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Knee Exposure & Positioning

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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).

Scott Femoral Tibial Tensor/Spreadsers
Designed by Richard Scott, MD
Used before determining femoral component rotation to help properly tense the medial and lateral ligaments and help assure a stable, balanced flexion gap.

PRODUCT NO’S:

- **1995** [Narrow Fixed Pads]
  - Overall Length: 7” (17.8 cm)
  - Blade Width: 7 mm
  - Opens to: 40 mm

- **1996** [Wide Fixed Pads]
  - Overall Length: 7” (17.8 cm)
  - Blades: 22 mm x 13 mm
  - Opens to: 40 mm

- **1997** [Wide Block Pads]
  - Overall Length: 7” (17.8 cm)
  - Pads: 23 mm x 12 mm
  - Opens to: 40 mm

- **1998** [Round Pads]
  - Overall Length: 7” (17.8 cm)
  - Pads: 25 mm x 25 mm
  - Opens to: 40 mm

*Pad Modification designed by Raymond H. Kim, MD

Surgical Technique available on our website.

**US Patent #8,162,951 B2**
**Calibrated Femoral Tibial Spreaders**

*Helps separate the femur and tibia during total knee replacement surgery*

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.

**PRODUCT NO’S:**

**SMALL**
- 1850 [Small w/Grooved Pads]
  - Overall Length: 7" (17.8 cm)
  - Pads: 23 x 12 mm
  - Opens to 39 mm

- 1850-D [Small w/Diamond Cut Pads]
  - Overall Length: 7" (17.8 cm)
  - Pads: 23 x 12 mm
  - Opens to 39 mm

- 1850-LR [Small with Grooved Pads & Locking Mechanism]
  - Overall Length: 7" (17.8 cm)
  - Pads: 23 x 12 mm
  - Opens to 39 mm

- 1850-01 [Small w/Coated Pads]
  - Overall Length: 7" (17.8 cm)
  - Pads: 18 x 15 mm
  - Opens to 39 mm

- 1865 [Small w/Round Pads]
  - Overall Length: 7" (17.8 cm)
  - Pads: 25 x 25 mm
  - Opens to 39 mm

- 1865-LR [Small with Round Pads & Locking Mechanism]
  - Overall Length: 7" (17.8 cm)
  - Pads: 25 x 25 mm
  - Opens to 39 mm

**MEDIUM**
- 1855 [Medium w/Grooved Pads]
  - Overall Length: 10" (25,4 cm)
  - Pads: 23 x 14 mm
  - Opens to 50 mm

- 1855-D [Medium w/Diamond Cut Pads]
  - Overall Length: 10" (25,4 cm)
  - Pads: 23 x 14 mm
  - Opens to 50 mm

- 1855-SL [Medium w/Speed Lock* & Grooved Pads]
  - Overall Length: 10" (25,4 cm)
  - Pads: 23 x 14 mm
  - Opens to 50 mm

- 1866 [Medium w/Round Pads]
  - Overall Length: 10" (25,4 cm)
  - Pads: 25 x 25 mm
  - Opens to 50 mm

**LARGE**
- 1860 [Large w/Grooved Pads]
  - Overall Length: 12" (30,5 cm)
  - Pads: 25 x 16 mm
  - Opens to 65 mm

**Locking Mechanism Version**
Locking ratchet mechanism helps prevent accidental release, and provides for controlled adjustment and easy release.

**Speed Lock Version**
Helps allow precise control and prevent unintended release.

**Coated Pad Version**
Helps protect component surfaces when implants are in place, and are slightly contoured to add stability against the curved articulating implant surfaces.

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FEBRUARY 2021  
KNEE EXPOSURE & POSITIONING INSTRUMENTS
**Lombardi Gap Balancing Femoral Tibial Spreader with Easy Release Locking Mechanism**

Spreader designed by Adolph V. Lombardi Jr., MD. Locking mechanism designed by Munish C. Gupta, MD

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

Locking ratchet mechanism helps prevent accidental release, and provides for controlled adjustment and easy release.

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Overall Length</th>
<th>Blade Width</th>
<th>Blade Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1878-LR [Large]</td>
<td>Horizontal Grooved Pads</td>
<td>9.25&quot; (23.5 cm)</td>
<td>22 mm</td>
<td>1.3 mm</td>
</tr>
<tr>
<td>1877-LR [Small]</td>
<td>Overall Length: 7&quot; (17.8 cm)</td>
<td>22 mm x 13 mm</td>
<td>Opens to 35 mm</td>
<td></td>
</tr>
</tbody>
</table>

**Ortho Self-Retaining Retractors**

Helps separate the femur and tibia during knee replacement procedures, where the calibrated design can help to balance ligaments.

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Overall Length</th>
<th>Blade Width</th>
<th>Blade Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1842 [Small Flat]</td>
<td>Flat Outside Pads</td>
<td>6.5&quot; (16.5 cm)</td>
<td>7 mm</td>
<td>1.7 mm</td>
</tr>
<tr>
<td>1843 [Medium Flat]</td>
<td>Overall Length: 9.25&quot; (23.5 cm)</td>
<td>Blade Width: 10 mm</td>
<td>Blade Thickness: 1.7 mm</td>
<td></td>
</tr>
</tbody>
</table>

**Features:**

- Features a no-teeth design, available with flat or serrated outside blades
- Can also be used for spine surgery where the calibrated ratchet can be used to help accurately measure the size of an opening – useful in procedures to help assess bone graft needs
- Also useful in foot & ankle surgery
Lombardi Femoral Tibial Spreader with Easy Release Locking Mechanism

Spreader designed by Adolph V. Lombardi Jr., MD.
Locking mechanism designed by Munish C. Gupta, MD.

Thin pads help to separate the femur and tibia during total knee procedures.
Locking ratchet mechanism helps prevent accidental release, and provides for controlled adjustment and easy release.

PRODUCT NO’S:

1875-LR [Large]
Overall Length: 9.25" (23.5 cm)
Pads: 22 mm x 13 mm
Opens to 45 mm

1876-LR [Small]
Overall Length: 7" (17.8 cm)
Pads: 22 mm x 13 mm
Opens to 35 mm

1875 [Large]
Overall Length: 9.25" (23.5 cm)
Pads: 22 mm x 13 mm
Opens to 50 mm

1876 [Small]
Overall Length: 7" (17.8 cm)
Pads: 22 mm x 13 mm
Opens to 35 mm

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:

1875-LR [Large]
Overall Length: 9.25" (23.5 cm)
Pads: 22 mm x 13 mm
Opens to 45 mm

1876-LR [Small]
Overall Length: 7" (17.8 cm)
Pads: 22 mm x 13 mm
Opens to 35 mm

Sorrells Tibia Protector Plates

Designed by R. Barry Sorrells, MD.

Designed to protect the surface of the tibia.

PRODUCT NO’S:

1130 [Large] 75 mm x 45 mm
1135 [Small] 65 mm x 40 mm

Large with Locking Mechanism
Small with Locking Mechanism
Retractors help provide excellent visibility and ligament protection during total and unicompartmental knee replacement surgery.

**Knee Retractors with Easy Grip Handles**

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

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Overall Length</th>
<th>Blade Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS3035 [Small Hohmann Retractor]</td>
<td>7” (17.8 cm)</td>
<td>25 mm</td>
</tr>
<tr>
<td>SS3037 [Condylar Retractor]</td>
<td>7” (17.8 cm)</td>
<td>12 mm</td>
</tr>
<tr>
<td>SS3038 [Superior Retractor]</td>
<td>8.25” (21 cm)</td>
<td>31 mm</td>
</tr>
<tr>
<td>SS3042 [Soft Tissue Retractor]</td>
<td>8.25” (21 cm)</td>
<td>36 mm</td>
</tr>
</tbody>
</table>

**MIS Patella Retractor**

Designed by William Robb, MD

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Overall Length</th>
<th>Patella Pad Width</th>
<th>Lower Blade Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>3220-05</td>
<td>9” (22.9 cm)</td>
<td>22 mm</td>
<td>16 mm</td>
</tr>
</tbody>
</table>

**AORI Patellar Retractor**

Designed by Gerard A. Engh, MD

Designed to enhance exposure during total knee arthroplasty, the 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.

<table>
<thead>
<tr>
<th>PRODUCT NO:</th>
<th>Overall Length</th>
<th>Prong Width</th>
<th>Gap</th>
</tr>
</thead>
<tbody>
<tr>
<td>4690</td>
<td>7” (17.8 cm)</td>
<td>10 mm</td>
<td>22 mm</td>
</tr>
</tbody>
</table>
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” (20.3 cm)
Prong Width: 5 mm | 11 mm Gap | 5 mm

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:
6720 [Standard]
Overall Length: 9.625” (24.4 cm)
Blade Width: 15 mm
6720-01 [Narrow]
Overall Length: 9.625” (24.4 cm)
Blade Width: 9 mm

Chandran Modified Knee Retractor

Designed by Rama E. Chandran, MD

Teeth designed to help prevent tilting of the retractor and protect the patellar tendon during robotic assisted total knee replacement

Also useful to retract structures on the lateral side of the tibia.
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.

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.

OrthoLucent™ Retractors
Gain Radiolucence Without Compromising Strength or Function

- Made of a lightweight carbon fiber PEEK composite material
- Ideal for total joint use with x-ray
- Steam sterilizable
- Completely radiolucent
- Flat black non-gloss finish
- No metal transfer with component contact
- Slightly higher cost than stainless steel

<table>
<thead>
<tr>
<th>PRODUCT NO'S:</th>
<th>Overall Length: 8&quot; (20.3 cm)</th>
<th>blade Width at Widest: 5mm</th>
<th>gap: 10mm</th>
<th>Width: 5mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2820-R [PCL]</td>
<td>Overall Length: 8&quot; (20.3 cm)</td>
<td>Blade Width: 3.5 mm</td>
<td>10mm Gap</td>
<td>5mm</td>
</tr>
<tr>
<td>3220-02R [Chandler]</td>
<td>Overall Length: 9.65&quot; (24.5 cm)</td>
<td>Blade Width: 3.5&quot; (9 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4535-R [Modified Narrow Hohmann]</td>
<td>Overall Length: 10&quot; (25.4 cm)</td>
<td>Blade Width: 18 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4550-R [Modified Blunt Hohmann]</td>
<td>Overall Length: 10.75&quot; (27.3 cm)</td>
<td>Blade Width: 18 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4558-R [Standard Hohmann]</td>
<td>Overall Length: 9.825&quot; (25.4 cm)</td>
<td>Blade Width: 16 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7110-R [Narrow Bent Hohmann]</td>
<td>Overall Length: 9.75&quot; (24.8 cm)</td>
<td>Handle Length: 7.5&quot; (19 cm)</td>
<td>Blade Width: 19 mm</td>
<td>Depth from Bend: 4.75&quot; (12.1 cm)</td>
</tr>
</tbody>
</table>
Goytia Stackable Hohmann Retractors

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

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

Modified Hohmann Retractors

Handle is contoured to allow better leverage and visualization

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

**PRODUCT NO'S:**

<table>
<thead>
<tr>
<th>Narrow</th>
<th>Overall Length: 10&quot; (25.4 cm)</th>
<th>Blade Width: 14 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>OrthoLucent™ Narrow</td>
<td>Overall Length: 10&quot; (25.4 cm)</td>
<td>Blade Width: 18 mm</td>
</tr>
<tr>
<td>Extra Deep Narrow</td>
<td>Overall Length: 11.625&quot; (29.5 cm)</td>
<td>Blade Width: 16.4 mm</td>
</tr>
<tr>
<td>Short-tipped Narrow</td>
<td>Overall Length: 9.5&quot; (24.1 cm)</td>
<td>Blade Width: 14 mm</td>
</tr>
<tr>
<td>Wide</td>
<td>Overall Length: 10&quot; (25.4 cm)</td>
<td>Blade Width: 42.5 mm</td>
</tr>
<tr>
<td>Extra Deep Wide</td>
<td>Overall Length: 11.5&quot; (29.2 cm)</td>
<td>Blade Width: 42.5 mm</td>
</tr>
</tbody>
</table>

**OrthoLucent™**

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

**PRODUCT NO'S:**

| Standard | Overall Length: 9.25" | Blade Width: 19.5 mm |
| Bent     | Overall Length: 8.25" | Blade Width: 19.5 mm |
| Extra Deep Wide | Overall Length: 9.25" | Blade Width: 43 mm |

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Bent Hohmann Retractors—Wide

**PRODUCT NO’S:**

- **6590** [Wide]
  - Overall Length: 9.375” (23.8 cm)
  - Handle Length: 7” (17.8 cm)
  - Blade Width: 41 mm
  - Depth from Bend: 4.75” (12.1 cm)

- **6590-01** [Extra Long Handle]
  - Overall Length: 11” (27.9 cm)
  - Handle Length: 9” (22.9 cm)
  - Blade Width: 41 mm
  - Depth from Bend: 5.5” (14 cm)

Bent Hohmann Retractors—Narrow

**PRODUCT NO’S:**

- **7110** [Narrow]
  - Overall Length: 9.75” (24.8 cm)
  - Handle Length: 7” (17.8 cm)
  - Blade Width: 19 mm
  - Depth from Bend: 4.25” (10.8 cm)

- **7110-R** [OrthoLucent™ Narrow]
  - Overall Length: 9.75” (24.8 cm)
  - Handle Length: 7” (17.8 cm)
  - Blade Width: 19 mm
  - Depth from Bend: 4.25” (10.8 cm)

- **7110-01** [XL Handle Narrow]
  - Overall Length: 11.5” (29.2 cm)
  - Handle Length: 10” (25.4 cm)
  - Blade Width: 19 mm
  - Depth from Bend: 4.75” (12.1 cm)

- **7111** [Narrow w/Extra Grip Tip]
  - Overall Length: 9.75” (24.8 cm)
  - Handle Length: 7” (17.8 cm)
  - Blade Width: 19 mm
  - Depth from Bend: 4.25” (10.8 cm)

- **7115** [Short-tipped Narrow]
  - Overall Length: 8.625” (21.9 cm)
  - Handle Length: 7” (17.8 cm)
  - Blade Width: 19 mm
  - Depth from Bend: 4.4” (11.2 cm)

- **7115-01** [Short-tipped Narrow Extra Long Handle]
  - Overall Length: 11” (27.9 cm)
  - Handle Length: 10” (25.4 cm)
  - Blade Width: 19 mm
  - Depth from Bend: 4.25” (10.8 cm)

- **7115-03** [Deep Narrow]
  - Overall Length: 12.125” (31.1 cm)
  - Handle Length: 9.75” (24.8 cm)
  - Depth from Bend: 6.25” (15.9 cm)
  - Blade Width: 19 mm

**OrthoLucent™ Narrow**

**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)
  - Guide for Pins Up to: .125” (3.2 mm)

**Taylor Retractors**

**PRODUCT NO’S:**

- **6330-01** [Standard]
  - Overall Length: 8” (20.3 cm)
  - Blade Width: 32 mm
  - Depth from Bend: 4” (10.2 cm)

- **6330-02** [Large]
  - Overall Length: 9” (23 cm)
  - Blade Width: 32 mm
  - Depth from Bend: 5.5” (14 cm)

- **6330-03** [Deep with Pin Guides]
  - Overall Length: 9” (23 cm)
  - Blade Width: 32 mm
  - Guide for Pins Up to: 125” (3.2 mm)

**Modular Weights**

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

**PRODUCT NO’S:**

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

**Extra Grip Tip design modifications by Alfred A. Durham, MD**

**Short-tipped design modifications by Carl DiRaimondo, MD**

Helps retract tissues at the margins of the joint.

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

**Short-tipped Narrow**

**PRODUCT NO’S:**

- **7115**
  - Overall Length: 12.125” (31.1 cm)
  - Blade Width: 19 mm
  - Handle Length: 9.75” (24.8 cm)
  - Depth from Bend: 6.25” (15.9 cm)

**Short-tipped Narrow Extra Long Handle**

**PRODUCT NO’S:**

- **6590**
  - Overall Length: 9.375” (23.8 cm)
  - Handle Length: 7” (17.8 cm)
  - Blade Width: 41 mm
  - Depth from Bend: 4.75” (12.1 cm)

- **6590-01** Extra Long Handle
  - Overall Length: 11” (27.9 cm)
  - Handle Length: 9” (22.9 cm)
  - Blade Width: 41 mm
  - Depth from Bend: 5.5” (14 cm)

**Extra Deep Narrow with Extra Long Handle**

**PRODUCT NO’S:**

- **7115-01**
  - Overall Length: 11” (27.9 cm)
  - Handle Length: 10” (25.4 cm)
  - Blade Width: 19 mm
  - Depth from Bend: 4.25” (10.8 cm)

**Short-tipped Narrow**

**PRODUCT NO’S:**

- **7110**
  - Overall Length: 9.75” (24.8 cm)
  - Handle Length: 7” (17.8 cm)
  - Blade Width: 19 mm
  - Depth from Bend: 4.75” (12.1 cm)

**Narrow with Extra Grip Tip**

**PRODUCT NO’S:**

- **7110**
  - Overall Length: 9.75” (24.8 cm)
  - Handle Length: 7” (17.8 cm)
  - Blade Width: 19 mm
  - Depth from Bend: 4.75” (12.1 cm)

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

**Short-tipped Narrow Extra Deep**

**PRODUCT NO’S:**

- **7115-01**
  - Overall Length: 12.125” (31.1 cm)
  - Handle Length: 9.75” (24.8 cm)
  - Depth from Bend: 6.25” (15.9 cm)

**Wide with Extra Long Handle**

**PRODUCT NO’S:**

- **6590**
  - Overall Length: 9.375” (23.8 cm)
  - Handle Length: 7” (17.8 cm)
  - Blade Width: 41 mm
  - Depth from Bend: 4.75” (12.1 cm)

**Wide with Extra Long Handle**

**PRODUCT NO’S:**

- **6590**
  - Overall Length: 9.375” (23.8 cm)
  - Handle Length: 7” (17.8 cm)
  - Blade Width: 41 mm
  - Depth from Bend: 4.75” (12.1 cm)
The 15 mm 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.

**Hohmann Retractor**

*Designed like the original Hohmann-style retractor*

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

**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 15 mm 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.

**Modified Blunt Hohmann Retractor**

*Used for soft tissue retraction*

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

**Wetzel Modified Hohmann Retractor**

*Designed by Robert Netzel, MD and Todd McKinley, MD*

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

The handle is contoured to allow better leverage and visualization. Can be held in place with weights or by hand.
90° Bone Hook  Designed by Charles Taunt, DO

Designed to ergonomically help the surgical assistant elevate the proximal femur during TKA, the bone hook aids the surgeon in accessing posterior osteophytes and in applying local anesthetic to the posterior capsule.

Takes the place of an intramedullary device when the IM canal has not been opened (robotic assistance) or when damaged or osteopenic bone is of concern.

Harwin Modified Cobra Retractor  Designed by Steven F. Harwin, MD, FACS

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.

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.

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.
Booth Knee Retractor
Designed by Robert E. Booth, Jr., MD
Designed to help protect the tibial surface and to tighten the collateral ligaments and to help assess the rotation of the femur

**PRODUCT NO:** 6580
- Overall Length: 11.75” (29.8 cm)
- Handle Length: 10.5” (26.7 cm)
- Blade Depth: 2.75” (7 cm)
- Blade Width: 2” (5.1 cm)

Glassman Posterior Condylar Osteophyte Retractor
Designed by Andrew Glassman, MD
Designed to provide exposure of the posterior condyle to gain access to posterior condylar osteophytes during unicompartmental and total knee arthroplasty

**PRODUCT NO:** 3730
- Overall Length: 11.75” (29.8 cm)
- Depth From 90° Bend: 3” (7.6 cm)
- Length from 45° Bend: 1” (2.54 cm)
- Blade Width: 1” (25.4 mm)

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 knee, hip and shoulder surgery. The specially designed handle is contoured away from the surgeon’s field of view and working area. The Ortholucent™ version is made of a lightweight carbon fiber PEEK composite material, which is strong, lightweight, completely radiolucent, helps to prevent from marring component surfaces, and can be steam sterilized.

**PRODUCT NO’S:**
- 3220-01 [5/8”]
  - Overall Length: 9.875” (25.1 cm)
  - Blade Width: 5/8” (1.6 cm)
- 3220-02 [3/4”]
  - Overall Length: 9.875” (25.1 cm)
  - Blade Width: 3/4” (1.9 cm)
- 3220-04 [1”]
  - Overall Length: 9.875” (25.1 cm)
  - Blade Width: 1” (2.54 cm)
- 3220-02R* (Ortholucent™ 3/4”)
  - Overall Length: 9.875” (25.1 cm)
  - Blade Width: 3/4” (1.9 cm)

Bolanos Modified Chandler Retractor
Designed by Alberto Bolanos, MD
Used for retracting tissue away from the bone

**PRODUCT NO:** 3222
- Overall Length: 7.5” (19.1 cm)
- Blade Width at Widest: 1” (2.54 cm)
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.

Velcro® is a registered trademark of Velcro U.S.A.
Minimally Invasive Knee Retractors

**Wide PCL Retractor**

*Designed by S. David Stulberg, MD*

*Helps expose the proximal tibia for better surface access*

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.

**PRODUCT NO:**

**S3042 [Soft Tissue Retractor]**
- **Overall Length:** 8.75” (22.2 cm)
- **Blade Width:** 36 mm

**MI Modified Wide PCL Retractor**

*Designed by S. David Stulberg, MD*

**PRODUCT NO’S:**

**3510 [Standard]**
- **Overall Length:** 10” (25.4 cm)
- **Blade Width Above Prongs:** 34 mm
- **Prong Width:** 8.5 mm | 17 mm Gap | 8.5 mm

**3515 [With Velcro Strap]**
- **Overall Length:** 10” (25.4 cm)
- **Blade Width Above Prongs:** 34 mm
- **Prong Width:** 8.5 mm | 17 mm Gap | 8.5 mm
PCL Retractors

Designed to straddle the cruciate ligament and lie in the 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.

The Coated Standard PCL includes 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.

The OrthoLucent™ Standard PCL can be safely used to look behind the knee when the component(s) are in place without metal transfer or marring component surfaces when contact is made. It is made of a strong, lightweight carbon fiber PEEK composite material, which is completely radiolucent, and can be steam sterilized.

Rosen Knee Tibial Retractor

Designed for total knee and revision total knee replacements using posterior stabilized knee components, the posterior build-up on the retractor allows the surgeon to more easily translate the tibia forward for better visualization after femoral notch preparation.

Lester Proximal Tibial TKA Retractor

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.
Manzary Proximal Tibial Stabilizing Knee Retractor

Designed to help subluxing the tibia anteriorly in posterior stabilizing total knee replacement, helping to expose the proximal surface for preparation.

**PRODUCT NO:**
4531

Overall Length: 12.75" (32.4 cm)
Blade Width: 1.5" (3.8 cm)
Block Dimensions: .8" x 1.5" x .5"
(2 x 3.8 x 1.25 cm)

45° Knee Retractors

Designed for use around the knee

**PRODUCT NO’S:**

- 6290-00-075 [Large]  Overall Length: 9.125" (23.2 cm)
- 6290-00-076 [Small]   Overall Length: 7.75" (20 cm)
- 6290-00-077 [Medium]  Overall Length: 9.125" (23.2 cm)
- 6290-00-078 [Medium Straight]  Overall Length: 9.125" (23.2 cm)

Narrow Right Angle Retractor

Designed for soft tissue retraction

**PRODUCT NO:**
C1011

Overall Length: 8.5" (21.6 cm)
Handle Length: 6.75" (17.1 cm)
Blade Depth: 4.5" (11.4 cm)
Blade Width: .375" (1 cm)

Chandran Tibial Knee Retractor

Designed for use in TKR, the hook on the front of the blade acts as a stop to help prevent the retractor from deep penetration behind the tibia.

**PRODUCT NO:**
4533

Overall Length: 10.5" (26.7 cm)
Depth from Bend: 3" (7.6 cm)
“S” Total Knee Retractors

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.

Rosen Double Ended Army-Navy/"Z" Retractor

Designed by Adam Rosen, DO

PRODUCT NO:

4005

Overall Length: 10" (25.4 cm)
Z End: 70 mm Deep, 11 mm Wide
Army Navy End: 40 mm Deep, 15 mm Wide

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

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:

3832

Overall Length: 4.25" (10.8 cm)
Blade Width: 8.8 mm
Blade Depth: 2.375" (6 cm)
Helps create better access to the articulating surfaces
"Z" Knee Retractor
Designed by S. David Stulberg, MD

Anterior Femoral Condylar Retractor
Designed by S. David Stulberg, MD

Blunt Retractor with Small Handle
Designed by Ronald Romanelli, MD
A blunt retractor with a lightweight ergo dynamic handle designed for tissue retraction and closure assistance in knee, shoulder, and hip arthroplasty

Blunt Knee Retractor
Designed by James B. Stiehl, MD
Designed for retraction in total knee arthroplasty

"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.

Blount Retractor with Small Handle
Product No: 4852
Overall Length: 9.375" (23.1 cm)
Handle Length: 4.625" (11.7 cm)
Blade Depth: 1.5" (3.8 cm)
Blade Width at Widest: 4.5 cm

Blunt Knee Retractor
Product No: 4850
Overall Length: 8.5" (21.6 cm)
Prong Width: 9 mm

"Z" Knee Retractor
Product No: 4420-00
Overall Length: 7.25" (18.4 cm)
Blades: 11 mm Wide, 3" (7.6 cm) Deep

Anterior Femoral Condylar Retractor
Product No: 3405
Overall Length: 5" (12.7 cm)
Blade Width at Widest: 4.5 cm

1.800.548.2362       FEBRUARY 2021       KNEE EXPOSURE & POSITIONING INSTRUMENTS
Ott Fat Pad Retractor Set
Designed by Robert Wubben, MD, with modification by David Ott, MD
Designed for soft tissue retraction, the reduced phalange allows for ease of placement in the lateral gutter, and helps avoid contact with the lateral condyle.

Wubben Lateral Fat Pad Retractor for TKR
Designed by Robert Wubben, MD
Designed to hold soft tissues when inserting the TKR

Product No: 3219-00 [Set]
Overall Length: 10” (25.4 cm)
Blade Width: 41 mm

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: 3219-L [Left]
Overall Length: 10” (25.4 cm)
Prong Length: 20 mm
Product No: 3219-R [Right]
Overall Length: 10” (25.4 cm)
Prong Length: 20 mm

Ott Fat Pad Retractor Set
Also available individually:

Product No: 3219-L [Left]
Overall Length: 10” (25.4 cm)
Prong Length: 20 mm
Product No: 3219-R [Right]
Overall Length: 10” (25.4 cm)
Prong Length: 20 mm

Blunt
Sharp

Baldwin Lateral Soft Tissue Retractor
Product No:

6312 [Sharp Prongs]
Overall Length: 9.875” (25.1 cm)
Pad Dimensions: 38 mm x 15 mm
Prong Depth: 22 mm

6313 [Blunt Prongs]
Overall Length: 9.75” (24.8 cm)
Pad Dimensions: 38 mm x 15 mm
Prong Depth: 20 mm
Multi-Purpose Hip & Knee Retractors
Designed by Vasilios Mathews, MD

Designed for use in both knee and hip arthroplasty procedures

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

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

<table>
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<td>4554-L [Left]</td>
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<td>Overall Length: 11.25” (28.6 cm)</td>
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<td>Blade Width at Teeth: 1.5” (38 mm)</td>
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<tr>
<td>4554-R [Right]</td>
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<tr>
<td>Overall Length: 11.25” (28.6 cm)</td>
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<tr>
<td>Blade Width: 1.5” (38 mm)</td>
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Engh Intercondylar Notch Retractors
Designed by Gerard A. Engh, MD

Enhances minimally invasive exposure of the medial femoral condyle

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<td>Depth from Bend: 2.25” (5.7 cm)</td>
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<td>Overall Length: 8.125” (20.6 cm)</td>
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<td>3230-02 [Medium]</td>
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<td>Depth from Bend: 2.25” (5.7 cm)</td>
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<td>Overall Length: 8.125” (20.6 cm)</td>
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<td>3230-03 [Large]</td>
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<td>Blade Width at Teeth: 12 mm</td>
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<td>Depth from Bend: 2.25” (5.7 cm)</td>
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<tr>
<td>Overall Length: 8.125” (20.6 cm)</td>
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</table>

McPherson Retractor Extender
Designed by Ed McPherson, MD

Designed to extend a standard retractor to help provide additional leverage

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

<table>
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<tr>
<td>6022 [Standard]</td>
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<tr>
<td>Overall Length: 15.625” (39.7 cm)</td>
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<tr>
<td>For retractors up to .125” (3.2 mm) thick</td>
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<tr>
<td>6022-01 [Large]</td>
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<tr>
<td>Overall Length: 15.625” (39.7 cm)</td>
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<tr>
<td>For retractors up to .16” (4 mm) thick</td>
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</table>
Meyerding Spreader with Ergonomic Handle

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

Features an ergonomic handle for increased comfort and control.

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<tr>
<td>Overall Length</td>
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<tr>
<td>Blade Depth</td>
<td>3.5” (8.9 cm)</td>
</tr>
<tr>
<td>Blade Width</td>
<td>1” (2.54 cm)</td>
</tr>
</tbody>
</table>

Made exclusively for Innomed in Germany

Flat Gelpi Retractors with Ergonomic Handle

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

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

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<td>Overall Length: 6.5” (16.5 cm)</td>
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<td>Prong Depth: 1.25” (3.2 cm)</td>
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<tr>
<td>4192 [Medium]</td>
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<tr>
<td>Overall Length: 7.25” (18.4 cm)</td>
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<td>Prong Depth: 1.75” (4.4 cm)</td>
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<tr>
<td>4193 [Large]</td>
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<td>Overall Length: 9” (22.9 cm)</td>
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<td>Prong Depth: 3” (7.6 cm)</td>
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<tr>
<td>4194 [Deep]</td>
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<tr>
<td>Overall Length: 10” (24.4 cm)</td>
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<tr>
<td>Prong Depth: 5” (12.7 cm)</td>
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Gelpi Retractors

The ergonomic handle version offers increased comfort and control.

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<td>Overall Length: 7.75” (19.7 cm)</td>
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<tr>
<td>4181 [With Ergonomic Handle]</td>
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<tr>
<td>Overall Length: 8.75” (22.2 cm)</td>
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</tbody>
</table>
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.

Wide Rake Retractors with Ergonomic Handle
Designed for general use soft tissue retraction, the ergonomic handle allows for a better grip and less fatigue

Non-glare finish featured on the metal retractor parts.

Meyerding Type Retractors with Ergonomic Handle
Designed for general use soft tissue retraction, the ergonomic handle allows for a better grip and less fatigue

Non-glare finish featured on the metal retractor parts.

Rake Retractors with Ergonomic Handle
Designed for general use soft tissue retraction
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)

PRODUCT NO'S:

| Base Dimensions: 21” x 11” (53.4cm x 27.9cm) |
| 2630-11  [Robb Leg Positioner] |
| Optional & Replacement Parts: |
| 2630-FP  [Aluminum 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

PRODUCT NO:

| 2629-00  [Case of 10 Sets] |
| 2629-L  [1 Set] |

Each set includes 1 Pad and 1 Wrap.

Compatible with the Innomed’s Stulberg and Robb Leg Positioners
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 below for Pad/Wrap information)

Foot/Ankle Support
Support Plate
Base Plate

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.

Usage guide available on our website.
**Useful in total knee surgery to hold the leg in position**

**Modified 90° Leg Stabilizer**

*Designed by Gregory Fanelli, MD*

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

**PRODUCT NO:**

2725

- Post Height: 11.375" (28.9 cm)
- Pad Length: 9" (22.9 cm)
- Pad Diameter: 3" (7.6 cm)

**Replacement Parts:**

9120 [Table Clamp]

8840-P [Pad]

---

**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.

**PRODUCT NO’S:**

2590  [Foot Positioner – Long] 15.5" x 6" (39.4 cm x 15.2 cm)

2591  [Foot Positioner – Short] 9.5" x 6" (24.1 cm x 15.2 cm)

**Optional & Replacement Parts:**

2590-P  [Large Replacement Pad] 16" x 9" (40.7 cm x 22.9 cm)

2591-P  [Small Replacement Pad] 9.5" x 9.25" (24.1 cm x 23.5 cm)

---

**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" (50.8 cm x 26.7 cm)

---

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**FREE TRIAL ON MOST INSTRUMENTS**
**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:**

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<th>Description</th>
<th>Dimensions</th>
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<td>Post Height: 12” (30.5 cm)</td>
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**Replacement Parts**

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<tbody>
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<td>4045-S</td>
<td>Pad Width: 3” (7.6 cm)</td>
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</table>

**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:**

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**Replacement Parts**

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<td>Table Clamp</td>
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<tr>
<td>8840-P</td>
<td>Pad</td>
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</table>

**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:**

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<tr>
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**PRODUCT NO’S:**

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<tbody>
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<tr>
<th>No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4045-S</td>
<td>Pad</td>
</tr>
</tbody>
</table>

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>No</th>
<th>Dimensions: 16.5” L x 8.5” H x 3.5” W</th>
</tr>
</thead>
<tbody>
<tr>
<td>4045</td>
<td></td>
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</tbody>
</table>

**Replacement Parts**

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4045-S</td>
<td>Pad</td>
</tr>
</tbody>
</table>
Supports the lower extremity for prepping before knee or hip surgery

Cherf Leg Holder
Designed by John Cherf, MD

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]

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]

Patient Self Stress Assembly Set
Designed by Kyle Cook, RTR and David Mauerhan, MD

Designed to help position a patient for X-ray evaluation to help determine candidacy for Unicondylar Knee Arthroplasty

PRODUCT NO’S:
2741.00 [Set]
Individual Instruments:
2741.01 [Triangle Positioner] Dimensions: 24" x 9" x 9" (61 cm x 23 cm x 23 cm)
2741.02 [Contoured Cube] Dimensions: 11" x 9" x 6" (28 cm x 23 cm x 15.2 cm)

WWW.INNOMED.NET
FREE TRIAL ON MOST INSTRUMENTS
**Sanders Extremity Positioning Tubes**

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

*Designed by Richard Sanders, MD*

The 4” (10.2 cm) tube elevates the foot and ankle for ankle fracture surgery.

The 6” (15.2 cm) 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” (10.2 cm)
  - Width: 8” (20.3 cm)

- **2740-02** [Large]
  - Diameter: 6” (15.2 cm)
  - Width: 8” (20.3 cm)

---

**Lower Extremity Leg Positioner**

*Designed by Ronald Romanelli, MD*

*Used to support knee and leg during surgery, and can be used for casting*

- Utilized for rodding of femurs or tibias
- Also useful for knee surgery and closures
- Very supportive, distributes stresses on leg, used instead of bolsters
- Supplied with one autoclavable silicone pad
- Aluminum positioner is radiolucent and gas or steam sterilizable

**PRODUCT NO’S:**

- **2745**
  - Dimensions: 5.5” x 9.5” x 9.25” (14 x 24 x 23.5 cm)

**Replacement Parts:**

- **2760-P** [Silicone Pad]

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**Sanders Tube Holder**

*Designed by Richard Sanders, MD*

*Designed to help stabilize the Sanders Extremity Positioning Tubes (#2740-01 & -02)*

The tube holder will help stabilize the tubes when used for lower extremity positioning for lower extremity surgery. Also, by using the tubes with the Stulberg Sliding Bolster (#2730), the knee can be placed in less flexion during the initial incision and wound closure.

**PRODUCT NO:**

- **2740-03**
  - Dimensions: 8” x 4” x 1.625” (20.3 x 10.2 x 4.1 cm)
Adjustable Knee & Tibial Positioner
Designed by Ashutosh Chaudhari, MD
Adjustable design allows for use in procedures around the knee such as tibial nailing, tibial condyle plating, patella fracture fixation, supracondylar fracture plating, supracondylar fracture nailing, and total knee replacement
Radiolucent. Steam sterilizable.

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

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
<th>Dimensions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2760-00</td>
<td>[Set of 3] Angles: Top 30°, Two Bottom 75°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2760-01</td>
<td>[11&quot;] Base: 6&quot; (15.2 cm), Height: 11&quot; (27.9 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2760-02</td>
<td>[14&quot;] Base: 7&quot; (17.8 cm), Height: 14&quot; (35.6 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2760-03</td>
<td>[16&quot;] Base: 9&quot; (22.9 cm), Height: 16&quot; (40.7 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2760-XS</td>
<td>[8.5&quot;] Base 5&quot; (12.7 cm), Height: 8.5&quot; (21.6 cm)</td>
<td></td>
<td>Sold Separately – Not In Set:</td>
</tr>
</tbody>
</table>

Replacement Parts:

- 2760-P [Silicone Pad]
- 2760-S [Straps] Package of 18
- 8120-SP [Straps for XS] Package of 10

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

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

Retrograde Femoral Nailing
Triangle holds femur reduced (prevents sagging)

Retrograde Femoral Nailing

Tibial Nailing
Berger Block Positioner

Designed by Richard Berger, MD

**Designed for lower extremity positioning with dual height options**

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Dimensions with Pads:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2750-00</td>
<td>Set</td>
<td>4.75&quot; x 6.75&quot; x 8&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(12,1 cm x 17,1 cm x 20,3 cm)</td>
</tr>
<tr>
<td>2750-01</td>
<td>Positioner Only</td>
<td>4.125&quot; x 6.125&quot; x 8&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(10,5 cm x 15,6 cm x 20,3 cm)</td>
</tr>
<tr>
<td>2750-P</td>
<td>Positioner Pad Only</td>
<td></td>
</tr>
<tr>
<td>2750-B</td>
<td>Brown Strap Only</td>
<td></td>
</tr>
<tr>
<td>2750-S</td>
<td>Brown Straps</td>
<td></td>
</tr>
</tbody>
</table>

**Set Includes / Available Individually:**

- 2750-00 [Set]
- 2750-01 [Positioner Only]
- 2750-P [Positioner Pad Only]
- 2750-B [Positioner Bar]
- 2750-S [Brown Straps]

**Optional Items:**

- 2750-S [Brown Straps] | Pkg of 10

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Hyperflex Foot Positioner Assembly

Designed by Morteza Meftah, MD and Ira Kirschenbaum, MD

**Designed to help secure the foot for positioning of the knee in the hyperflex position**

**PRODUCT NO’S:**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
<th>Overall Length:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2589-00</td>
<td>Complete Assembly</td>
<td>19&quot; (48,3 cm)</td>
</tr>
<tr>
<td>2589-01</td>
<td>Foot Positioner</td>
<td>18&quot; (45,7 cm)</td>
</tr>
<tr>
<td>2590-B</td>
<td>Positioner Bar</td>
<td>19&quot; (48,3 cm)</td>
</tr>
<tr>
<td>2730-P</td>
<td>Pad &amp; Two Straps</td>
<td></td>
</tr>
<tr>
<td>4150-PS</td>
<td>Post Screw</td>
<td></td>
</tr>
<tr>
<td>2590-S</td>
<td>Black Straps</td>
<td></td>
</tr>
</tbody>
</table>

**Optional Parts:**

- 2590-S [Black Straps] | Pkg of 10

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**Measurements in this Catalog**

All effort has been made to ensure the accuracy of the measurements listed in this catalog, however, some small differences may exist between actual and listed measurements.

Measurements of **overall length** are the linear distance from one end of the product to the furthest opposite end, as shown in these examples:

Measurements of **blade width** are the linear distance from one side of the product to the opposite side, typically at the widest point, as shown in this example:
FREE TRIAL on most instruments

Instruments are available for a no-charge two-week evaluation — includes FREE UPS Ground Shipping*

*When shipped to a hospital or medical center; additional charge applies for expedited shipping. Free trial offer excludes implant extraction instruments, which are available as rentals. There is a pad replacement charge with the hip positioners.

90° Bone Hook  Designed by Charles Taunt, DO

Designed to ergonomically help the surgical assistant elevate the proximal femur during TKA, the bone hook aids the surgeon in accessing posterior osteophytes and in applying local anesthetic to the posterior capsule.

Takes the place of an intramedullary device when the IM canal has not been opened (robotic assistance) or when damaged or osteopenic bone is of concern.

PRODUCT NO’S:

<table>
<thead>
<tr>
<th>5940-B [Blunt Tip]</th>
<th>5940-S [Sharp Tip]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curve Diameter: 50 mm</td>
<td>Curve Diameter: 50 mm</td>
</tr>
<tr>
<td>Hook Depth: 6.5” (16.5 cm)</td>
<td>Hook Depth: 6.5” (16.5 cm)</td>
</tr>
<tr>
<td>Handle Length: 5” (12.7 cm)</td>
<td>Handle Length: 5” (12.7 cm)</td>
</tr>
</tbody>
</table>

New!