

# Thompson Retractor

Uncompromised Exposure™



## **Surgical Atlas**

THIRD EDITION

Suggested Setups for Thompson Retractor Systems

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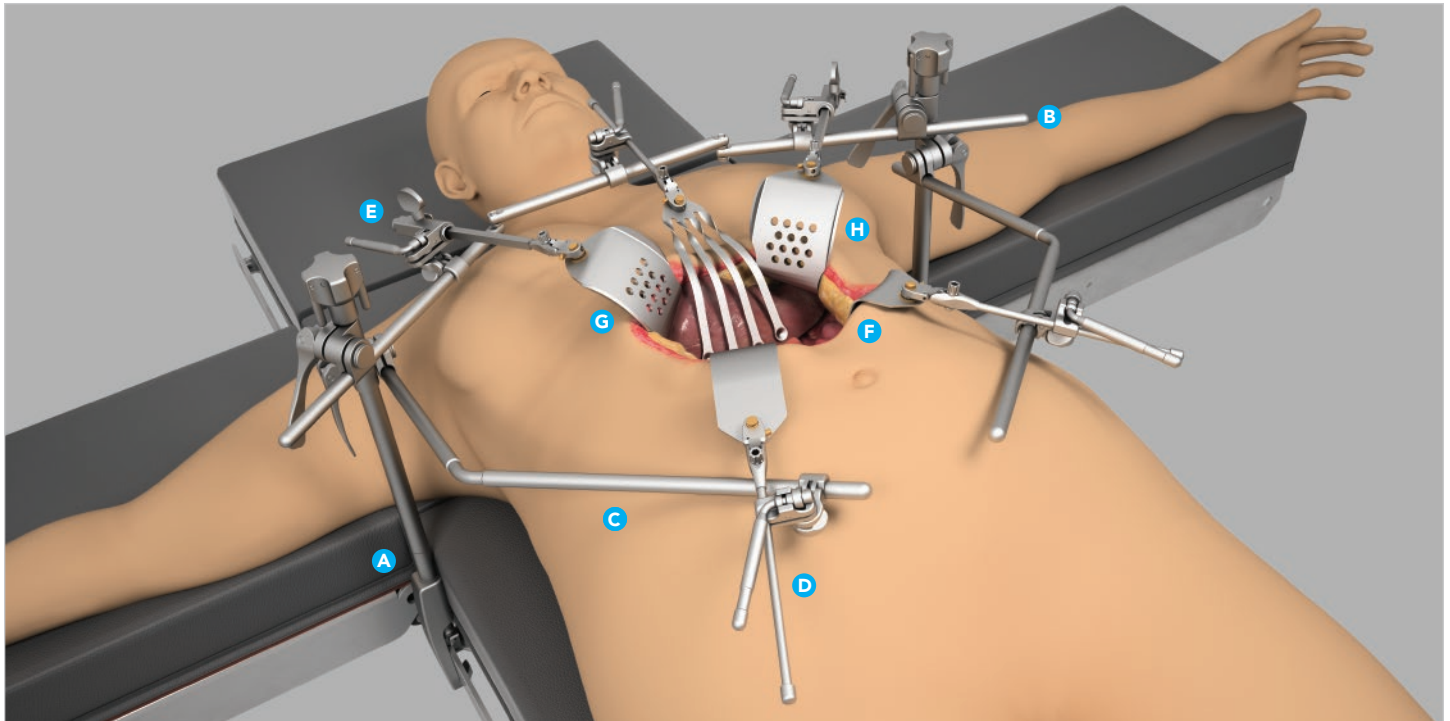
#### NOTICE:

Blade configurations shown in this Surgical Atlas are for illustrative purposes only.

For the most up-to-date version of this Surgical Atlas, please see our website:

[WWW.THOMPSONSURGICAL.COM](http://WWW.THOMPSONSURGICAL.COM)

# Bariatric Liver Transplant



## BARIATRIC SYSTEM #SL82001

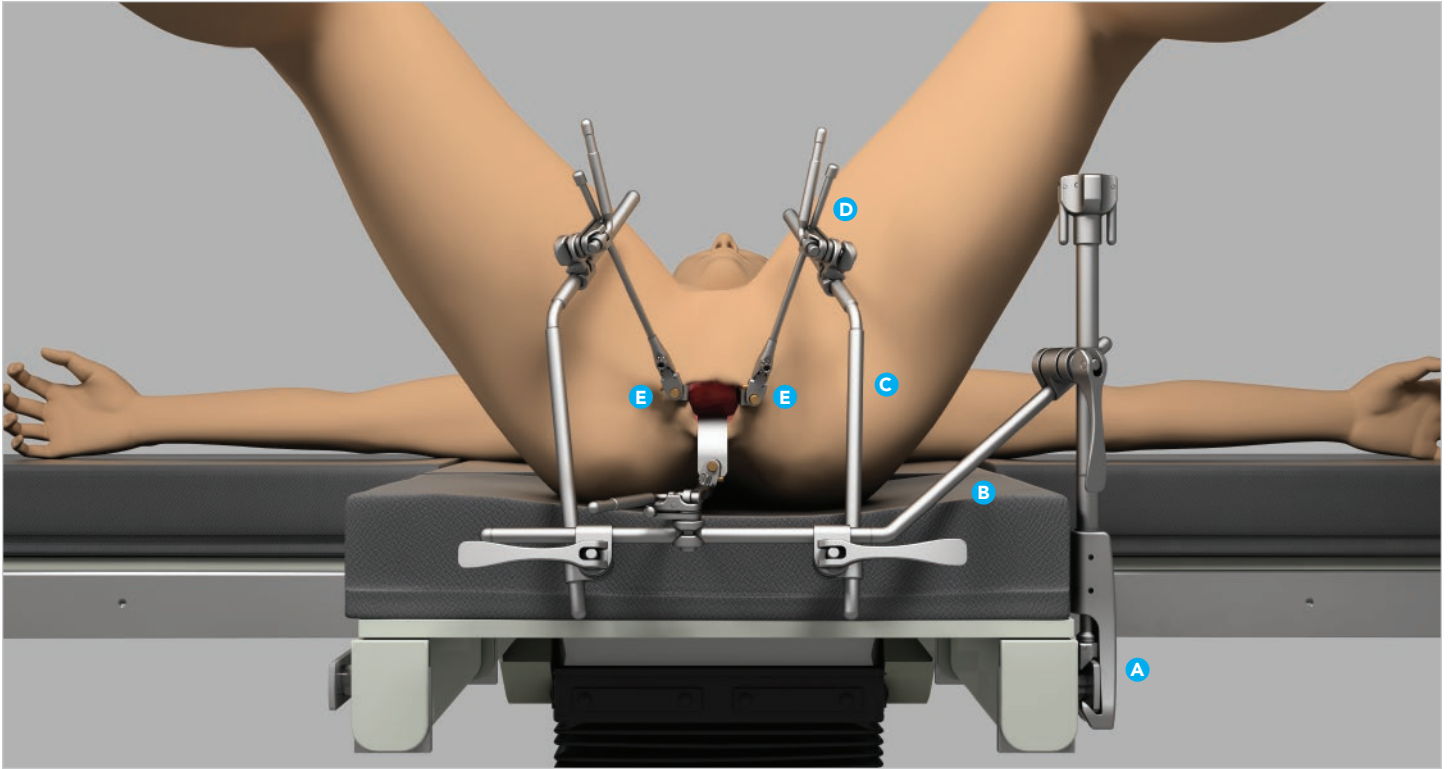
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	Elite III Rail Clamp with 2 Cam Joints 22"	43905AC	Attaches to the rail of the OR table and holds the crossbar and angled arms in position.
B		1	41 1/2" Bilateral Crossbar Hinged (14" x 10" x 14")	41900PHL	Attaches to the rail clamps to provide bilateral stability, and holds the retractor handles in place around the incision.
C		2	24" Angled Arm (11" x 13") @ 45°	44124W	Attaches to the rail clamps and holds the retractor handles in place around the incision.
D		5	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		2	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
E		2	Micro-Adjustable II Clip-on Quick Angle 15"	SL45006CGRP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.

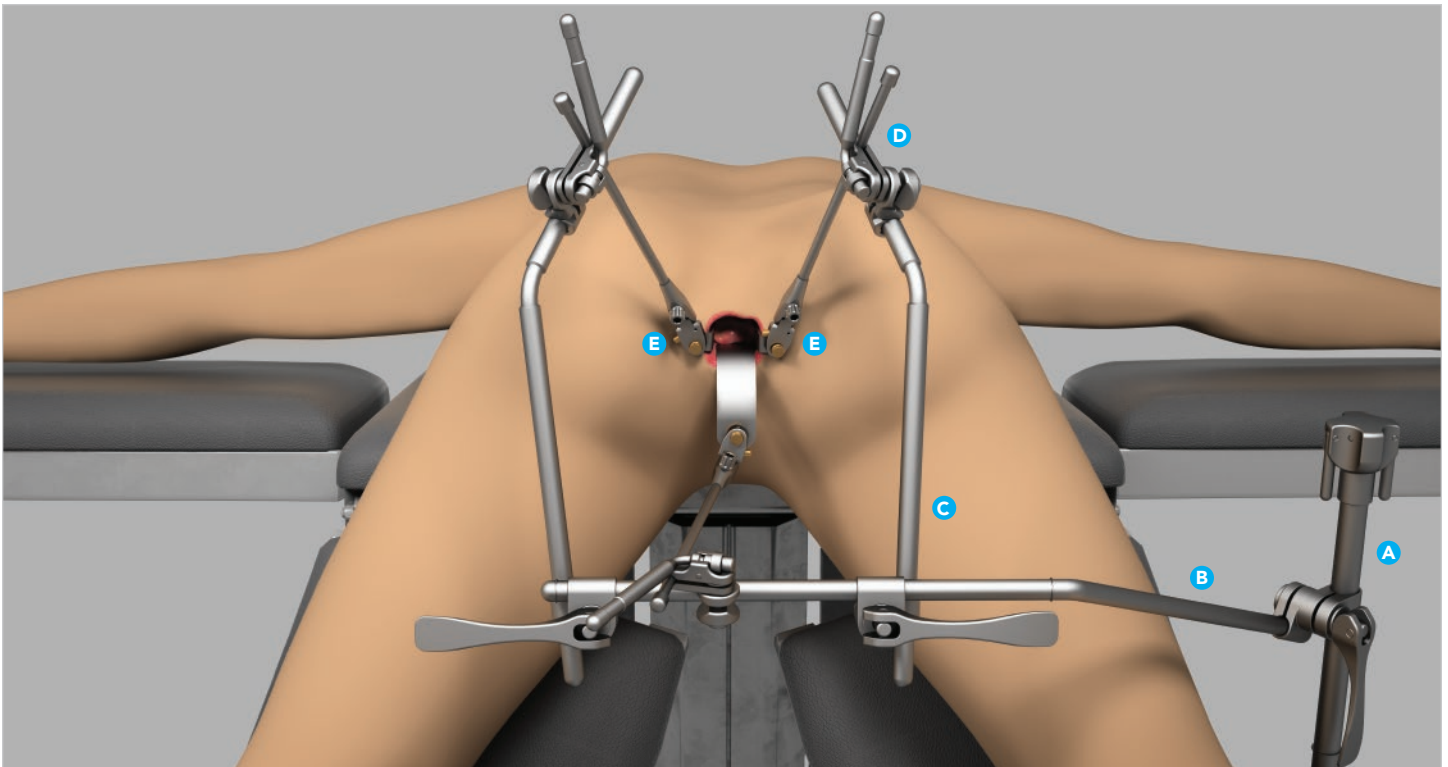
BARIATRIC SYSTEM #SL82001 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		2	Concave Renal Vein 25mm x 191mm (1" x 7 1/2")	SL46119C	Renal vein or vessel retraction.
		1	Malleable 51mm x 254mm (2" x 10")	SL46122A	Soft tissue retraction.
		1	Malleable 76mm x 254mm (3" x 10")	SO46124A	
		1	Malleable 102mm x 254mm (4" x 10")	SO46124B	
F		2	Kelly 76mm x 89mm (3" x 3 1/2")	SO46130	Abdominal or incisional wall retraction.
		1	Fence 102mm x 203mm (4" x 8")	SO46136A	Lateral retraction of abdominal wall on large procedures.
		2	Balfour [with lips] 83mm x 73mm (3 1/4" x 3")	SO46141	Costal margin or abdominal wall retraction.
		2	Balfour [with lips] 83mm x 123mm (3 1/4" x 5")	SO46141D	
		1	Balfour [with lips] 83mm x 175mm (3 1/4" x 6 7/8")	SO46141F	
		1	Richardson 51mm x 178mm (2" x 7")	SO46153	Abdominal wall retraction.
		1	Harrington 114mm x 254mm (4 1/2" x 10")	SL46161	Organ or soft tissue retraction.
G		1	Non-Slip Balfour R 77mm x 94mm (3" x 3 3/4")	SO46169C	Aligns with anatomy, reducing slippage on costal margin retraction.
H		1	Non-Slip Balfour L 77mm x 94mm (3" x 3 3/4")	SO46168C	Aligns with anatomy, reducing slippage on costal margin retraction.
		1	Malleable Finger 152mm (6")	SL46191	Gentle organ retraction.
		1	Splanchnich 51mm x 152mm (2" x 6")	SL46146	Soft tissue retraction.
		2	Instrument Case 22" x 11" x 3 1/2" w/Pin Mat	50000G	Allows for sterilization, storage, and transportation of instruments.
		1	Instrument Case 26" x 10" x 5"	50000BL	

## Lithotomy Colon / Rectal



## Prone Jack Knife Colon / Rectal

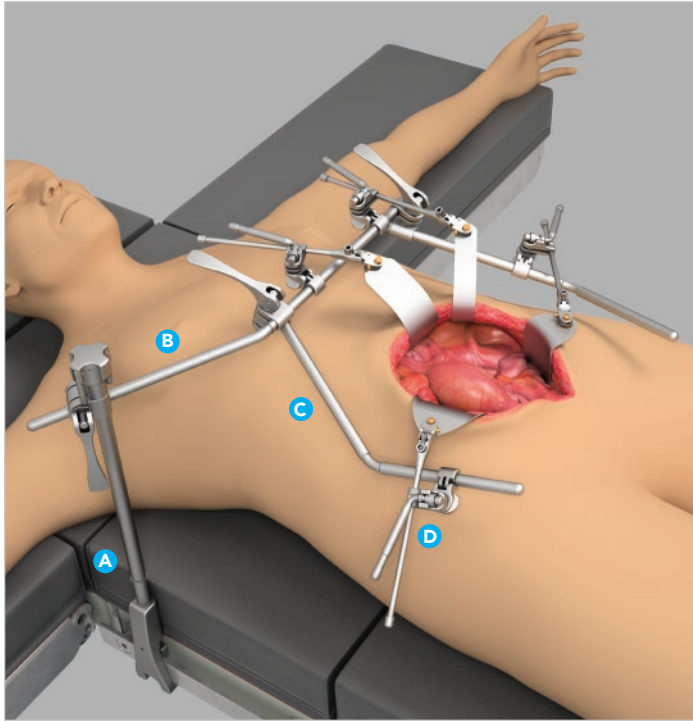


COLON / RECTAL SYSTEM #SL82002

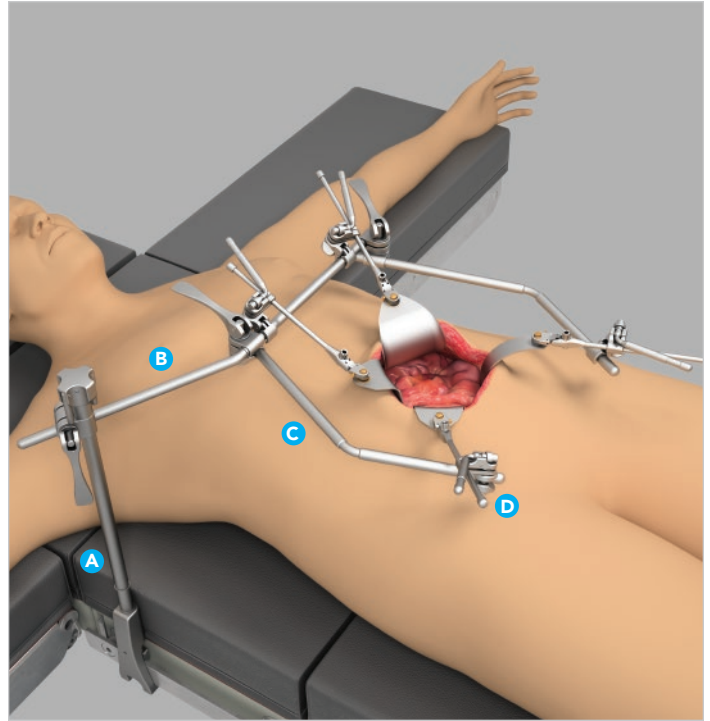
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite III Rail Clamp with 1 Cam Joint 18"	43902AC	Attaches to the rail of the OR table and holds the crossbar in position.
B		1	Crossbar with 2 Cam Joints 24" (11" x 13")	43900BC	Attaches to the rail clamp and holds the angled arms in place around the incision. May also support retractor handles.
C		2	18" Angled Arm (8" x 10") @ 45°	44118N	Attaches to the crossbar and holds the retractor handles in place around the incision.
		2	24" Angled Arm (8" x 16") @ 45°	44124N	Attaches to the crossbar and holds the retractor handles in place around the incision.
		1	Angled Closure Arm 18" (9" x 9")	44118B	Attaches to the angled arms, enclosing the frame around the incision.
D		3	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		2	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		2	Fenestrated 44mm x 89mm (1 3/4" x 3 1/2")	SL46143	Abdominal or incisional wall retraction.
		2	Deaver 25mm x 127mm (1" x 5")	SL46170	Soft tissue retraction.
E		2	Rectal Blade 13mm x 117mm (1/2" x 4 1/2")	SL46187	Soft tissue retraction to expose bowel.
		1	St. Marks [no lip] 64mm x 178mm (2 1/2" x 7")	SO46187A	Soft tissue retraction.
		1	St. Marks [with lip] 64mm x 178mm (2 1/2" x 7")	SO46188	
		1	St. Marks [with lip] 64mm x 140mm (2 1/2" x 5 1/2")	SO46189	
		1	Hill-Ferguson 32mm x 76mm (1 1/4" x 3")	SL46185	Exposure for hemorrhoid surgery.
		1	Hill-Ferguson 25mm x 64mm (1" x 2 1/2")	SL46186	
		2	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.

## Abdominal Vascular


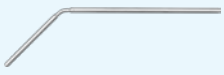





## General Abdominal
















### GENERAL / VASCULAR SYSTEM #SL82003

Non S-Lock system also available, may require a longer lead time.

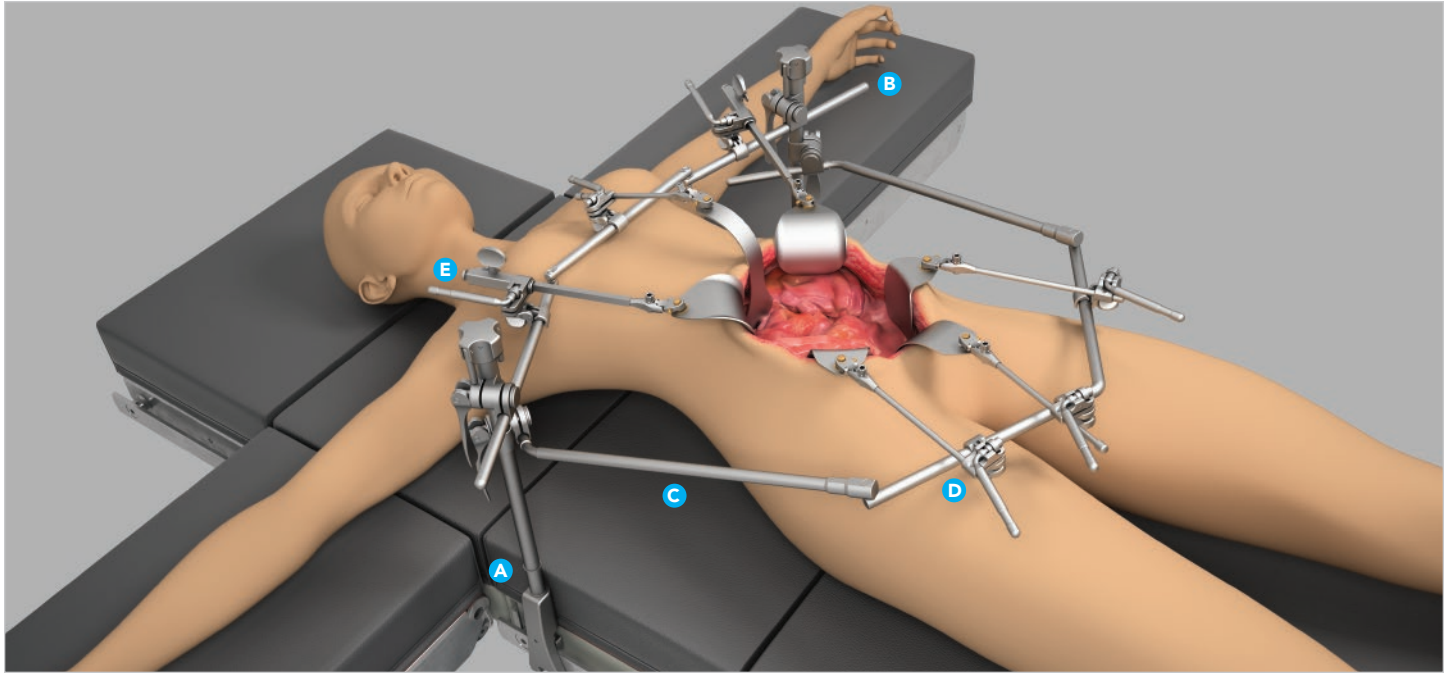
REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite III Rail Clamp with 1 Cam Joint 18"	43902AC	Attaches to the rail of the OR table and holds the crossbar in position.
B		1	Crossbar with 2 Cam Joints 24" (11" x 13")	43900BC	Attaches to the rail clamp and holds the angled arms in place around the incision. May also support retractor handles.
C		2	Angled Arm 20" (10" x 10") @ 45°	44120	Attaches to the crossbar and holds the retractor handles in place around the incision.
		2	Angled Arm 24" (8" x 16") @ 45°	44124N	Attaches to the crossbar and holds the retractor handles in place around the incision.
D		5	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		1	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.



GENERAL / VASCULAR SYSTEM #SL82003 (Continued)









REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		2	Malleable 51mm x 203mm (2" x 8")	SL46122	Soft tissue retraction.
		1	Malleable 64mm x 254mm (2 1/2" x 10")	SL46124	Soft tissue retraction.
		2	Kelly 64mm x 76mm (2 1/2" x 3")	SO46129	Abdominal or incisional wall retraction.
		1	Kelly 76mm x 89mm (3" x 3 1/2")	SO46130	Abdominal or incisional wall retraction.
		1	Fence 102mm x 152mm (4" x 6")	SO46136	Lateral retraction of abdominal wall on large procedures.
		2	Balfour [small lips] 70mm x 73mm (2 3/4" x 3")	SO46140C	Costal margin or abdominal wall retraction.
		1	Richardson 51mm x 127mm (2" x 5")	SO46151	Abdominal wall retraction.
		1	Harrington 64mm x 152mm (2 1/2" x 6")	SL46160	Organ or soft tissue retraction.
		1	Deaver 51mm x 127mm (2" x 5")	SL46174	Soft tissue retraction.
		2	Fenestrated 44mm x 89mm (1 3/4" x 3 1/2")	SL46143	Abdominal or incisional wall retraction.
		2	Fenestrated 48mm x 127mm (1 7/8" x 5")	SL46144	Abdominal or incisional wall retraction.
		2	Concave Renal Vein 25mm x 191mm (1" x 7 1/2")	SL46119C	Renal vein or vessel retraction.
		2	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.

# Bilateral GYN Oncology



## GYN ONCOLOGY SYSTEM #SL82011

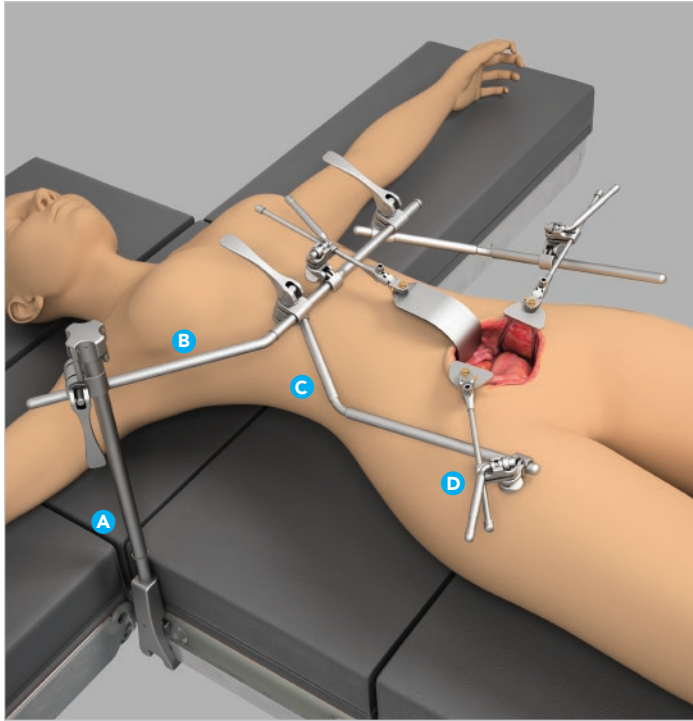
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	Elite III Rail Clamp with 2 Cam Joints 18"	43903AC	Attaches to the rail of the OR table and holds the crossbar and angled arms or Lower Abdominal Bar in position.
B		1	34" Bilateral Crossbar Hinged (11 1/2" x 8 1/2" x 11 1/2")	41900PH	Attaches to the rail clamps to provide bilateral stability, and holds the retractor handles in place around the incision.
		1	Bilateral Crossbar 7 1/4" x 13 1/2" x 7 1/4"	41900F	Attaches to the rail clamps to provide bilateral stability, and holds the retractor handles in place around the incision.
		1	Crossbar with 2 Cam Joints 24"	43900BC	Attaches to the rail clamp and holds the angled arms in place around the incision. May also support retractor handles.
		2	24" Angled Arm (11" x 13") @ 45°	44124W	Attaches to the crossbar and holds the retractor handles in place around the incision.
		2	18" Angled Arm (8" x 10") @ 45°	44118N	Attaches to the crossbar and holds the retractor handles in place around the incision.
C		1	Lower Abdominal Bar 14" x 6"	44112SP	Attaches to the rail clamps to fully enclose the frame and holds the retractor handles in place around the incision.
D		6	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.

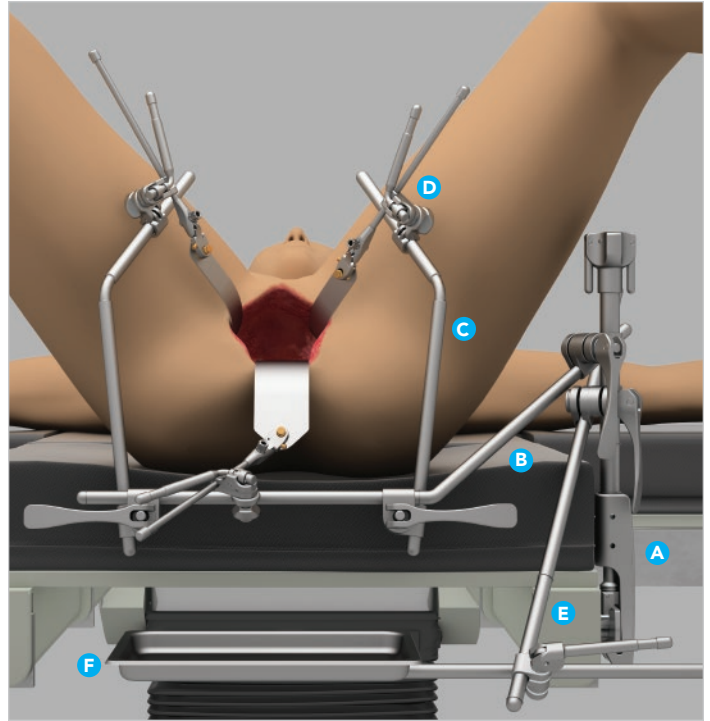
**GYN ONCOLOGY SYSTEM #SL82011 (Continued)**

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
E		2	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	Micro-Adjustable II Clip-on Quick Angle 15"	SL45006CGRP	
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		1	Wide Balfour [no lips] 83mm x 57mm (3 1/4" x 2 1/4")	SO46241A	Costal margin or abdominal wall retraction.
		1	Wide Balfour [no lips] 100mm x 61mm (4" x 2 3/8")	SO46241B	
		1	Wide Balfour [no lips] 114mm x 63mm (4 1/2" x 2 1/2")	SO46241C	
		1	Balfour [small lips] 70mm x 73mm (2 3/4" x 3")	SO46140C	Costal margin or abdominal wall retraction.
		2	Balfour [with lips] 83mm x 123mm (3 1/4" x 5")	SO46141D	
		2	Balfour [small lips] 83mm x 73mm (3 1/4" x 3")	SO46141C	
		1	Deaver 51mm x 127mm (2" x 5")	SL46174	Soft tissue retraction.
		1	Harrington 64mm x 152mm (2 1/2" x 6")	SL46160	Organ or soft tissue retraction.
		1	Kelly 64mm x 76mm (2 1/2" x 3")	SO46129	Abdominal or incisional wall retraction.
		2	Kelly 89mm x 76mm (3 1/2" x 3")	SO46130	
		2	Richardson 51mm x 127mm (2" x 5")	SO46151	Abdominal wall retraction.
		1	Richardson 57mm x 178mm (2" x 7")	SO46153	
		1	Malleable 13mm x 64mm (1/2" x 2 1/2")	SL46115	Soft tissue retraction.
		1	Malleable 13mm x 152mm (1/2" x 6")	SL46116	
		2	Malleable 13mm x 203mm (1/2" x 8")	SL46117	
		1	Soft Malleable 25mm x 102mm (1" x 4")	SL46118P	
		1	Malleable 25mm x 203mm (1" x 8")	SL46118	
		1	Malleable 51mm x 203mm (2" x 8")	SL46122	
		2	Malleable 64mm x 254mm (2 1/2" x 10")	SL46124	
		1	Malleable 76mm x 254mm (3" x 10")	SO46124A	
		1	Malleable 102mm x 254mm (4" x 10")	SO46124B	
		2	Malleable Finger 152mm (6")	SL46191	Gentle organ retraction.
		1	St. Mark's 64mm x 178mm (2 1/2" x 7")	SO46188	Soft tissue retraction.
		2	Instrument Case with Pin Mat (22" x 11" x 3 1/2")	50000G	Allows for sterilization, storage, and transportation of instruments.
		1	Instrument Case (26" x 10" x 5")	50000BL	

## Abdominal Hysterectomy



## Vaginal Hysterectomy














### GYN SYSTEM #SL82010

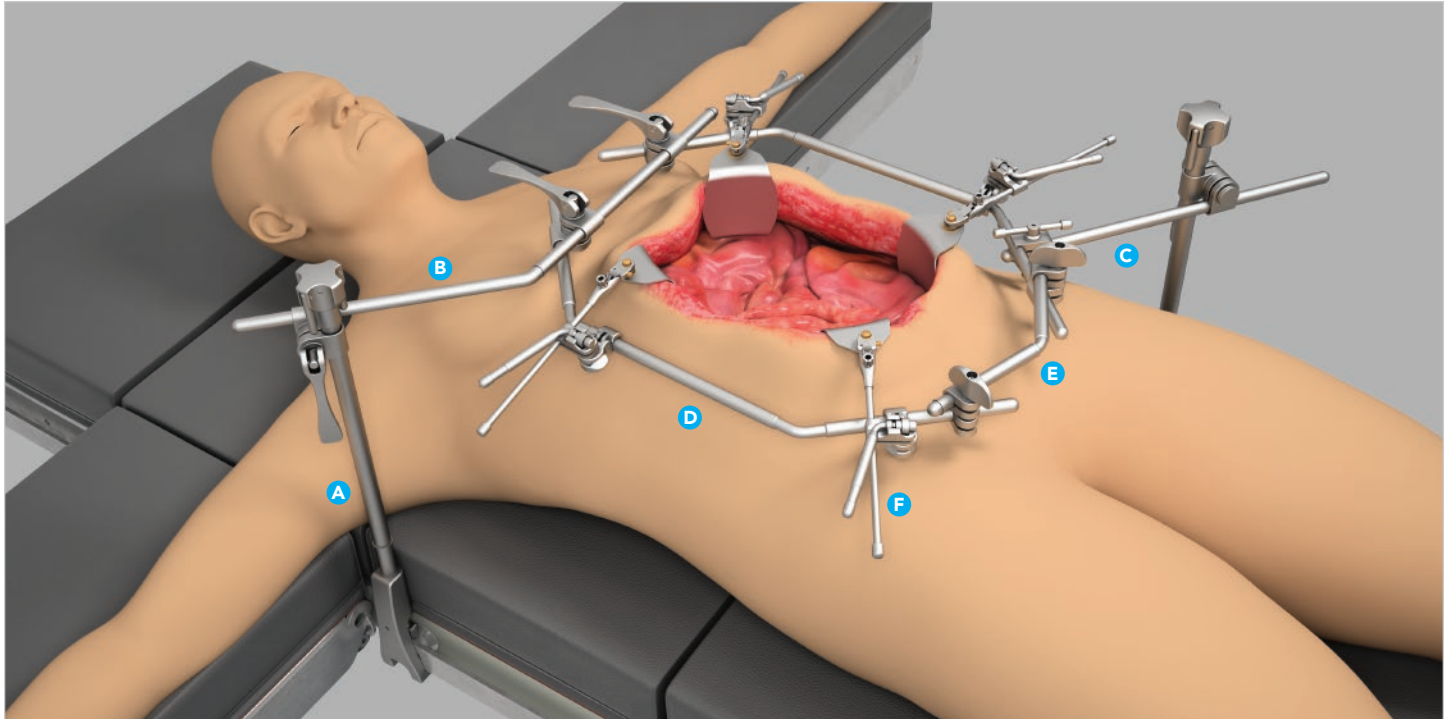
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite III Rail Clamp with 2 Cam Joints 18"	43903AC	Attaches to the rail of the OR table and holds the crossbar and optional extension arm in position.
B		1	Crossbar with 2 Cam III Joints 24"	43900BC	Attaches to the rail clamp and holds the angled arms in place around the incision. May also support retractor handles.
		2	24" Angled Arm (11" x 13") @ 45°	44124W	Attaches to the crossbar and holds the retractor handles in place around the incision.
C		2	18" Angled Arm (8" x 10") @ 45°	44118N	Attaches to the crossbar and holds the retractor handles in place around the incision.
D		3	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		2	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.

GYN SYSTEM #SL82010 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		1	Rail Extender 15" Single Clamp	5844	Attaches to OR table rail to increase rail length or width and provide more attachment options for the rail clamps.
E		1	Straight Arm 18" with 1 Cam Joint	44118C	Attaches to the rail clamp and holds Hysterectomy Tray in place.
F		1	Hysterectomy Tray	41933	Attaches to the straight arm and holds surgical instruments.
		1	Deaver 51mm x 127mm (2" x 5")	SL46174	Soft tissue retraction.
		1	Heany 25mm x 102mm (1" x 4")	SL46180	Abdominal or incisional wall retraction.
		2	Double Angled 13mm x 70mm (1/2" x 2 3/4")	SL46663	Soft tissue retraction.
		2	Double Angled 25mm x 76mm (1" x 3")	SL46660	
		2	Malleable 25mm x 254mm (1" x 10")	SL46118A	Soft tissue retraction.
		2	Malleable 25mm x 102mm (1" x 4")	SL46118P	
		2	Malleable 25mm x 203mm (1" x 8")	SL46118	
		2	Malleable 51mm x 203mm (2" x 8")	SL46122	
		1	Harrington 64mm x 152mm (2 1/2" x 6")	SL46160	Organ or soft tissue retraction.
		1	Fence 102mm x 127mm (4" x 5")	SO46135	Lateral retraction of abdominal wall on large procedures.
		1	Richardson 51mm x 102mm (2" x 4")	SL46150	Abdominal wall retraction.
		2	Fenestrated 44mm x 89mm (1 3/4" x 3 1/2")	SL46143	Abdominal or incisional wall retraction.
		2	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.

# HIPEC















## HIPEC SYSTEM #SL82004

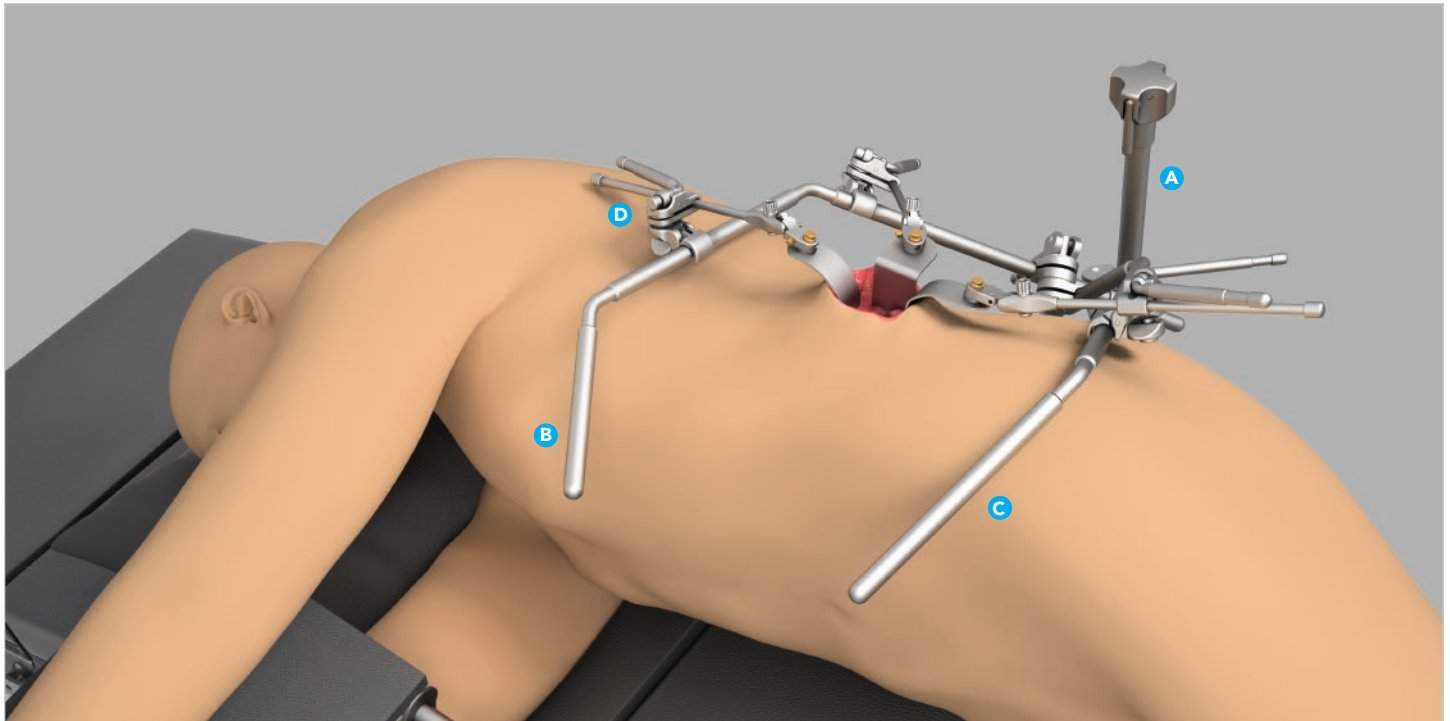
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	Elite III Rail Clamp with 1 Cam Joint 18"	43902AC	Attaches to the rail of the OR table and holds the crossbar and extension arm in position.
B		1	Crossbar with 2 Cam Joints 24" (11" x 13")	43900BC	Attaches to the rail clamp and holds the angled arms in place around the incision. May also support retractor handles.
C		1	Extension Arm 14" with Clip Joint	44014C	Attaches to the rail clamp and provides bilateral stability to the lower abdominal bar components in HIPEC procedures.
D		2	Double Angled Arm 22"	44122DB	Attaches to the crossbar and Angled Closure Arm to enclose the frame and holds the retractor handles in place around the incision.
E		1	Angled Closure Arm 13" (6 1/2" x 6 1/2")	44113B	Attaches to the Double Angled Arms, enclosing the frame around the incision.
		1	Angled Closure Arm 18" (9" x 9")	44118B	Attaches to the Double Angled Arms, enclosing the frame around the incision.

HIPEC SYSTEM #SL82004 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		1	Lower Abdominal Bar 14" x 6"	44112SP	Attaches to the rail clamps and holds the retractor handles in place around the incision.
F		6	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		2	Cam II Clip-on Quick Angle 10"	SL42126WGLP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		2	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		6	Kelly 64mm x 76mm (2 1/2" x 3")	SO46129	Abdominal or incisional wall retraction.
		2	Deaver 51mm x 127mm (2" x 5")	SL46174	Soft tissue retraction.
		1	Malleable Finger 152mm (6")	SL46191	Gentle organ retraction.
		1	St Marks [with lip] 64mm x 178mm (2 1/2" x 7")	SO46188	Soft tissue retraction.
		1	Non-Slip Balfour R 77mm x 66mm (3" x 2 1/2")	SO46169B	Aligns with anatomy, reducing slippage on costal margin retraction.
		1	Non-Slip Balfour L 77mm x 66mm (3" x 2 1/2")	SO46168B	Aligns with anatomy, reducing slippage on costal margin retraction.
		2	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.

# Kidney Transplant




## KIDNEY SYSTEM #SL82005

Non S-Lock system also available, may require a longer lead time.

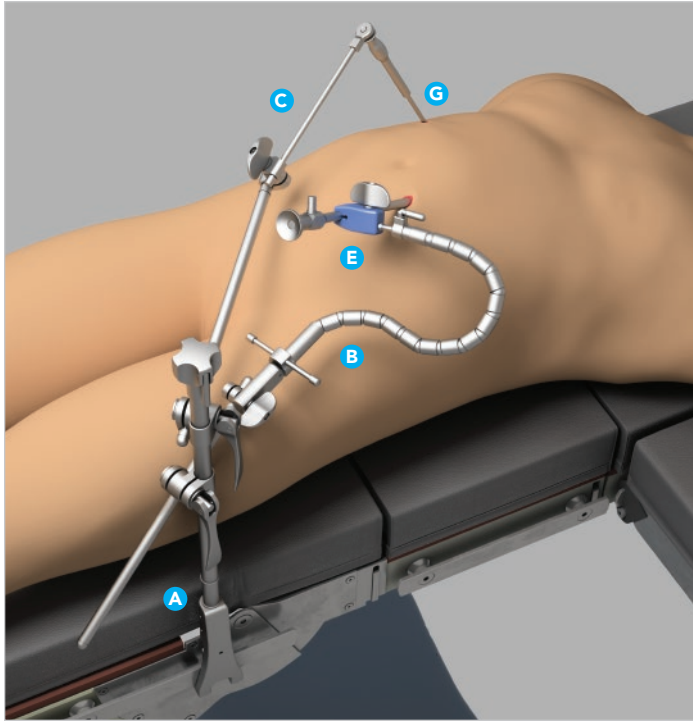
REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite III Rail Clamp with 1 Cam Joint 18"	43902AC	Attaches to the rail of the OR table and holds the crossbar in position.
B		1	Crossbar with 1 Cam Joint Mini-Incision	43800	Attaches to the rail clamp, holds the extension arm in place around the incision, and supports retractor handles.
C		1	Extension Arm 7 1/2" x 8 1/2" x 7 1/2"	44200	Attaches to the crossbar and holds the retractor handles in place around the incision.
D		4	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		1	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		1	Richardson 51mm x 76mm (2" x 3")	SL46154	Abdominal wall retraction.



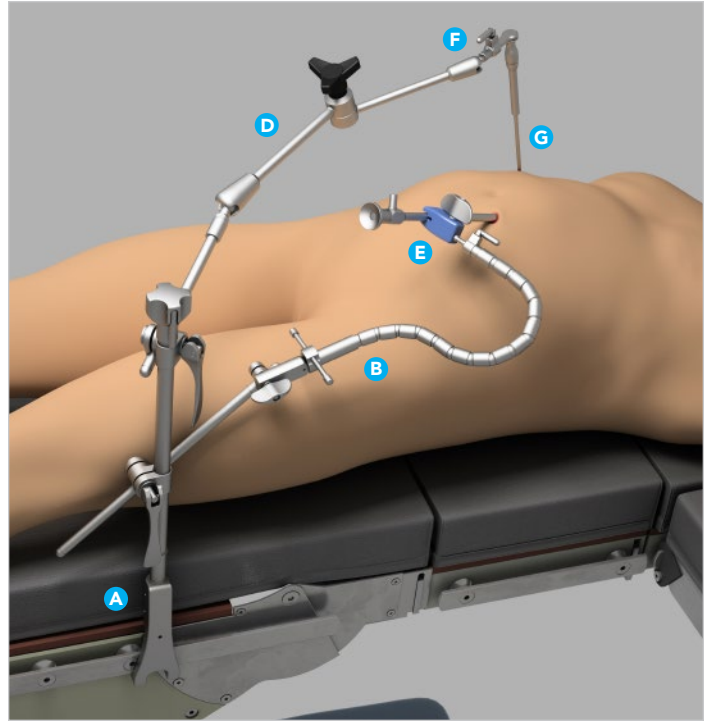
KIDNEY SYSTEM #SL82005 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		1	Malleable 25mm x 203mm (1" x 8")	SL46118	Soft tissue retraction.
		1	Malleable 25mm x 254mm (1" x 10")	SL46118A	Soft tissue retraction.
		1	Malleable 38mm x 254mm (1 1/2" x 10")	SL46118B	
		1	Malleable 38mm x 203mm (1 1/2" x 8")	SL46123	
		1	Concave Renal Vein 25mm x 140mm (1" x 5 1/2")	SL46119B	Renal vein or vessel retraction.
		1	Concave Renal Vein 25mm x 191mm (1" x 7 1/2")	SL46119C	
		1	Balfour 76mm x 51mm (3" x 2")	SL46140P	Costal margin or abdominal wall retraction.
		1	Balfour 51mm x 54mm (2" x 2")	SL46142P	
		1	Mini Open Richardson 51mm x 76mm	SL46155	Muscle retraction for exposures with small or mini-incision.
		1	Mini Open Richardson 51mm x 102mm	SL46156	
		1	Mini Open Richardson 51mm x 127mm	SL46157	
		1	Mini Open Richardson 51mm x 152mm	SL46158	
		1	Harrington 64mm x 152mm (2 1/2" x 6")	SL46160	Organ or soft tissue retraction.
		1	Harrington 64mm x 102mm (2 1/2" x 4")	SL46165	
		1	Mini-Open Malleable 25mm x 75mm (1" x 3")	SL46220	Soft tissue retraction for exposures with small or mini-incision.
		1	Mini-Open Malleable 5mm x 100mm (1" x 4")	SL46221	
		1	Mini-Open Malleable 25mm x 125mm (1" x 5")	SL46222	
		1	Mini-Open Double Angled 51mm x 127mm (2" x 5")	SL46224	Muscle retraction for exposures with small or mini-incision.
		1	Mini-Open Double Angled 51mm x 152mm (2" x 6")	SL46225	
		1	Mini-Open Double Angled 51mm x 165mm (2" x 6 1/2")	SL46226	
		1	Mini Open Deep Double Angled 51mm x 127mm (2" x 5")	SL46227	Muscle retraction for exposures with small or mini-incision.
		1	Instrument Case 26" x 10" x 5"	50000BL	Allows for sterilization, storage, and transportation of instruments.





## Elite Rigid Holder + Flexible Holder



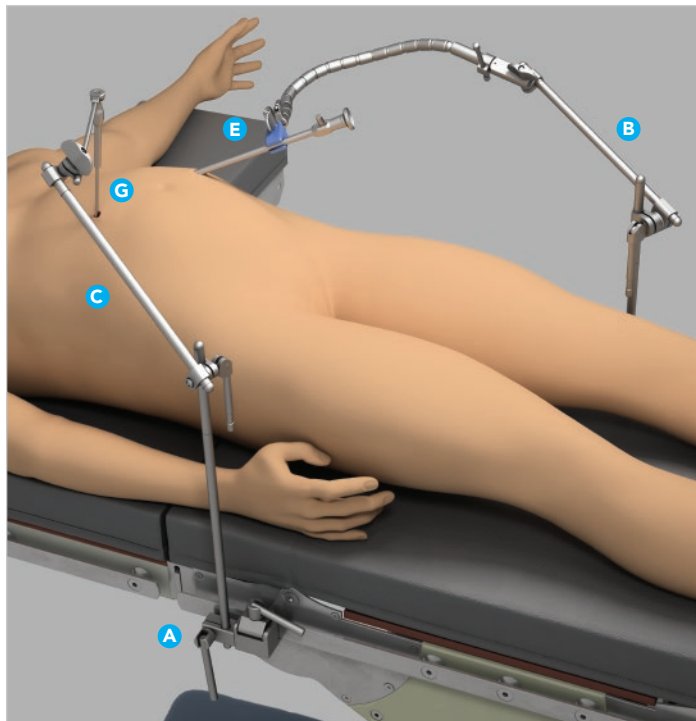
## Elite Articulating Arm + Flexible Holder



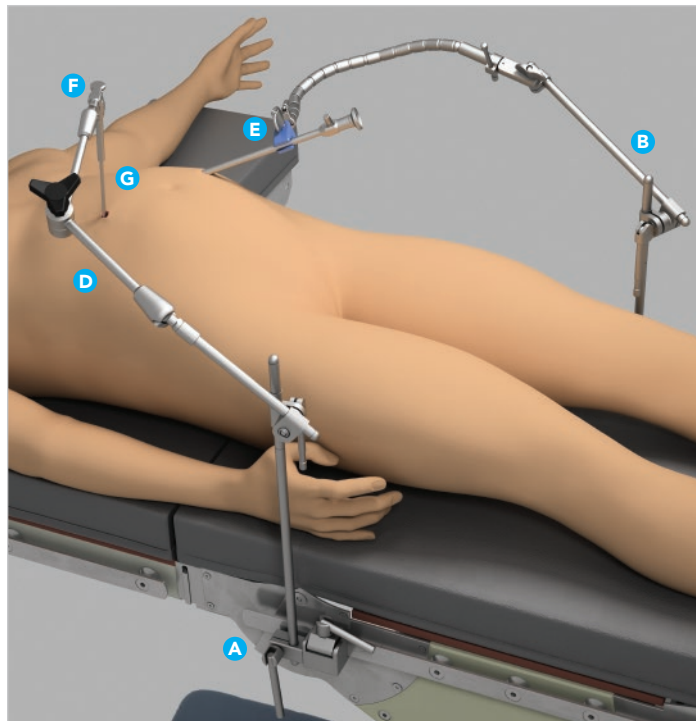
### LAPAROSCOPIC PRODUCTS FOR ELITE RAIL CLAMP

REF	IMAGE	ITEM DESCRIPTION	PART #	APPLICATION
A		Elite III Rail Clamp with 2 Cam Joints 18"	43903AC	Attaches to the rail of the OR table and holds the laparoscopic holding arm(s) in position.
B		Flexible Laparoscopic Holder for Elite ( or IHRC )	42133DEN	Unlimited range of motion and positioning with adjustable tension from flexible to rigid.
C		S-Lock Rigid Laparoscopic Holder for Elite	SL42139E	Precise, rigid positioning for instruments requiring few adjustments or holding excess weight. Additional rigid holder options available.
D		Laparoscopic Articulating Arm for Elite ( or IHRC )	42138LE	Holds firmly with a wide range of motion.
E		Adjustable Scope Grip 5 - 11mm	33181	Holds scope firmly while protecting shaft. Fits scopes 5 - 11mm.
F		S-Lock Nathanson Adapter ( required for S-Lock Nathanson Hook use )	SL42161	Allows quick, easy attachment of S-Lock Nathanson Hooks to laparoscopic holder universal end.
G		S-Lock Nathanson Hook Medium 5mm (203mm x 167mm x 16mm)	SL42201	Organ retraction.

## PRC Rigid Holder + Flexible Holder



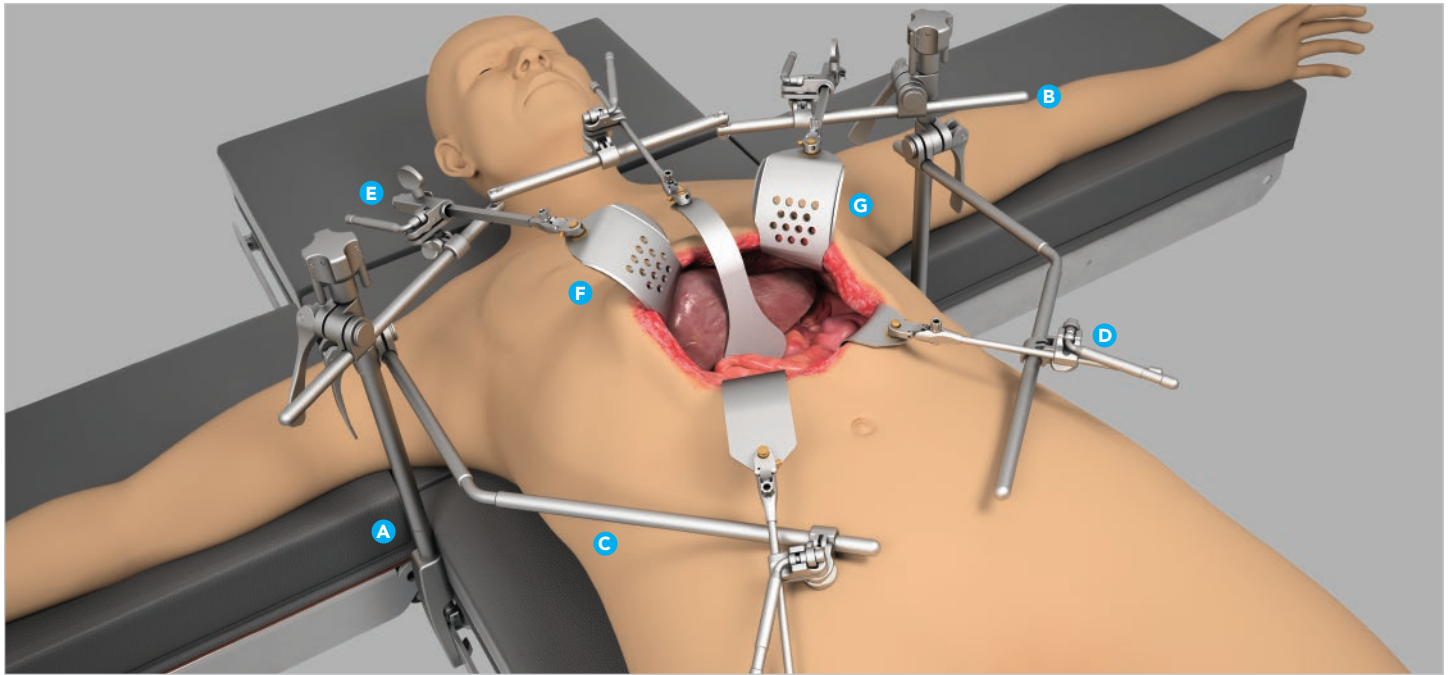
## PRC Articulating Arm + Flexible Holder



### LAPAROSCOPIC PRODUCTS FOR POWER RAIL CLAMP

REF	IMAGE	ITEM DESCRIPTION	PART #	APPLICATION
A		Power Rail Clamp ( PRC )	41950	Attaches to the rail of the OR table and holds the laparoscopic holding arm(s) in position.
B		Flexible Laparoscopic Holder for Power Rail Clamp	42133DN	Unlimited range of motion and positioning with adjustable tension from flexible to rigid.
C		S-Lock Rigid Laparoscopic Holder for PRC	SL42139N	Precise, rigid positioning for instruments requiring few adjustments or holding excess weight. Additional rigid holder options available.
D		Laparoscopic Articulating Arm for Power Rail Clamp	42138L	Holds firmly with a wide range of motion.
E		Adjustable Scope Grip 5 - 11mm	33181	Holds scope firmly while protecting shaft. Fits scopes 5 - 11mm.
F		S-Lock Nathanson Adapter ( required for S-Lock Nathanson Hook use )	SL42161	Allows quick, easy attachment of S-Lock Nathanson Hooks to laparoscopic holder universal end.
G		S-Lock Nathanson Hook Medium 5mm (203mm x 167mm x 16mm)	SL42201	Organ retraction.

## Liver / Oncology / HPB















### LIVER / ONCOLOGY SYSTEM #SL82007

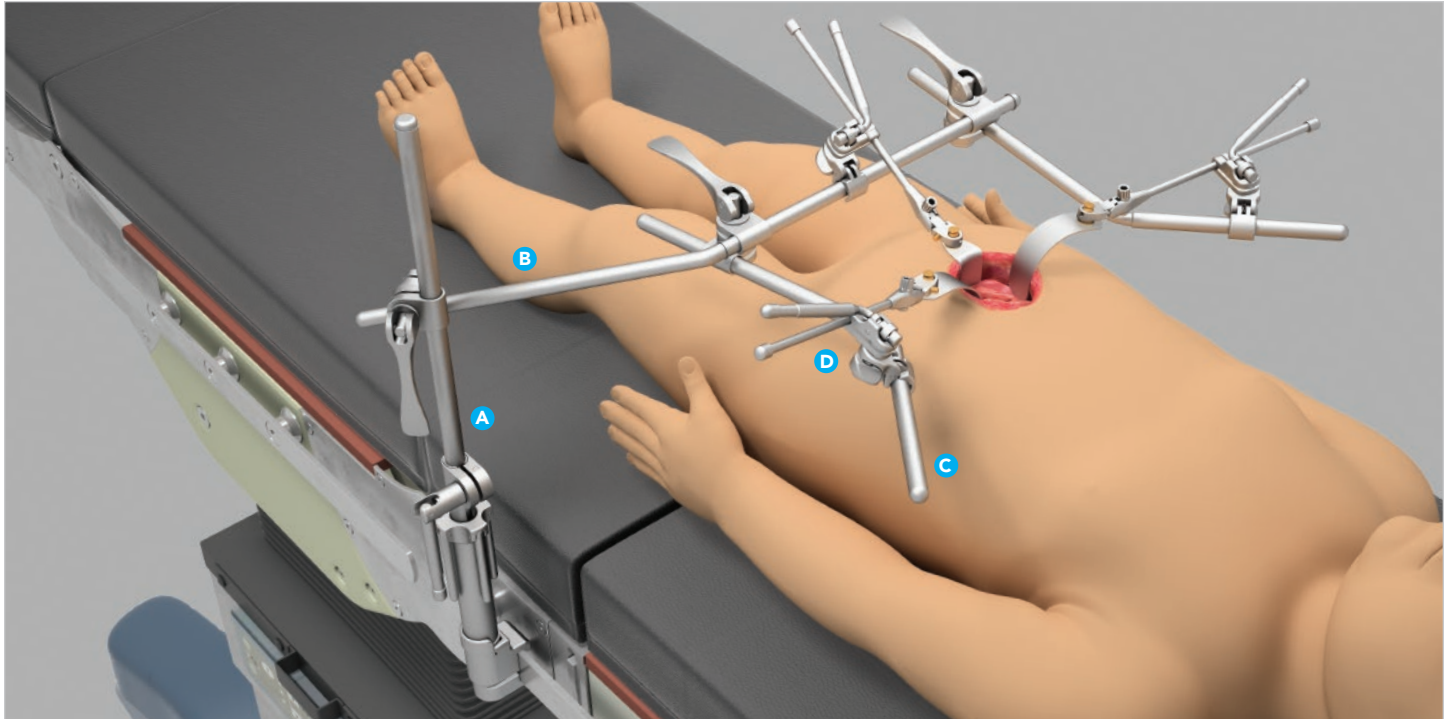
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	Elite III Rail Clamp with 2 Cam Joints 18"	43903AC	Attaches to the rail of the OR table and holds the crossbar and angled arms or Lower Abdominal Bar in position.
B		1	34" Bilateral Crossbar Hinged 11 1/2" x 8 1/2" x 11 1/2"	41900PH	Attaches to the rail clamps to provide bilateral stability, and holds the retractor handles in place around the incision.
		1	18" Angled Arm (8" x 10") @ 45°	44118N	Attaches to the rail clamps and holds the retractor handles in place around the incision.
C		2	24" Angled Arm (11" x 13") @ 45°	44124W	Attaches to the rail clamps and holds the retractor handles in place around the incision.
		1	Lower Abdominal Bar 20" (14" x 6")	44112SP	Attaches to the rail clamps and holds the retractor handles in place around the incision.
		2	Cam Joint Serrated 1/2" x 1/2"	43112C	Connects angled arms together to allow for expansion of frame.
D		6	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		2	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.

LIVER / ONCOLOGY SYSTEM #SL82007 (Continued)







REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
E		2	Micro-Adjustable II Clip-on Quick Angle 15"	SL45006CGRP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		1	Malleable 51mm x 203mm (2" x 8")	SL46122	Soft tissue retraction.
		2	Malleable 64mm x 254mm (2 1/2" x 10")	SL46124	
		1	Malleable 76mm x 254mm (3" x 10")	SO46124A	
		1	Malleable 102mm x 254mm (4" x 10")	SO46124B	
		1	Kelly 38mm x 51mm (1 1/2" x 2")	SL46127	Abdominal or incisional wall retraction.
		1	Kelly 51mm x 64mm (2" x 2 1/2")	SL46128	
		1	Kelly 64mm x 76mm (2 1/2" x 3")	SO46129	
		1	Kelly 76mm x 89mm (3" x 3 1/2")	SO46130	
		1	Balfour [small lips] 70mm x 73mm (2 3/4" x 3")	SO46140C	
		2	Balfour [small lips] 83mm x 73mm (3 1/4" x 3")	SO46141C	
		2	Balfour [with lips] 32mm x 32mm (1 1/4" x 1 1/4")	SL46142	Costal margin or abdominal wall retraction.
		2	Balfour [with lips] 83mm x 123mm (3 1/4" x 5")	SO46141D	
		1	Wide Balfour 83mm x 57mm (3 1/4" x 2 1/4")	SO46241A	
		1	Wide Balfour 100mm x 61mm (4" x 2 3/8")	SO46241B	
		1	Wide Balfour 114mm x 63mm (4 1/2" x 2 1/2")	SO46241C	
F		1	Non-Slip Balfour R 77mm x 66mm	SO46169B	Aligns with anatomy, reducing slippage on costal margin retraction.
G		1	Non-Slip Balfour L 77mm x 66mm	SO46168B	
		1	Richardson 51mm x 127mm (2" x 5")	SO46151	Abdominal wall retraction.
		1	Richardson 51mm x 178mm (2" x 7")	SO46153	
		1	Harrington 64mm x 152mm (2 1/2" x 6")	SL46160	Organ or soft tissue retraction.
		1	St Marks 64mm x 178mm (2 1/2" x 7")	SO46188	Soft tissue retraction.
		1	Malleable Finger 6"	SL46191	Gentle organ retraction.
		2	Instrument Case 22" x 11" x 3 1/2" w/Pin Mat	50000G	Allows for sterilization, storage, and transportation of instruments.
		1	Instrument Case 26" x 10" x 5"	50000BL	

# Pediatric Abdominal



## PEDIATRIC SYSTEM #SL82006

Non S-Lock system also available, may require a longer lead time.

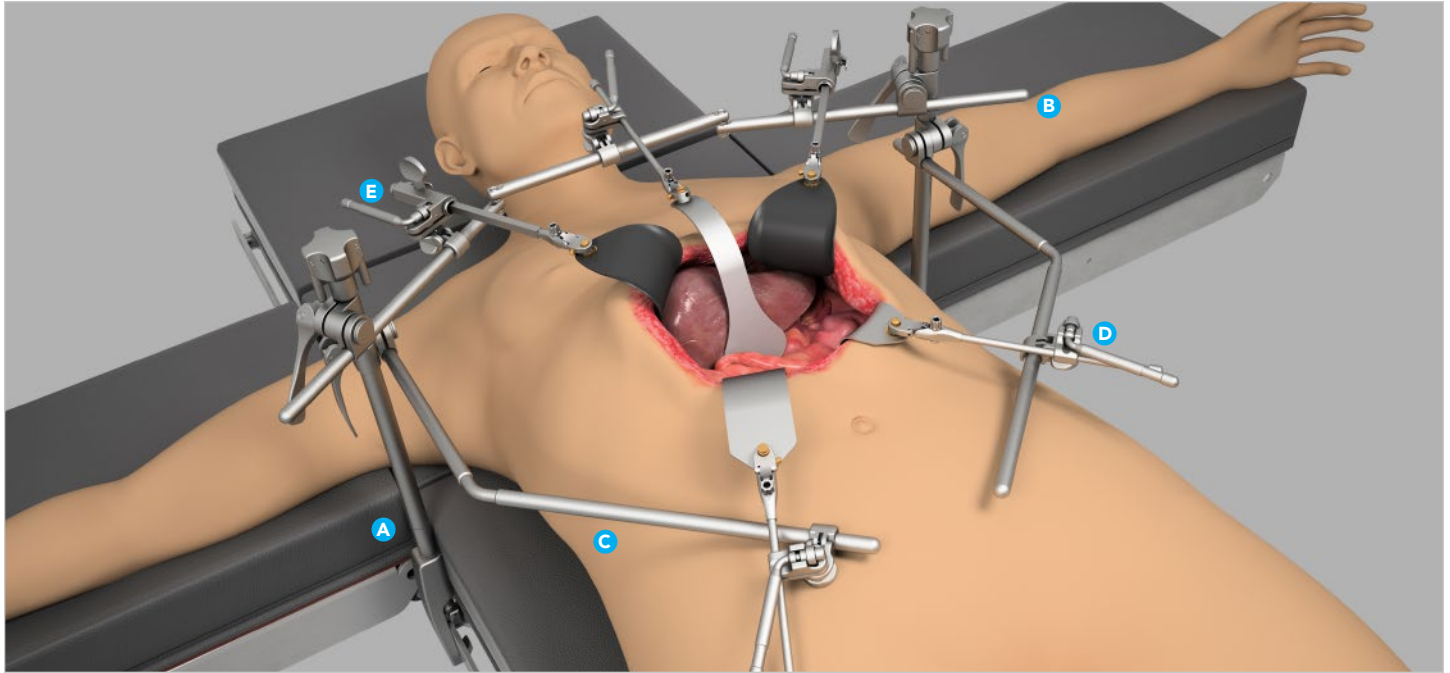
REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Infinite Height Rail Clamp w/1 Cam III Joint	43902IRC	Attaches to the rail of the OR table and holds the crossbar in position. Adjusts to any height between 13" - 22".
B		1	Crossbar with 2 Cam Joints 24" (11" x 13")	43900BC	Attaches to the rail clamp and holds the angled arms in place around the incision. May also support retractor handles.
C		2	Angled Arm 20" (10" x 10") @ 45°	44120	Attaches to the crossbar and holds the retractor handles in place around the incision.
		2	Angled Arm 12" (6" x 6")	44014S	Attaches to the crossbar and holds the retractor handles in place around the incision.
D		5	Cam II Clip-on Quick Angle 8" *	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		1	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.

PEDIATRIC SYSTEM #SL82006 (Continued)


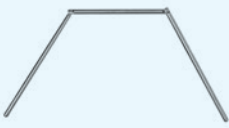

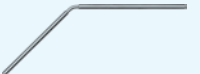
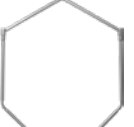



REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		2	Malleable 13mm x 64mm (1/2" x 2 1/2")	SL46115	Soft tissue retraction.
		2	Malleable 13mm x 152mm (1/2" x 6")	SL46116	
		2	Malleable 13mm x 203mm (1/2" x 8")	SL46117	
		2	Soft Malleable 25mm x 102mm (1" x 4")	SL46118P	
		2	Malleable 51mm x 102mm (2" x 4")	SL46122P	
		1	Malleable Finger 76mm (3")	SL46191SP	Gentle organ retraction.
		1	Malleable Finger 102mm (4")	SL46191P	
		1	Kelly 38mm x 51mm (1 1/2" x 2")	SL46127	Abdominal or incisional wall retraction.
		1	Kelly 51mm x 64mm (2" x 2 1/2")	SL46128	
		1	Mini-Richardson 19mm x 25mm (3/4" x 1")	SL46125	Muscle retraction for exposure with small or mini-incision.
		1	Mini-Richardson 19mm x 50mm (3/4" x 2")	SL46125A	
		1	Mini-Richardson 25mm x 32mm (1" x 1 1/4")	SL46126	
		1	Balfour 76mm x 51mm (3" x 2")	SL46140P	Costal margin or abdominal wall retraction.
		2	Balfour 32mm x 32mm (1 1/4" x 1 1/4")	SL46142	
		1	Balfour 51mm x 54mm (2" x 2")	SL46142P	
		1	Richardson 51mm x 102mm (2" x 4")	SL46150	Abdominal wall retraction.
		1	Harrington 38mm x 127mm (1 1/2" x 5")	SL46162P	Organ or soft tissue retraction.
		1	Deaver 25mm x 127mm (1" x 5")	SL46170	Soft tissue retraction.
		2	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.

\* For infants: Screw Down Joints (#42125N) and Quick Angle Handles (#SL45003GS) recommended.

# Radiolucent Liver / Oncology / HPB



## RADIOLUCENT LIVER / ONCOLOGY SYSTEM #SL82008

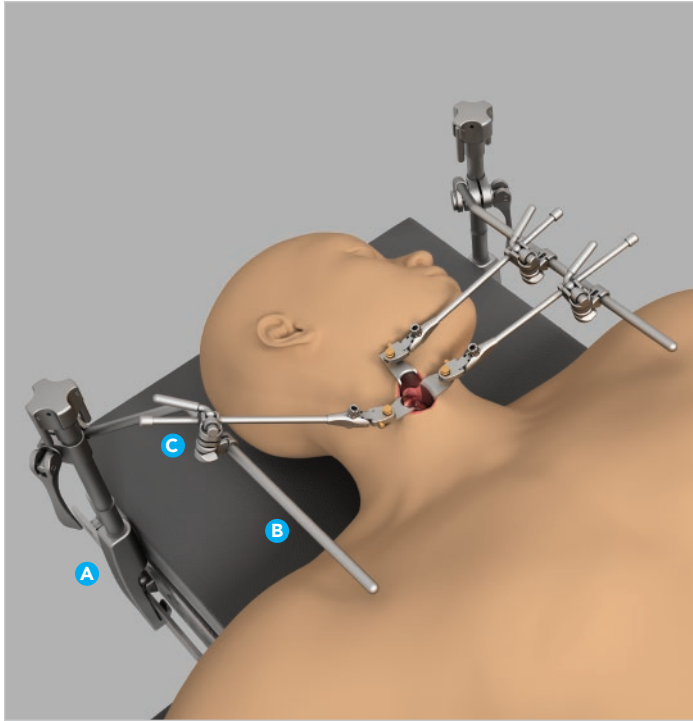
REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	Elite III Rail Clamp with 2 Cam Joints 18"	43903AC	Attaches to the rail of the OR table and holds the crossbar and angled arms or Lower Abdominal Bar in position.
B		1	34" Bilateral Crossbar Hinged 11 1/2" x 8 1/2" x 11 1/2"	41900PH	Attaches to the rail clamps to provide bilateral stability, and holds the retractor handles in place around the incision.
		1	18" Angled Arm (8" x 10") @ 45°	44118N	Attaches to the rail clamps and holds the retractor handles in place around the incision.
C		2	24" Angled Arm (11" x 13") @ 45°	44124W	Attaches to the rail clamps and holds the retractor handles in place around the incision.
		1	Lower Abdominal Bar 20" (14" x 6")	44112SP	Attaches to the rail clamps and holds the retractor handles in place around the incision.
		2	Cam Joint Serrated 1/2" x 1/2"	43112C	Connects angled arms together to allow for expansion of frame.
D		6	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		2	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.



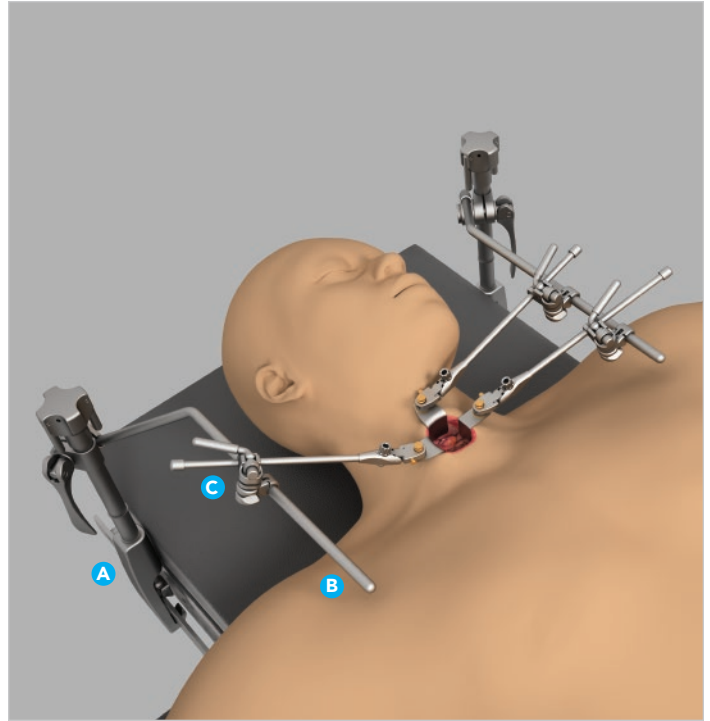
RADIOLUCENT LIVER / ONCOLOGY SYSTEM #SL82008 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
E		2	Micro-Adjustable II Clip-on Quick Angle 15"	SL45006CGRP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		1	Radiolucent Malleable 51mm x 203mm (2" x 8")	SL46122ET	Soft tissue retraction.
		2	Radiolucent Malleable 64mm x 254mm (2 1/2" x 10")	SL46124ET	
		1	Radiolucent Malleable 76mm x 254mm (3" x 10")	SO46124AET	
		1	Radiolucent Malleable 102mm x 254mm (4" x 10")	SO46124BET	
		1	Radiolucent Kelly 38mm x 51mm (1 1/2" x 2")	SL46127ET	Abdominal or incisional wall retraction.
		1	Radiolucent Kelly 51mm x 64mm (2" x 2 1/2")	SL46128ET	
		1	Radiolucent Kelly 64mm x 76mm (2 1/2" x 3")	SO46129ET	
		1	Radiolucent Kelly 76mm x 89mm (3" x 3 1/2")	SO46130ET	
		1	Radio. Balfour [small lips] 65mm x 72mm (2 1/2" x 2 3/4")	SO46140CEB	Costal margin or abdominal wall retraction.
		2	Radio. Balfour [small lips] 83mm x 70mm (3 1/4" x 2 3/4")	SO46141CEB	
		2	Radio. Balfour [with lips] 32mm x 32mm (1 1/4" x 1 1/4")	SL46142EB	
		2	Radio. Balfour [with lips] 83mm x 127mm (3 1/4" x 5")	SO46141DEB	
		1	Radiolucent Wide Balfour 83mm x 57mm (3 1/4" x 2 1/4")	SO46241AEB	
		1	Radiolucent Wide Balfour 102mm x 57mm (4" x 2 1/4")	SO46241BEB	
		1	Radiolucent Wide Balfour 114mm x 57mm (4 1/2" x 2 1/4")	SO46241CEB	
		1	Radiolucent Richardson 51mm x 127mm (2" x 5")	SO46151ET	
		1	Radiolucent Richardson 51mm x 178mm (2" x 7")	SO46153ET	Abdominal wall retraction.
		1	Radiolucent Harrington 64mm x 152mm (2 1/2" x 6")	SL46160ET	Organ or soft tissue retraction.
		1	Radiolucent St Marks 64mm x 178mm (2 1/2" x 7")	SO46188ET	Soft tissue retraction.
		1	Radiolucent Malleable Finger 152mm (6")	SL46191ET	Gentle organ retraction.
		2	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.
		1	Instrument Case	50000BL	

## Carotid



## Thyroid



### SMALL INCISION SYSTEM #SL82009

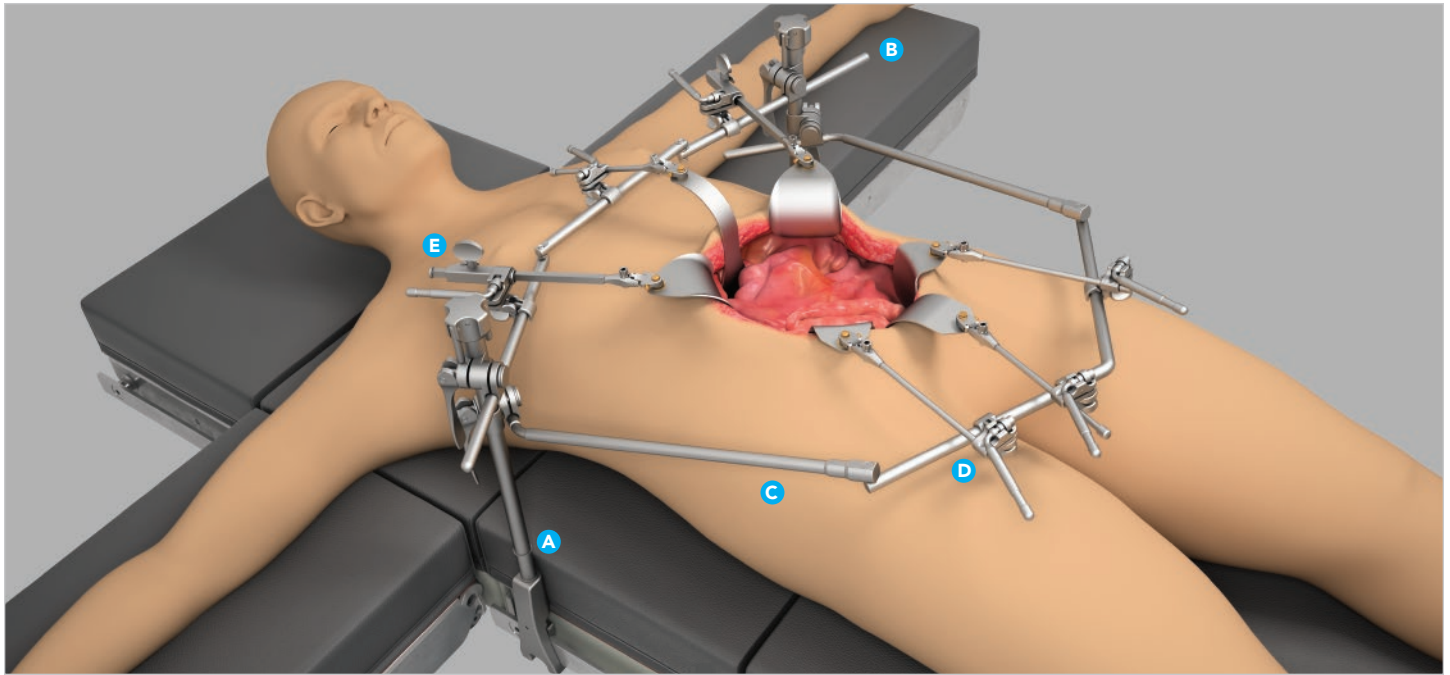
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	Elite III Rail Clamp w/1 (3/8) Cam Joint 11"	43902S	Attaches to the rail of the OR table and holds the angled arms in position.
B		2	19" Angled Arm (12" x 7") @ 45° (3/8")	44119	Attaches to the crossbar and holds the retractor handles in place around the incision.
B		2	17" Angled Arm (10" x 7") @ 45° (3/8")	44117	Attaches to the crossbar and holds the retractor handles in place around the incision.
		1	3/8" Extension Arm 12" with Hinge Joint	44014H	May be added to the angled arm if superior retraction is needed.
C		5	Cam II Clip-on Quick Angle 8" (3/8")	SL42127WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		2	Richardson 44mm x 51mm (1 3/4" x 2")	SL46149	
		1	Richardson 51mm x 102mm (2" x 4")	SL46150	Abdominal wall retraction.

SMALL INCISION SYSTEM #SL82009 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		2	Mini-Richardson 19mm x 25mm (¾" x 1")	SL46125	Muscle retraction for exposure with small or mini-incision.
		1	Mini-Richardson 19mm x 51mm (¾" x 2")	SL46125A	
		1	Mini-Richardson 25mm x 32mm (1" x 1 ¼")	SL46126	
		2	Malleable 13mm x 64mm (½" x 2 ½")	SL46115	Soft tissue retraction.
		1	Volkman Blunt 25mm x 13mm (1" x ½")	SL46211	Skin and shallow muscle retraction.
		1	Volkman Sharp 16mm x 13mm (⅝" x ½")	SL46212	
		1	Volkman Blunt 16mm x 13mm (⅝" x ½")	SL46213	
		1	Murphy Sharp 25mm x 13mm (1" x ½")	SL46214	Skin and shallow muscle retraction.
		1	Murphy Blunt 25mm x 13mm (1" x ½")	SL46215	
		1	Murphy Blunt 19mm x 13mm (¾" x ½")	SL46217	
		1	Concave Lateral 25mm x 40mm (1" x 1 ½")	SL45157A	Medial and lateral retraction for head and neck procedures.
		2	Concave Lateral 25mm x 70mm (1" x 2 ¾")	SL45159A	
		2	Concave Medial 25mm x 50mm (1" x 2")	SL45232A	Medial retraction for head and neck procedures.
		2	Concave Medial 32mm x 70mm (1 ¼" x 2 ¾")	SL45153A	
		1	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.

# Bilateral Urologic Oncology



## UROLOGIC ONCOLOGY SYSTEM #SL82013

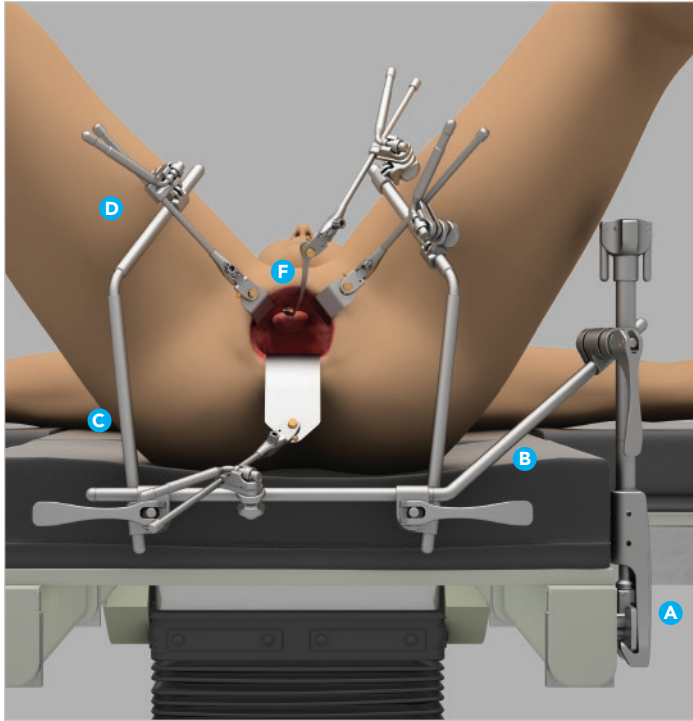
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	Elite III Rail Clamp with 2 Cam Joints 18"	43903AC	Attaches to the rail of the OR table and holds the crossbar and angled arms or Lower Abdominal Bar in position.
B		1	34" Bilateral Crossbar Hinged 11 1/2" x 8 1/2" x 11 1/2"	41900PH	Attaches to the rail clamps to provide bilateral stability, and holds the retractor handles in place around the incision.
C		1	Lower Abdominal Bar 20" (14" x 6")	44112SP	Attaches to the rail clamps and holds the retractor handles in place around the incision.
		2	Cam Joint Serrated 1/2" x 1/2"	43112C	Connects angled arms together to allow for expansion of frame.
		2	18" Angled Arm (8" x 10") @ 45°	44118N	Attaches to the rail clamps and holds the retractor handles in place around the incision.
		2	24" Angled Arm (8" x 16") @ 45°	44124N	Attaches to the rail clamps and holds the retractor handles in place around the incision.
D		6	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
E		2	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.

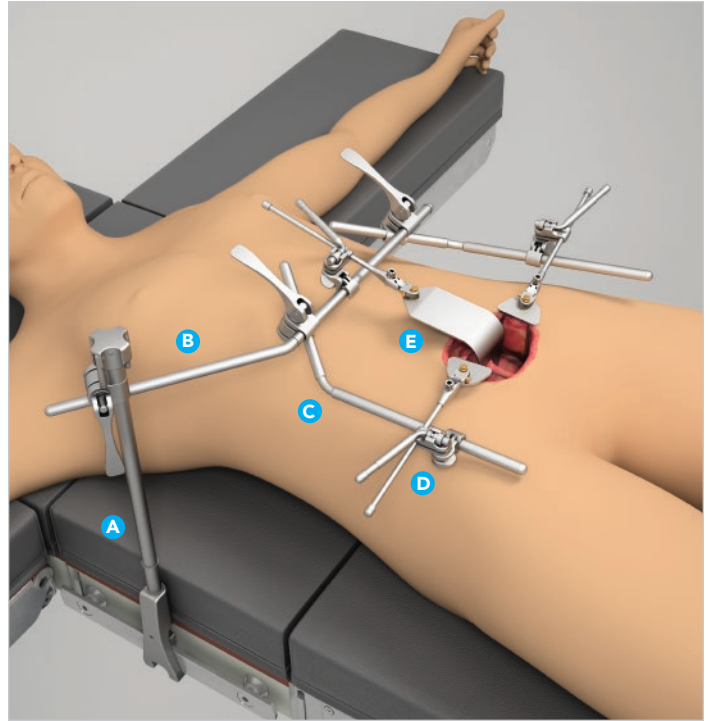
UROLOGIC ONCOLOGY SYSTEM #SL82013 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		1	"Y" Bladder 81mm x 216mm (3 1/8" x 8 1/2")	SL46139	Bladder retraction.
		2	Malleable Finger 152mm (6")	SL46191	Gentle organ retraction.
		2	Double Angled 25mm x 76mm (1" x 3")	SL46660	Soft tissue retraction.
		2	Double Angled 13mm x 76mm (1/2" x 3")	SL46662	
		2	Balfour [with lips] 83mm x 73mm (3 1/4" x 3")	SO46141	Costal margin or abdominal wall retraction.
		2	Balfour [with lips] 51mm x 54mm (2" x 2")	SL46142P	
		1	Wide Balfour 100mm x 61mm (4" x 2 3/8")	SO46241B	Costal margin or abdominal wall retraction.
		1	Harrington 64mm x 152mm (2 1/2" x 6")	SL46160	Organ or soft tissue retraction.
		2	Concave Renal Vein 25mm x 191mm (1" x 7 1/2")	SL46119C	Renal vein or vessel retraction.
		1	St. Marks [with lip] 64mm x 178mm (2 1/2" x 7")	SO46188	Soft tissue retraction.
		2	Kelly 76mm x 89mm (3" x 3 1/2")	SO46130	Abdominal or incisional wall retraction.
		2	Richardson 51mm x 178mm (2" x 7")	SO46153	Abdominal wall retraction.
		1	Fence 102mm x 152mm (4" x 6")	SO46136	Lateral retraction of abdominal wall on large procedures.
		2	Deaver 51mm x 127mm (2" x 5")	SL46174	Soft tissue retraction.
		1	Prostate Retractor 8mm (3/8")	SL45753AM	Prostate retraction.
		1	Double Angled Bulb 25mm x 64mm (1" x 2 1/2")	SL46664	Bladder retraction.
		1	Murphy Blunt 25mm x 13mm (1" x 1/2")	SL46215	Skin and shallow muscle retraction.
		2	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.
		1	Instrument Case	50000BL	

## Perineal Prostatectomy



## Retropubic Prostatectomy



### UROLOGY SYSTEM #SL82012

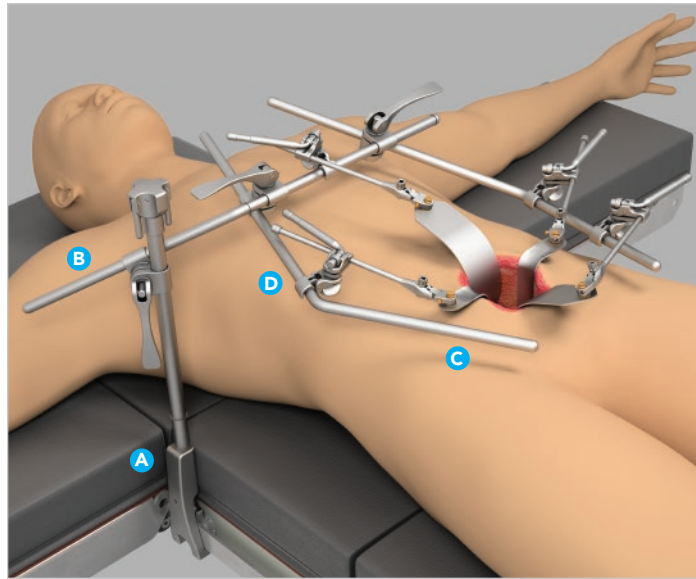
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite III Rail Clamp with 1 Cam Joint 18"	43902AC	Attaches to the rail of the OR table and holds the crossbar in position.
B		1	Crossbar with 2 Cam III Joints 24"	43900BC	Attaches to the rail clamp and holds the angled arms in place around the incision. May also support retractor handles.
C		2	18" Angled Arm (8" x 10") @ 45°	44118N	Attaches to the crossbar and holds the retractor handles in place around the incision.
D		2	24" Angled Arm (8" x 16") @ 45°	44124N	Attaches to the crossbar and holds the retractor handles in place around the incision.
D		3	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		2	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.

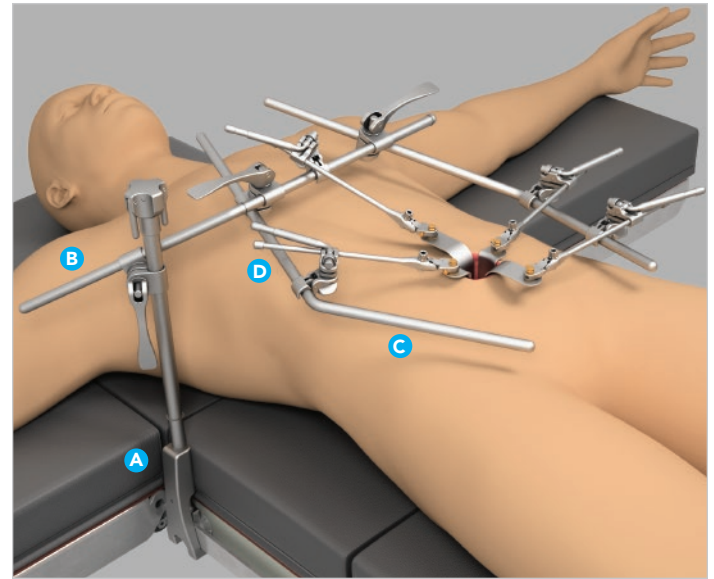
UROLOGY SYSTEM #SL82012 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		2	Kelly 64mm x 76mm (2 1/2" x 3")	SO46129	Abdominal or incisional wall retraction.
		1	Malleable 13mm x 152mm (1/2" x 6")	SL46116	Soft tissue retraction.
		1	Malleable 51mm x 203mm (2" x 8")	SL46122	
		1	Malleable 38mm x 203mm (1 1/2" x 8")	SL46123	
		1	Malleable 64mm x 254mm (2 1/2" x 10")	SL46124	
		2	Balfour [with lips] 76mm x 51mm (3" x 2")	SL46140P	Costal margin or abdominal wall retraction.
		2	Balfour [with lips] 51mm x 54mm (2" x 2")	SL46142P	
		1	Fence 102mm x 152mm (4" x 6")	SO46136	Lateral retraction of abdominal wall on large procedures.
E		1	Holtgrewe 60mm x 152mm (2 3/8" x 6")	SL46137	Malleable bladder retractor, designed to protect bladder during resection of prostate gland.
		2	Fenestrated 44mm x 89mm (1 3/4" x 3 1/2")	SL46143	Abdominal or incisional wall retraction.
		1	Richardson 51mm x 127mm (2" x 5")	SO46151	Abdominal wall retraction.
		1	Deaver 51mm x 127mm (2" x 5")	SL46174	Soft tissue retraction.
F		1	Prostate Retractor 8mm (3/8")	SL45753AM	Prostate retraction.
		1	Harrington 64mm x 152mm (2 1/2" x 6")	SL46160	Organ or soft tissue retraction.
		1	Harrington 64mm x 203mm (2 1/2" x 8")	SL46163	
		2	Double Angled 25mm x 76mm (1" x 3")	SL46660	Soft tissue retraction.
		2	Double Angled 25mm x 64mm (1" x 2 1/2")	SL46661	
		2	Double Angled 13mm x 76mm (1/2" x 3")	SL46662	
		2	Double Angled 13mm x 70mm (1/2" x 2 3/4")	SL46663	
		1	Murphy Blunt 25mm x 13mm (1" x 1/2")	SL46215	Skin and shallow muscle retraction.
		2	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.

## Anterior Lumbar



## Brau Anterior Lumbar



### ANTERIOR LUMBAR SYSTEM #SL82019

Non S-Lock system also available, may require a longer lead time.

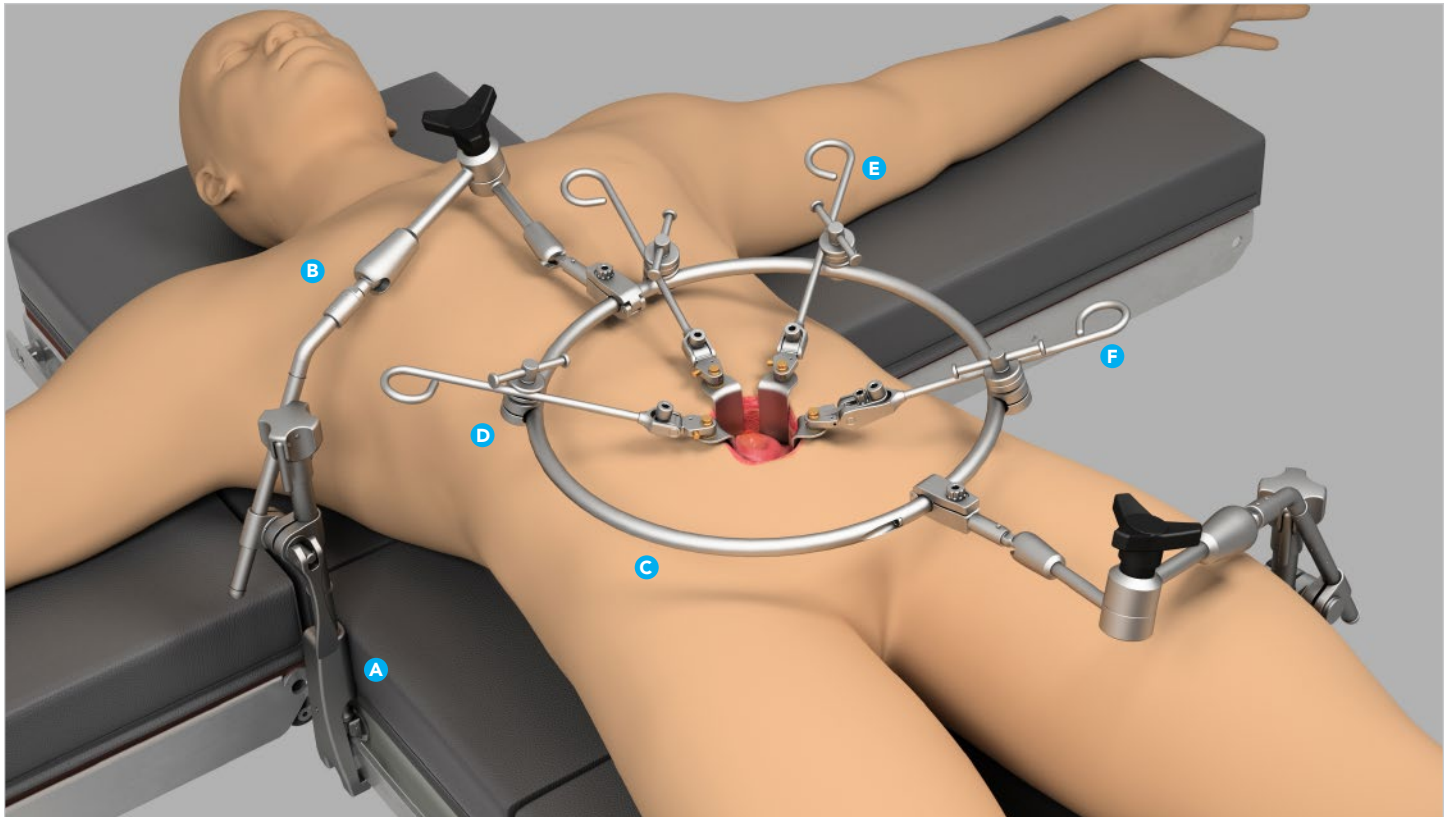
REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite III Rail Clamp with 1 Cam Joint 16"	43902ACL	Attaches to the rail of the OR table and holds the crossbar in position.
B		1	Crossbar with 2 Cam Joints 24" (11" x 13")	43900BC	Attaches to the rail clamp and holds the angled arms in place around the incision. May also support retractor handles.
C		2	Angled Arm 20" (10" x 10") @ 45°	44120	Attaches to the crossbar and holds the retractor handles in place around the incision.
D		2	Angled Arm 24" (8" x 16") @ 45°	44124N	Attaches to the crossbar and holds the retractor handles in place around the incision.
		5	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the crossbar or angled arm and angles retractor blades as needed, 45° up or down.
		1	Micro-Adjustable II Clip-on Quick Angle 10"	SL45006CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		1	Quick Angle Hand Held Adapter	SL42128G	Attach to a Thompson retractor blade to use as a hand held retractor.
		1	Suction for Anterior Lumbar Surgery	51234	Suction for disc space, as needed.
		1	Anterior Lumbar Depth Gauge 335mm	51236	Measures depth of incision for blade selection.



ANTERIOR LUMBAR SYSTEM #SL82019 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		2	Radio. Malleable Renal Vein 25mm x 140mm (1" x 5 1/2")	SL46119BET	Renal vein or vessel retraction.
		2	Radio. Malleable Renal Vein 25mm x 190mm (1" x 7 1/2")	SL46119CET	
		2	Radiolucent Malleable 51mm x 203mm (2" x 8")	SL46122ET	Soft tissue retraction.
		1	Radiolucent Harrington 64mm x 152mm (2 1/2" x 6")	SL46160ET	Organ or soft tissue retraction.
		1	Radiolucent Splanchnic 51mm x 115mm (2" x 4 1/2")	SL46145ET	Soft tissue retraction.
		2	Radiolucent Balfour 65mm x 72mm (2 1/2" x 2 3/4")	SL46140ET	Abdominal wall retraction.
		4	Radiolucent Concave 25mm x 100mm (1" x 4")	SL46560	Rigid, low profile vessel retraction.
		4	Radiolucent Concave 25mm x 120mm (1" x 4 3/4")	SL46562	
		4	Radiolucent Concave 25mm x 140mm (1" x 5 1/2")	SL46564	
		4	Radiolucent Concave 25mm x 160mm (1" x 6 1/4")	SL46566	
		4	Radiolucent Concave 25mm x 180mm (1" x 7")	SL46568	
		2	Radio. Reverse Lip Rigid 25mm x 110mm (1" x 4 3/8")	SL46261RET	Reverse Lip engages at the lateral aspect of the disc and vertebral body to expose the anterior lumbar spine.
		2	Radio. Reverse Lip Rigid 25mm x 130mm (1" x 5 1/8")	SL46263RET	
		2	Radio. Reverse Lip Rigid 25mm x 150mm (1" x 5 7/8")	SL46265RET	
		2	Radio. Reverse Lip Rigid 25mm x 170mm (1" x 6 5/8")	SL46267RET	
		2	Radio. Reverse Lip Rigid 25mm x 190mm (1" x 7 1/2")	SL46269RET	
		2	Radio. Reverse Lip Rigid 32mm x 120mm (1 1/4" x 4 3/4")	SL46282RET	Reverse Lip engages at the lateral aspect of the disc and vertebral body to expose the anterior lumbar spine.
		2	Radio. Reverse Lip Rigid 32mm x 140mm (1 1/4" x 5 1/2")	SL46284RET	
		2	Radio. Reverse Lip Rigid 32mm x 160mm (1 1/4" x 6 1/4")	SL46286RET	
		2	Radio. Reverse Lip Rigid 32mm x 180mm (1 1/4" x 7")	SL46288RET	
		2	Radio. Reverse Lip Tapered 25mm x 100mm (1" x 4")	SL46260TET	Tapered design is ideal for working around osteophytes.
		2	Radio. Reverse Lip Tapered 25mm x 150mm (1" x 5 7/8")	SL46265TET	
		2	Radio. Reverse Lip Tapered 25mm x 200mm (1" x 7 7/8")	SL46270TET	
		2	Radio. Reverse Lip Malleable 25mm x 200mm (1" x 7 7/8")	SL46192ET	Vessel or soft tissue retraction.
		2	Radio. Reverse Lip Malleable 32mm x 200mm (1 1/4" x 7 7/8")	SL46193ET	
		1	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.
		1	Instrument Case - Exp. Reverse Lip ASA	50000ERL	
		1	Instrument Case - AL Renal Vein Blades	50000ALR	
		1	Instrument Case - Anterior Lumbar	50000ALT	

# Anterior Lumbar Ring



## ANTERIOR LUMBAR RING SYSTEM #SL82023

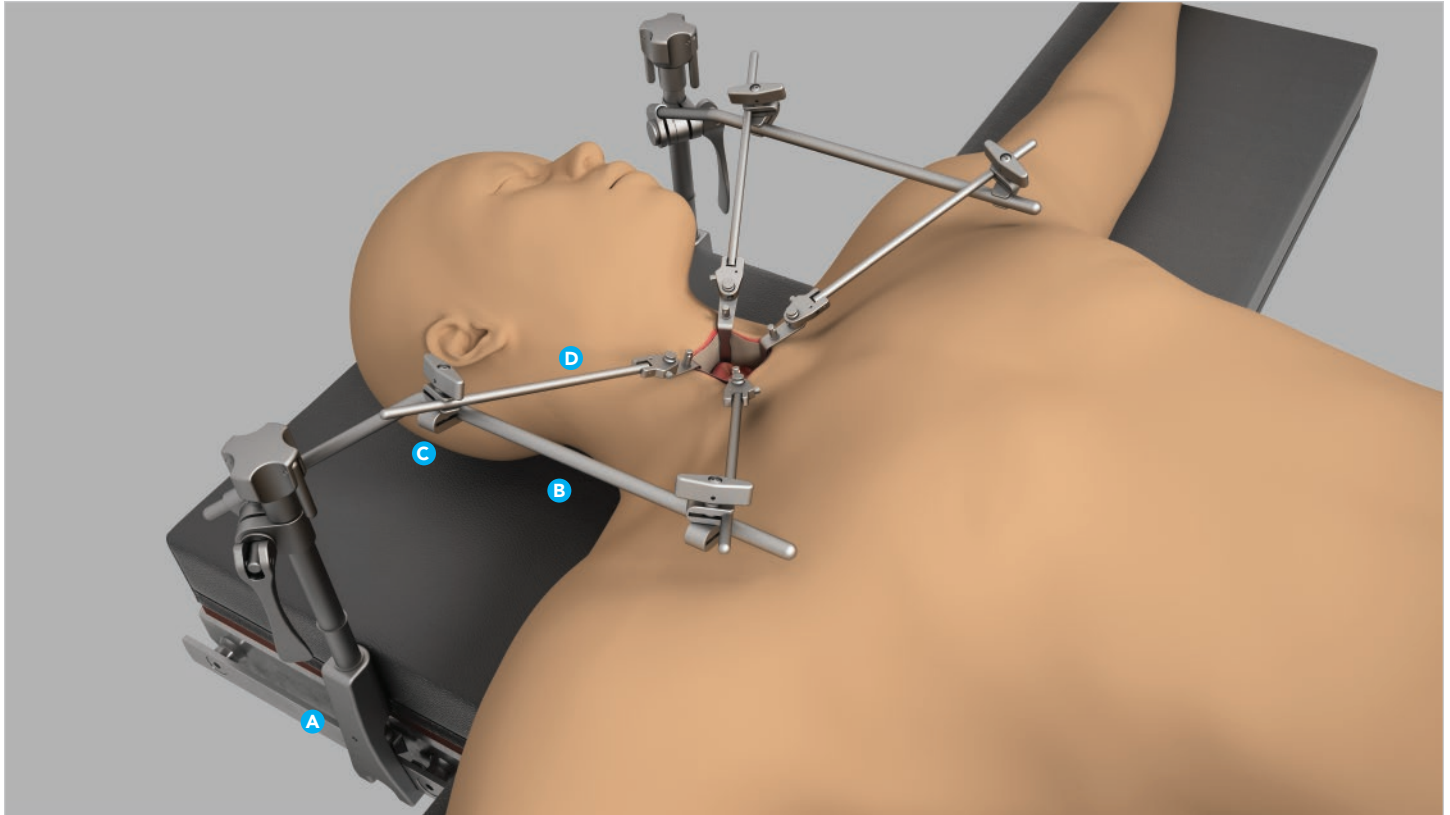
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	Elite III Rail Clamp with 1 Joint 11" (2 required for use)	43902ACS	Attaches to the rail of the OR table and holds the Extension Arm in position.
B		2	Extension Arm with Fixed Hinge Joint (2 required for use)	44615FH	Attaches to the rail clamp and holds the ring in place around the incision.
C		2	Ring Frame Half 13 1/2" (2 required for use)	44224	Two are joined together to form a ring. Ring attaches to the Extension Arms and allows for joints to be placed anywhere around the incision.
D		6	Circle Joint 1/2" x 1/4"	42100	Attaches to the ring and holds the retractor handles in place around the incision.

ANTERIOR LUMBAR RING SYSTEM #SL82023 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
E		4	Free Angle Handle	SL42102	Attaches blades to ring frame. Allows for tactile blade positioning, with a "paddling" motion.
F		2	Dual Angle Handle	SL42101	Attaches blades to ring frame. Allows for tactile blade positioning, with a "paddling" motion, provides additional precise angling as needed.
		2	Hex Tool 3/16" with T-Handle	60021	Used to tighten or loosen fixed hinge joint, secure ring halves together, manipulate Free Angle mechanism, and angle Quick Angle mechanism.
		2	Instrument Case with Pin Mat	50000G	Allows for sterilization, storage, and transportation of instruments.
		4	Radiolucent Concave Renal Vein 25mm x 80mm (1" x 3 1/8")	SL46558	
		4	Radiolucent Concave Renal Vein 25mm x 100mm (1" x 4")	SL46560	
		4	Radiolucent Concave Renal Vein 25mm x 120mm (1" x 4 3/4")	SL46562	
		4	Radiolucent Concave Renal Vein 25mm x 140mm (1" x 5 1/2")	SL46564	Rigid, low profile vessel retraction.
		4	Radiolucent Concave Renal Vein 25mm x 160mm (1" x 6 1/4")	SL46566	
		4	Radiolucent Concave Renal Vein 25mm x 180mm (1" x 7")	SL46568	
		4	Radiolucent Concave Renal Vein 25mm x 200mm (1" x 7 7/8")	SL46570	
		4	Radiolucent Concave Renal Vein 25mm x 200mm (1" x 7 7/8")	SL46570	
		1	Instrument Case - AL Renal Vein	50000ALR	Organized blade sterilization, storage, and transportation.






## Central Cervical Access ( CCA )



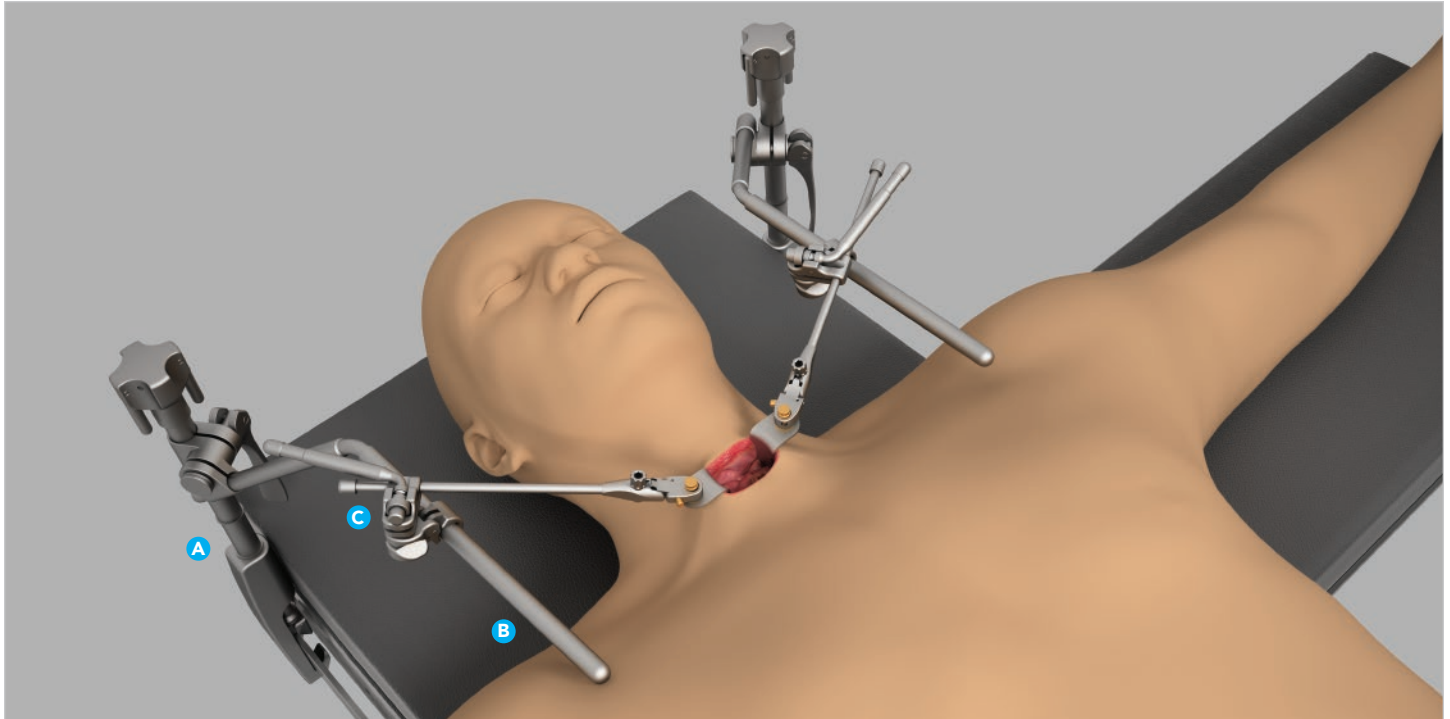
### CCA SYSTEM #SL82018

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	Elite III Rail Clamp with 1 3/8" Cam Joint 10"	43902S	Attaches to the rail of the OR table and holds the angled arms in position.
B		2	Angled Arm 17" (7" x 10") 3/8"	44117	Attaches to the rail clamp and holds the retractor handles in place around the incision.
C		6	Clip-Clip Joint 3/8" x 1/4"	42123	Attaches to the angled arms and holds the hinged retractor handles.
D		4	S-Lock Hinged Handle 8"	SL45003LH	Clips in to the Clip-Clip joints and holds the Bone Levers in position. Hinge mechanism allows the blades to "float" while remaining engaged with bone.

CCA SYSTEM #SL82018 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		2	Manipulator Handle	42128AC	Attaches to the proximal end of the CCA Bone Levers and assists with positioning before the CCA Bone Levers are attached to the hinged retractor handles.
		1	CCA Depth Gauge	46521	Measures depth of incision for blade selection.
		2	Silicone Sleeve - Large	64049	Surrounds the CCA Bone Levers and helps retract soft tissue. (Optional.)
		4	Bone Lever 14mm x 40mm (1/2" x 1 1/2")	SL46982AC	Lateral/medial retraction in four corners of exposure. Engages the anterior surface of the cervical spine and retracts surrounding tissues by levering. Attaches to the hinged retractor handles.
		4	Bone Lever 14mm x 50mm (1/2" x 2")	SL46983AC	
		4	Bone Lever 14mm x 70mm (1/2" x 2 3/4")	SL46985AC	
		4	Bone Lever 14mm x 80mm (1/2" x 3 1/8")	SL46986AC	
		1	Instrument Case - CCA Frame	50000CCAF	Allows for sterilization, storage, and transportation of instruments.
		1	Instrument Case - CCA Blades	50000CCAB	

# Bilateral Anterior Cervical












## CERVICAL SYSTEM #SL82017

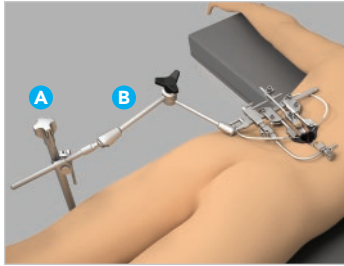
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	Elite III Rail Clamp w/1 Cam Joint 11"	43902ACS	Attaches to the rail of the OR table and holds the angled arms in position.
B		2	20" Angled Arm (10" x 10") @ 45°	44120	Attaches to the rail clamp and holds the retractor handles in place around the incision.
C		4	Cam II Clip-on Quick Angle 8"	SL42126WGP	Attaches retractor blades to the frame and angles retractor blades as needed, 45° up or down.
		1	Micro-Adjustable II Clip-on Quick Angle 7 3/4"	SL45007CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		2	Rail Extender 15" Single Clamp	5844	Attaches to OR table rail to increase rail length or width and provide more attachment options for the rail clamps.
		1	Extension Arm 12" with Hinge Joint	44014HS	May be added to the angled arm if upward retraction is needed.

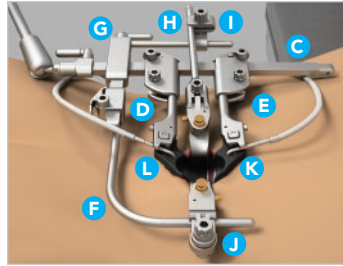
CERVICAL SYSTEM #SL82017 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		1	Depth Gauge - Anterior Cervical	46521	Measures depth of incision for blade selection.
		2	Manipulator Handle	42228	May be used in addition to a Thompson Retractor Handle to make controlled adjustments to blade position after blade has been placed and attached to frame.
		2	Radiolucent Concave Lateral 23mm x 35mm (1" x 1 3/8")	SL46312AT	Medial and lateral retraction for multi and single level procedures.
		2	Radiolucent Concave Lateral 23mm x 40mm (1" x 1 1/2")	SL46314AT	
		2	Radiolucent Concave Lateral 23mm x 45mm (1" x 1 3/4")	SL46316AT	
		2	Radiolucent Concave Lateral 23mm x 50mm (1" x 2")	SL46318AT	
		2	Radiolucent Concave Lateral 23mm x 55mm (1" x 2 1/8")	SL46320AT	
		2	Radiolucent Concave Lateral 23mm x 60mm (1" x 2 3/8")	SL46322AT	
		2	Radiolucent Concave Lateral 23mm x 65mm (1" x 2 1/2")	SL46324AT	
		2	Radiolucent Concave Lateral 23mm x 70mm (1" x 2 3/4")	SL46326AT	
		2	Radiolucent Concave Lateral 23mm x 75mm (1" x 3")	SL46328AT	
		2	Radiolucent Concave Lateral 23mm x 80mm (1" x 3 1/8")	SL46330AT	
		2	Radio. Concave Longitudinal 23mm x 40mm (1" x 1 1/2")	SL45161AT	Longitudinal, medial, or lateral retraction
		2	Radio. Concave Longitudinal 23mm x 50mm (1" x 2")	SL45162AT	
		2	Radio. Concave Longitudinal 23mm x 60mm (1" x 2 3/8")	SL45163AT	
		2	Radio. Concave Longitudinal 23mm x 70mm (1" x 2 3/4")	SL45164AT	
		2	Radiolucent Concave Micro 14mm x 40mm (1/2" x 1 1/2")	SL46512AT	Medial or lateral retraction. Ideal for small exposures and longitudinal retraction in narrow exposures.
		2	Radiolucent Concave Micro 14mm x 50mm (1/2" x 2")	SL46516AT	
		2	Radio. Concave Micro 14mm x 60mm (1/2" x 2 3/8")	SL46520AT	
		2	Radio. Concave Tapered 23mm x 40mm (1" x 1 1/2")	SL45644AT	Medial or lateral retraction.
		2	Radio. Concave Tapered 23mm x 50mm (1" x 2")	SL45646AT	
		2	Radio. Concave Tapered 23mm x 60mm (1" x 2 3/8")	SL45648AT	
		2	Radio. Concave Tapered 23mm x 70mm (1" x 2 3/4")	SL45650AT	
		1	Radiolucent Odontoid 20mm x 90mm (3/4" x 3 1/2")	SL45666AT	Anterior odontoid and longitudinal cephalad retraction.
		1	Instrument Case w/Pin Mat 22" x 11" x 3 1/2"	50000G	Allows for sterilization, storage, and transportation of instruments.
		1	Instrument Case - Expanded Anterior Cervical	50000EAC	Allows for sterilization, storage, and transportation of instruments.

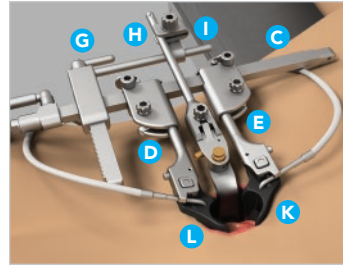
### MIS PLA Frame



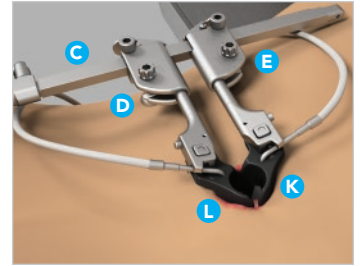
### MIS PLA® 4-Blade



### MIS PLA® 3-Blade



### MIS PLA® 2-Blade





### MIS PLA® SYSTEM #SL82021

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite II Rail Clamp with 1 Cam Joint 16"	41902ACL	Attaches to the rail of the OR table and holds the articulating arm.
B		1	MIS Spine Frame Articulating Arm	42138N	Attaches to the rail clamp and table mounts the MIS Spine Frame Rack. Position is adjustable using black knob.
C		1	MIS Spine Frame Rack 200mm	60010	Mounts to articulating arm and holds frame arms.
D		1	MIS Spine Frame Left Arm	60009	Holds and allows for angling and retraction of the caudal/cephalad blades.
E		1	MIS Spine Frame Right Arm	60008	Holds and allows for angling and retraction of the caudal/cephalad blades.
F		1	MIS Spine Frame U-Bar Add On	47212	Attaches to and retracts off of the L-Bar Add-on. Supports a third or fourth point of retraction, usually on the lateral side.
G		1	MIS Spine Frame L-Bar Add On	47213	Mounts to the MIS Spine Frame Rack and supports a third point of retraction, usually in the medial direction.
H		1	S-Lock Quick Angle Handle 6"	SL45003G	Attaches to a retractor blade for medial retraction.
I		1	1/4" Side Clip x 1/4" Slide with Thumb Screw	47205T	Slides on to the L-Bar and holds a retractor handle.
J		1	S-Lock Interchangeable Head with 1/4" Scissor	SL45012S	Attaches a retractor blade to the U-Bar Add-on.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		1	Instrument Case - MIS Spine Frame	50000MSF	Organizes and holds instruments.

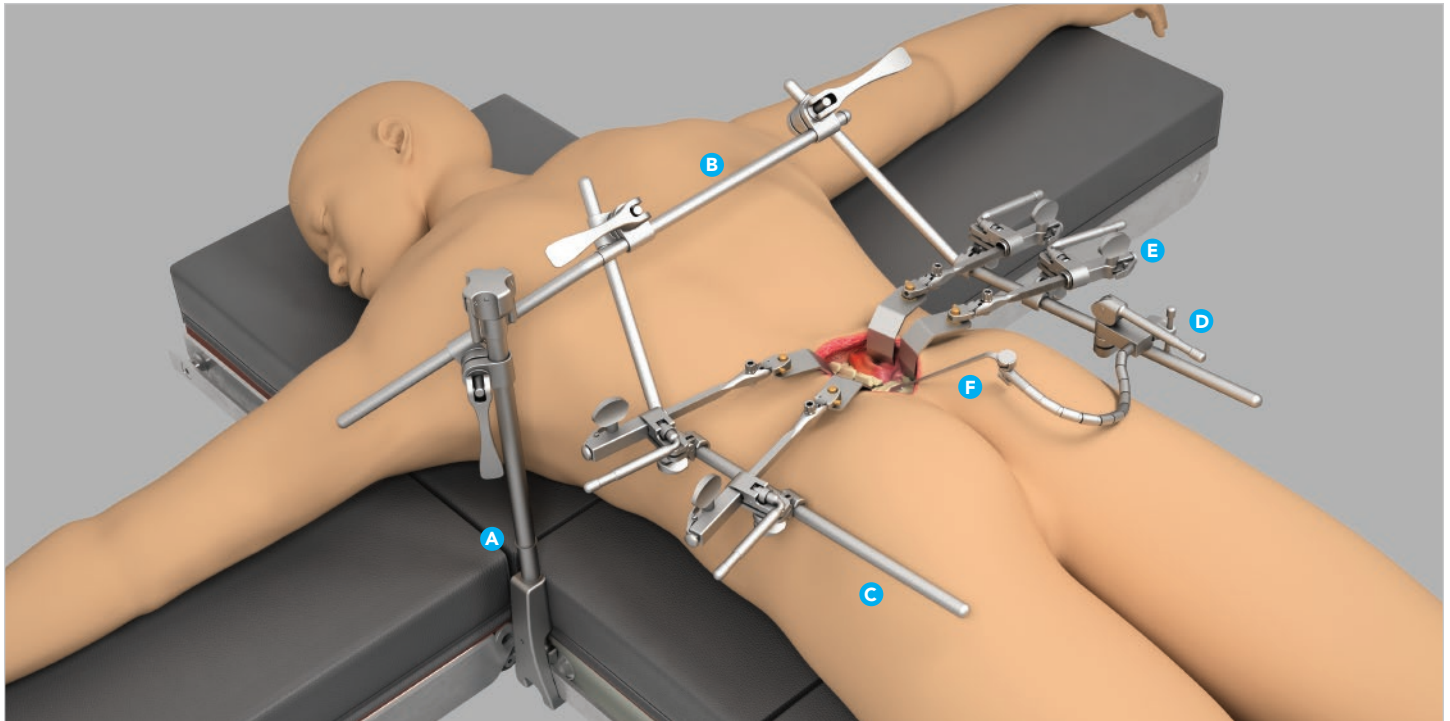


MIS PLA® SYSTEM #SL82021 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
K + L		1	Caudal / Cephalad 22mm x 40mm	45924R / 45924L	Retraction in the head and toe direction. Inserted over a dilator.
		1	Caudal / Cephalad 22mm x 50mm	45925R / 45925L	
		1	Caudal / Cephalad 22mm x 60mm	45926R / 45926L	
		1	Caudal / Cephalad 22mm x 70mm	45927R / 45927L	
		1	Caudal / Cephalad 22mm x 80mm	45928R / 45928L	
		1	Caudal / Cephalad 22mm x 90mm	45929R / 45929L	
		1	Caudal / Cephalad 22mm x 100mm	45930R / 45930L	
		1	Caudal / Cephalad 22mm x 110mm	45931R / 45931L	
		1	Caudal / Cephalad 22mm x 120mm	45932R / 45932L	
		1	Medial / Lateral with Lip 40mm	SL46704AT	Medial and lateral retraction.
1		Medial / Lateral with Lip 50mm	SL46705AT		
1		Medial / Lateral with Lip 60mm	SL46706AT		
1		Medial / Lateral with Lip 70mm	SL46707AT		
1		Medial / Lateral with Lip 80mm	SL46708AT		
1		Medial / Lateral with Lip 90mm	SL46709AT		
1		Medial / Lateral with Lip 100mm	SL46710AT		
1		Medial / Lateral with Lip 110mm	SL46711AT		
1		Medial / Lateral with Lip 120mm	SL46712AT		
		1	Medial / Lateral with Fine Teeth 13½mm x 40mm	SL46604ATT	Medial and lateral retraction.
1		Medial / Lateral with Fine Teeth 13½mm x 50mm	SL46605ATT		
1		Medial / Lateral with Fine Teeth 13½mm x 60mm	SL46606ATT		
1		Medial / Lateral with Fine Teeth 13½mm x 70mm	SL46607ATT		
1		Medial / Lateral with Fine Teeth 13½mm x 80mm	SL46608ATT		
1		Medial / Lateral with Fine Teeth 13½mm x 90mm	SL46609ATT		
1		Medial / Lateral with Fine Teeth 13½mm x 100mm	SL46610ATT		
1		Medial / Lateral with Fine Teeth 13½mm x 110mm	SL46611ATT		
1		Medial / Lateral with Fine Teeth 13½mm x 120mm	SL46612ATT		
		1	Instrument Case - PLA Blades + Sequential Dilators	50000PLA	Organizes and holds instruments.
		1	Dilator #1 - 7mm	45831	Inserted sequentially into the incision down to the disc space to dilate the working channel. May be inserted over K-wire. Removed once the Caudal / Cephalad blades are inserted.
		1	Dilator #2 - 12mm	45832	
		1	Dilator #3 - 17mm	45833	
		1	Dilator #4 - 21mm	45834	

Shown with optional MIS PLA Illumination Kit (#40001MIS)

# Open Posterior Lumbar



## POSTERIOR LUMBAR SYSTEM #SL82020

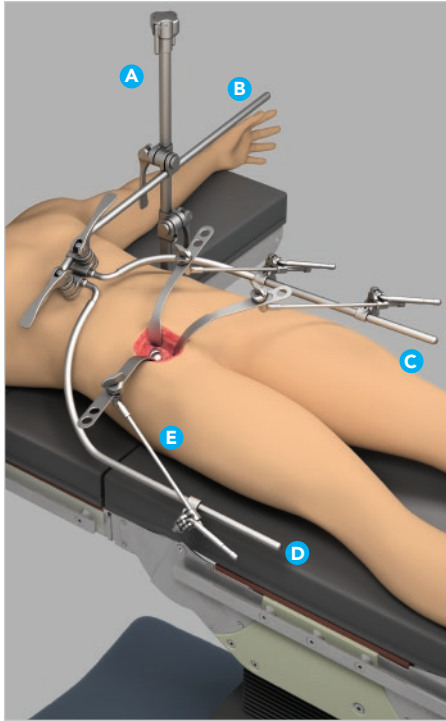
Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite III Rail Clamp with 1 Cam Joint 16"	43902ACL	Attaches to the rail of the OR table and holds the crossbar in position.
B		1	Crossbar with 2 Cam Joints 24" (11" x 13")	43900BC	Attaches to the rail clamp and holds the angled arms in place around the incision. May also support retractor handles.
C		2	Angled Arm 24" (8" x 16") @ 45°	44124N	Attaches to the crossbar and holds the retractor handles in place around the incision.
D		1	Flexible Blade Holder with Cam Joint	42140C	Attaches Nerve Root Retractors to the frame as needed.
E		4	Micro-Adj II Clip-on Quick Angle 7 3/4"	SL45007CGP	Attaches blades to frame and angles blades as needed, 45° up or down. Provides precise micro-adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.

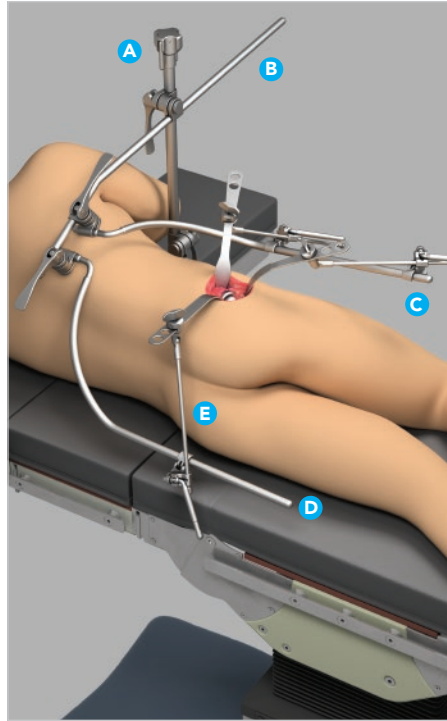
POSTERIOR LUMBAR SYSTEM #SL82020 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
		2	Radiolucent Concave Posterior Lumbar 23mm x 80mm (1" x 3 1/8")	SO45670ATTC	Lateral muscle retraction for posterior lumbar procedures.
		2	Radiolucent Concave Posterior Lumbar 45mm x 80mm (1 3/4" x 3 1/8")	SO45671ATTC	
		2	Radiolucent Concave Posterior Lumbar 60mm x 80mm (2 3/8" x 3 1/8")	SO45672ATTC	
		2	Radiolucent Concave Posterior Lumbar 23mm x 100mm (1" x 4")	SO45673ATTC	
		2	Radiolucent Concave Posterior Lumbar 45mm x 100mm (1 3/4" x 4")	SO45674ATTC	
		2	Radiolucent Concave Posterior Lumbar 60mm x 100mm (2 3/8" x 4")	SO45675ATTC	
		2	Radiolucent Concave Posterior Lumbar 23mm x 120mm (1" x 4 3/4")	SO45676ATTC	
		2	Radiolucent Concave Posterior Lumbar 45mm x 120mm (1 3/4" x 4 3/4")	SO45677ATTC	
		2	Radiolucent Concave Posterior Lumbar 60mm x 120mm (2 3/8" x 4 3/4")	SO45678ATTC	
		1	Nerve Root Retractor 90° 5mm x 123mm (1/4" x 4 7/8")	45752A	
F		1	Nerve Root Retractor 45° 8mm x 145mm (3/8" x 5 3/4")	45753A	
		1	Prong Retractor 75mm (3")	SL45760A	
		1	Prong Retractor 100mm (4")	SL45761A	
		2	Instrument Case	50000G	Allows for sterilization, storage, and transportation of instruments.

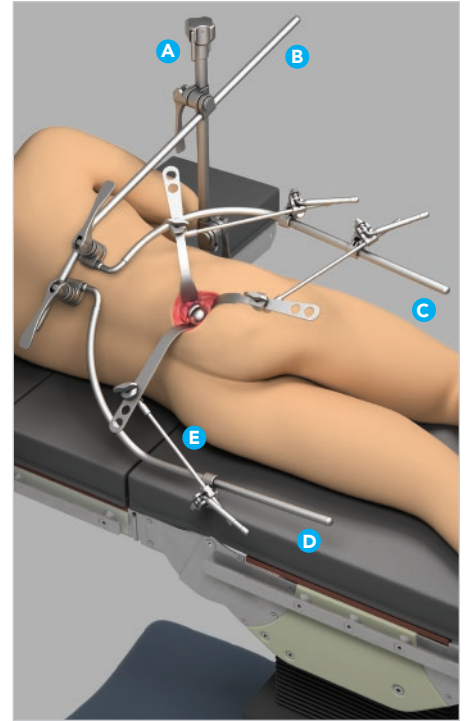
## Direct Anterior







## Lateral



## Posterior



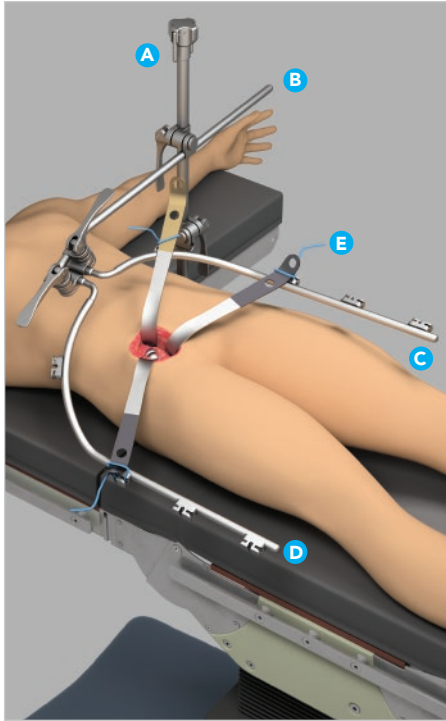
### HIP SYSTEM #SL82015

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite III Rail Clamp w/2 Cam Joints 22"	43905AC	Attaches to the rail of the OR table and holds the crossbar in position. Second joint may be used to hold Straight Arm with Elevator Handle.
B		1	Crossbar w/2 Cam Joints 7" x 19 1/2"	43990	Attaches to the rail clamp and holds the curved arms in place around the incision.
C		1	20" Curved Arm 1	44201	Attaches to the crossbar and holds the retractor handles in place.
D		1	20" Curved Arm 2	44202	Attaches to the crossbar and holds the retractor handles in place.

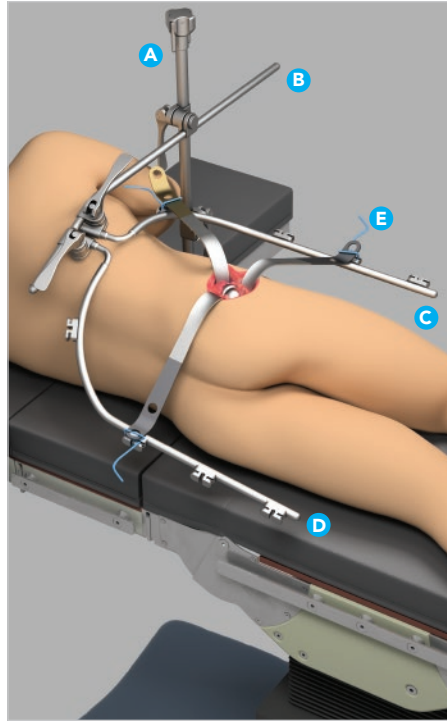
HIP SYSTEM #SL82015 (Continued)

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
E		4	Cam II Clip-On Blade Adapter 8 1/2"	42126BP	Attaches retractor blades to the frame.
		2	Orthopedic Cam II Clip-On 8 1/2"	42126OP	Attaches retractor blades to the frame, with Orthopedic Retractor Handle Knob.
		3	Orthopedic Retractor Handle Knob	60025	Secures retractor blade to Orthopedic Cam II Handle.
		1	Orthopedic Cam II Clip-On Hook 8 1/2"	42126OHP	Attaches retractor blades to the frame.
		1	Rail Extender 20" Single Clamp	41938	Attaches to OR table rail to provide more attachment options for the rail clamp. Required to use Hip System with Hana® Table or leg positioning systems.
		3	Cobra Hip Blade 11"	45301	Acetabulum exposure.
		3	Hohmann Hip Blade 11"	45305	Acetabulum exposure.
		3	Dual Prong Hip Blade 11"	45309	Acetabulum exposure.
		1	Elite III Rail Clamp w/1 Cam Joint 18"	43902AC	Attaches to the rail of the OR table and holds the elevator arm in position.
		1	25" Straight Arm with Elevator Handle	44301	Attaches to the rail clamp and holds Femur Hook for controlled, precise femur elevation.
		1	Femur Hook 9"	44309	Attaches to Straight arm with Elevator Handle for femur elevation.
		1	Femur Hook 12"	44312	Attaches to Straight arm with Elevator Handle for femur elevation.
		1	Instrument Case 26" x 10" x 5"	50000BL	Allows for sterilization, storage, and transportation of instruments.
		2	Instrument Case 22" x 11" x 3 1/2"	50000G	

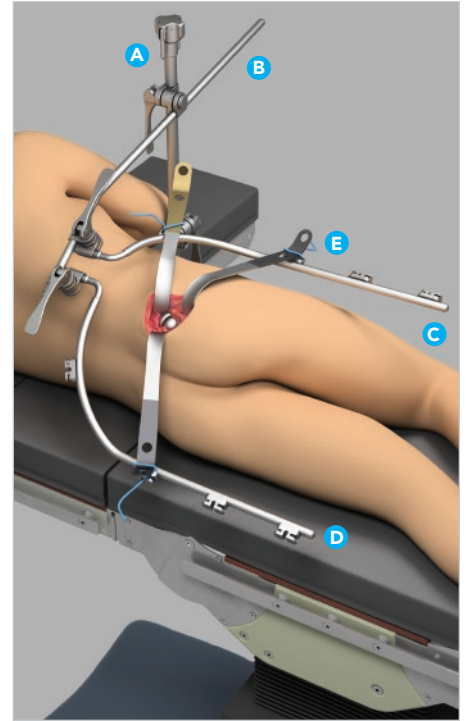
## Direct Anterior







## Lateral












## Posterior



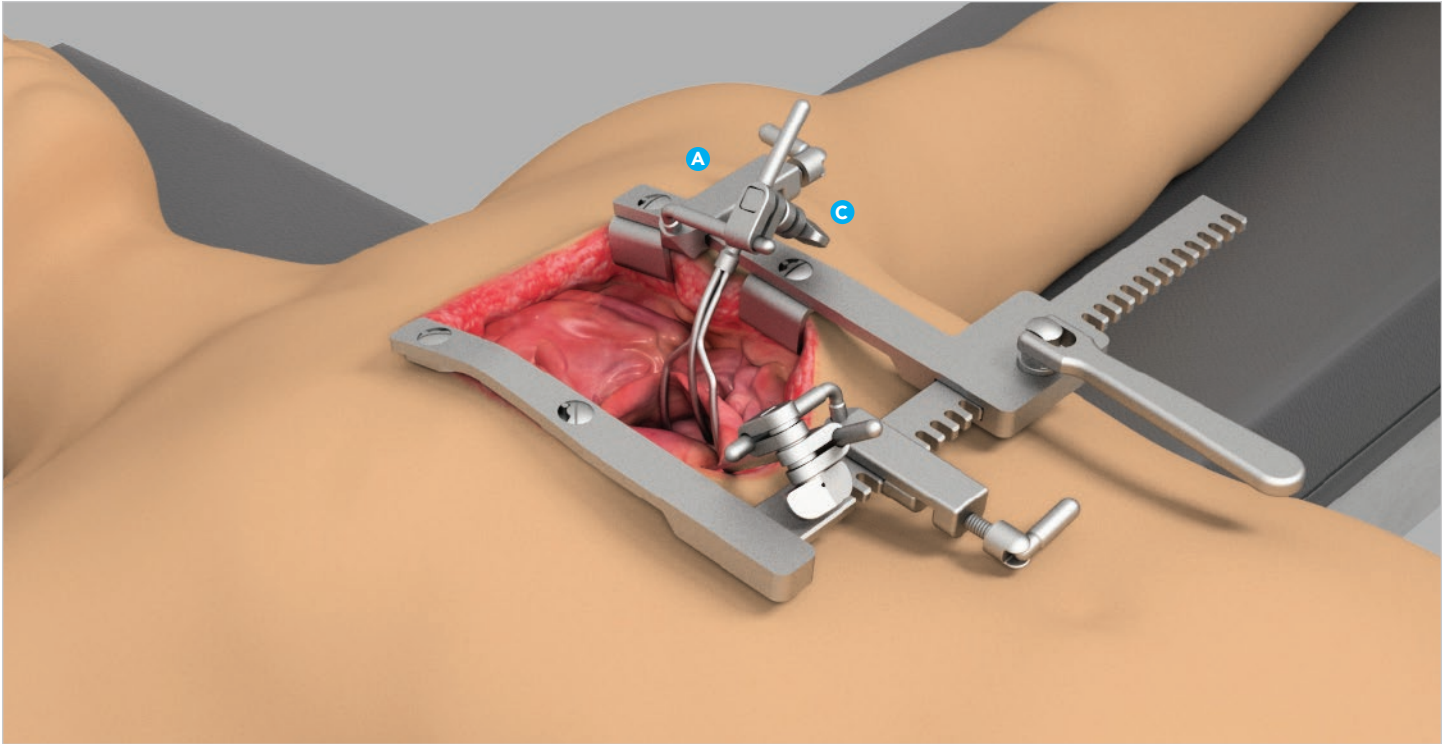
### HIP TETHER SYSTEM #SL82014

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite III Rail Clamp w/2 Cam Joints 22"	43905AC	Attaches to the rail of the OR table and holds the crossbar and S-Lock Articulating Arm in position.
B		1	Crossbar w/2 Cam Joints 7" x 19 1/2"	43990	Attaches to the rail clamp and holds the curved arms in place around the incision.
C		1	20" Curved Arm with Cleats 1	44203	Attaches to the crossbar and secures tethers in place.
D		1	20" Curved Arm with Cleats 2	44204	Attaches to the crossbar and secures tethers in place.

HIP TETHER SYSTEM #SL82014 (Continued)

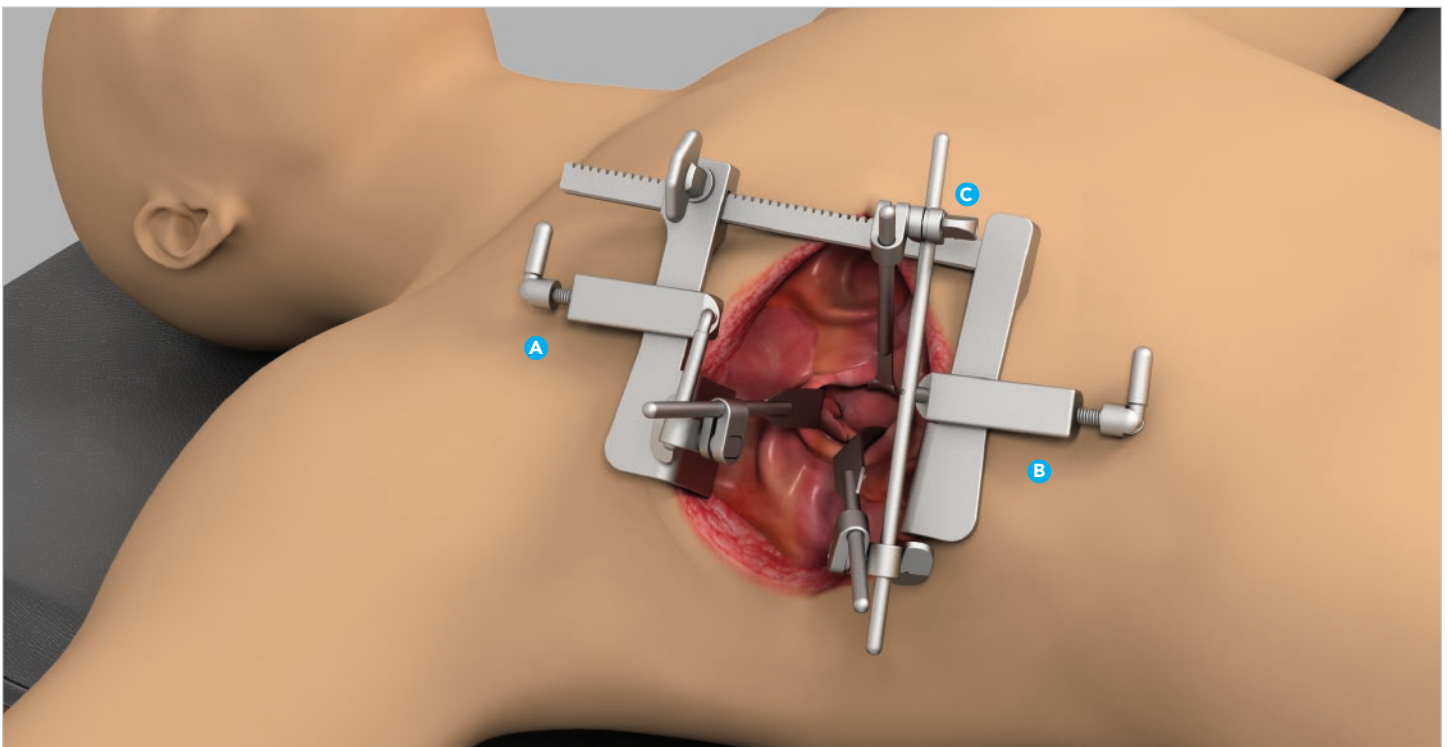
REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
E		2	24" Tethers - Pack of 5	42105	Secures retractor blades to the frame.
		1	Femoral Neck Elevator	45300	Femur elevation.
		2	Curved Cobra Gold 12 1/2"	45302C	Acetabulum exposure.
		2	Curved Hohmann Narrow Purple 12"	45306C	Acetabulum exposure.
		1	Curved Hohmann Wide 12"	45307	Acetabulum exposure.
		1	Curved Dual Prong 12"	45308	Acetabulum exposure.
		1	S-Lock Articulating Arm	SL42190	Attaches to the rail clamp and holds long Hibbs blade in place during dissection and closing.
		1	Hibbs w/Teeth Long 25mm x 75mm	SL46411T	Muscle retraction during dissection and closing.
		1	Rail Extender 20" Single Clamp	41938	Attaches to OR table rail to provide more attachment options for the rail clamp. Required to use Hip System with Hana® Table or leg positioning systems.
		1	Instrument Case 26" x 10" x 5"	50000BL	Allows for sterilization, storage, and transportation of instruments.
		1	Instrument Case 22" x 11" x 3 1/2"	50000G	

## Sternotomy \*



\* Shown with Morse Sternal Spreader ( #300251 )

## Thoracotomy \*\*



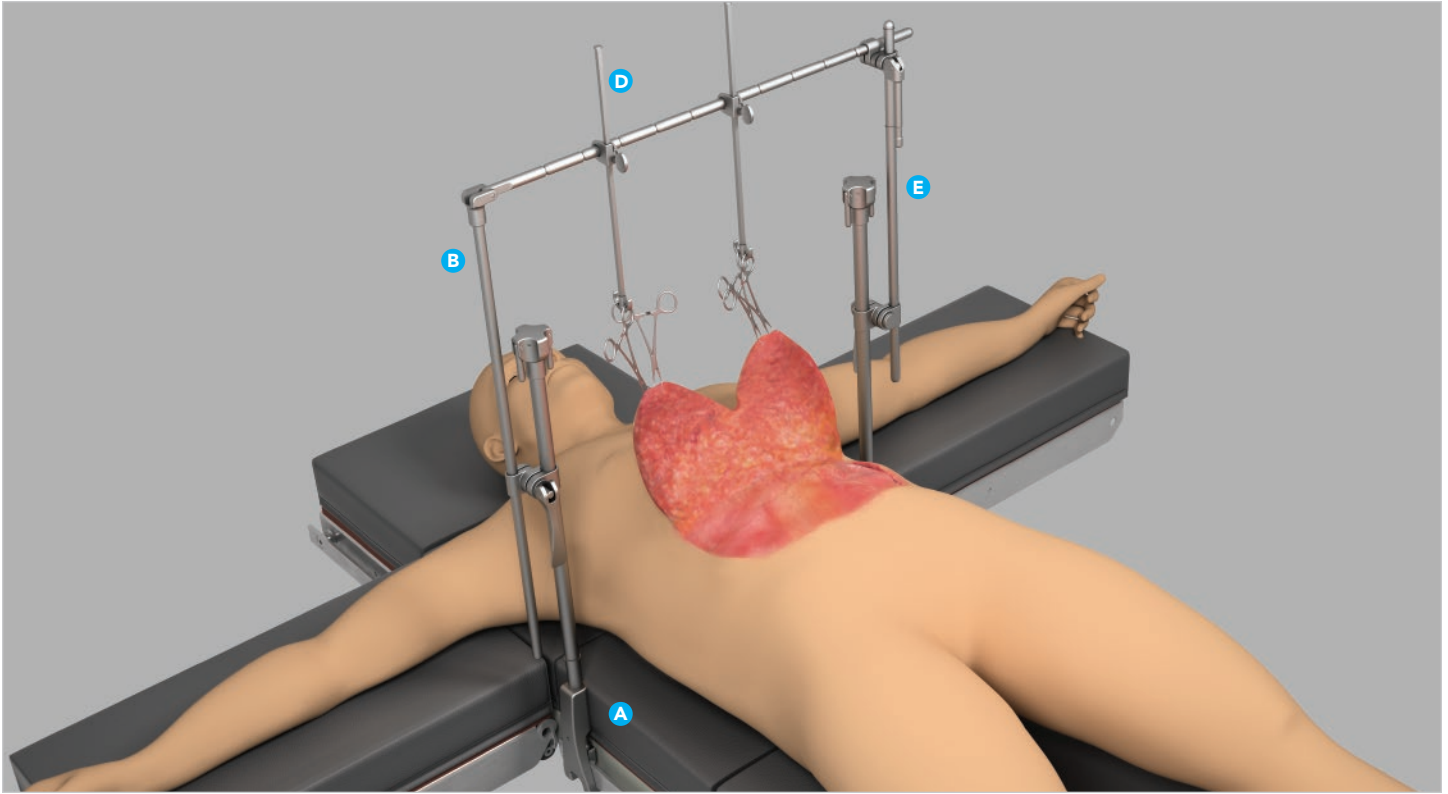
\*\* Shown with thoracotomy spreader, not sold by Thompson Surgical.



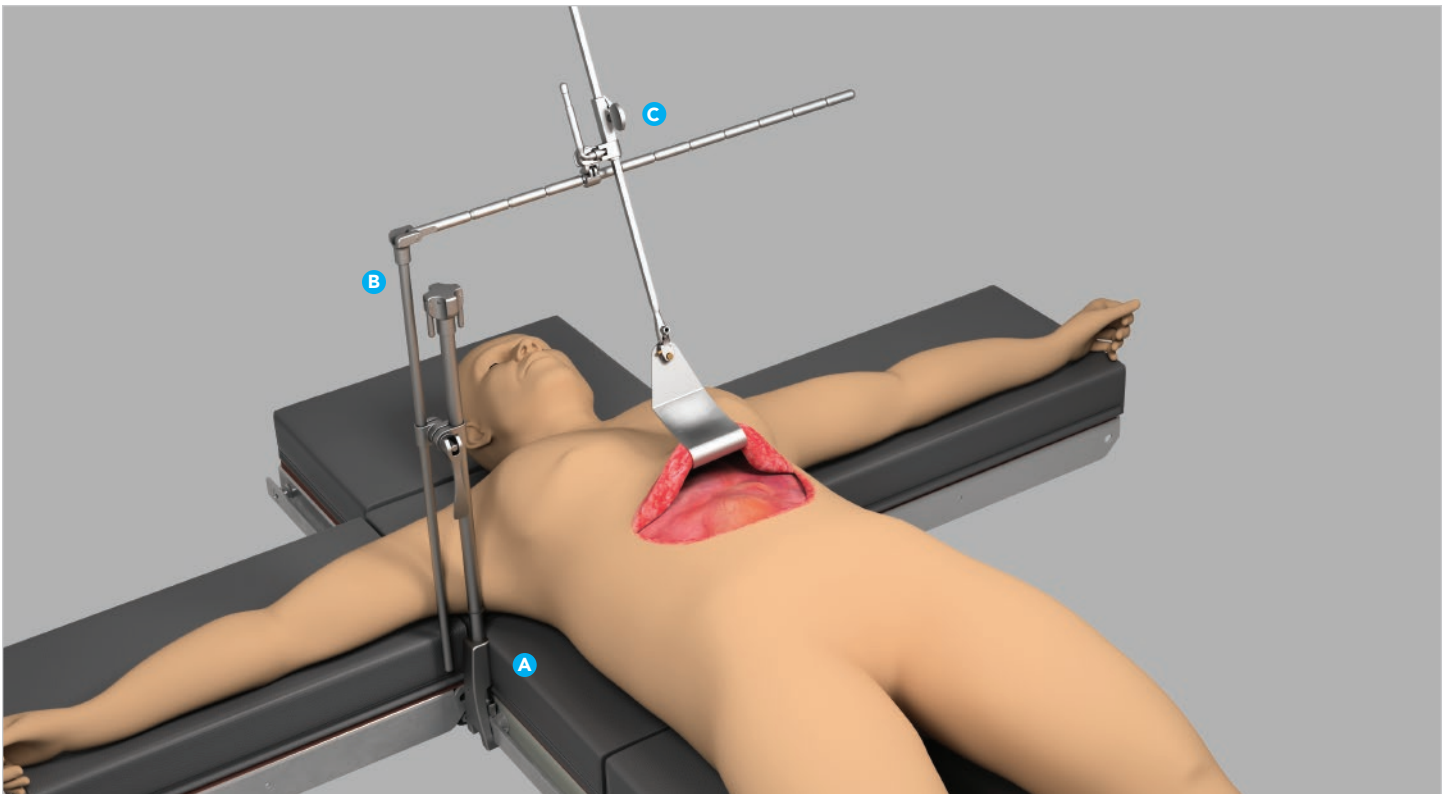
**BOLLING MITRAL VALVE RETRACTOR SYSTEM #91072CV**

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		2	CV Clamp L-Bar 2"	47200N	Mounts to sternal or rib retractors and holds one Universal Joint.
B		1	CV Clamp T-Bar 8"	47201N	Mounts to sternal or rib retractors and holds multiple Universal Joints.
		1	CV Clamp L-Bar 6" x 8"	47202N	Mounts to sternal or rib retractors and holds multiple Universal Joints.
C		3	Universal Joint	47204	Attaches retractors to CV Clamps.
		1	Malleable Paddle 5"	43100	Malleable atrial or septal retraction
		1	Malleable Paddle 6 1/2"	43101	
		1	Malleable Paddle 8"	43102	
		1	Cushing 5"	43103	Atrial retraction during transeptal approach.
		1	Cushing 6 1/2"	43104	
		1	Cushing 8"	43105	
		1	Small Basket 5"	43106	Left atrial wall retraction.
		1	Small Basket 6 1/2"	43107	
		1	Small Basket 8"	43108	
		1	Medium Basket 5"	43109	
		1	Medium Basket 6 1/2"	43110	
		1	Medium Basket 8"	43111	
		1	Large Basket 5"	43112	Left atrial wall retraction.
		1	Large Basket 6 1/2"	43113	
		1	Large Basket 8"	43114	
		1	Instrument Case	50000BOL	Organizes blades and frame components.

## Panniculectomy


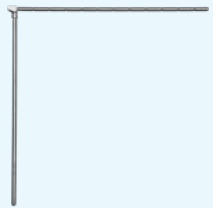

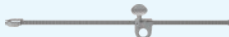



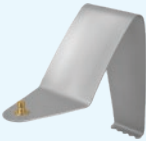



## Tummy Tuck




**BODY CONTOURING SYSTEM #SL82016**

Non S-Lock system also available, may require a longer lead time.

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A		1	Elite III Rail Clamp with 1 Cam Joint 22"	43904AC	Attaches to the rail of the OR table and holds the 90° rod in position.
B		1	Collapsible 90° Rod with Grooves	44734	Attaches to the rail clamp and holds the handles in place.
C		1	Micro-Adjustable Clip-on Quick Angle 20 1/2"	SL45007PGP	Attaches retractor blades to the frame and angles retractor blades as needed.
D		2	Towel Clip Micro-Adjustable	35028	Attaches towel clips to the frame and provides precise micro adjustments.
		2	T-Handle	60020	May be used on Quick Angle Handle to angle blade 45° up or down.
		1	Towel Clip Hook 45mm x 64mm (1 3/4" x 2 1/2")	SO48001	Attaches to the Micro-Adjustable Handle to hold towel clips as needed.
		1	Fence 102mm x 102mm (4" x 4")	SO46134	Abdominal or incisional wall retraction
		1	Tummy Tuck 76mm x 140mm (3" x 5 1/2")	SO46400	Abdominal muscle exposure for plication.
		1	Instrument Case 26" x 10" x 5"	50000BL	Sterilization and storage of instruments.

**BILATERAL EXPANSION KIT \* #SL82022**

REF	IMAGE	QTY	ITEM DESCRIPTION	PART #	APPLICATION
A	See above	1	Elite III Rail Clamp with 1 Cam Joint 22"	43904AC	Attaches to the rail of the OR table and holds the straight arm in position.
E		1	Straight Arm with 1 Cam Joint 20"	44120C	Attaches to rail clamp and 90° rod for bilateral set ups.
	Shown above	1	Instrument Case 26" x 10" x 5"	50000BL	Sterilization and storage of instruments.

\* The Bilateral Expansion Kit is recommended for pannus weighing over 25 lbs. and offers greater stability. Accessory Blade Kit ( # SL80043A ) also available.

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Other patents pending.

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