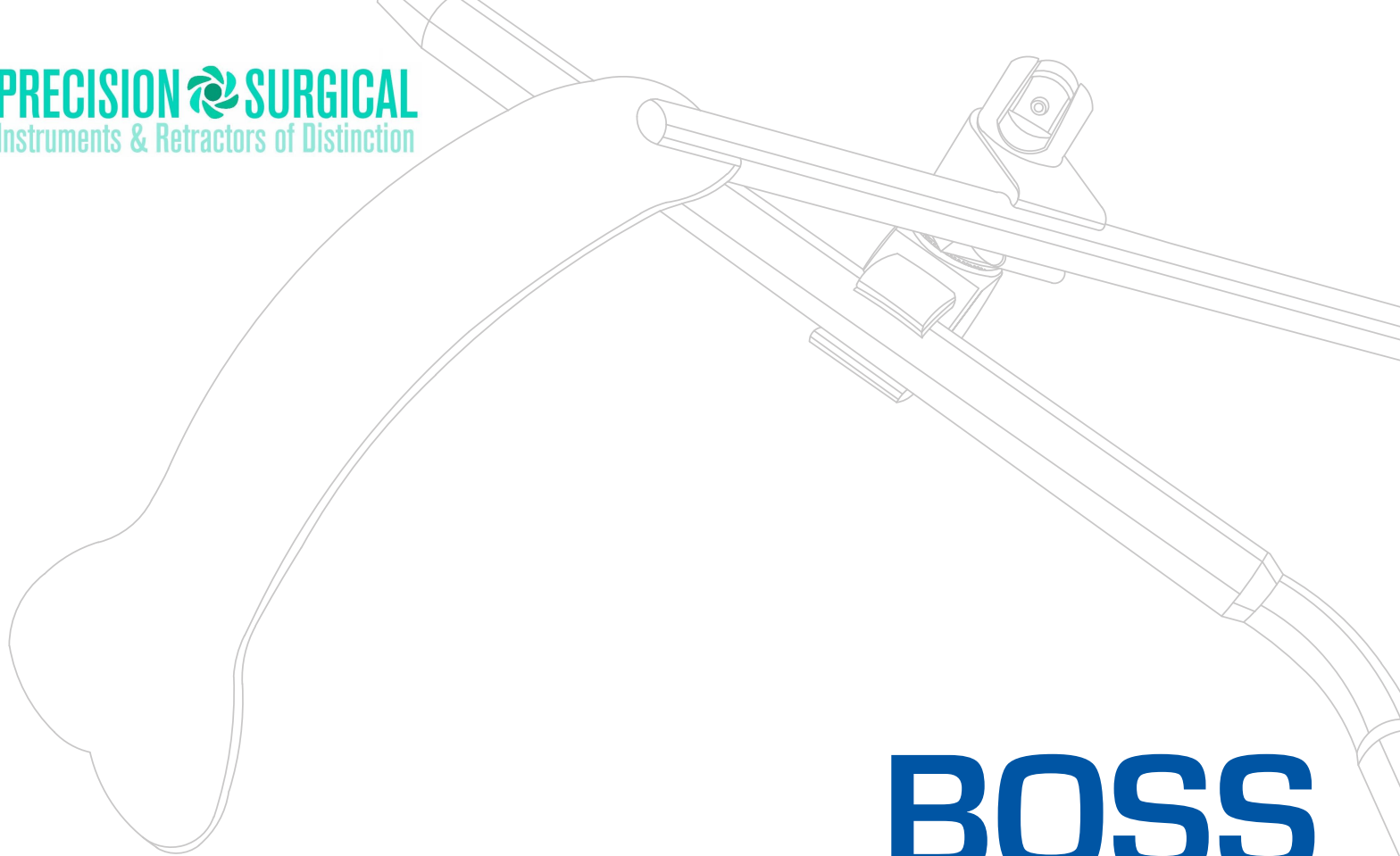




BOSS
INSTRUMENTS LTD



LOBSTER™
TABLE MOUNTED RETRACTOR SYSTEM

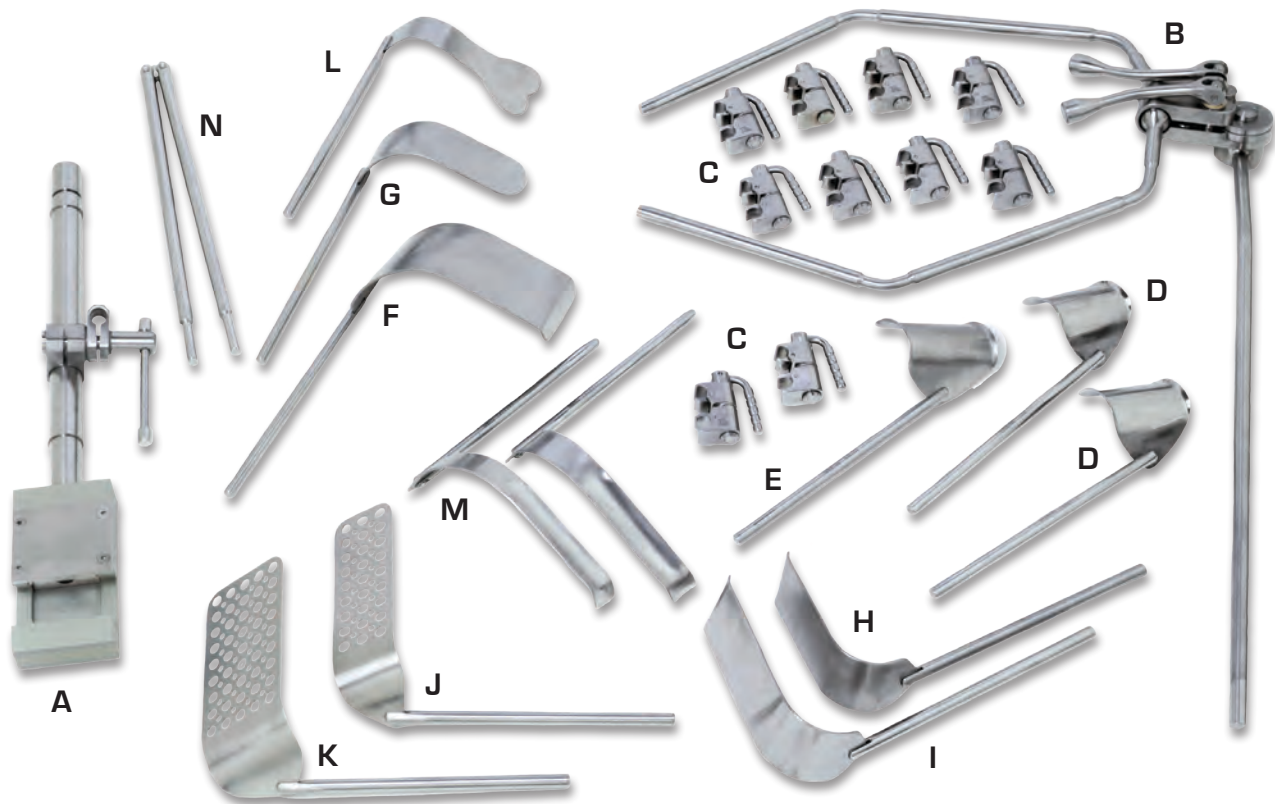
BOSS™ LOBSTER™ RETRACTOR SYSTEM

BOSS Instruments presents the Lobster™ Retractor System which offers fast, easy setup, unsurpassed versatility in frame positioning and the most innovative retractor clamp available today.

The Lobster™ Retractor System affords retraction versatility and unparalleled ease of use in all exposure management situations.

- Unsurpassed retraction and exposure management through unlimited blade placement and positioning.
- Addresses the most demanding retraction requirements accommodating any size patient.
- Unequalled adjustment versatility.
- Simple to set up.

BOSS™ LOBSTER™ EXPANDED VASCULAR SYSTEM 18-4302EC ONE OF MANY LOBSTER™ RETRACTOR SYSTEMS



- A. Vertical Post with Table Rail
Clamp & Coupling Clamp - 18-4306C
B. Lobster™ Frame - 18-4315
C. Retractor Clamps - 18-4305
D. Mayo Retractors, 2¾" x 2" - 18-4324

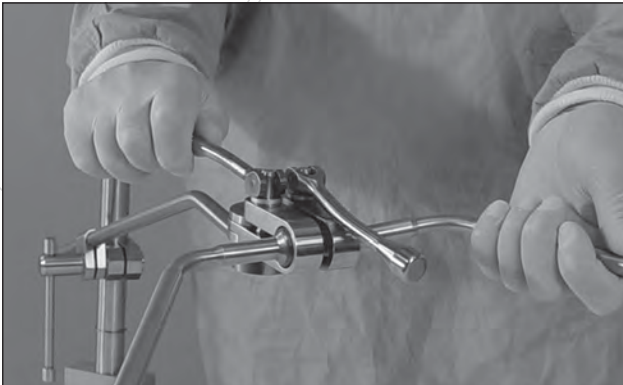
- E. Mayo Retractor, 3½ x 2" - 18-4326
F. Fence Retractor, 4 x 6" - 18-4382
G. Deaver Retractor, 2½ x 4½" - 18-4332
H. Splanchnic Retractor, 2 x 4½" - 18-4404
I. Splanchnic Retractor, 2 x 6" - 18-4406

- J. Malleable Retractor, 2 x 6½" - 18-4364
K. Malleable Retractor, 3 x 6½" - 18-4368
L. Harrington Retractor, 2 x 5" - 18-4344
M. Renal Retractors, 1 x 6" - 18-4394
N. Extension Arm - 18-4310

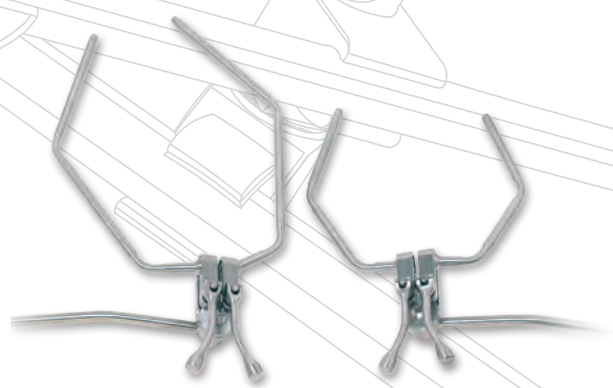
LOBSTER™ FRAME



Two independent arm adjustment levers



Arms may be individually adjusted

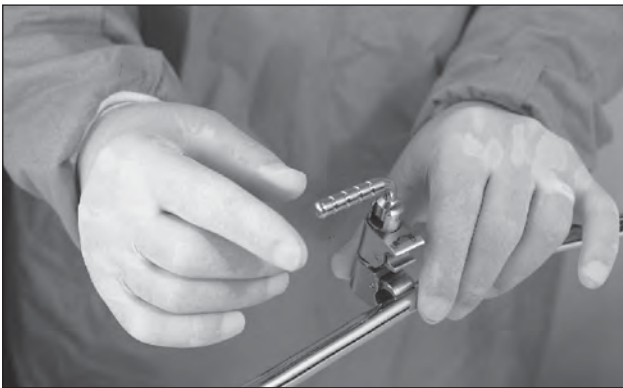


Arms spread for maximum position versatility on both adult and mini frames

The Lobster™ retractor frame provides complete exposure flexibility.

- Independent arm adjustment capabilities.
- Retraction requirements may be modified at anytime during a procedure by adjusting both or only one of it's arms, without diminishing wound exposure or management and without compromising patient safety.
- Unlimited frame adjustments accommodate even very large patients.

LOBSTER™ CLAMP



Clamp easily snaps onto the frame



Retractor shaft easily snaps into clamp



Retractor shaft may also be inserted into clamp

The Lobster™ retractor clamp is the only "Snap on/Snap in" clamp. The next generation in surgical retraction!

- No need to go through the aggravation of establishing retraction while trying to insert the retractor's shaft into a hole in a clamp!
- Merely position the clamp when and where you wish on the retractor arm, then "snap" it on.
- Retract as desired, then "snap" the shaft of the retractor in the clamp. Final adjustment is accomplished by sliding the retractor shaft back and forth in the clamp before locking.
- No clamp drift or fade. Stability at your fingertips.

WIDE SELECTION OF RETRACTORS

Can Be Used in the Following Procedures:

Abdominal Aortic Aneurysm Ileofemoral Bypass Carotid Endarterectomy Femoral-Popliteal Thoracic Outlet

STAINLESS STEEL RETRACTORS



Mayo



Deaver



Harrington



Kelly



Malleable



Malleable, Perforated



Bladder



Fence



Finger Fence



Renal



Splanchnic



Rake



Mini Malleable



Mini Richardson



Mini Anterior

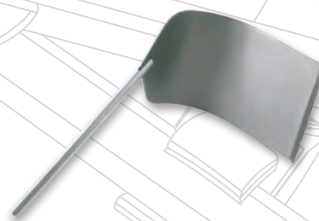
ALUMINUM RETRACTORS



Harrington, Aluminum



Malleable, Aluminum



Fence, Aluminum



Renal, Aluminum



Deaver, Aluminum



Splanchnic, Aluminum



Mayo, Aluminum

PERINEAL EXTENSION ARM



HINGED EXTENSION ARM



LOBSTER™ CLAMP



SNAP-OR-SLIDE CLAMP



Two clamp styles available...

The LOBSTER™ CLAMP (above) is a true side-loading "Snap On/Snap In" clamp providing easy and quick placement of the clamp on the frame arms and the retractor shafts in the clamp body.

The SNAP-OR-SLIDE CLAMP (right) offers unmatched versatility of placement in its ability to be either snapped onto the frame arms or slide over their ends.

ORDERING INFORMATION

LOBSTER RETRACTOR SYSTEMS

Item	Description	18-4300B GENERAL LOBSTER™	18-4300EC GENERAL EXPANDED LOBSTER™
18-4306C	Vertical Post With Table Rail Clamp & Coupling Clamp	1	1
18-4310	Lobster™ Extension Arm	-	1
18-4315	Lobster™ Frame	1	1
18-4382	Fence Retractor 4" x 6" (10 x 15cm)	1	1
18-4406	Splanchnic Retractor 2" x 6" (5.0 x 15.2cm)	1	1
18-4332	Deaver Retractor 2¾" x 4½" (7.0 x 11.4cm)	1	1
18-4364	Malleable Retractor, Perforated 2" x 6½" (5.0 x 16.5cm)	1	1
18-4368	Malleable Retractor, Perforated 3" x 6½" (7.6 x 16.5cm)	1	1
18-4344	Harrington 'Sweetheart' Retractor 2" x 5" (5 x 12.5cm)	1	1
18-4356	Kelly Retractor, 'Modified' 3" x 2½" (7.6 x 6.3cm)	1	1
18-4358	Kelly Retractor, 'Modified' 3" x 4" (7.6 x 10.2cm)	1	1
18-4324	Mayo Retractor 2¾" x 2" (7.0 x 5.0cm)	2	2
18-4305	Retractor Clamp	6	8

Item	Description	18-4302C VASCULAR LOBSTER™	18-4302EC EXPANDED VASCULAR LOBSTER™
18-4306C	Vertical Post With Table Rail Clamp & Coupling Clamp	1	1
18-4310	Lobster™ Extension Arm	-	1
18-4315	Lobster™ Frame	1	1
18-4326	Mayo Retractor 3½" x 2" (8.9 x 5.0cm)	1	1
18-4382	Fence Retractor 4" x 6" (10 x 15cm)	1	1
18-4404	Splanchnic Retractor 2" x 4½" (5.0 x 11.4cm)	1	1
18-4406	Splanchnic Retractor 2" x 6" (5.0 x 15.2cm)	1	1
18-4332	Deaver Retractor 2¾" x 4½" (7.0 x 11.4cm)	1	1
18-4364	Malleable Retractor, Perforated 2" x 6½" (5.0 x 16.5cm)	1	1
18-4368	Malleable Retractor, Perforated 3" x 6½" (7.6 x 16.5cm)	1	1
18-4344	Harrington 'Sweetheart' Retractor 2" x 5" (5 x 12.5cm)	1	1
18-4324	Mayo Retractor 2¾" x 2" (7.0 x 5.0cm)	2	2
18-4394	Renal Retractor 1" x 6" (2.5 x 15.2cm)	2	2
18-4305	Retractor Clamp	8	10

Item	Description	18-4301C UROLOGY LOBSTER™	18-4301EC UROLOGY EXPANDED LOBSTER™
18-4306C	Vertical Post With Table Rail Clamp & Coupling Clamp	1	1
18-4310	Lobster™ Extension Arm	-	1
18-4315	Lobster™ Frame	1	1
18-4382	Fence Retractor 4" x 6" (10 x 15cm)	1	1
18-4338	Deaver Retractor 1½" x 6" (3.8 x 15.2cm)	1	1
18-4332	Deaver Retractor 2¾" x 4½" (7.0 x 11.4cm)	1	1
18-4364	Malleable Retractor, Perforated 2" x 6½" (5.0 x 16.5cm)	1	1
18-4368	Malleable Retractor, Perforated 3" x 6½" (7.6 x 16.5cm)	1	1
18-4375	Malleable Bladder Retractor 3" x 6" (7.6 x 15.2cm)	1	1
18-4344	Harrington 'Sweetheart' Retractor 2" x 5" (5 x 12.5cm)	1	1
18-4346	Harrington 'Sweetheart' Retractor 3" x 7" (7.6 x 17.8cm)	1	1
18-4404	Splanchnic Retractor 2" x 4½" (5.0 x 11.4cm)	1	1
18-4322	Mayo Retractor 2" x 2" (5.0 x 5.0cm)	2	2
18-4324	Mayo Retractor 2¾" x 2" (7.0 x 5.0cm)	2	2
18-4305	Retractor Clamp	6	8

18-4303C ANTERIOR LUMBAR LOBSTER™		
Item	Description - ALL BLADES ARE ALUMINUM	Qty
18-4306C	Vertical Post With Table Rail Clamp & Coupling Clamp	1
18-4315	Lobster™ Frame	1
18-4326A	Mayo Retractor 3½" x 2" (8.9 x 5.0cm)	1
18-4382A	Fence Retractor 4" x 6" (10 x 15cm)	1
18-4332A	Deaver Retractor 2¾" x 4½" (7.0 x 11.4cm)	1
18-4364A	Malleable Retractor, Perforated 2" x 6½" (5.0 x 16.5cm)	1
18-4368A	Malleable Retractor, Perforated 3" x 6½" (7.6 x 16.5cm)	1
18-4344A	Harrington 'Sweetheart' Retractor 2" x 5" (5 x 12.5cm)	1
18-4404A	Splanchnic Retractor 2" x 4½" (5.0 x 11.4cm)	1
18-4402A	Splanchnic Retractor 1½" x 6" (3.8 x 15.2cm)	1
18-4406A	Splanchnic Retractor 2" x 6" (5.0 x 15.2cm)	1
18-4408A	Splanchnic Retractor 2" x 8" (5.0 x 20.3cm)	1
18-4324A	Mayo Retractor 2¾" x 2" (7.0 x 5.0cm)	2
18-4392A	Renal Retractor 1" x 4½" (2.5 x 11.4cm)	2
18-4394A	Renal Retractor 1" x 6" (2.5 x 15.2cm)	2
18-4398A	Renal Retractor 1" x 8" (2.5 x 20.3cm)	2
18-4305	Retractor Clamp	6

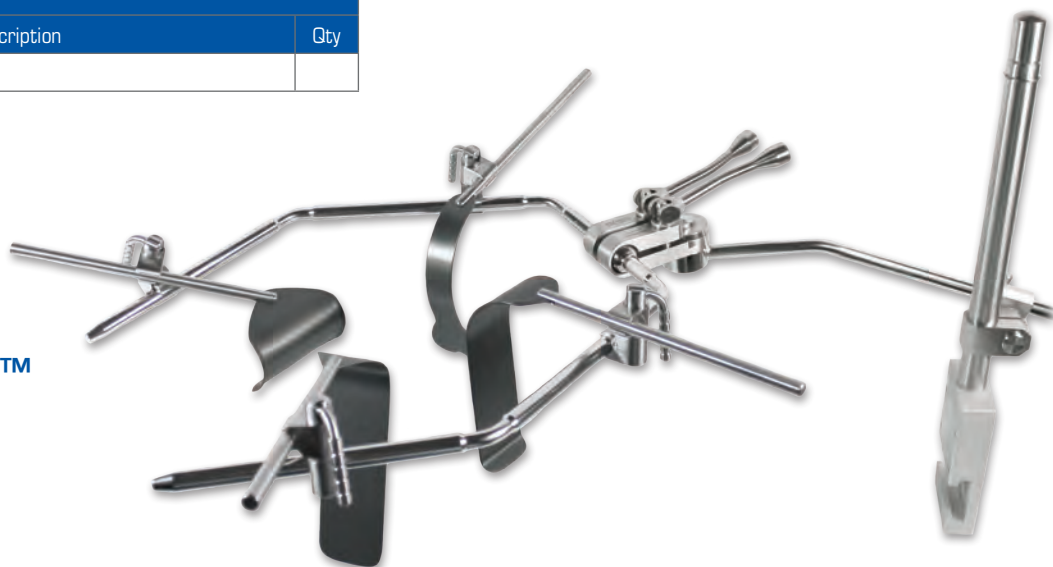
18-4301PC PROSTATECTOMY (MINI UROLOGY) LOBSTER™		
Item	Description	Qty
18-4306C	Vertical Post With Table Rail Clamp & Coupling Clamp	1
18-4316	Lobster™ Mini Frame	1
18-4312	Perineal Extension Arm 20" (50.8cm)	1
18-4480	Posterior Retractor 1¾" x 3" (4.4 x 7.6cm)	1
18-4481	Posterior Retractor 1¾" x 4" (4.4 x 10.2cm)	1
18-4493	Anterior Retractor 1½" x 3" (3.8 x 7.6cm)	1
18-4438	Malleable Retractor ¾" x 2" (1.9 x 5.0cm)	4
18-4439	Malleable Retractor ¾" x 3" (1.9 x 7.6cm)	4
18-4440	Malleable Retractor ¾" x 4" (1.9 x 10.2cm)	4
18-4305	Retractor Clamp	5

CASE, ALL SYSTEMS OPTIONAL		
Item	Description	Qty
18-4300C	Sterilization Case	

18-4304MC MINI LOBSTER™		
Item	Description	Qty
18-4306C	Vertical Post With Table Rail Clamp & Coupling Clamp	1
18-4316	Lobster™ Mini Frame	1
18-4425	Rake Retractor 1" x ½" (2.5 x 1.3cm)	1
18-4426	Rake Retractor 1" x 1" (2.5 x 2.5cm)	1
18-4430	Mayo Retractor 1" x 1" (2.5 x 2.5cm)	1
18-4435	Malleable Retractor ½" x 1" (1.3 x 2.5cm)	1
18-4438	Malleable Retractor ¾" x 2" (1.9 x 5.0cm)	1
18-4439	Malleable Retractor ¾" x 3" (1.9 x 7.6cm)	1
18-4445	Malleable Retractor 1" x 1" (2.5 x 2.5cm)	1
18-4448	Malleable Retractor 1" x 4" (2.5 x 10.2cm)	1
18-4449	Malleable Retractor 1" x 5" (2.5 x 12.7cm)	1
18-4450	Malleable Retractor 1" x 6" (2.5 x 15.2cm)	1
18-4455	Malleable Retractor 1½" x 3" (3.8 x 7.6cm)	1
18-4456	Malleable Retractor 1½" x 4" (3.8 x 10.2cm)	1
18-4457	Malleable Retractor 1½" x 5" (3.8 x 12.7cm)	1
18-4458	Malleable Retractor 1½" x 6" (3.8 x 15.2cm)	1
18-4322TD	Mayo Retractor 2" x 2" (5.0 x 5.0cm)	2
18-4324TD	Mayo Retractor 2¾" x 2" (7.0 x 5.0cm)	2
18-4470	Splanchnic Retractor 1½" x 3½" (3.8 x 8.9cm)	2
18-4305	Retractor Clamp	6

18-4302PVC MINI VASCULAR LOBSTER™		
Item	Description	Qty
18-4306C	Vertical Post With Table Rail Clamp & Coupling Clamp	1
18-4316	Lobster™ Mini Frame	1
18-4425	Rake Retractor 1" x ½" (2.5 x 1.3cm)	1
18-4426	Rake Retractor 1" x 1" (2.5 x 2.5cm)	1
18-4475	Richardson 1" x 1" (2.5 x 2.5cm)	1
18-4477	Richardson ¾" x 1" (1.9 x 2.5cm)	1
18-4479	Richardson 1" x 2" (2.5 x 5.0cm)	1
18-4305	Retractor Clamp	4

ANTERIOR LUMBAR LOBSTER™ 18-4303C



BARIATRIC/UPPER ABDOMINAL SYSTEM 18-4600

Bilateral setup for low profile frame...One piece, easy-to-use components
Attaches to operating room table side rail without compromising sterile field

Item	Description	18-4600 BARIATRIC/UPPER ABDOMINAL SYSTEM
18-4340	Deaver Retractor, Obesity 2¾" x 8" (7.0 x 20.3cm)	1
18-4350	Harrington Retractor, Obesity 4½" x 10" (11.4 x 25.4cm)	1
18-4370	Malleable Retractor, Obesity 3" x 8" (7.6 x 20.3cm)	1
18-4372	Malleable Retractor, Obesity 4" x 8" (10.2 x 20.3cm)	1
18-4307C	Vertical Post With Table Rail Clamp & Coupling Clamp 24"	2
18-4330	Mayo Retractor, Obesity 3½" x 2¾" (8.9 x 7.0cm)	2
18-4308	Snap Or Slide™ Clamp	7
18-4603	U-Shaped, Hinged, Cross Bar	1
18-4850	Body Wall Retractor 2" x 5" (5.0 x 12.7cm)	1
18-4852	Body Wall Retractor 2" x 6" (5.0 x 15.2cm)	1
18-4610	Coupling Clamp 1" x ½" (2.5 x 1.3cm) Body	2
18-4512	Angled Arm 8" x 16" (20.3 x 40.6cm)	2
18-4620	Sternal Retractor 3" x 3" (7.6 x 7.6cm)	2



Nathanson Liver Retractor

Articulating strong arm (hinged). Complete with Table clamp and 3 x Liver retractors in small, medium and large.

PSB920-000D

PRECISION SURGICAL
Instruments & Retractors of Distinction

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