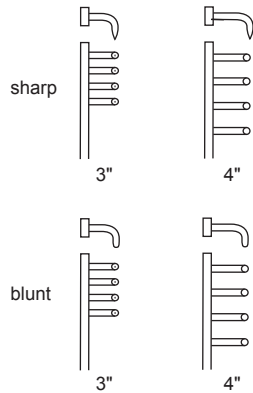
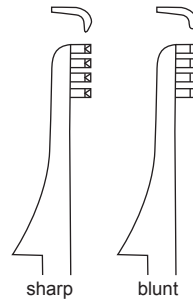


## self-retaining retractors - 38-40/1



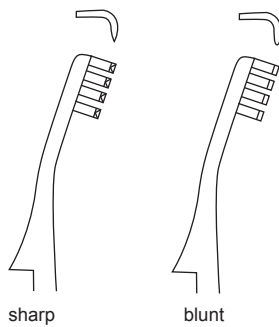
**gS 38.5150** 3" sharp  
**gS 38.5165** 4" sharp  
**gS 38.5140** 3" blunt  
**gS 38.5160** 4" blunt

**Alm Retractor**  
 4x4 prongs



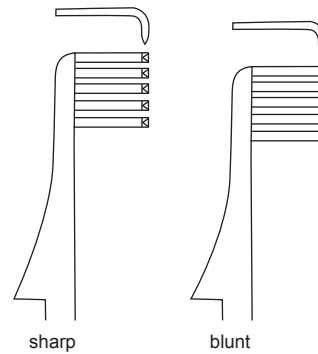
**gS 38.5170** sharp  
**gS 38.5180** blunt

**Self Retaining Retractor**  
 (Heiss) 4", straight  
 4x4 prongs



**gS 38.5185** sharp  
**gS 38.5186** blunt

**Self Retaining Retractor**  
 (Heiss) 4", angled  
 4x4 prongs



**gS 38.5190** sharp  
**gS 38.5191** blunt

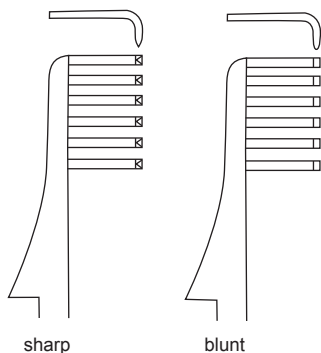
**Self Retaining Retractor**  
 (Heiss) 4 1/4", straight  
 5x5 prongs



38-40

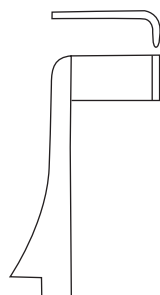
## 38-40/2 - self-retaining retractors

38-40



**gS 38.5192** sharp  
**gS 38.5193** blunt

**Self Retaining Retractor**  
4 1/4", straight  
6x6 prongs



**gS 38.5195** 4" blunt

**Self Retaining Retractor**  
straight  
6mm width x 12mm depth blade



Helps to provide increased visibility of the tendon sheath in trigger finger procedures. Also useful in other small incision procedures.

**gS 38.5500** 4 1/4" blunt

**gRetractor, Trigger Finger**  
6.5mm width x 12mm depth blade

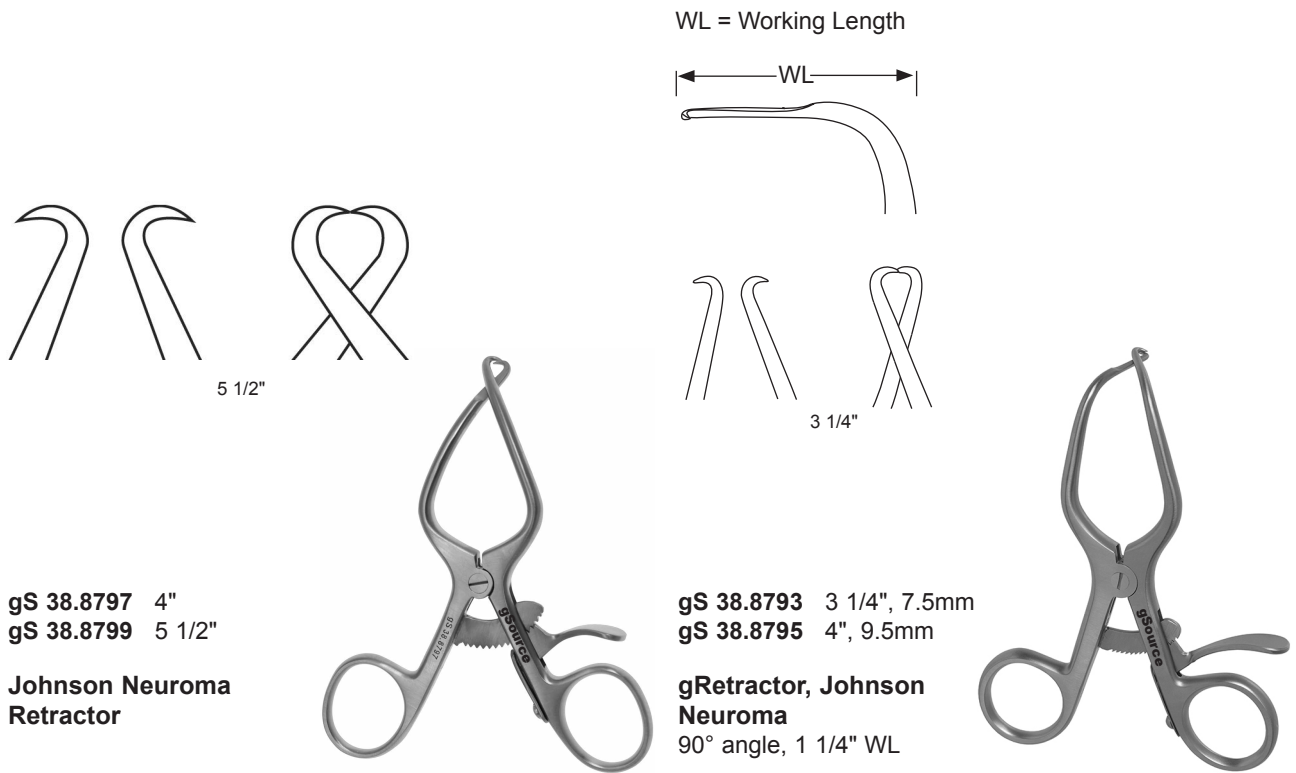


**gS 38.5219** sharp  
**gS 38.5220** blunt

**Jansen Retractor**  
(Mastoid) 4"  
3x3 prongs



## self-retaining retractors - 38-40/3



38-40



Useful in facilitating lateral column lengthening of the calcaneus.

Thru hole on blades allows for passing of 1.3mm K-wire.

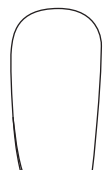
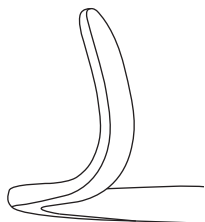
**gS 40.3490** 3 3/4"

**gSpreader, Calcaneal**  
 6mm outside serrated blades with thru hole  
 1 1/4" opening



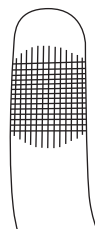
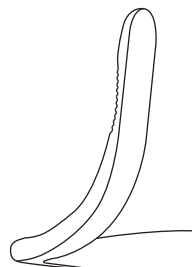
## 38-40/4 - self-retaining retractors

38-40



**gS 38.5300** 4 1/2"

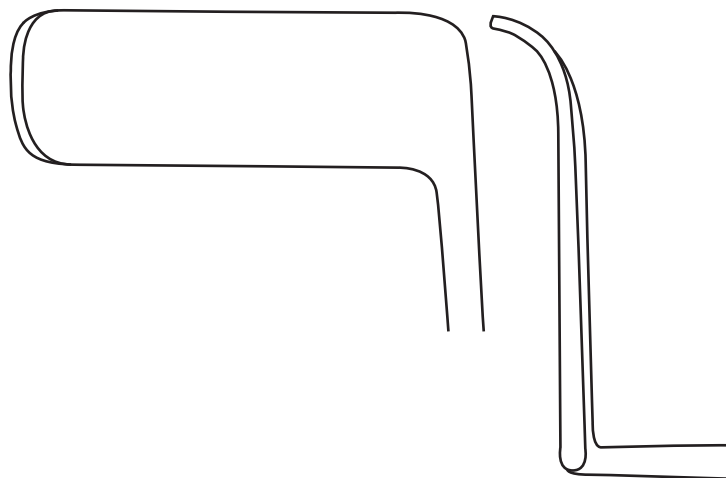
**Schink Retractor**  
smooth blades



Outside serrated blades  
provide a more secure  
hold on metatarsals.

**gS 38.5490** 4 1/2"

**Metatarsal Retractor**  
(Cox Metatarsal Spreader)  
serrated blades



Deep blades are useful in  
appendectomy procedures.

**gS 38.5670** 7"

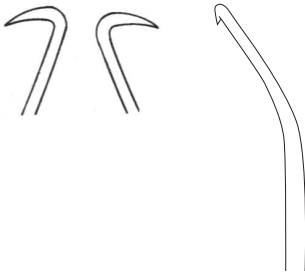
**Rigby Retractor**  
20mm width x 60mm depth  
smooth blunt blades





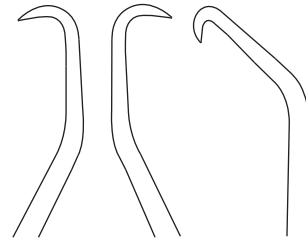
## self-retaining retractors - 38-40/5

38-40



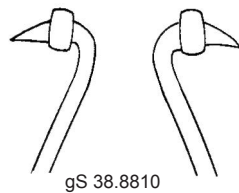
gS 38.8760 3 1/2"  
gS 38.8790 4 3/4"  
gS 38.8800 5 1/2"  
gS 38.8820 7 1/2"

**Gelpi Retractor**  
sharp points

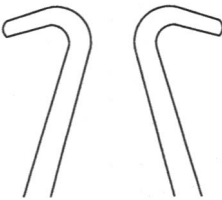


gS 38.8780 4 1/2"  
gS 38.8804 6 1/2"

**Gelpi Retractor**  
sharp points  
angled, delicate



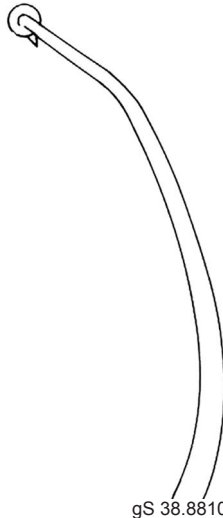
gS 38.8810



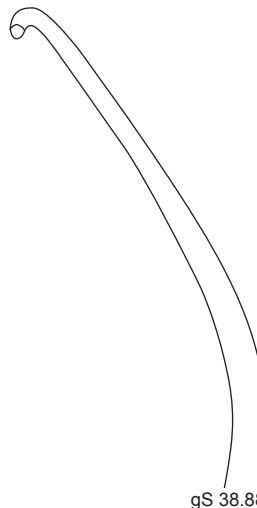
gS 38.8830

gS 38.8810 ball tip, sharp  
gS 38.8830 blunt

**Gelpi Retractor**  
7 1/2"



gS 38.8810



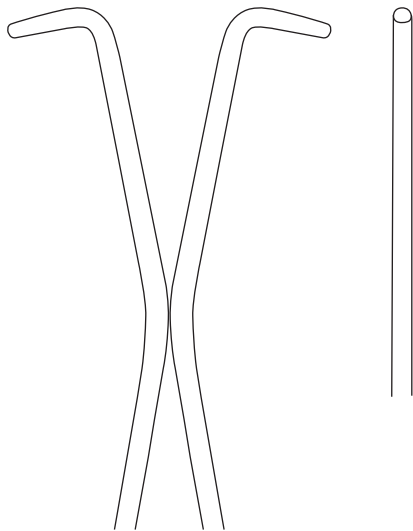
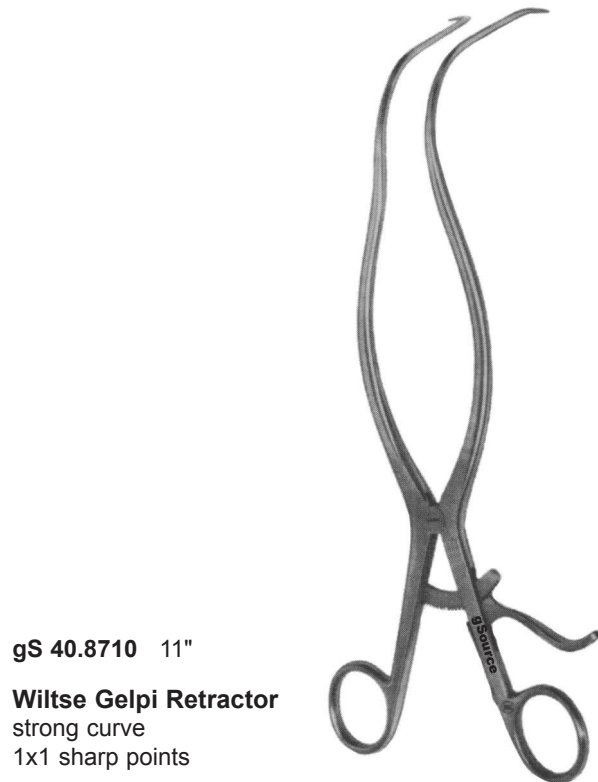
gS 38.8830



## 38-40/6 - self-retaining retractors

WL = Working Length

38-40



Useful in holding back muscle while retracting the hip capsule.

**gS 40.8670 7 3/4"**  
**gRetractor, Deep Gelpi**  
 4 1/2" WL, 90° angle  
 1x1 blunt points



## self-retaining retractors - 38-40/7

WL = Working Length

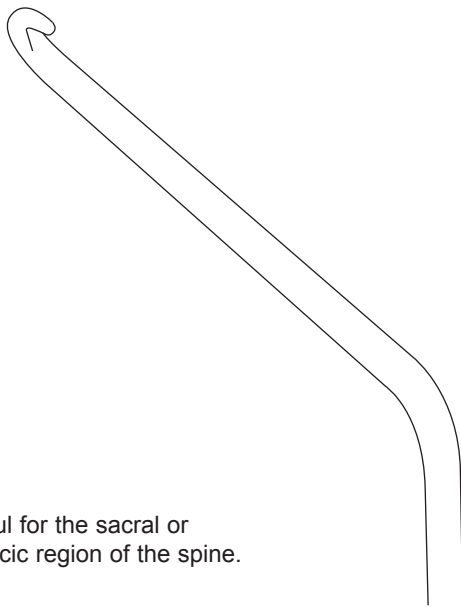


WL  
gS 40.8608 3"  
gS 40.8610 4"  
gS 40.8612 5"

**Deep Gelpi Retractor**  
10 1/2", 90° angle  
1x1 blunt points, speedlock



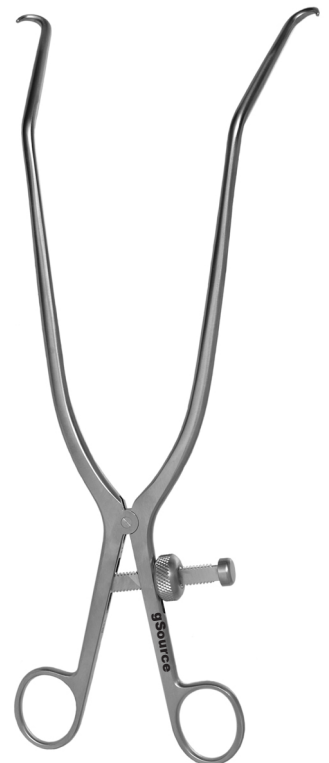
38-40



Useful for the sacral or thoracic region of the spine.

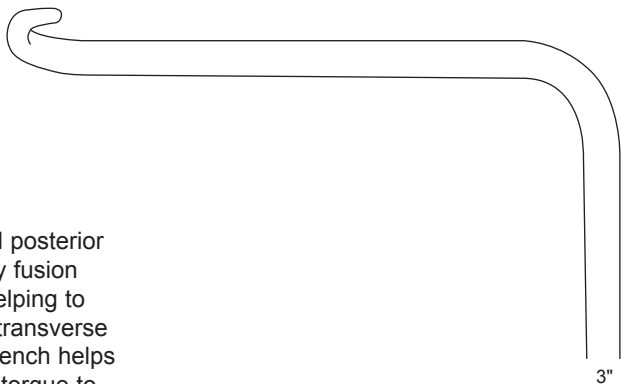
gS 40.8628 12"

**Deep Gelpi Retractor**  
3" WL, 45° angle  
1x1 blunt points, speedlock



## 38-40/8 - self-retaining retractors

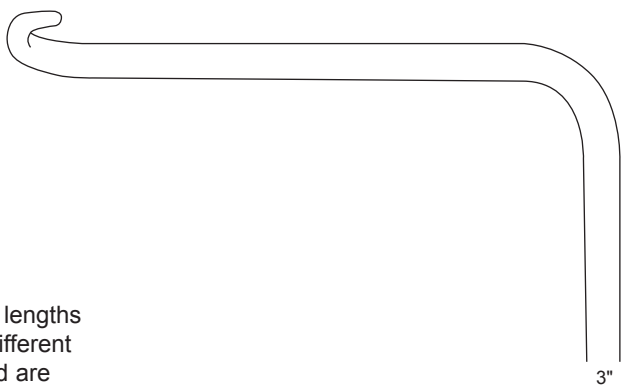
WL = Working Length



Useful for lateral posterior lumbar interbody fusion procedures in helping to retract past the transverse process. The wrench helps to provide extra torque to attain maximum exposure.

WL  
gS 40.8570 3"  
gS 40.8572 4"

**Deep Gelpi Lateral Retractor**  
10 1/2", 90° angle  
1x1 blunt points, speedlock, wrench



Varying working lengths accommodate different patient sizes and are designed to apply limited pressure on tissue and muscle, helping to reduce tissue necrosis.

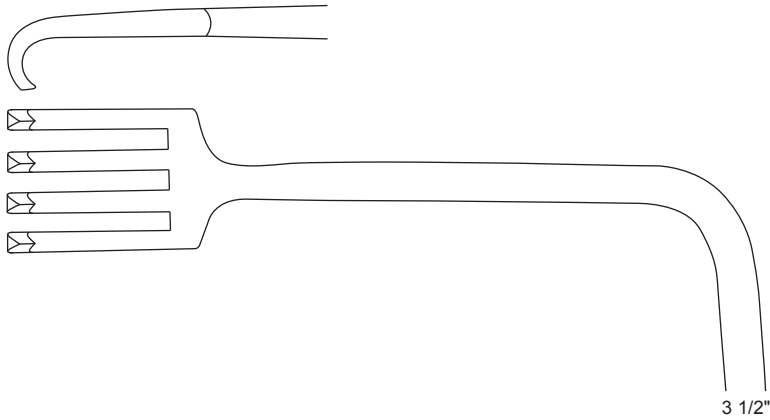
WL  
gS 40.8618 3"  
gS 40.8620 4"  
gS 40.8622 5"

**Deep Gelpi Retractor**  
10 1/2", 90° angle  
1x1 blunt points, ratchet



## self-retaining retractors - 38-40/9

WL = Working Length

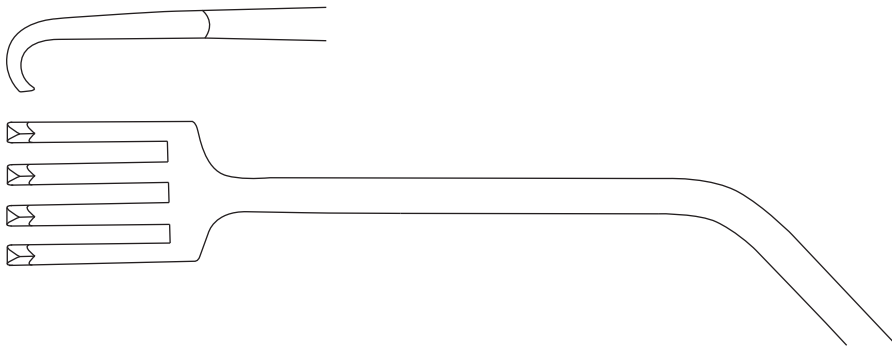


	WL
<b>gS 40.8632</b>	2"
<b>gS 40.8638</b>	3 1/2"
<b>gS 40.8640</b>	4"
<b>gS 40.8642</b>	5"

**Deep Gelpi Retractor**  
10 1/2", 90° angle,  
4 sharp prongs, speedlock



38-40



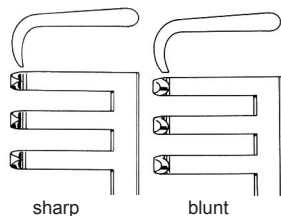
**gS 40.8648** 13"

**Deep Gelpi Retractor**  
3 1/2" WL, 45° angle  
4 sharp prongs, speedlock



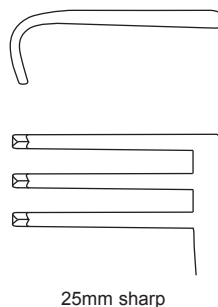
## 38-40/10 - self-retaining retractors

38-40



**gS 38.5920** sharp  
**gS 38.5940** blunt

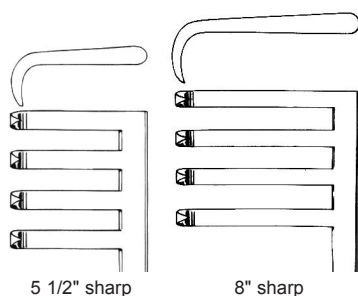
**Weitlaner Retractor**  
4 1/2"  
2x3 prongs



25mm sharp

depth  
**gS 38.5825** 25mm sharp  
**gS 38.5826** 25mm blunt  
**gS 38.5830** 30mm sharp  
**gS 38.5831** 30mm blunt

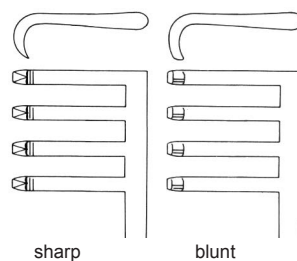
**gRetractor, Weitlaner**  
4 1/2"  
2x3 prongs



sharp  
**gS 38.5980** 5 1/2"  
**gS 38.6020** 6 1/2"  
**gS 38.6040** 8"  
**gS 38.6060** 9 1/2"

blunt  
**gS 38.6180** 5 1/2"  
**gS 38.6220** 6 1/2"  
**gS 38.6240** 8"  
**gS 38.6260** 9 1/2"

**Weitlaner Retractor**  
3x4 prongs



sharp

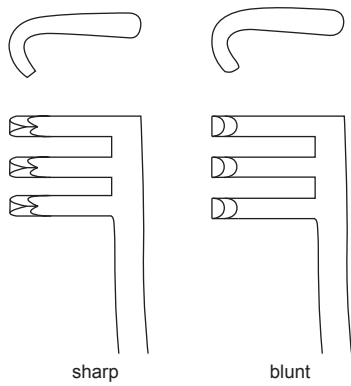
blunt

Handle is gently curved to conform to contour of skull. Non-obstructive design is also useful for hand and foot procedures.

**gS 38.5816** sharp  
**gS 38.5814** blunt

**Scalp Contour Retractor**  
5 1/2"  
3x4 prongs





Helps to facilitate bilateral exposure of soft tissue.

**gS 38.6350** 5 1/4" sharp

**gS 38.6360** 6" sharp

**gS 38.6362** 6" blunt

**Wullstein-Weitlaner Retractor**

3x3 prongs



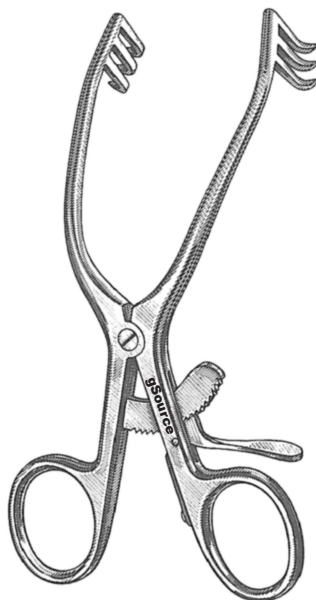
38-40

**gS 38.7276** 5"

**Schuknecht Retractor**

3x3 sharp prongs

3" max opening



**gS 38.6280** 6"

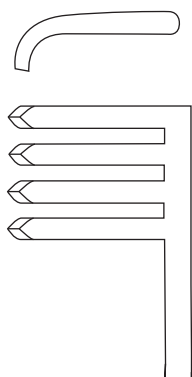
**Mollison Retractor**

4x4 sharp prongs



## 38-40/12 - self-retaining retractors

38-40



Useful for retraction of the cerebellum in neurological procedures.

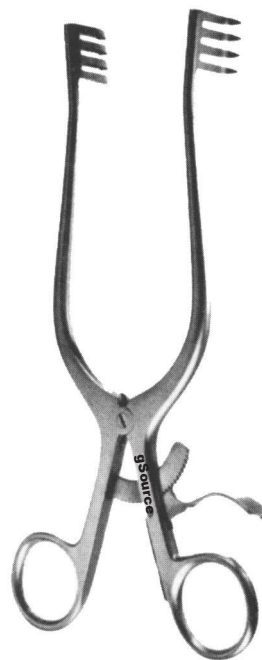
**gS 40.5430** 6 1/2"

**Adson Cerebellar Retractor**  
angled 80° arms  
4x4 sharp prongs



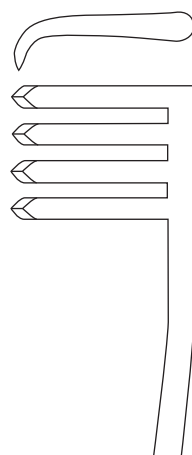
**gS 40.5420** 7 1/2"

**Adson Retractor**  
straight arms  
4x4 sharp prongs



**gS 40.5440** 7 1/2"

**Adson Retractor**  
angled arms  
4x4 sharp prongs

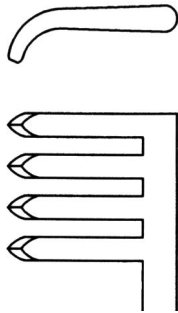


**gS 40.5445** 7 1/2"

**Adson Retractor**  
angled 35°/20° arms  
4x4 sharp prongs

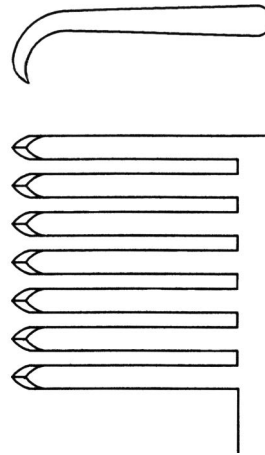






gS 40.5450 7 1/2"

**D'Errico-Adson Retractor**  
angled arms  
4x4 sharp prongs



gS 40.6990 7 1/2"

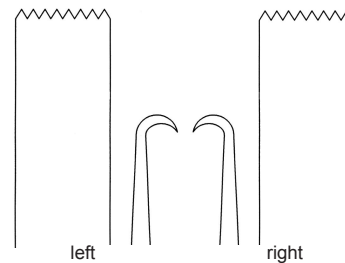
**Miskimon Cereb. Retractor**  
angled arms  
7x7 sharp prongs



width x depth  
gS 40.7232 1" x 1 1/4"  
gS 40.7234 1" x 1 5/8"  
gS 40.7236 1" x 2"  
gS 40.7238 1" x 2 1/4"

**Meyerding Retractor**  
7"

tip detail not  
to scale



gS 40.7180 left  
gS 40.7181 right

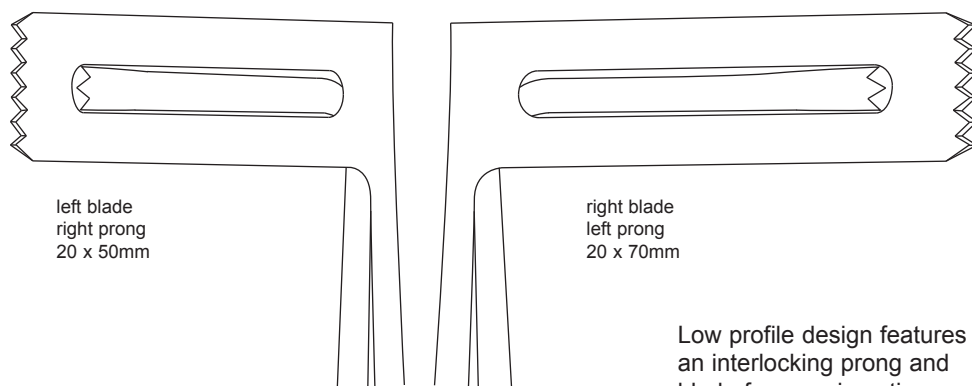
**Markham Meyerding Retractor**  
7"  
1" width x 2 1/4" depth blade



gS 40.7180

## 38-40/14 - self-retaining retractors

38-40



left blade width x depth  
**gS 40.8350** 20mm x 50mm  
**gS 40.8360** 20mm x 70mm

right blade width x depth  
**gS 40.8352** 20mm x 50mm  
**gS 40.8362** 20mm x 70mm

**Discectomy Retractor**  
 7"

Low profile design features an interlocking prong and blade for easy insertion.

Useful during posterior cervical procedures and micro lumbar discectomies.

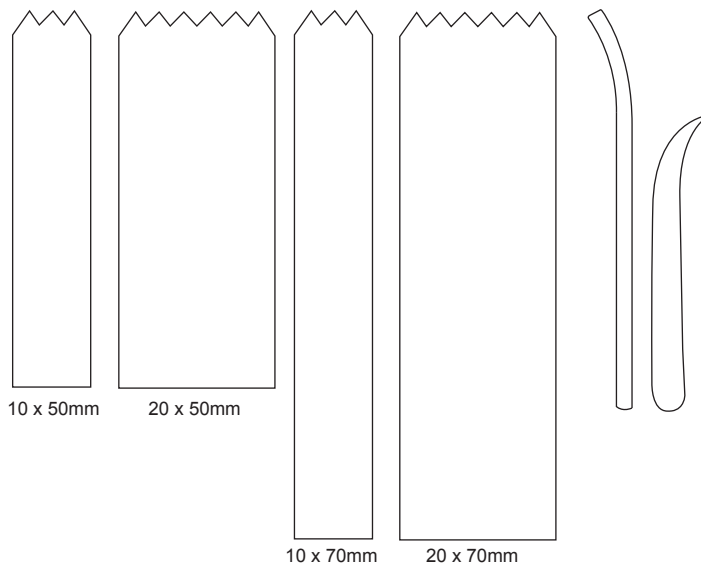
Toothed prong provides less trauma and helps to achieve a more stable hold.



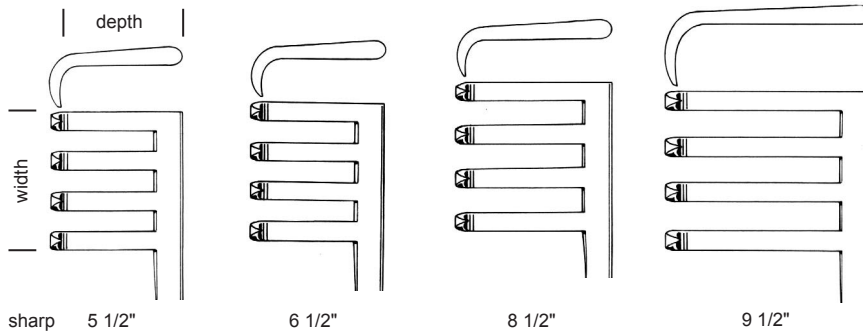
left blade width x depth  
**gS 40.7350** 10mm x 50mm  
**gS 40.7360** 10mm x 70mm  
**gS 40.7370** 20mm x 50mm  
**gS 40.7380** 20mm x 70mm

right blade width x depth  
**gS 40.7352** 10mm x 50mm  
**gS 40.7362** 10mm x 70mm  
**gS 40.7372** 20mm x 50mm  
**gS 40.7382** 20mm x 70mm

**Williams Discectomy Retractor**  
 7"



## self-retaining retractors - 38-40/15

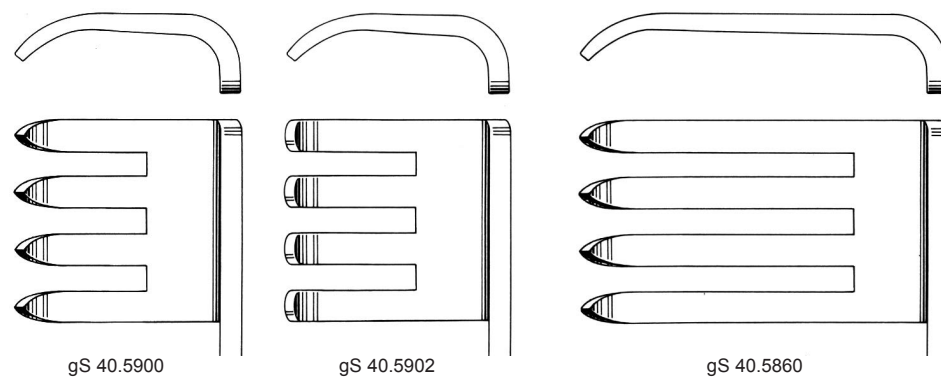


	sharp	width x depth
<b>gS 40.6500</b>	5 1/2"	20mm x 15mm
<b>gS 40.6320</b>	6 1/2"	20mm x 15mm
<b>gS 40.6410</b>	8 1/2"	22mm x 17mm
<b>gS 40.6420</b>	9 1/2"	22mm x 24mm

	blunt	width x depth
<b>gS 40.6502</b>	5 1/2"	20mm x 15mm
<b>gS 40.6504</b>	6 1/2"	20mm x 15mm
<b>gS 40.6506</b>	8 1/2"	22mm x 17mm
<b>gS 40.6508</b>	9 1/2"	22mm x 24mm

### Beckman-Weitlaner Retractor

hinged arms  
3x4 prongs



	sharp	width x depth
<b>gS 40.5900</b>	1" x 1"	
<b>gS 40.5860</b>	1" x 1 3/4"	

	blunt	width x depth
<b>gS 40.5902</b>	1" x 1"	
<b>gS 40.5880</b>	1" x 1 3/4"	

### Beckman-Adson Retractor

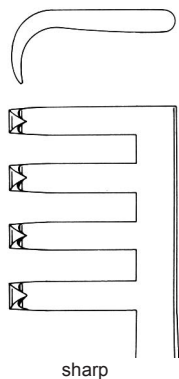
12" hinged arms  
4x4 prongs



38-40

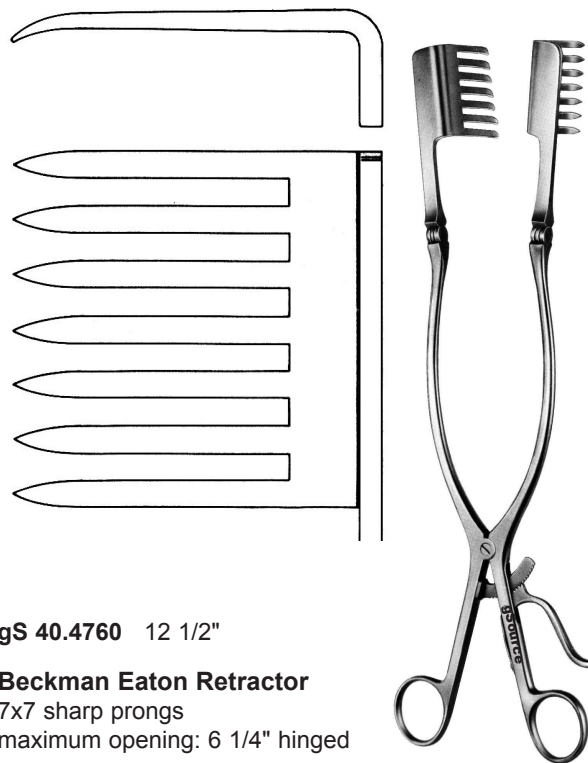
## 38-40/16 - self-retaining retractors

38-40



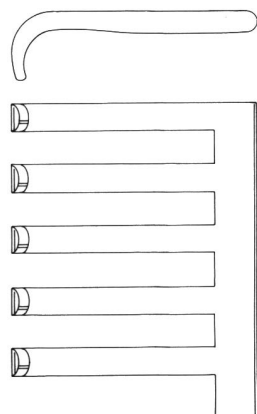
gS 40.5840 sharp  
gS 40.5842 blunt

**Beckman Retractor**  
12 1/2" hinged arms  
4x4 prongs, 5/8" x 1 1/8"



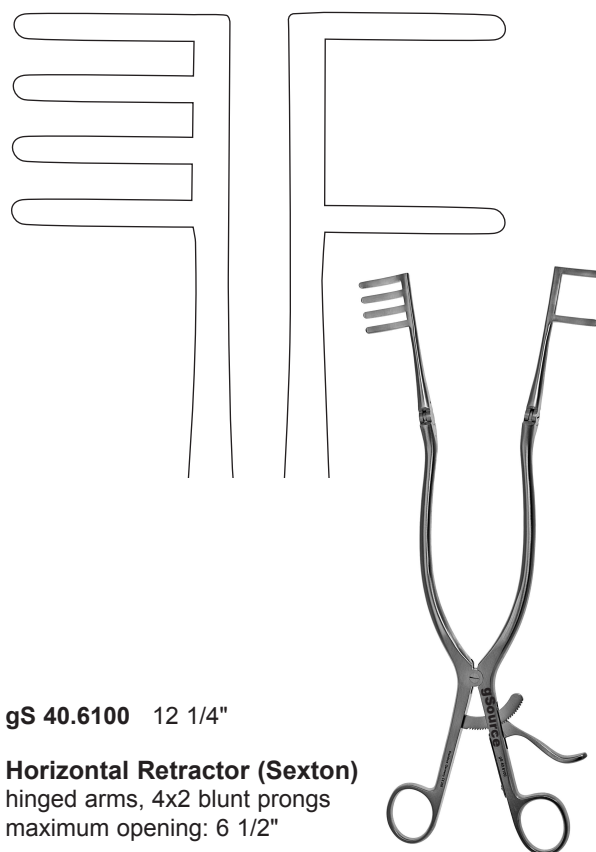
gS 40.4760 12 1/2"

**Beckman Eaton Retractor**  
7x7 sharp prongs  
maximum opening: 6 1/4" hinged



gS 40.5820 12 1/2"

**Adson Retractor**  
hinged arms  
4x5 blunt prongs



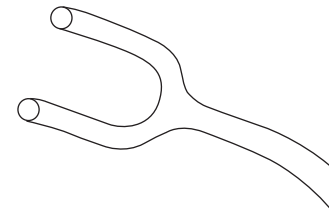
gS 40.6100 12 1/4"

**Horizontal Retractor (Sexton)**  
hinged arms, 4x2 blunt prongs  
maximum opening: 6 1/2"

Helps to facilitate the introduction of deep retractors necessary for visibility of the glenoid, acromion and rotator cuff.

**gS 38.9018 7"**

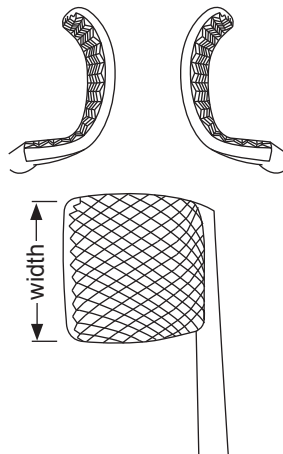
**Kolbel Soft Tissue Retractor**  
angled 2x2 blunt prongs



Helps to retract soft tissue of the gleno-humeral joint.

**gS 38.9020 7"**

**Kolbel Soft Tissue Retractor**  
curved 2x2 blunt prongs



Useful for gentle tissue retraction and retracting the deltoid muscle.

**gS 40.3160 6"**

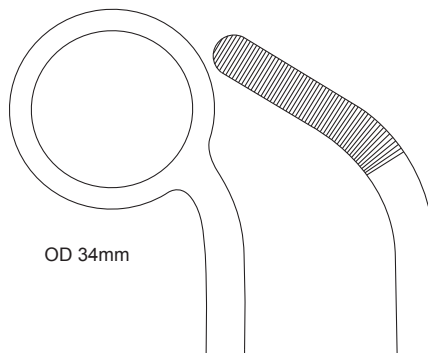
**gRetractor, Rahner**  
20mm width  
angled



## 38-40/18 - self-retaining retractors

38-40

OD = Outside Diameter



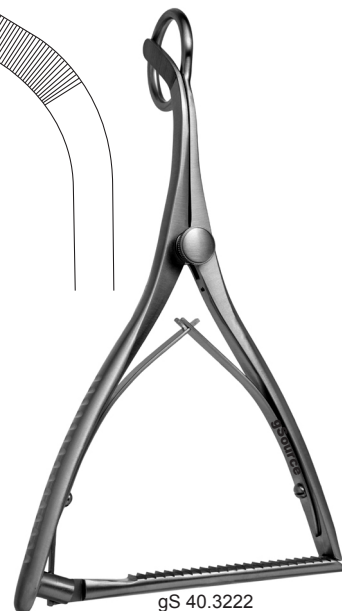
ring  
gS 40.3210 left  
gS 40.3212 right

**Rotator Cuff Retractor**  
(Gerber)  
7", outside serrated blade



ring  
gS 40.3220 left  
gS 40.3222 right

**gRetractor, Rotator Cuff**  
7", 34mm OD  
outside serrated blade



Useful for the spreading and stabilization of space between individual vertebrae.

Turn key is removable and can be placed on either side of the spreader eliminating the need for individual left and right distractors.



**Vertebra Spreader**  
pivoting 180° arms  
2 1/2" spread

gS 40.2590 5"

**Vertebra Spreader #1**  
(Cloward Style)  
with ratchet, 3/4" spread



## self-retaining retractors - 38-40/19



**gS 40.3120** 6 1/2"

**Cervical Spreader**  
angled  
with teeth

---



**gS 40.2412**

**Lumbar Lamina Spreader**  
arm length 2 3/4"  
spread 3 1/8"

---



**gS 40.2410**

**Lumbar Lamina Spreader #1**  
arm length: 3"  
spread: 2 1/8"

---



**gS 40.2414**

**Lumbar Lamina Spreader**  
arm length 4"  
spread 2 3/4"

---

38-40



## 38-40/20 - self-retaining retractors

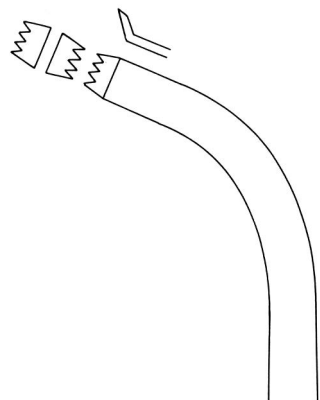
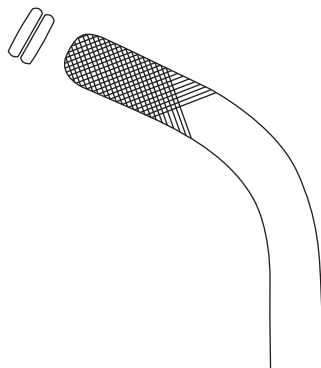
38-40

Useful in facilitating a lateral release during bunionectomy procedures.

3mm-30mm calibrations marked on bottom side of ratchet help to measure and assess the width needed for the lateral portion of the bone graft.

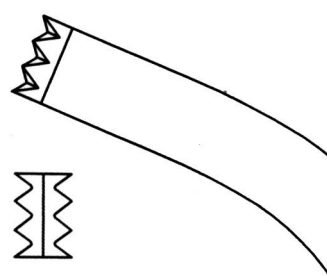
**gS 40.3150** 5 1/2"

**gRetractor, Abramssohn**  
outside cross serrated blades  
calibrated ratchet



**gS 40.3170** with teeth  
**gS 40.3180** without teeth

**Inge Retractor**  
6 1/2"



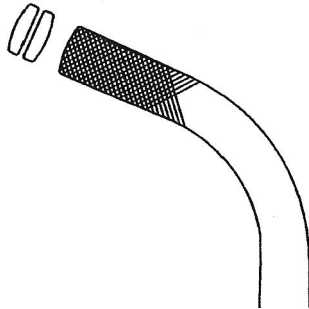
**gS 40.3300** 10"

**Inge Retractor**  
with teeth



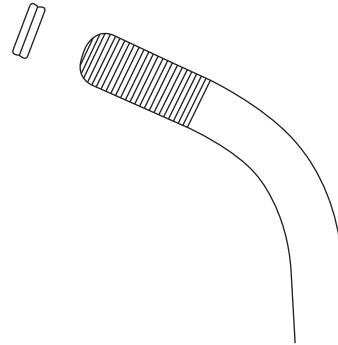


Ratchet is calibrated in mm and measures size of opening. Useful in many procedures to accurately assess bone graft needs.



**gS 40.3190** 6 1/2"

**Saxena-Style Retractor**  
outside cross serrated blades  
calibrated ratchet

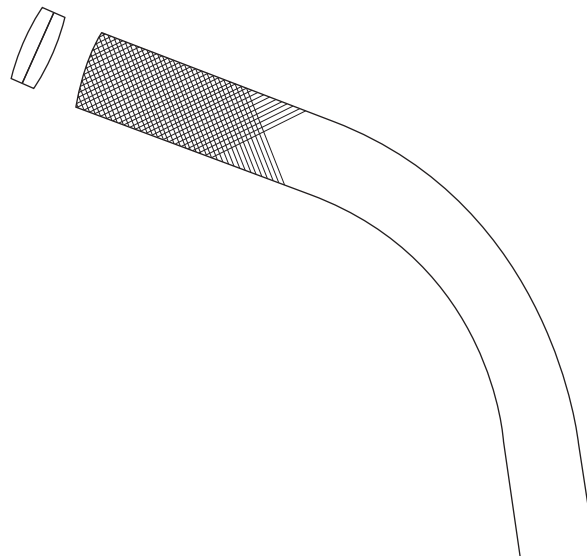


**gS 40.3192** 6 1/2"

**Saxena-Style Retractor**  
outside serrated blades  
calibrated ratchet



Ratchet is calibrated in mm and measures size of opening. Useful in many procedures to accurately assess bone graft needs.



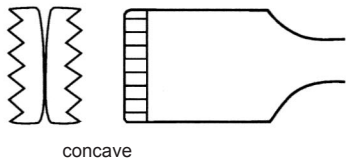
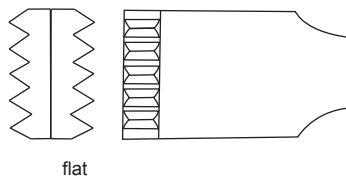
**gS 40.3195** 10"

**Saxena-Style Retractor**  
outside cross serrated blades  
calibrated ratchet



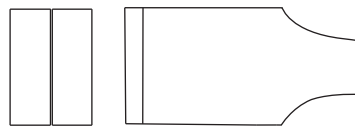
## 38-40/22 - self-retaining retractors

38-40



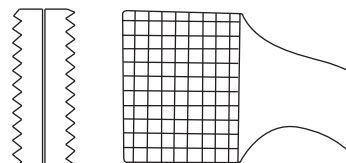
blades  
gS 40.3260 flat  
gS 40.3270 concave

**Lamina Spreader**  
10 1/2"  
with teeth



**gS 40.3265** 10 1/2"

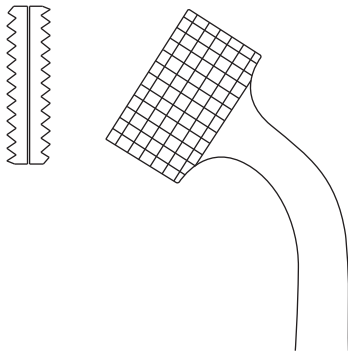
**Lamina Spreader**  
flat blades  
without teeth



**gS 40.3275** 10 1/2"

**Lamina Spreader**  
outside cross serrated blades  
20mm width x 15mm depth

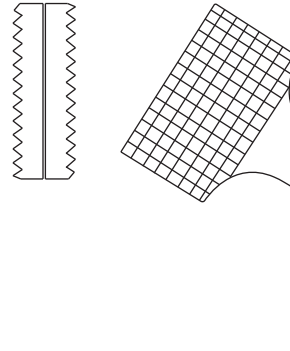




Blades help to separate the femur and tibia during total knee procedures.

**gS 40.3321** 6 1/2"

**Femoral Tibial Spreader**  
21mm width x 13mm depth  
cross serrated outside blades



**gS 40.3323** 9 1/2"

**Femoral Tibial Spreader**  
23mm width x 13mm depth  
cross serrated outside blades



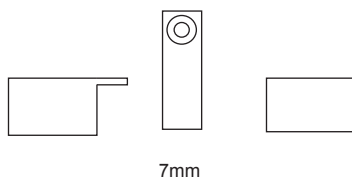
Bayoneted blades help to provide optimized visibility to surgical site.

**gS 40.3500** 11"

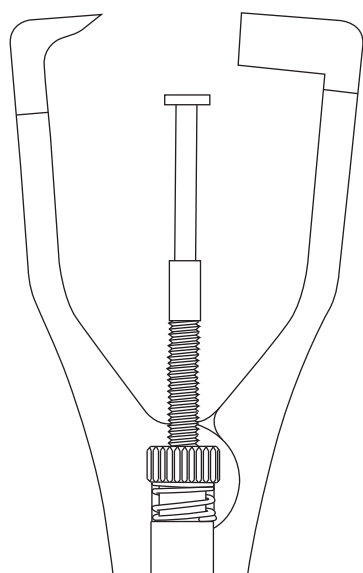
**Spreader**  
7mm width bayoneted blades  
with teeth



## 38-40/24 - self-retaining retractors



38-40



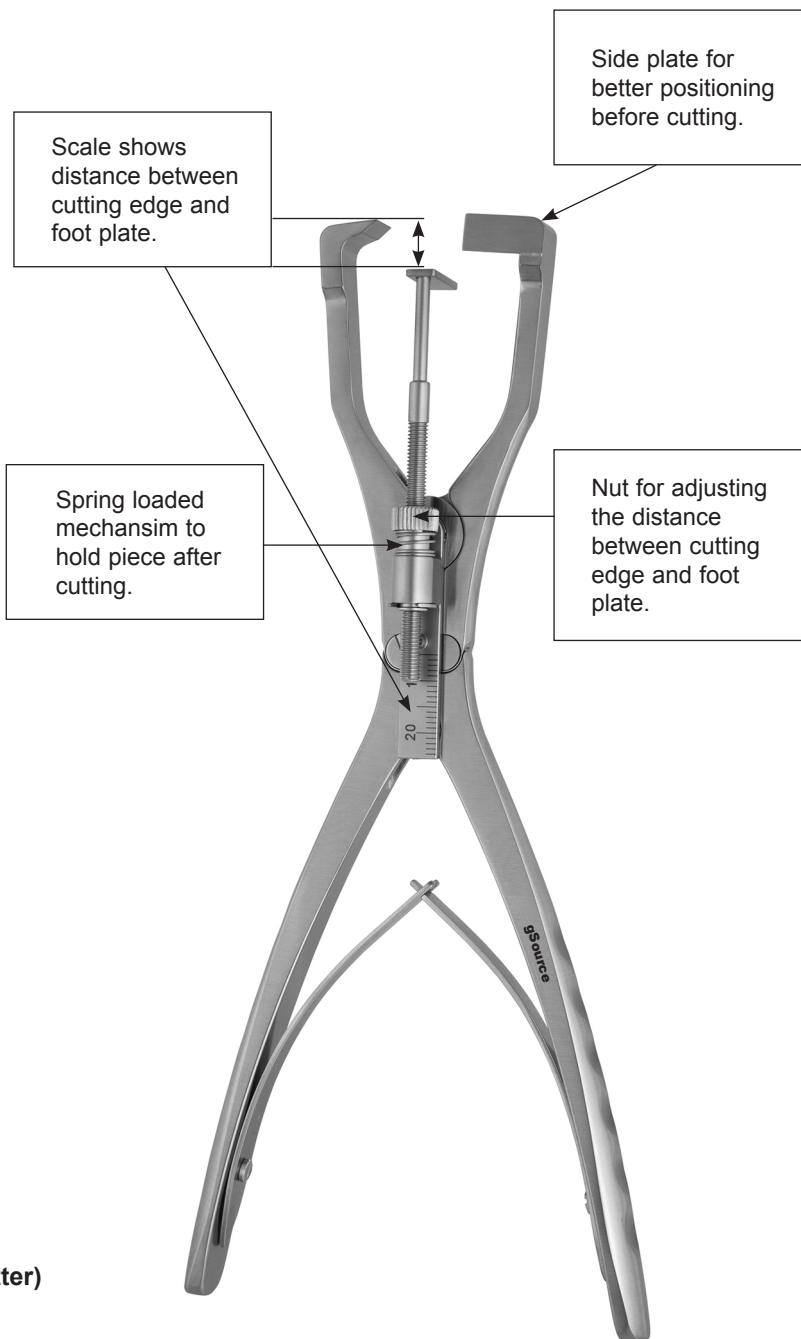
Useful for removing small pieces of bone for grafting procedures. The length of the bone piece required can be adjusted by turning the nut. To remove a bone piece, the bone must have contact with the base and side plates. By pressing the handles together, the piece of bone is separated and held by a spring mechanism in the closed base and side plates.

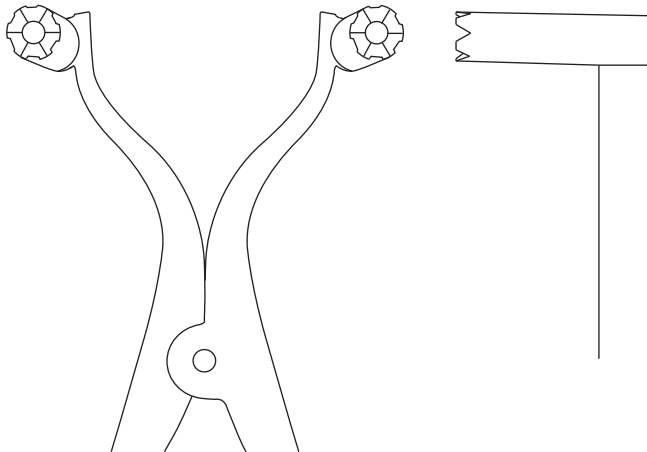
width  
**gS 40.1027** 7mm  
**gS 40.1029** 9mm

**Bone Graft Harvesting Forceps (Graft Cutter)**

8 1/2"

for graft from 6mm-9mm



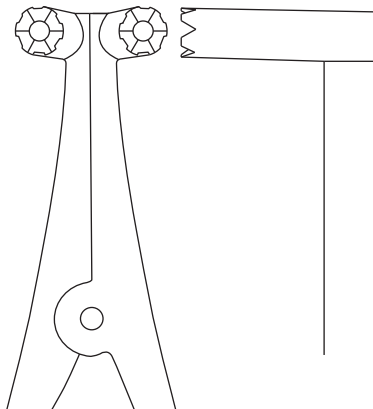


Outspread arms are useful for small bone fixation and other indications.

**gS 40.1120 6"**

**gDistractor, Open**

with guides, calibrated ratchet  
max cap 2.4mm [.094"]

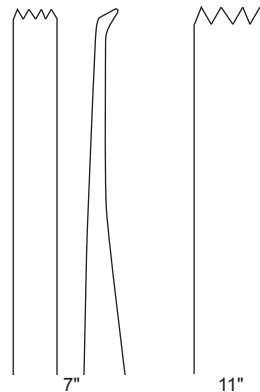


For small bone fixation procedures.

**gS 40.1100 6"**

**gDistractor**

with guides, calibrated ratchet  
max cap 2.4mm [.094"]



**gS 40.3418 7"**  
**gS 40.3428 11"**

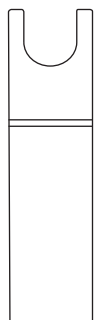
**Vertebra Distractor**  
straight  
with teeth



## 38-40/26 - self-retaining retractors

OD = Outside Diameter

38-40



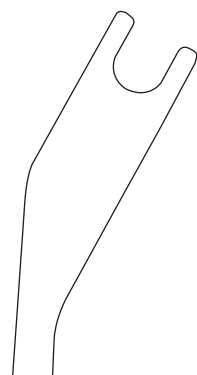
**gS 40.3555 10"**

**gDistractor, MIS**  
for 5.5mm OD rods



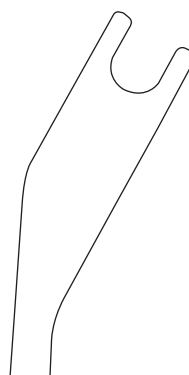
**gS 40.3565 11"**

**gCompressor, MIS**  
for 5.5mm OD rods



**gS 40.3655 13"**

**gDistractor, Parallel**  
for 5.5mm OD rods



**gS 40.3665 13"**

**gCompressor, Parallel**  
for 5.5mm OD rods



Drill guide for parallel positioning of the distraction screws.

For right side approach.



gS 40.1010

**gS 40.1010** right body 2 1/2" spread

**gS 40.1012** right body 3 1/4" spread, long bar

**gS 40.1016** right drill guide, plastic handle, black

### Caspar Distractor Right



gS 40.1016

Drill guide for parallel positioning of the distraction screws.

For left side approach.



gS 40.1020

**gS 40.1020** left body 2 1/2" spread

**gS 40.1022** left body 3 1/4" spread, long bar

**gS 40.1026** left drill guide, plastic handle, black

### Caspar Distractor Left



gS 40.1026

## 38-40/28 - self-retaining retractors

OD = Outside Diameter  
TL = Thread Length



38-40

**gS 40.1030** 8 1/4"

**Caspar Bone Graft  
Holder and Impactor**  
phenolic handle



For pre-drilling  
holes for  
distraction screws.

	depth
<b>gS 40.1040</b>	8mm
<b>gS 40.1042</b>	14mm

**Twist Drill for  
Distraction Screws**  
5 3/4", 1.7mm OD



**gS 40.1035** 8"

**Screwdriver for  
Distraction Screws**  
plastic handle, black



An internal fixation  
device, such as the  
Distraction Screws  
shown below, must  
never be reused. They  
are intended for  
single use only.

	TL
<b>gS 40.1052</b>	12mm
<b>gS 40.1054</b>	14mm
<b>gS 40.1056</b>	16mm
<b>gS 40.1058</b>	18mm

**Distraction Screws**  
1 screw per package  
non-sterile





## self-retaining retractors - 38-40/29

	width x depth
<b>gS 40.7520</b>	20mm x 36mm
<b>gS 40.7522</b>	20mm x 53mm
<b>gS 40.7524</b>	20mm x 68mm
<b>gS 40.7526</b>	20mm x 85mm
<b>gS 40.7530</b>	36mm x 36mm
<b>gS 40.7532</b>	36mm x 53mm
<b>gS 40.7534</b>	36mm x 68mm
<b>gS 40.7536</b>	36mm x 85mm

**Kolbel Retractor Blades**  
blunt



**gS 40.7505** 5 1/2"

**Kolbel Retractor**  
frame only  
hinged

38-40

**gS 40.7510** 8"  
**Kolbel Retractor**  
ring handle only



**gS 40.7515** 8"  
**Kolbel Retractor**  
ring handle only  
hinged



## 38-40/30 - self-retaining retractors

TiAIN = Titanium Aluminum Nitride

38-40

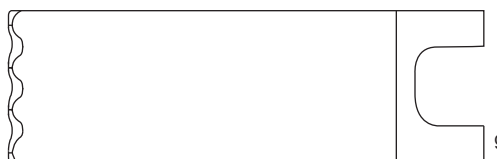
Interchangeable blades slide easily onto the hinged arms of frame allowing for quick set-up and removal. Useful in microdiscectomy or microdecompression spinal surgeries. TiAIN coating helps to eliminate light reflections.

**gS 40.2000** 5 1/2", frame only, hinged

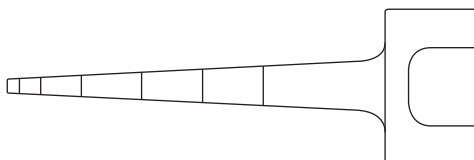
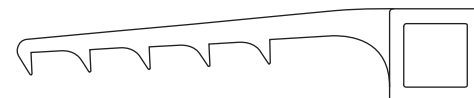
### McCulloch Retractor

60mm spread

TiAIN coated, black matte finish



gS 40.2050



gS 40.2350

serrated narrow blade (pair) - width x depth

**gS 40.2030** 20mm x 30mm

**gS 40.2040** 20mm x 40mm

**gS 40.2050** 20mm x 50mm

**gS 40.2060** 20mm x 60mm

**gS 40.2070** 20mm x 70mm

**gS 40.2080** 20mm x 80mm



hook blade (each) - depth

**gS 40.2220** 20mm

**gS 40.2230** 30mm

**gS 40.2240** 40mm

**gS 40.2250** 50mm

**gS 40.2260** 60mm

**gS 40.2270** 70mm



serrated wide blade (pair) - width x depth

**gS 40.2130** 27mm x 30mm

**gS 40.2140** 27mm x 40mm

**gS 40.2150** 27mm x 50mm

**gS 40.2160** 27mm x 60mm

**gS 40.2170** 27mm x 70mm

**gS 40.2180** 27mm x 80mm



toothed hook blade (each) - depth

**gS 40.2320** 20mm

**gS 40.2330** 30mm

**gS 40.2340** 40mm

**gS 40.2350** 50mm

**gS 40.2360** 60mm

**gS 40.2370** 70mm



### McCulloch Retractor Blades

TiAIN coated, black matte finish

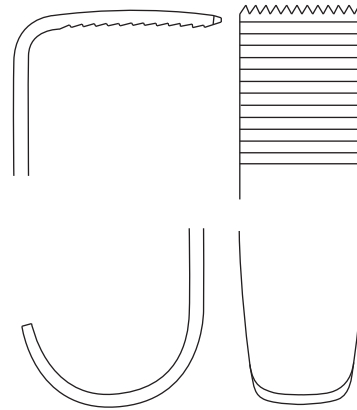
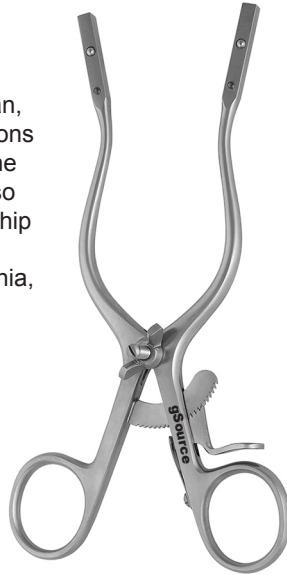
## self-retaining retractors - 38-40/31

Highly versatile retractor with interchangeable center and side blades. Center blade is attached to the retractor with the wing nut and blade can be adjusted as needed. There is a ball-snap attachment for the side blades.

Useful in peripheral vascular surgery of the carotid, subclavian, femoral, popliteal and tibial regions as well as in spinal surgery of the cervical and lumbar regions. Also useful in orthopedic surgery for hip and shoulder procedures and in general surgery for inguinal hernia, appendectomy and other minor procedures.

**gS 40.6000 7"**

**Henly Retractor**  
ring handle only



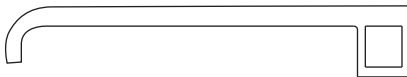
gS 40.6002

	width x depth
<b>gS 40.6001</b>	16mm x 19mm
<b>gS 40.6002</b>	16mm x 25mm
<b>gS 40.6003</b>	16mm x 32mm
<b>gS 40.6004</b>	16mm x 76mm

**Henly Retractor**  
**Adjustable Center Blade**  
with teeth, serrated



38-40



gS 40.6012



	width x depth
<b>gS 40.6011</b>	23mm x 17mm
<b>gS 40.6012</b>	23mm x 42mm
<b>gS 40.6013</b>	23mm x 67mm

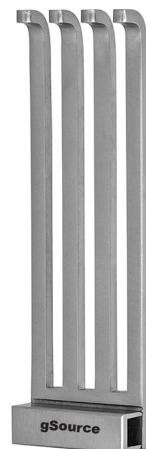
**Henly Retractor Blades**  
4 blunt prongs  
set of 2



17mm



42mm



67mm

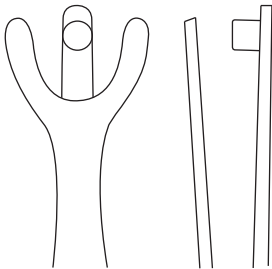
38-40/32 - self-retaining retractors

38-40

Highly versatile retractor. Double hinged arms fold along patient's back helping to provide unhindered access to surgical site. Interchangeable blades easily connect into openings on hinged arms of frame.

For blades gS 40.7644 through gS 40.7678.

**gS 40.7690** 8 3/4"  
**Double Hinged Retractor**  
ring handle only



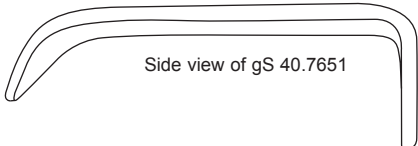
Useful for blade removal.

**gS 40.7625** 4 1/2"  
**Retractor Blade Ejector Forceps**

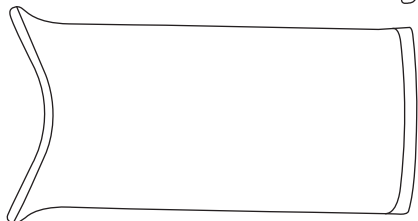


width x depth	blunt	serrated	5 prong
24mm x 25mm	<b>gS 40.7644</b>	<b>gS 40.7657</b>	<b>gS 40.7678</b>
24mm x 30mm	<b>gS 40.7647</b>	<b>gS 40.7658</b>	<b>gS 40.7668</b>
24mm x 35mm	<b>gS 40.7648</b>	<b>gS 40.7659</b>	<b>gS 40.7669</b>
24mm x 40mm	<b>gS 40.7649</b>	<b>gS 40.7660</b>	<b>gS 40.7670</b>
24mm x 45mm	<b>gS 40.7650</b>	<b>gS 40.7661</b>	<b>gS 40.7671</b>
24mm x 50mm	<b>gS 40.7651</b>	<b>gS 40.7662</b>	<b>gS 40.7672</b>
24mm x 55mm	<b>gS 40.7652</b>	<b>gS 40.7663</b>	<b>gS 40.7673</b>
24mm x 60mm	<b>gS 40.7653</b>	<b>gS 40.7664</b>	<b>gS 40.7674</b>
24mm x 65mm	<b>gS 40.7654</b>	<b>gS 40.7665</b>	<b>gS 40.7675</b>
24mm x 70mm	<b>gS 40.7655</b>	<b>gS 40.7666</b>	<b>gS 40.7677</b>
24mm x 75mm	<b>gS 40.7656</b>	<b>gS 40.7667</b>	<b>gS 40.7678</b>

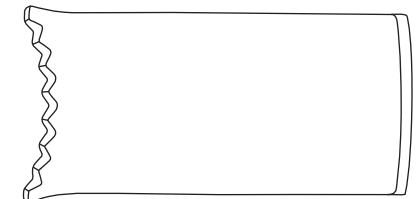
**Caspar Retractor Blades**



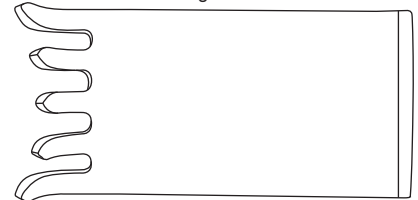
Side view of gS 40.7651



gS 40.7651



gS 40.7662



gS 40.7672

## self-retaining retractors - 38-40/33

38-40

**gS 40.7631** 6 1/2"  
hinged

**Caspar Retractor Handle**  
ring handle only



**gS 40.7610** 4 1/2", 4" arms  
with 85 mm opening

**Caspar Cervical Spreader**  
hinged, transversal  
frame only



blade	depth
<b>gS 40.8802</b>	25mm
<b>gS 40.8803</b>	30mm
<b>gS 40.8804</b>	5mm
<b>gS 40.8805</b>	40mm
<b>gS 40.8806</b>	45mm
<b>gS 40.8807</b>	50mm
<b>gS 40.8808</b>	55mm
<b>gS 40.8809</b>	60mm

**gS 40.8801** 6" handle only

**Cervical Retractor Small**  
blunt blades



blade	depth
<b>gS 40.8831</b>	25mm
<b>gS 40.8832</b>	30mm
<b>gS 40.8833</b>	35mm
<b>gS 40.8834</b>	40mm
<b>gS 40.8835</b>	45mm
<b>gS 40.8836</b>	50mm
<b>gS 40.8837</b>	55mm
<b>gS 40.8838</b>	60mm

**gS 40.8830** 10" handle only, hinged

**Cervical Retractor Large**  
4 sharp prongs



## 38-40/34 - self-retaining retractors

38-40



**gS 40.5459**

### Scoville Retractor

body only

5 1/2" arms with 6 3/4" spread



**gS 40.5460**

### Scoville-Haverfield Retractor

hinged, body only

5 3/4" arms with 7 1/4" spread



depth  
**gS 40.5470** 2"

**gS 40.5480** 3"

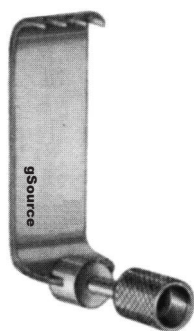
**gS 40.5490** 2"

with cross pin

**gS 40.5500** 2 3/4"

with cross pin

### Scoville Hook



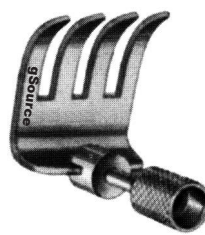
**gS 40.5510** 1" x 2 1/2"

**gS 40.5520** 2" x 2 1/2"

**gS 40.5530** 1 1/8" x 2 5/8"

**gS 40.5540** 1" x 3 1/2"

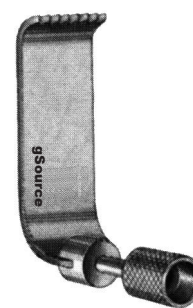
### Scoville Blade with teeth



**gS 40.5560** 1 1/2" x 1 5/8"

**gS 40.5570** 1 7/8" x 2 5/8"

### Scoville Blade 4 prongs



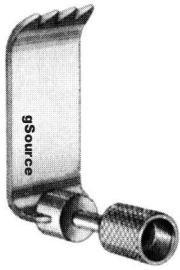
**gS 40.5580** 1" x 2 1/4"

**gS 40.5590** 1" x 3"

**gS 40.5600** 2" x 3 1/2"

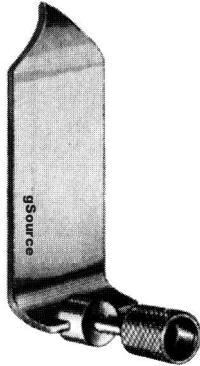
### Meyerding Blade with fine teeth

## self-retaining retractors - 38-40/35



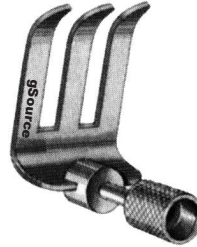
	width x depth
<b>gS 40.5610</b>	1" x 2"
<b>gS 40.5620</b>	2" x 2"
<b>gS 40.5630</b>	1" x 2 1/2"
<b>gS 40.5640</b>	1 1/2" x 2 1/2"
<b>gS 40.5650</b>	1" x 3"
<b>gS 40.5660</b>	1 1/2" x 3"
<b>gS 40.5670</b>	2" x 3"
<b>gS 40.5680</b>	1" x 4"
<b>gS 40.5690</b>	2" x 4"

**Hibbs Blade**  
with teeth



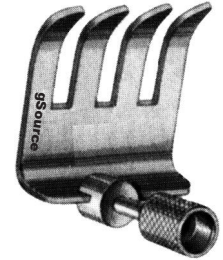
	width x depth
<b>gS 40.5710</b>	1 1/4" x 3"
<b>gS 40.5720</b>	1 1/4" x 4"

**Taylor Spinal Blade**



	width x depth
<b>gS 40.5730</b>	1 1/2" x 1 3/4"

**Taylor Laminectomy Blade**  
3 prongs



	width x depth
<b>gS 40.5740</b>	2" x 1 7/8"
<b>gS 40.5750</b>	2 1/2" x 2 1/2"
<b>gS 40.5760</b>	2 1/4" x 3 1/8"

**Taylor Laminectomy Blade**  
4 prongs

38-40



	width x depth
<b>gS 40.8901</b>	1 3/4" x 1 5/8" with 5 3/4" opening
<b>gS 40.8902</b>	2 5/8" x 1 3/4" with 7 3/4" opening
<b>gS 40.8903</b>	2 5/8" x 2 3/4" with 8 1/2" opening

**Finochietto Rib Spreader**  
stainless steel



**gS 40.9002**  
**Finochietto Rib Spreader**  
small, aluminum, with 7" opening  
1 1/8" width x 1 3/4" depth blades



## 38-40/36 - self-retaining retractors

38-40



**gS 40.9004**

### **Finochietto Rib Spreader**

medium, aluminum, with 7" opening  
1 5/8" width x 2 3/8" depth blades

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**gS 40.9030**

### **Finochietto Rib Spreader**

infant, with 3" opening  
13/16" width x 3/4" depth blades

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## did you know... ?

Anterolateral thoracotomy is a surgical technique in which entry to the chest is made with an incision below the breast but above the costal margins (lower edge of the chest (thorax) formed by the bottom edge of the rib cage). The incision involves the pectoralis, serratus anterior, and intercostal muscles. Left anterolateral thoracotomy is common for open chest massage, a critical maneuver in the management of traumatic cardiac arrest. Anterolateral thoracotomy requires the use of a retractor similar to a rib spreader, such as the Tuffier Rib Spreader shown on this page.

Theodore Tuffier was a French surgeon born in 1857, whose contributions were in the field of intratracheal anesthesia, pulmonary resection and experimental cardiac surgery. He performed the first partial lung resection in 1891.



**gS 40.9020**

### **Tuffier Rib Spreader**

6 1/2" opening  
2" width x 1 3/4" depth blades

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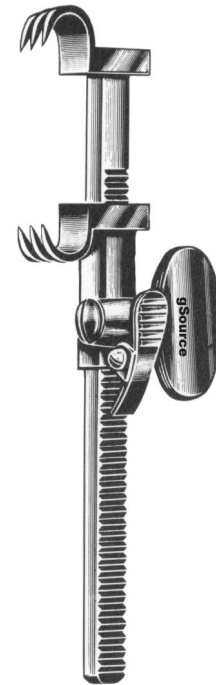
## self-retaining retractors - 38-40/37



**gS 40.9320**

**Favaloro-Morse Spreader**

8" opening  
1 1/2" width x 1 1/8" depth blades

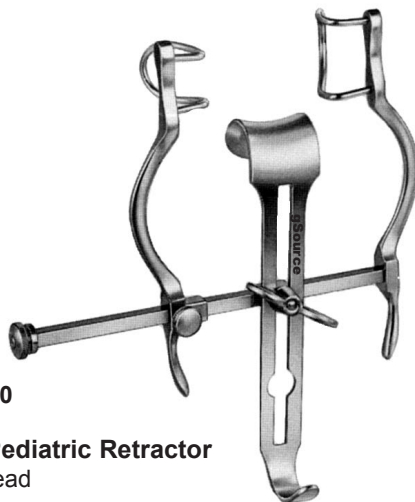


**gS 40.9100 8"**

**Bailey Rib Contractor**

4 1/2" opening

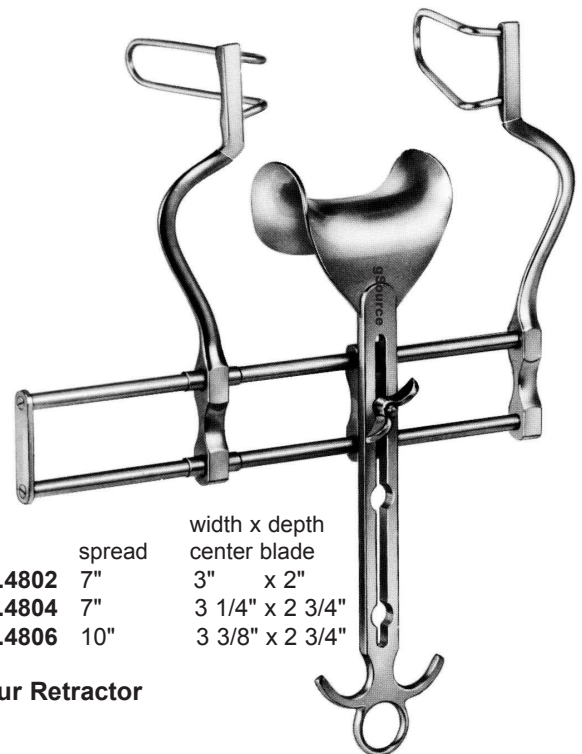
38-40



**gS 38.4800**

**Balfour Pediatric Retractor**

3 1/2" spread



	spread	width x depth center blade
<b>gS 38.4802</b>	7"	3" x 2"
<b>gS 38.4804</b>	7"	3 1/4" x 2 3/4"
<b>gS 38.4806</b>	10"	3 3/8" x 2 3/4"

**Balfour Retractor**

## 38-40/38 - self-retaining retractors

38-40

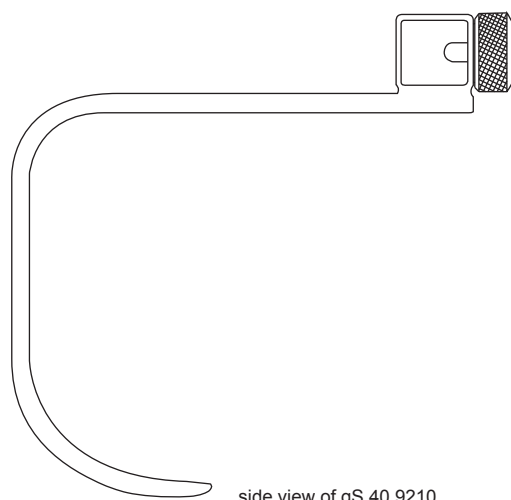


short blade	width x depth	shape
<b>gS 40.9202</b>	25mm x 25mm	curved round
<b>gS 40.9210</b>	25mm x 51mm	curved flat
<b>gS 40.9214</b>	25mm x 64mm	curved flat
<b>gS 40.9215</b>	25mm x 76mm	curved flat
<b>gS 40.9218</b>	25mm x 114mm	curved flat

long blade	width x depth	shape
<b>gS 40.9204</b>	25mm x 25mm	curved round
<b>gS 40.9220</b>	25mm x 51mm	curved flat
<b>gS 40.9224</b>	25mm x 64mm	curved flat
<b>gS 40.9225</b>	25mm x 76mm	curved flat
<b>gS 40.9228</b>	25mm x 114mm	curved flat

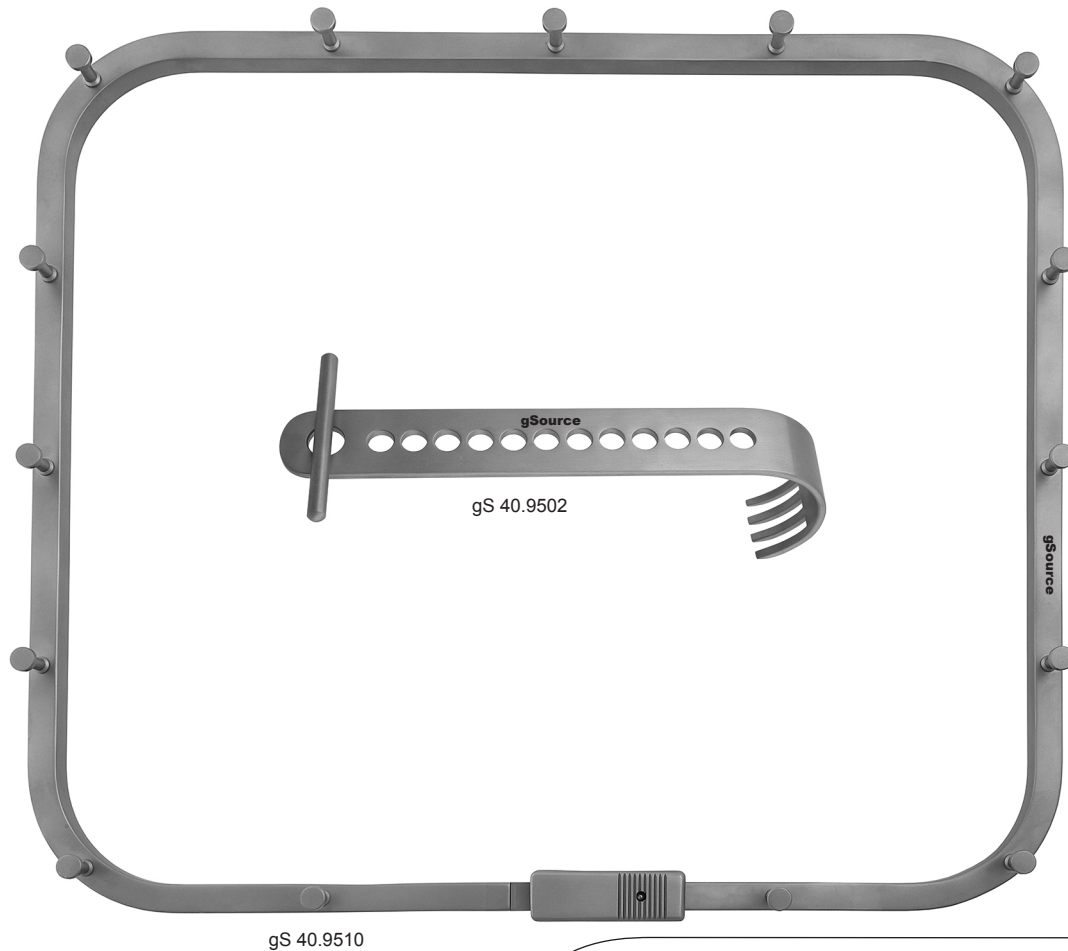
**gS 40.9280** frame only 12" x 9 1/2"  
**gS 40.9282** weight only with chain – 4 lbs.

**Initial Incision Retractor**  
 (Charnley)



side view of gS 40.9210

## self-retaining retractors - 38-40/39



38-40

Multiple holding posts on frame allow for better positioning and the ability to use numerous blades at the same time. Provides excellent exposure during hip arthroplasty and hip fracture surgery. Blades have T-handles to help prevent hand slippage. Blade handle length is 6".

### T-handle

blade width x depth

**gS 40.9502** 1" x 2"

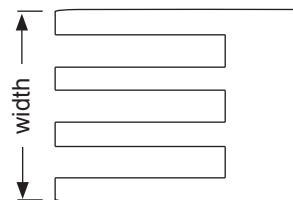
**gS 40.9503** 1" x 3"

**gS 40.9504** 1" x 4"

**gS 40.9505** 1" x 5"

**gS 40.9506** 1" x 6"

**gS 40.9510** square frame only  
12 3/4" x 11 1/4"



side view of gS 40.9503

### Hip Retractor

### did you know... ?

Donald Church Balfour was born in 1882 in Toronto, Canada and obtained the degree of bachelor of medicine in 1906 from the University of Toronto. During his internship at the Hamilton General Hospital, he became influenced by Dr. Ingersoll Olmstead, a prominent surgeon, who recommended him for an opening at the Mayo Clinic in the department of pathology in 1907. He was accepted and worked with Drs. Louis B. Wilson and William C. MacCarty in the surgical pathology department. In 1909, he became a junior surgeon and rotated between the surgical services of the Drs. Mayo (William J. and Charles). In 1910 he married Carrie Mayo, daughter of Dr. William J. Mayo. In 1912 he became head of a section of general surgery in the Mayo Clinic.

Dr. Balfour contributed much of his time to the work of the Mayo Foundation. From 1915 to 1923 he was associate professor of surgery, and from 1923 to 1947 he was professor of surgery. He was chief of the Division of Surgery of the Mayo Foundation from 1923 to 1935, and became director of the Mayo Foundation in 1937, serving in that capacity until his retirement in 1947. He became internationally recognized for the management of difficult gastrointestinal cases and focused his research and writings of more than 225 articles on disorders of the stomach and duodenum (the beginning portion of the small intestine, starting at the lower end of the stomach and extending to the jejunum, the middle portion of the small intestine).

He also designed numerous instruments, including the Balfour Retractor shown on page 37, and equipment such as a device for holding bottles of solution, the operating table and operating room mirror. Dr. Balfour received recognition from the Mayo Clinic, as well as from numerous national and international organizations. He held honorary fellowship in the Royal College of Surgeons of England, Edinburgh, and Australasia. Dr. Balfour was one of the founders of the World Medical Organization and a charter member of the World Health Organization and of the Central Surgical Association. He passed away in 1963.

Enrique Finochietto was born in 1881 in Buenos Aires, Argentina and entered medical school at age 16. He received his medical degree from the University of Buenos Aires in 1904. After graduation, he became an intern at the Hospital Rawson in Buenos Aires and remained a member of its staff for his entire life.

Finochietto studied nose and throat, gynecological, and orthopedic surgical practices in many western European hospitals from 1906 to 1909. Upon his return to Buenos Aires, he was appointed chief of the surgical division at the Hospital Rawson. He returned to Europe in 1918, working during World War I in the Argentine Hospital for the Wounded in Passy, located near Paris. For his dedication and work, he received the Legion of Honor and Red Cross Medal in 1919. Finochietto then traveled to the United States and visited with Harvey Cushing and the Mayo brothers. He observed surgical practices at the Mayo Clinic and other prominent hospitals before returning to Argentina.

While he acted as chief of the surgical division at the Hospital Rawson, the facility was undergoing an extensive enlargement and modernization. Finochietto planned the new surgical pavilion (Pavilion IX), where he worked alongside his brothers, Drs. Miguel Ángel and Ricardo Finochietto. Pavilion IX included numerous innovations of his design such as an outpatient department with separate dressing and examining rooms, separate sterile dressing packages, a narrower stretcher to maneuver through the halls more easily, separate departments of orthopedic surgery, endoscopy and pathology, as well as laboratories and radiology departments that were located within the hospital itself. He also eliminated the book form of medical records and instead created separate envelopes for patients.

Dr. Finochietto not only changed the way surgical pavilions were organized and operated, he also invented many surgical instruments with sixty-seven inventions to his credit. These included a motorized surgical table which allowed a patient to be moved to any position, a special orthopedic table, a bench that allowed surgeons to operate while seated, the surgical vacuum, Finochietto scissors, and the Finochietto thoracic rib spreaders as shown on pages 35-36 in this section.

Establishing the Surgical Graduate School of Buenos Aires, he also changed how surgery was taught and performed in Argentina. Finochietto was adamant about giving students more practical experience in surgery and included instruction on proper, professional demeanor throughout a surgical procedure. He also taught as a Clinical Professor of Surgery at the University of Buenos Aires and became the president of the Buenos Aires Surgical Society in 1922. He developed new surgical techniques in 1924 for the treatment of the stomach, duodenum and small intestine. In 1929 Dr. Finochietto performed the first intervention on a cardiac lesion in Argentina, successfully repairing a bullet wound to the heart of a minor. He passed away in 1948 at the age of 66.