm) x 12mm
S1007	[Curved Thin Osteotome Blade] 3" (7,6cm) x 20mm
S1008	[Thin Osteotome Blade] 5" (12,7cm) x 10mm
S1009	[Thin Osteotome Blade] 5" (12,7cm) x 8mm
S1020	[Handle with Quick-Coupling End] 6" (15,2cm) <i>One Handle Only with this Product Number</i>
S1133	[Radial Osteotome] 5" (12,7cm) x 10mm
S1120	[Radial Osteotome] 5" (12,7cm) x 12mm (not shown)
S1134	[Radial Osteotome] 5" (12,7cm) x 14mm
S1121	[Radial Osteotome] 5" (12,7cm) x 16mm
S1122	[Radial Osteotome] 5" (12,7cm) x 20mm (not shown)
S2007	[Small Slap Hammer] 12" (30,5cm)
9018	[Case]
Optional Blades (Not Included in Complete Set)	
S1123	[Extra Long Osteotome Blade] 9" (22,9cm) x 8mm
S1135	[Radial Osteo. Medial Curve] 6.75" (17,1cm) x 11mm
S1136	[Radial Osteo. Lateral Curve] 6.75" (17,1cm) x 11mm
S1137	[Radial Osteo. Medial Curve] 5" (12,7cm) x 11mm
S1138	[Radial Osteo. Lateral Curve] 5" (12,7cm) x 11mm
S1222	[Chisel Blade] 2.5" (6,4cm) x 8mm
S1223	[Chisel Blade] 2.5" (6,4cm) x 10mm
S1224	[Chisel Blade] 2.5" (6,4cm) x 12mm
S1225	[Chisel Blade] 2.5" (6,4cm) x 20mm
S1228	[Chisel Blade] 5" (12,7cm) x 10mm
S1229	[Chisel Blade] 5" (12,7cm) x 8mm
S1230	[Chisel Blade] 5" (12,7cm) x 20mm
S1231	[Chisel Blade] 5" (12,7cm) x 12mm



Optional Blades



Extra Long (9" (22,9cm)) Blade



Flexible Chisel Blades

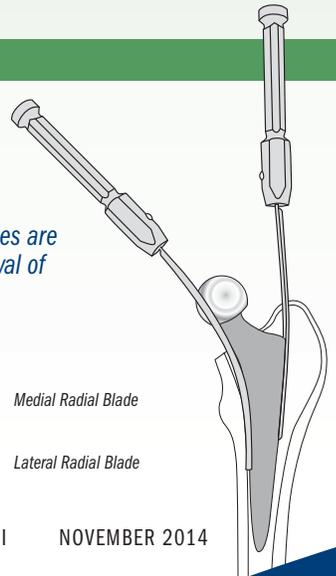


Medial Radial Blade

Lateral Radial Blade

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

Designed by Henry Boucher, MD



Whelan Flexible Chisel Guide

Designed by E. J. Whelan, III, MD



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

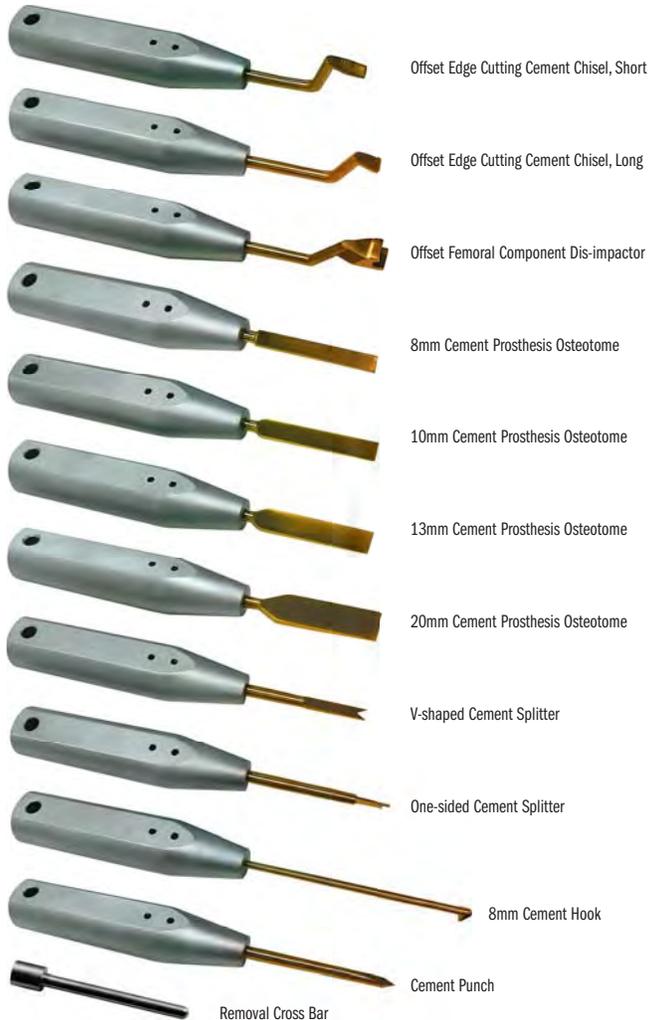
Guide with sliding handle helps to stabilize a thin flexible chisel blade until it's within the bone prosthesis interface. Chisel tip lets it hug the prosthesis to help prevent perforation. Slap hammer threads into the handle and is designed to facilitate blade removal. Easily changeable disposable blades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

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

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



Complete Set



Lachiewicz Total Knee Revision Set

Designed by Paul F. Lachiewicz, MD

Used for total knee revision

PRODUCT NO'S:	
3700-00	[Complete Set]
Individual Instruments:	
3700-01	[Offset Edge Cutting Cement Chisel, Short] Chisel Width: 10mm
3700-02	[Offset Edge Cutting Cement Chisel, Long] Chisel Width: 15mm
3700-03	[Offset Femoral Component Dis-impactor]
3700-04	[8mm Cement Prosthesis Osteotome] Osteotome Width: 8mm
3700-05	[10mm Cement Prosthesis Osteotome] Osteotome Width: 10mm
3700-06	[13mm Cement Prosthesis Osteotome] Osteotome Width: 13mm
3700-07	[20mm Cement Prosthesis Osteotome] Osteotome Width: 20mm
3700-08	[V-shaped Cement Splitter]
3700-09	[One-sided Cement Splitter]
3700-10	[8mm Cement Hook] Hook Blade Width: 8mm
3700-11	[Cement Punch]
3700-12	[Removal Cross Bar]





Tibia Tray Removal Hooks

Designed by Jerrold Gorski, MD
Modified 8mm version designed by Dennis Brown, MD

Designed to be used with a slap hammer to remove a tibia tray during revision knee surgery

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PRODUCT NO'S:

3650 [4mm Gorski Hook w/Standard Slap Hammer #3925]
3650-01 [4mm Gorski Hook Only]
3655 [8mm Brown Gorski Hook w/Standard Slap Hammer #3925]
3655-01 [8mm Brown Gorski Hook Only]
Optional Items:
3935 [Extra Large Slap Hammer Only] Thread Gauge: 3/8"-16



4mm Gorski Hook



8mm Brown Gorski Hook



Incavo Tibial Component Revision Osteotomes

Designed to help break the posterior cement-bone interface when removing a cemented tibial TKA component

Designed by Stephen J. Incavo, MD

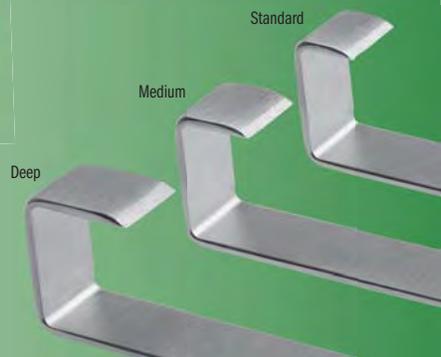


Also used to help break the posterior implant-bone interface when removing a cementless tibial TKA component.

PRODUCT NO'S:

3621-00 [Complete Set]			3040 [Slap Hammer]	1015 [Sterilization Case]
Set Includes:				
3621-01 [Standard] Blade Length: 10mm Blade Width: 1/2" (12,7mm) Blade Offset: 3/4" (19,1mm) Overall Length: 8.5" (21,6cm)	3621-02 [Medium] Blade Length: 14mm Blade Width: 1/2" (12,7mm) Blade Offset: 3/4" (19,1mm) Overall Length: 8.5" (21,6cm)	3621-03 [Deep] Blade Length: 18mm Blade Width: 1/2" (12,7mm) Blade Offset: 3/4" (19,1mm) Overall Length: 8.5" (21,6cm)		

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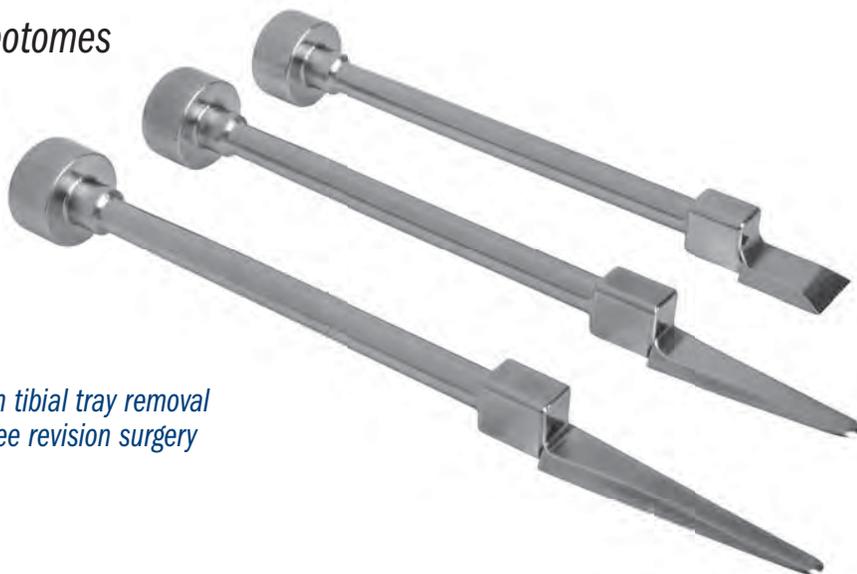


Unger Total Knee Revision Osteotomes

Designed by Anthony Unger, MD

PRODUCT NO:

4700 [Set of 3 with Tray]
Individual Product Numbers
4701 [Wide Starter] Blade Length: 25mm Blade Width: 19mm Overall Length: 7" (17,8cm)
4705 [Narrow Starter] Blade Length: 55mm Blade Width (Max): 19mm Overall Length: 8.75" (22,2cm)
4710 [Finisher] Blade Length: 70mm Blade Width (Max): 19mm Overall Length: 9.25" (23,5cm)
1015 [Sterilization Case]



Helps with tibial tray removal during knee revision surgery

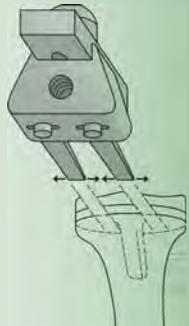
Wide Starter

Narrow Starter

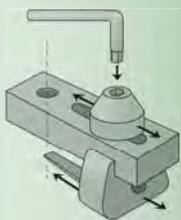
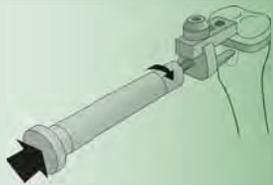
Finisher

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Adjusting Blades To Fit Component
The straight or angled blades are adjusted by loosening the attached screws and sliding the blades into the desired position.



Driving Blades Under Component
The blades are driven under the tibial base.



Tightening Threaded Rod Onto Component
The site hole for the pointed, threaded rod can be aligned with the proximal surface of the tibial component by using the included hex wrench system. The pointed, threaded rod is tightened onto either a polyethylene or metal tibial component.



Attaching Slap Hammer Assembly & Removing Component
The slap hammer assembly is threaded into the threaded rod handle for removal of the component.

Tibial Component Extractor

Universal extraction instrument for total knee revision surgery

Clamps onto a tibial knee component for extraction



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

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





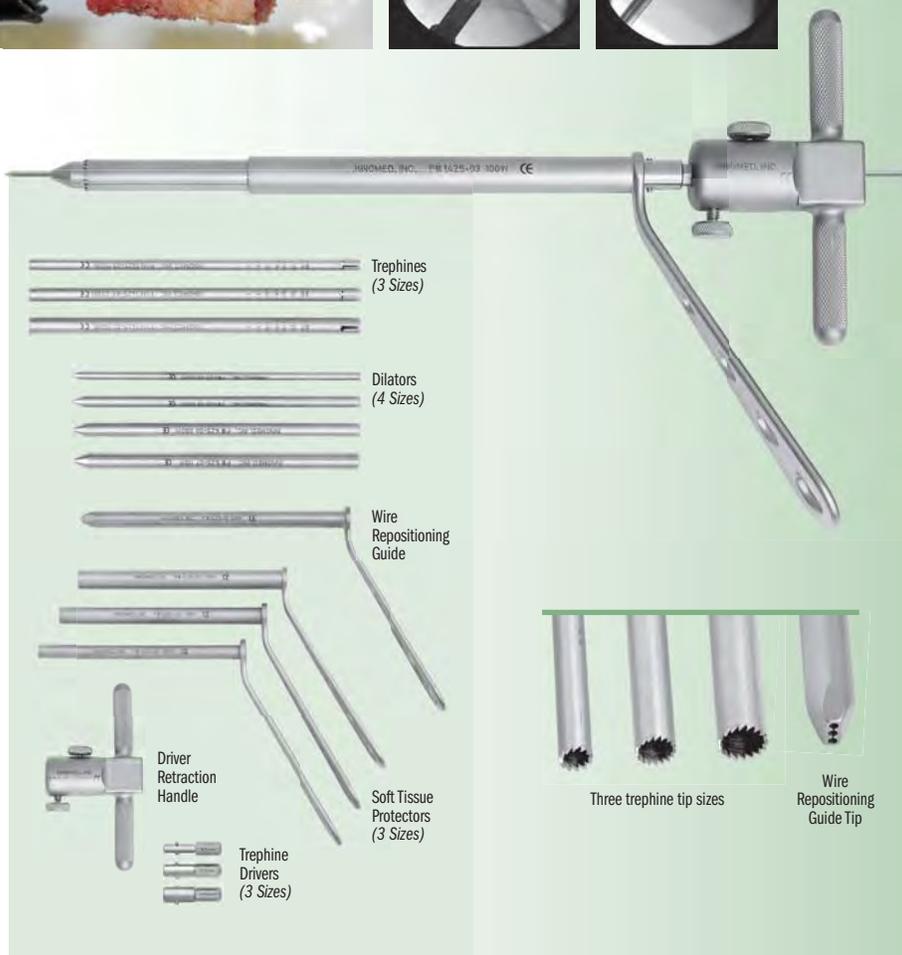
Cheng Biopsy Trephine System

Designed by Edward Cheng, MD

Using a threaded K-wire facilitates grasping and removal of a core bone sample for biopsy or core decompression

Designed for use with a standard 1.6mm (.062") threaded K-wire (not included).

- ▶ Allows use of trephine at oblique angles to bone surface by using an anchoring K-wire and cannulated trephine
- ▶ Avoids "skipping" of trephine teeth on bone surface
- ▶ Facilitates optimal approach angle and direction of trephine
- ▶ Variety of core diameters yields bone samples of sufficient size for pathology
- ▶ Adapters allow for use of a power drill
- ▶ Minimally invasive – soft tissue sleeve protects surrounding structures and tissue
- ▶ Can also be used for bone graft harvesting
- ▶ Repositioning guide allows easy adjustment of targeting K-wire



PRODUCT NO:

1425-00 [Complete Set]
Trephine Internal Diameters:
5mm, 6.5mm, 8mm

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Three trephine tip sizes

Wire
Repositioning
Guide Tip

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.



- ▶ 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

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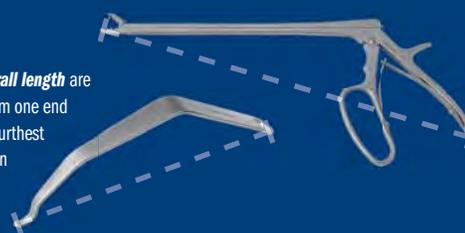
PRODUCT NO:

1808
Overall Length: 9.25" (23,5cm)
Arm Downward Offset: 15mm
Pad Dimensions: 1" x .375" (25,4cm x 1cm)

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:



George Semi-Circumferential Glenoid Retractor

Designed by Michael S. George, MD



NEW

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

PRODUCT NO:

2435
Overall Length: 8" (20,3cm)
Blade Width: 2.125" (5,4cm)

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Cannestra Cup Liner Removal Osteotomes

Designed by Vince Cannestra, MD

Designed to help remove a well-fixed acetabular cup liner



PRODUCT NO'S:

- 4085-00 [Set of Three]
- 4085-01 [Cross Blades]
Overall Length: 8.375" (21,3cm)
Blade Diameter: 2" (51mm)
- 4085-02 [Curved Lever]
Overall Length: 8.5" (21,6cm)
- 4085-03 [Single Blade]
Overall Length: 8.375" (21,3cm)
Blade Diameter: 2" (51mm)

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NEW

Rivero Extra Grip Femoral Head Removers

Modified by Dennis Rivero, MD



Extra Gripping Thread

NEW

Used to remove femoral heads during total hip arthroplasty or fracture surgery

PRODUCT NO'S:

- 3706 [Hudson-style Quick-Connect]
Overall Length: 8.5" (21,6cm)
- 3707 [Self Tapping T-Handle]
Overall Length: 8.75" (22,2cm)

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Keyser Tendon Repair Clamp

Designed by Brent Keyser, MD

Designed to hold and place grasping suture in the end of a lacerated flexor tendon without distortion of the tendon



NEW

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PRODUCT NO:

1764
Overall Length: 6.25" (15,9cm)



Kudrna Cup Channel Chisel

Designed by James C. Kudrna, MD

Designed to help break the bone-prosthetic interface of well-fixed non-cemented acetabular components being revised

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



NEW

PRODUCT NO:

3686
Overall Length: 12" (30,5cm)
Handle Length: 3.5" (8,9cm)
Blade Width: 30mm
Blade Depth: 15mm

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Axillary Nerve Protector

Designed by Brett Sanders, MD

Designed for inferior capsular release during shoulder arthroplasty and glenoid exposure



NEW

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



PRODUCT NO:

8029
Overall Length: 7.125" (18,1cm)
Width: 12mm
Thickness: 4mm

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Radiolucent Small Bone Clamp

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



NEW

PRODUCT NO:

1828
Overall Length: 7" (17,8cm)

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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" (24,8cm)
Handle Length: 4.75" (12,1cm)
Cannula fits wire up to: .062" (1,6mm)

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NEW

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11-14



Stanton Arthroscopic Leg Holder

Designed by John Stanton, MD
Designed to securely hold legs of various sizes for arthroscopic surgery

- ▶ Sliding leg holder can be adjusted for small calves or to accommodate large thighs
- ▶ Locking pin prevents sides from spreading apart
- ▶ Strap can be placed high or low through the slots in the side plates to accommodate large/small limbs
- ▶ Strap is strongly secured with a toothed clamp
- ▶ Support rod, when clamped into a standard table clamp, helps to prevent rotation

PRODUCT NO'S:

4045

Dimensions: 16.5" L x 8.5" H x 3.5" W
(42cm L x 21.6cm H x 8.9cm W)
Fits Legs: From 4" to 11" (10cm to 28cm)

Replacement Parts

4045-S [Strap]
Overall Length: 28" (71.2cm)

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