

# Thompson Retractor

Uncompromised Exposure™



## Surgical Atlas

THIRD EDITION

Suggested Setups for Thompson Retractor Systems

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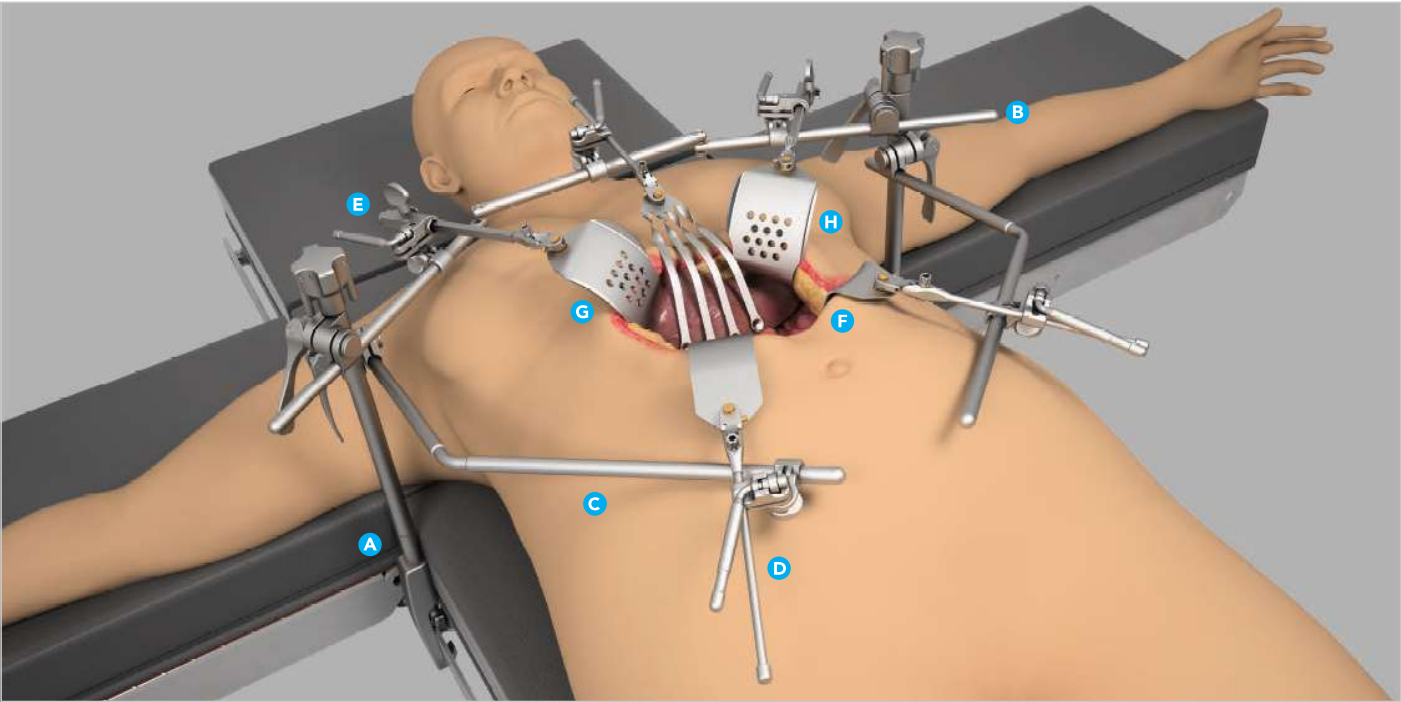
#### NOTICE:

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

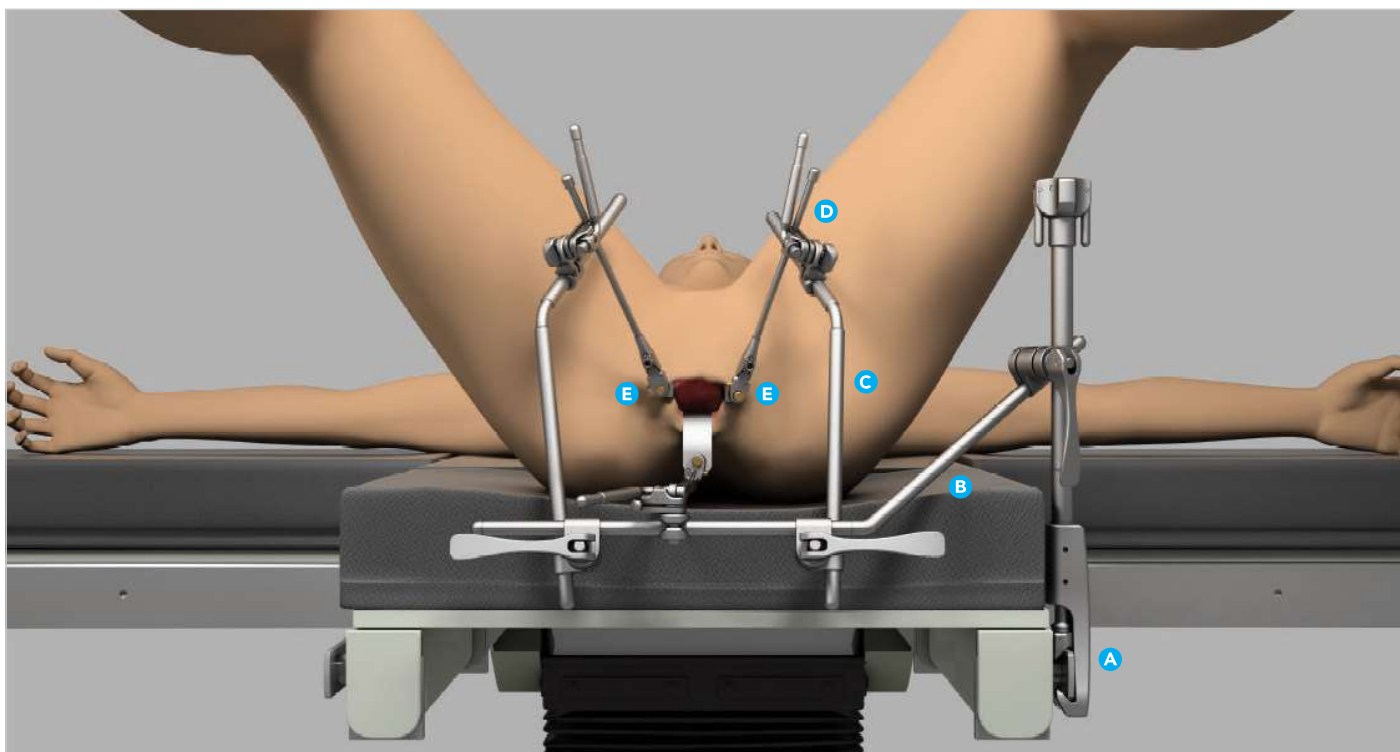
Non S-Lock system also available, may require a longer lead time.

| 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.  |

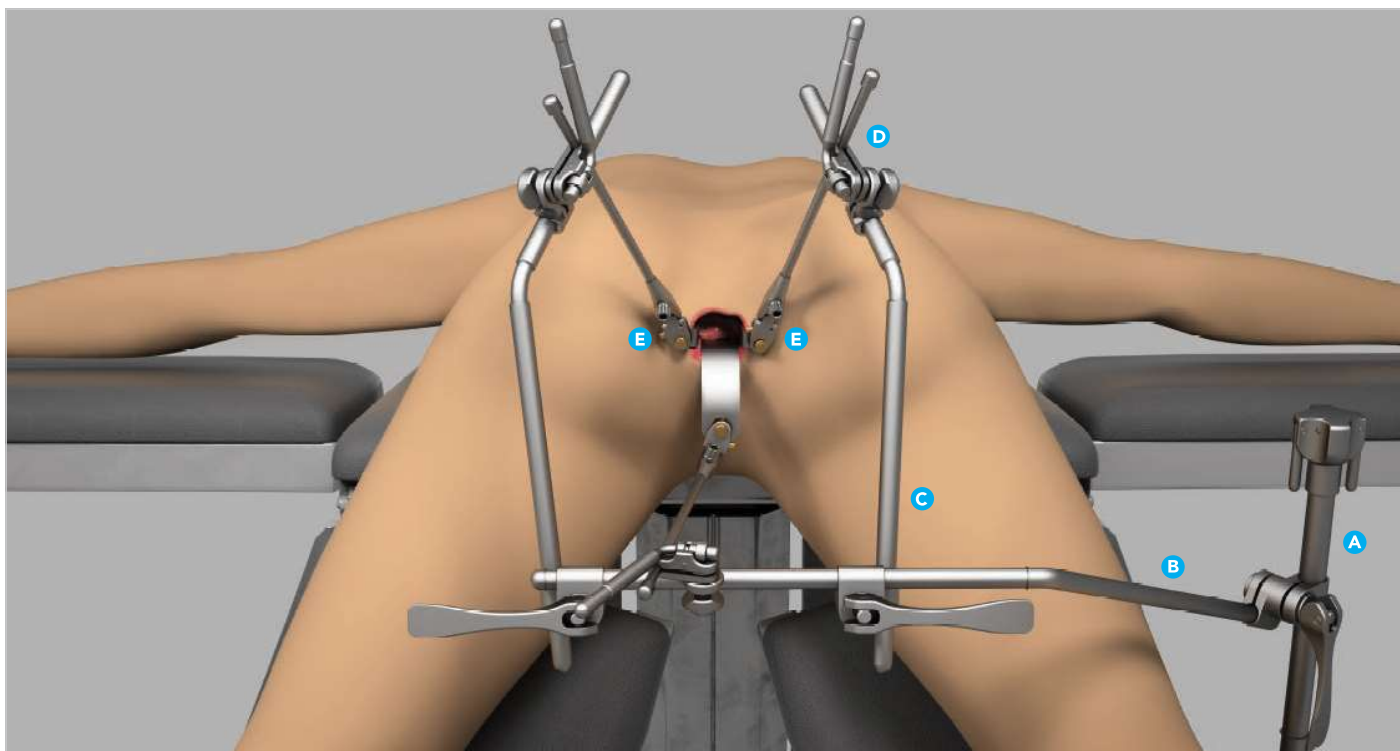
**BARIATRIC SYSTEM #SL82001 (Continued)**

| 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   | Splanchnic 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



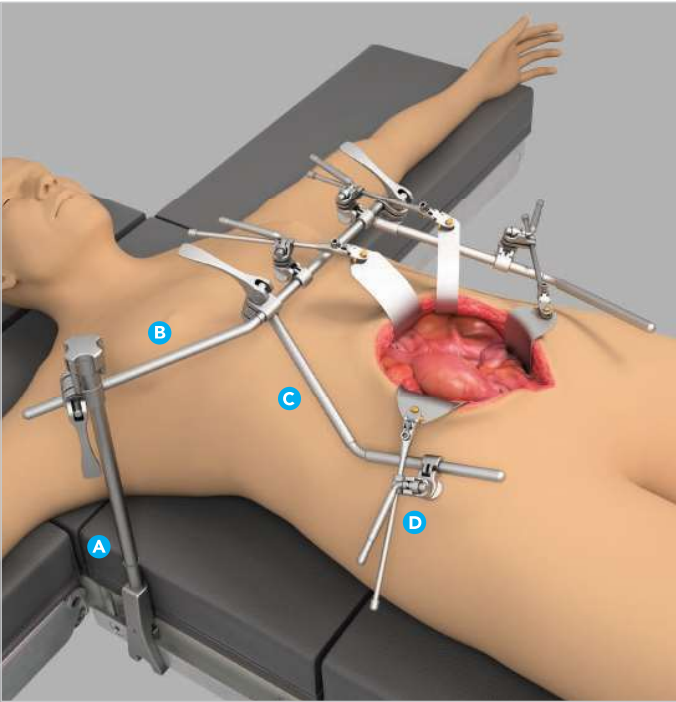
## COLON / RECTAL SYSTEM #SL82002

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

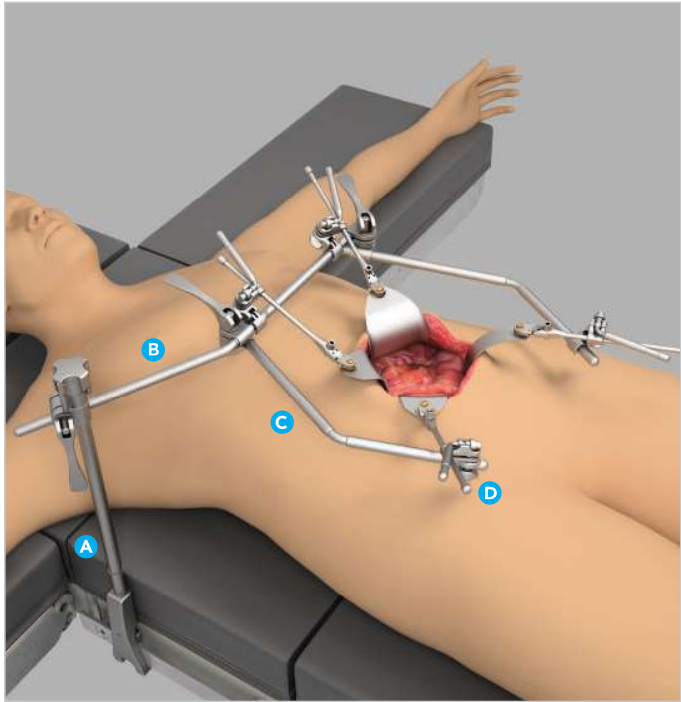
| REF | IMAGE   | QTY | ITEM DESCRIPTION                                    | PART #     | APPLICATION  |
|-----|---|-----|---|------------|--|
| A   |    | 1   | Elite III Rail Clamp with 1 Cam Joint 18"           | 43902AC    | Attaches to the rail of the OR table and holds the crossbar in position.   |
| 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.

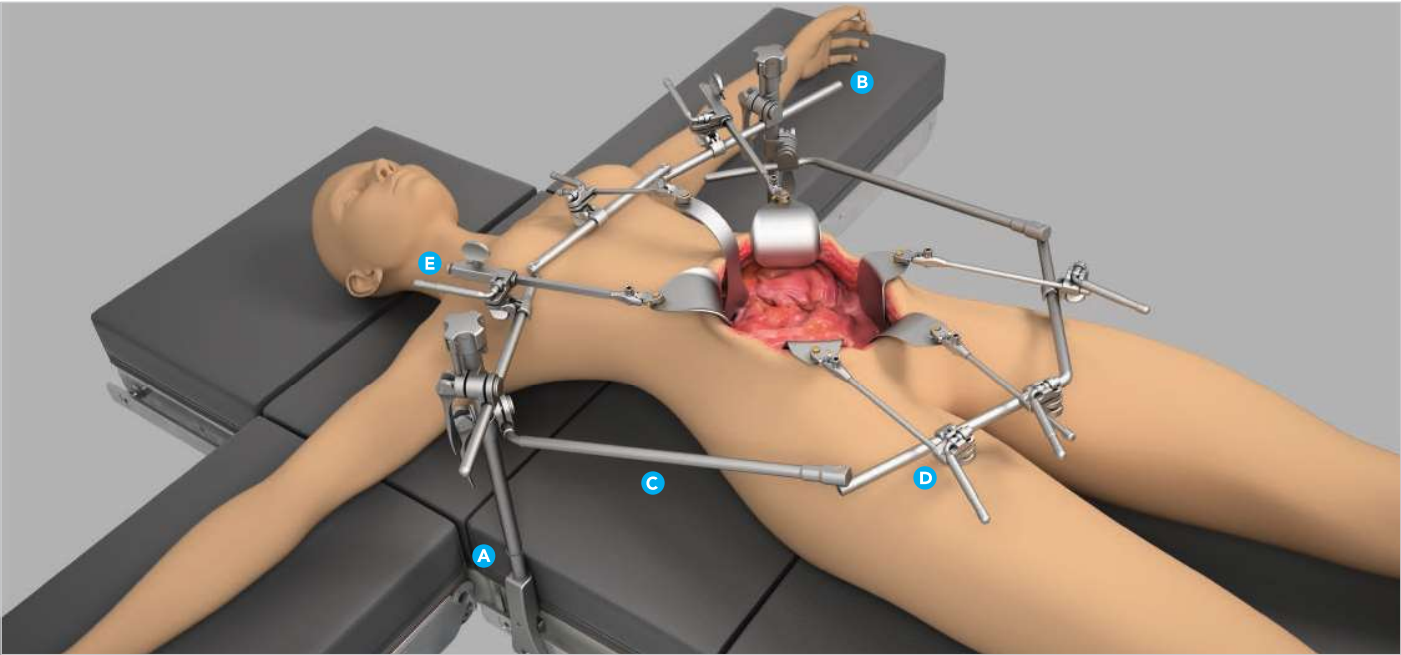
| REF | IMAGE | QTY | ITEM DESCRIPTION                            | PART #     | APPLICATION  |
|-----|-------|-----|---|------------|--|
| A   |       | 1   | Elite III Rail Clamp with1 Cam Joint 18"    | 43902AC    | Attaches to the rail of the OR table and holds the crossbar in position.   |
| B   |       | 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

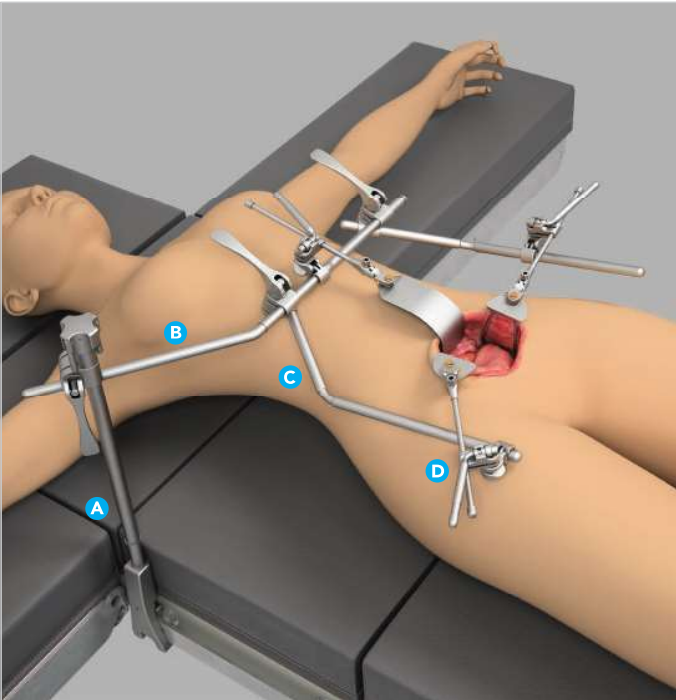
Non S-Lock system also available, may require a longer lead time.

| 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.            |

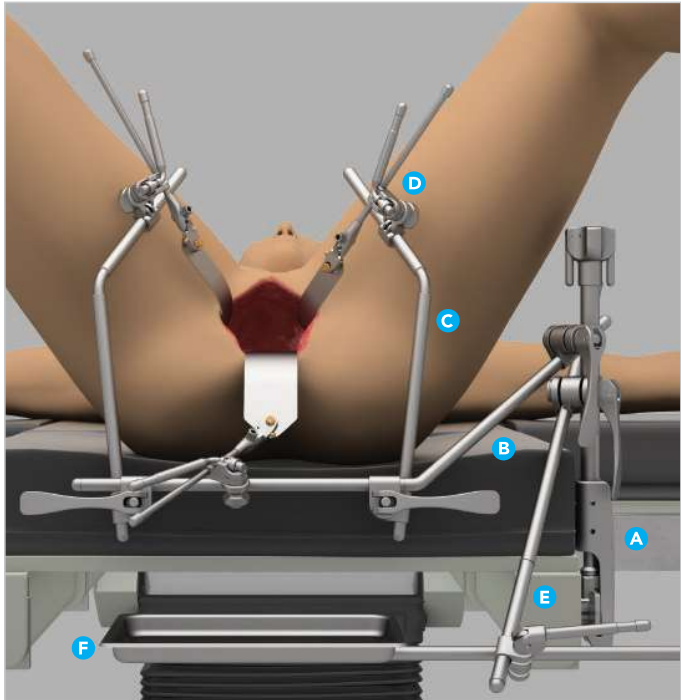
## GYN ONCOLOGY SYSTEM #SL82011 (Continued)

| 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

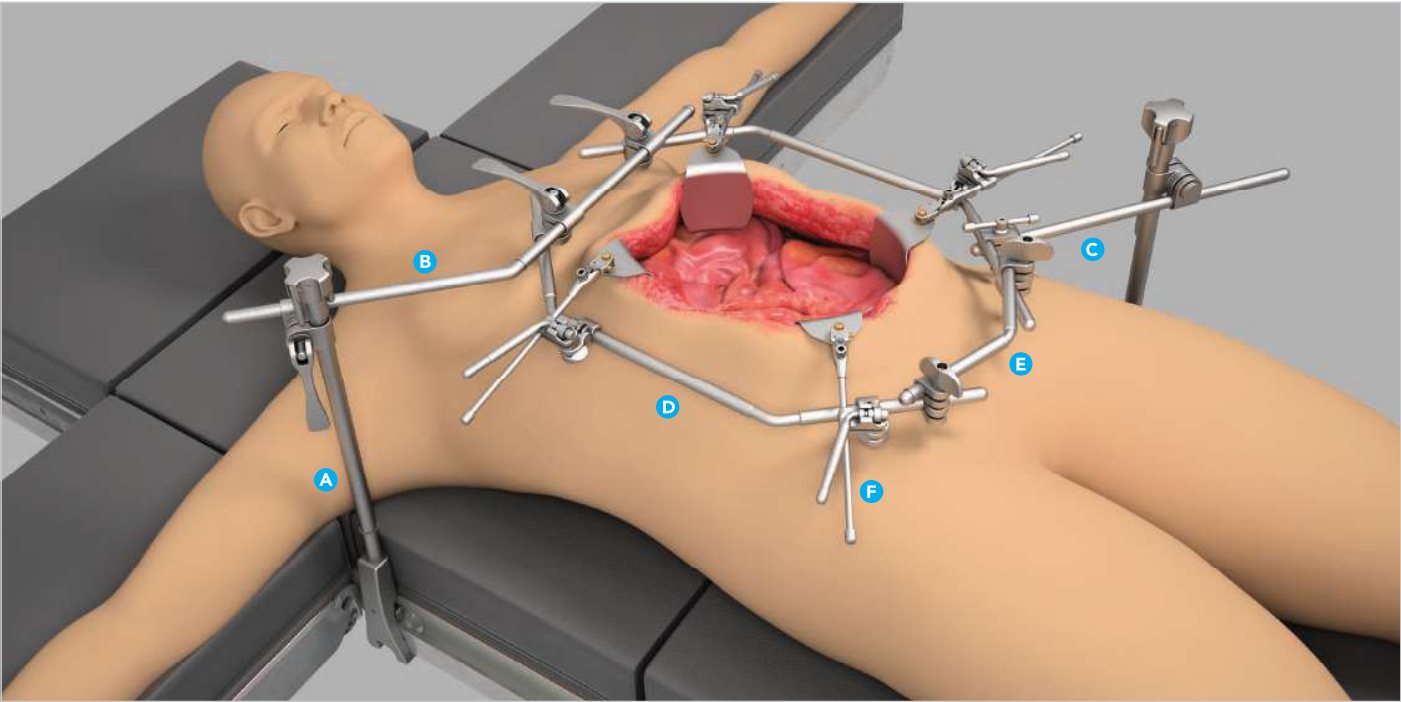
Non S-Lock system also available, may require a longer lead time.

| 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.

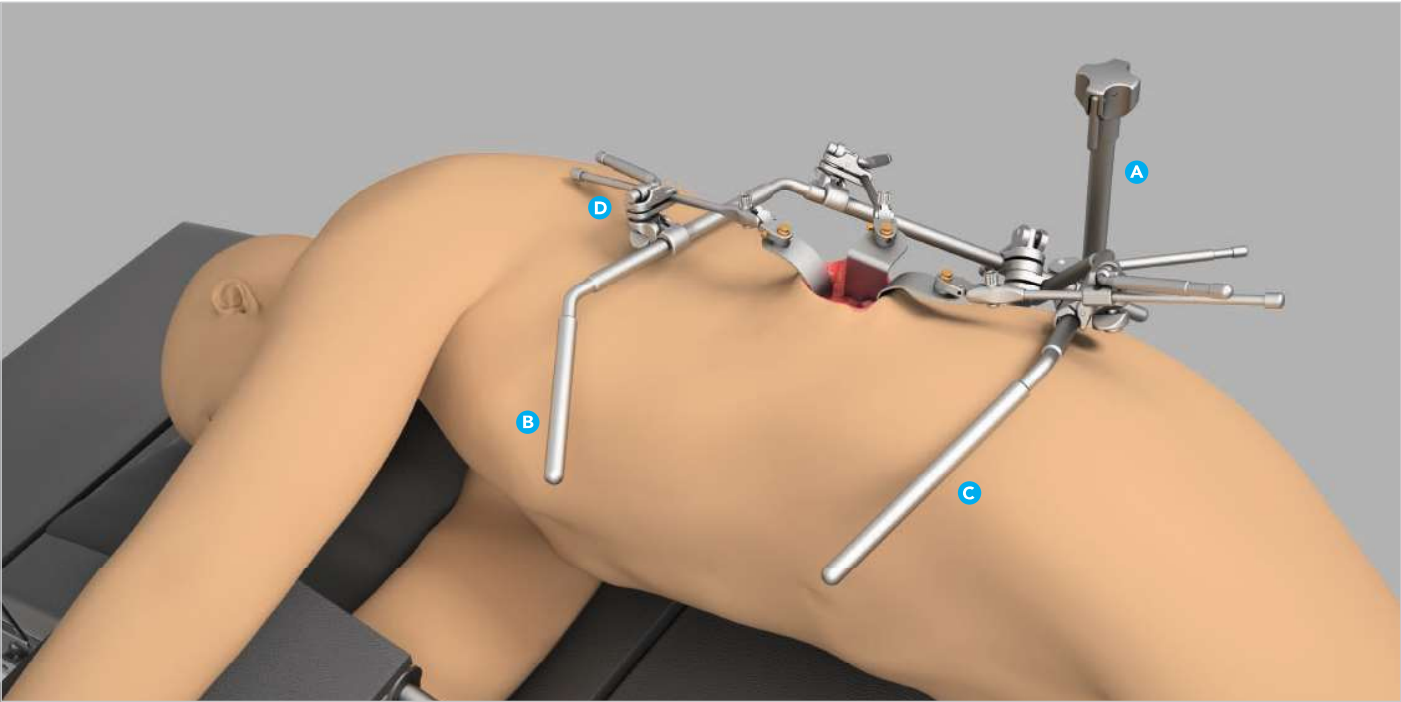
| REF | IMAGE | QTY | ITEM DESCRIPTION                           | PART #  | APPLICATION  |
|-----|-------|-----|--|---------|--|
| A   |       | 2   | Elite III Rail Clamp with 1 Cam Joint 18"  | 43902AC | Attaches to the rail of the OR table and holds the crossbar and extension arm in position.   |
| 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

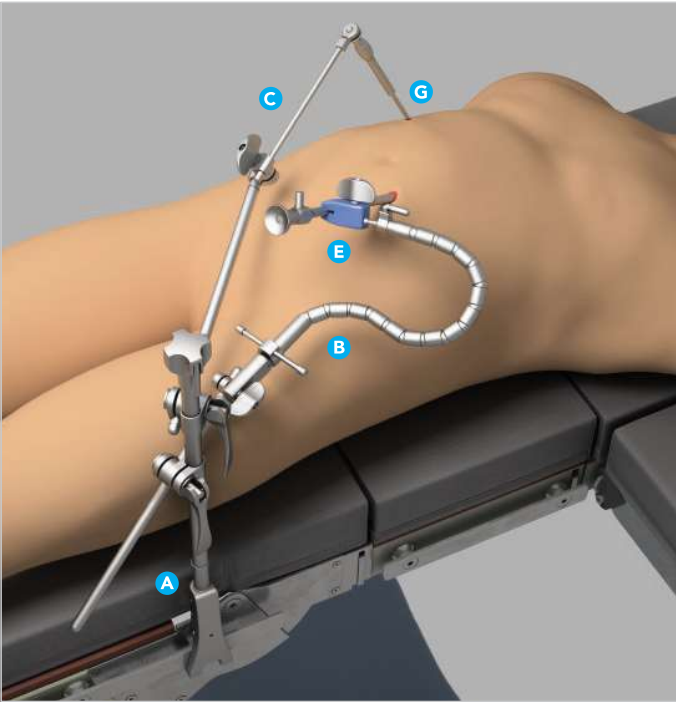
Non S-Lock system also available, may require a longer lead time.

| REF | IMAGE | QTY | ITEM DESCRIPTION                            | PART #     | APPLICATION   |
|-----|-------|-----|---|------------|---|
| A   |       | 1   | Elite III Rail Clamp with1 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.  |

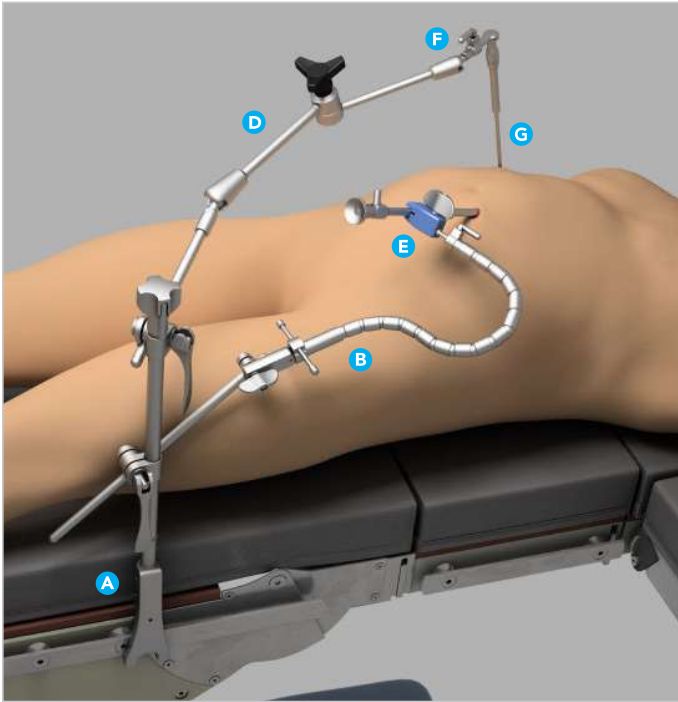
## KIDNEY SYSTEM #SL82005 (Continued)

| 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



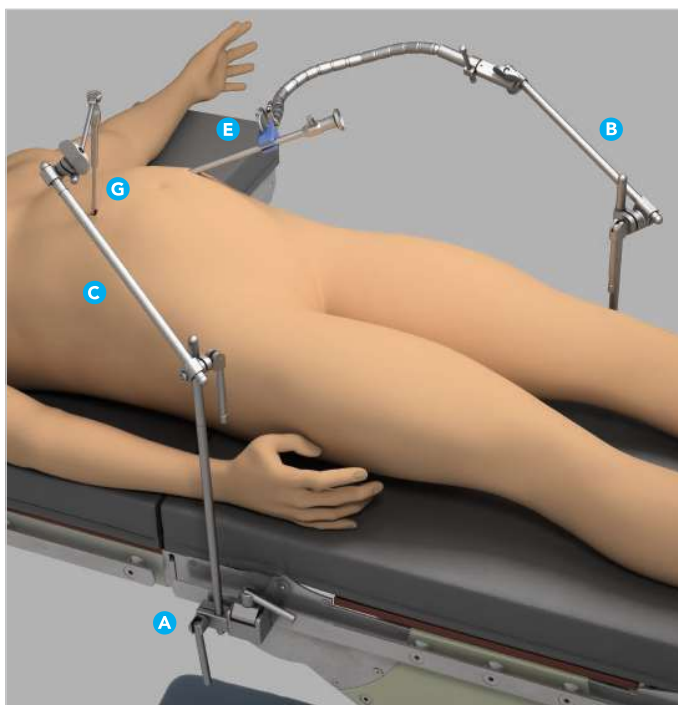
Elite Articulating Arm + Flexible Holder



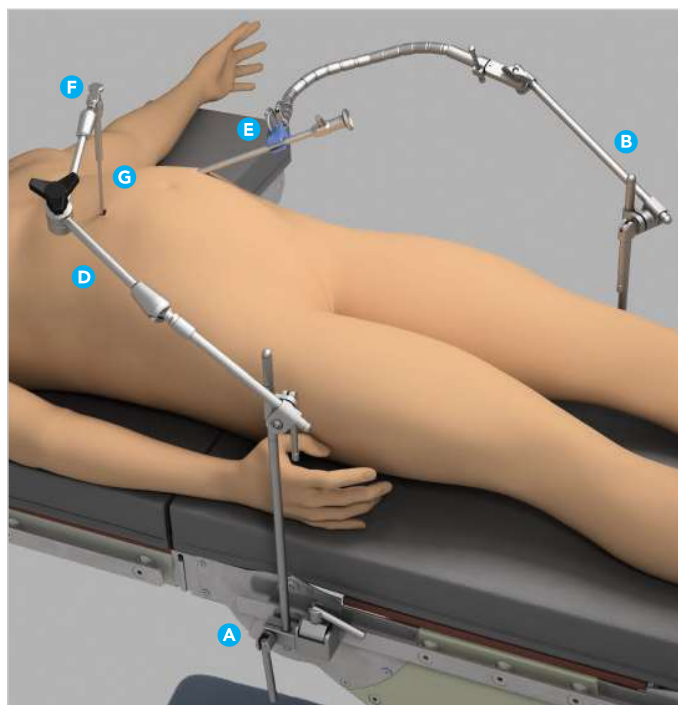
LAPAROSCOPIC PRODUCTS FOR ELITE RAIL CLAMP

| 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<br>( 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<br>Medium 5mm (203mm x 167mm x 16mm)             | SL42201  | Organ retraction.   |

## PRC Rigid Holder + Flexible Holder



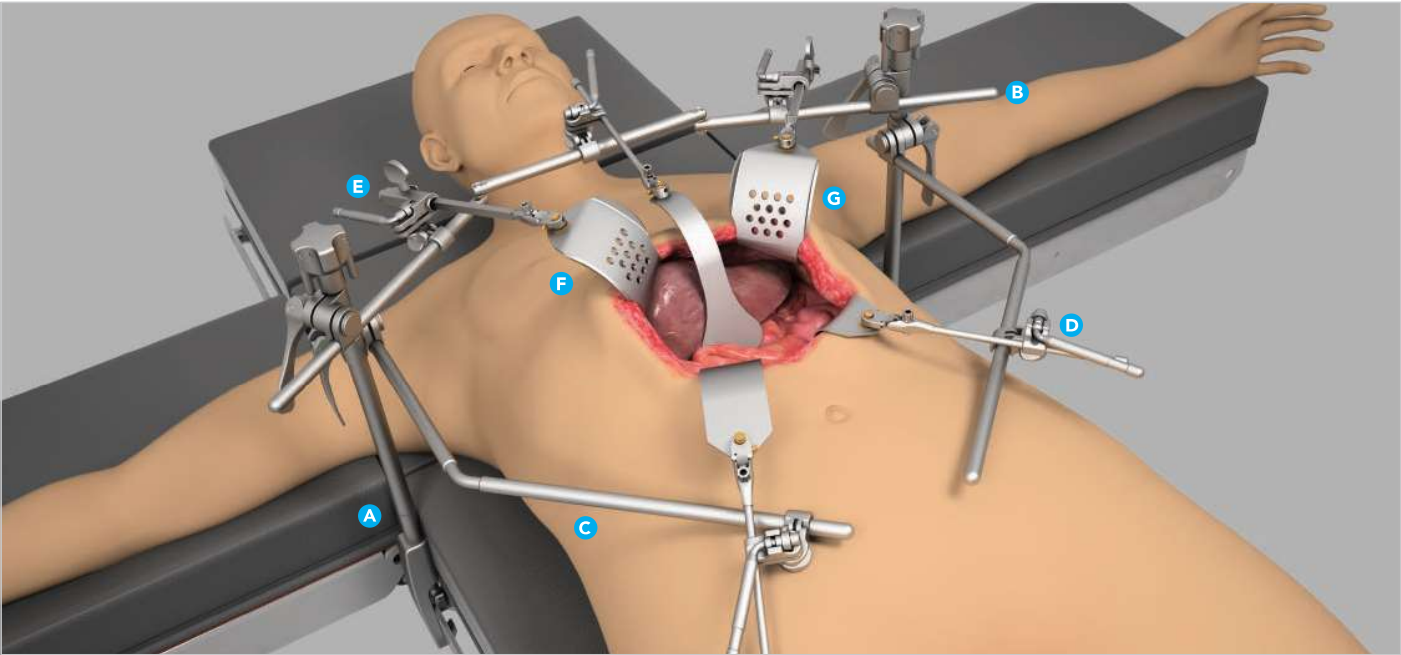
## PRC Articulating Arm + Flexible Holder



### 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<br>( 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<br>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.

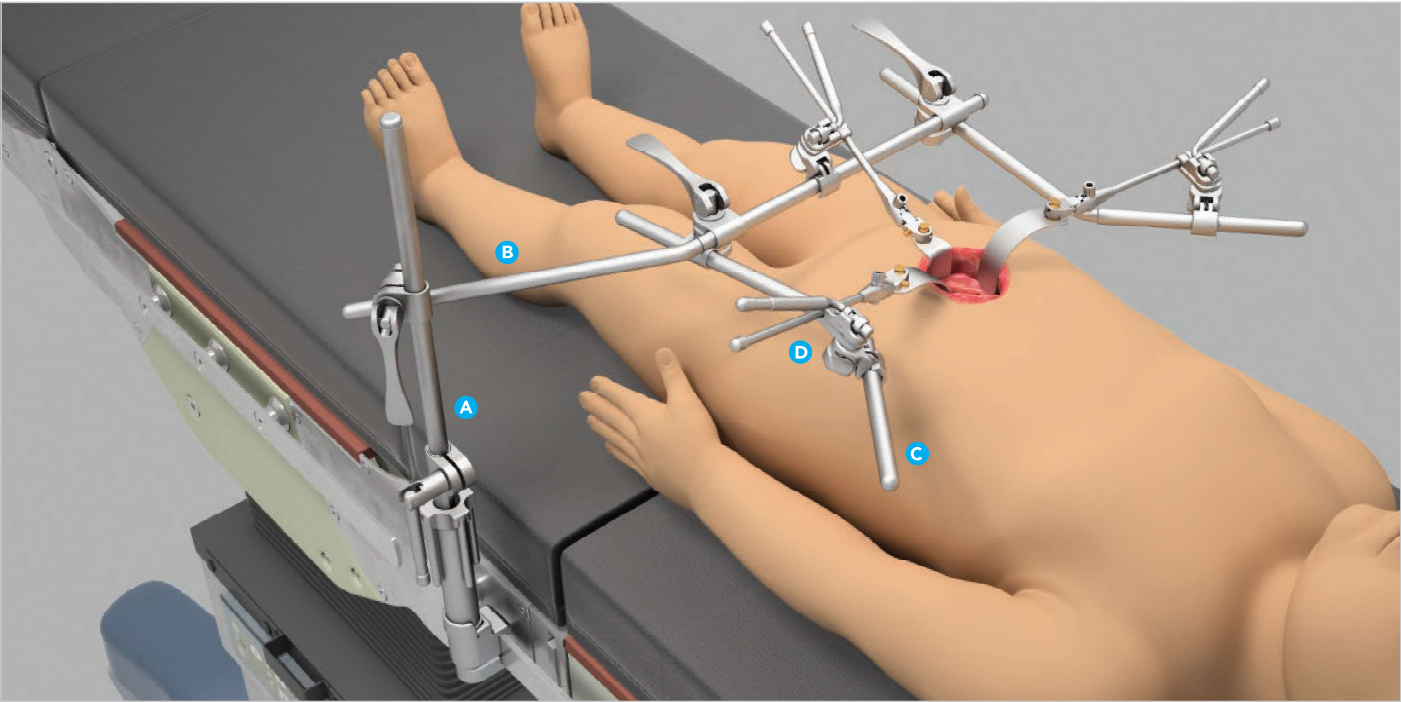
| REF | IMAGE | QTY | ITEM DESCRIPTION   | PART #     | APPLICATION   |
|-----|-------|-----|--|------------|---|
| A   |       | 2   | Elite III Rail Clamp with 2 Cam Joints 18"               | 43903AC    | Attaches to the rail of the OR table and holds the crossbar and angled arms or Lower Abdominal 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    | Costal margin or abdominal wall retraction.   |
|     |   | 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     |   |
|     |   | 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.   |

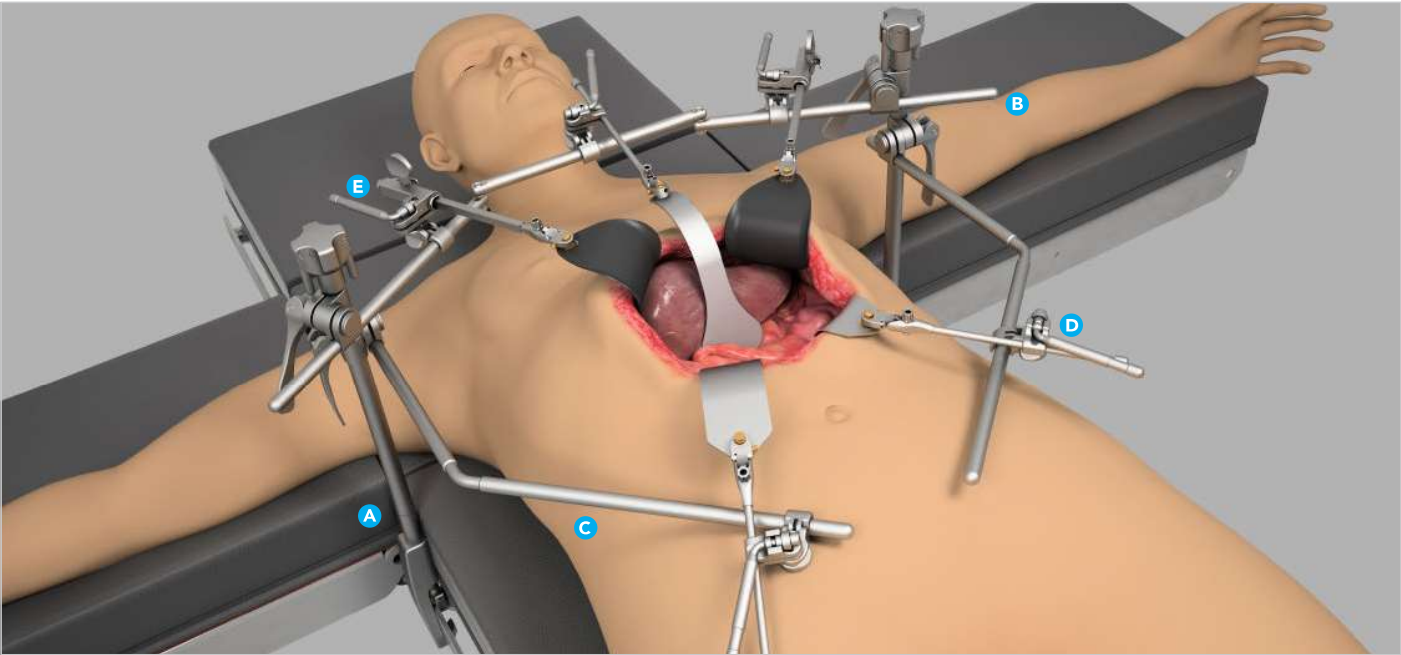


## PEDIATRIC SYSTEM #SL82006 (Continued)

| REF | IMAGE   | QTY | ITEM DESCRIPTION                        | PART #    | APPLICATION   |
|-----|---|-----|---|-----------|---|
|     |    | 2   | Malleable 13mm x 64mm (½" x 2 ½")       | SL46115   | Soft tissue retraction.   |
|     |   | 2   | Malleable 13mm x 152mm (½" x 6")        | SL46116   |   |
|     |   | 2   | Malleable 13mm x 203mm (½" 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 ½" x 2")           | SL46127   | Abdominal or incisional wall retraction.                              |
|     |   | 1   | Kelly 51mm x 64mm (2" x 2 ½")           | SL46128   |   |
|     |   | 1   | Mini-Richardson 19mm x 25mm (¾" x 1")   | SL46125   | Muscle retraction for exposure with small or mini-incision.           |
|     |   | 1   | Mini-Richardson 19mm x 50mm (¾" x 2")   | SL46125A  |   |
|     |   | 1   | Mini-Richardson 25mm x 32mm (1" x 1 ¼") | SL46126   |   |
|     |  | 1   | Balfour 76mm x 51mm (3" x 2")           | SL46140P  | Costal margin or abdominal wall retraction.                           |
|     |   | 2   | Balfour 32mm x 32mm (1 ¼" x 1 ¼")       | 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 ½" 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



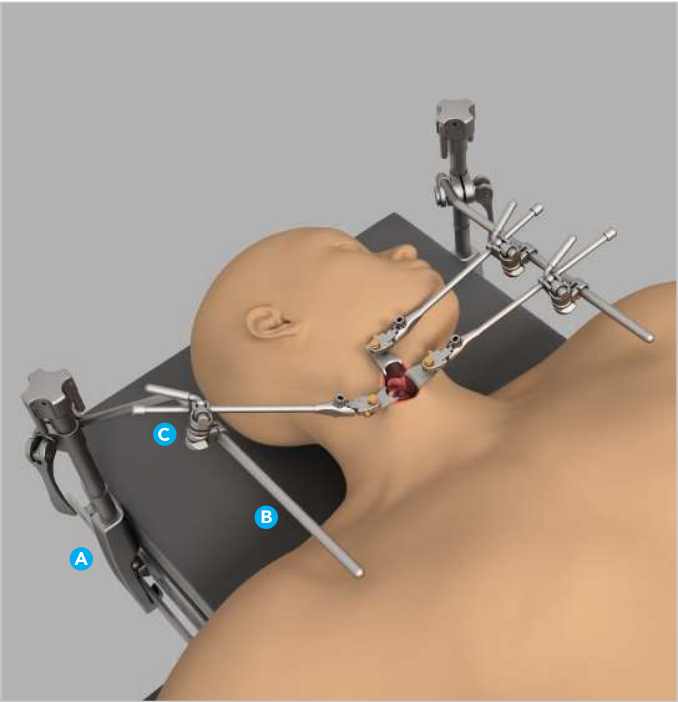
RADIOLUCENT LIVER / ONCOLOGY SYSTEM #SL82008

| 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.                 |

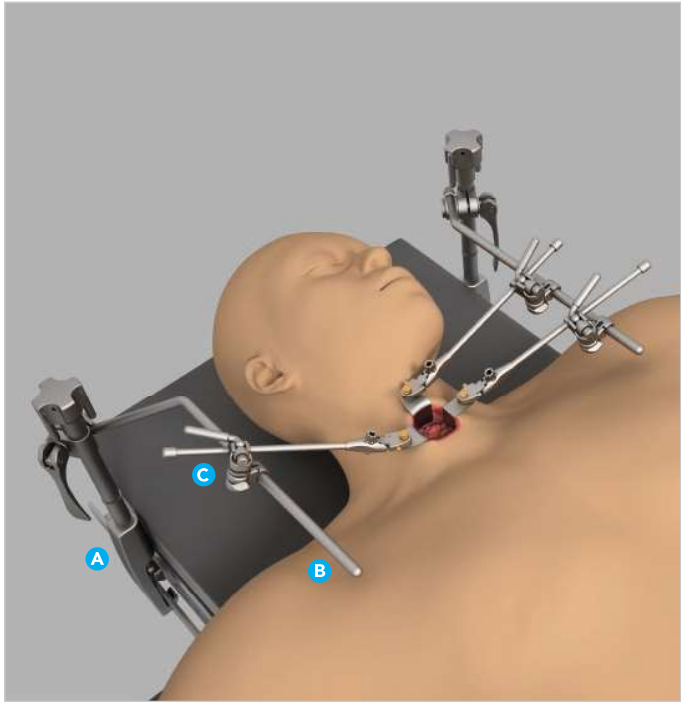
## RADIOLUCENT LIVER / ONCOLOGY SYSTEM #SL82008 (Continued)

| 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  | Abdominal wall retraction.  |
|     |            | 1   | Radiolucent Richardson 51mm x 127mm (2" x 5")             | SO46151ET   |   |
|     |  | 1   | Radiolucent Richardson 51mm x 178mm (2" x 7")             | SO46153ET   |   |
|     |            | 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

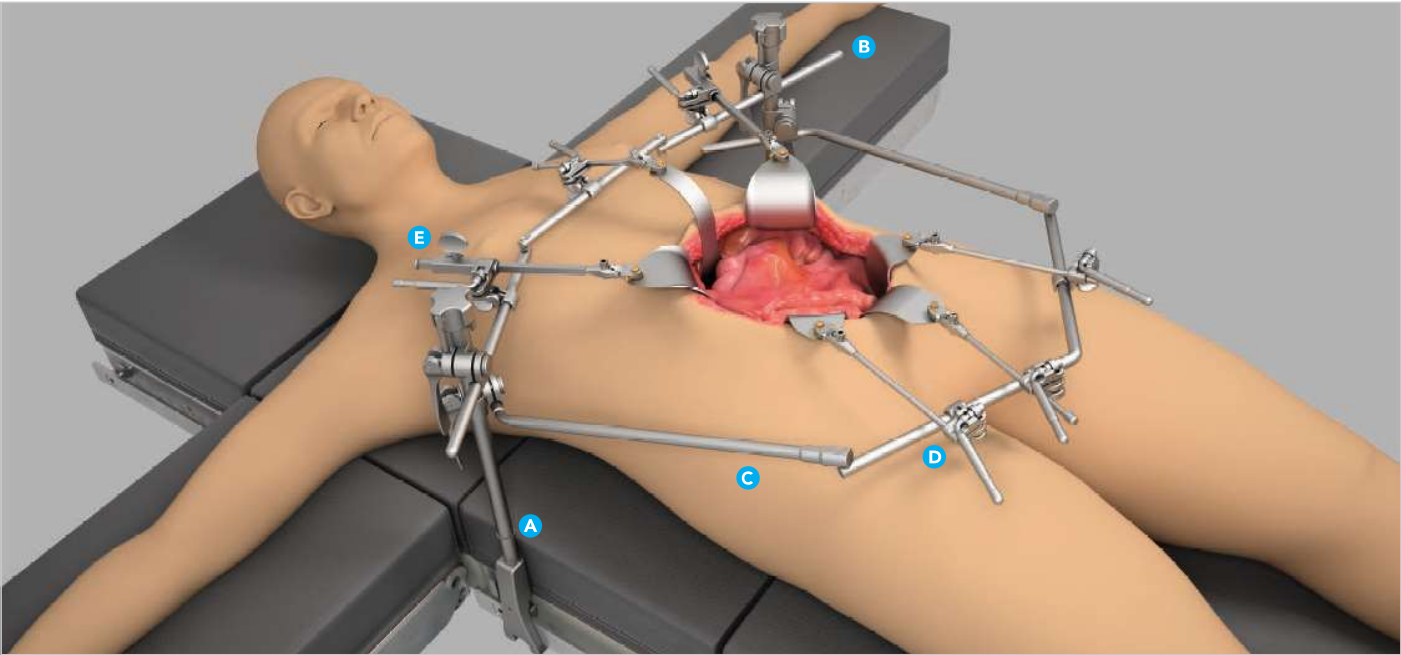
Non S-Lock system also available, may require a longer lead time.

| 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.                                    |
|     |                               | 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    | Abdominal wall retraction.   |
|     |  | 1   | Richardson 51mm x 102mm (2" x 4")              | SL46150    |  |

## SMALL INCISION SYSTEM #SL82009 (Continued)






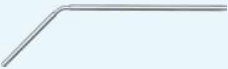


| REF | IMAGE   | QTY | ITEM DESCRIPTION   | PART #   | APPLICATION   |
|-----|---|-----|--|----------|---|
|     |    | 2   | Mini-Richardson 19mm x 25mm ( $\frac{3}{4}$ " x 1")                | SL46125  | Muscle retraction for exposure with small or mini-incision.           |
|     |   | 1   | Mini-Richardson 19mm x 51mm ( $\frac{3}{4}$ " x 2")                | SL46125A |   |
|     |   | 1   | Mini-Richardson 25mm x 32mm (1" x 1 $\frac{1}{4}$ ")               | SL46126  |   |
|     |    | 2   | Malleable 13mm x 64mm ( $\frac{1}{2}$ " x 2 $\frac{1}{2}$ ")       | SL46115  | Soft tissue retraction.   |
|     |    | 1   | Volkman Blunt 25mm x 13mm (1" x $\frac{1}{2}$ ")                   | SL46211  | Skin and shallow muscle retraction.                                   |
|     |   | 1   | Volkman Sharp 16mm x 13mm ( $\frac{5}{8}$ " x $\frac{1}{2}$ ")     | SL46212  |   |
|     |   | 1   | Volkman Blunt 16mm x 13 mm ( $\frac{5}{8}$ " x $\frac{1}{2}$ ")    | SL46213  |   |
|     |  | 1   | Murphy Sharp 25mm x 13mm (1" x $\frac{1}{2}$ ")                    | SL46214  | Skin and shallow muscle retraction.                                   |
|     |   | 1   | Murphy Blunt 25mm x 13mm (1" x $\frac{1}{2}$ ")                    | SL46215  |   |
|     |   | 1   | Murphy Blunt 19mm x 13mm ( $\frac{3}{4}$ " x $\frac{1}{2}$ ")      | SL46217  |   |
|     |  | 1   | Concave Lateral 25mm x 40mm (1" x 1 $\frac{1}{2}$ ")               | SL45157A | Medial and lateral retraction for head and neck procedures.           |
|     |   | 2   | Concave Lateral 25mm x 70mm (1" x 2 $\frac{3}{4}$ ")               | 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 $\frac{1}{4}$ " x 2 $\frac{3}{4}$ ") | 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.

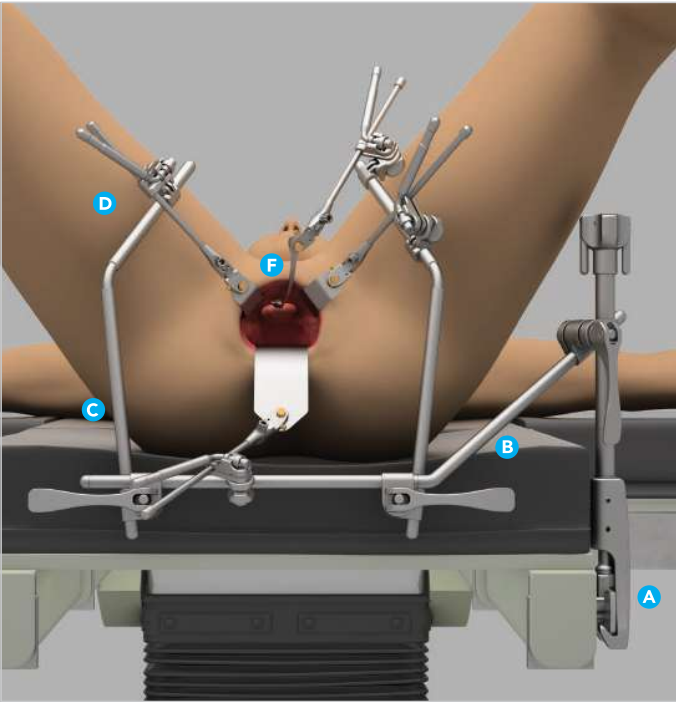
| REF | IMAGE   | QTY | ITEM DESCRIPTION   | PART #     | APPLICATION   |
|-----|---|-----|--|------------|---|
| A   |  | 2   | Elite III Rail Clamp with 2 Cam Joints 18"               | 43903AC    | Attaches to the rail of the OR table and holds the crossbar and angled arms or Lower Abdominal Bar in 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)

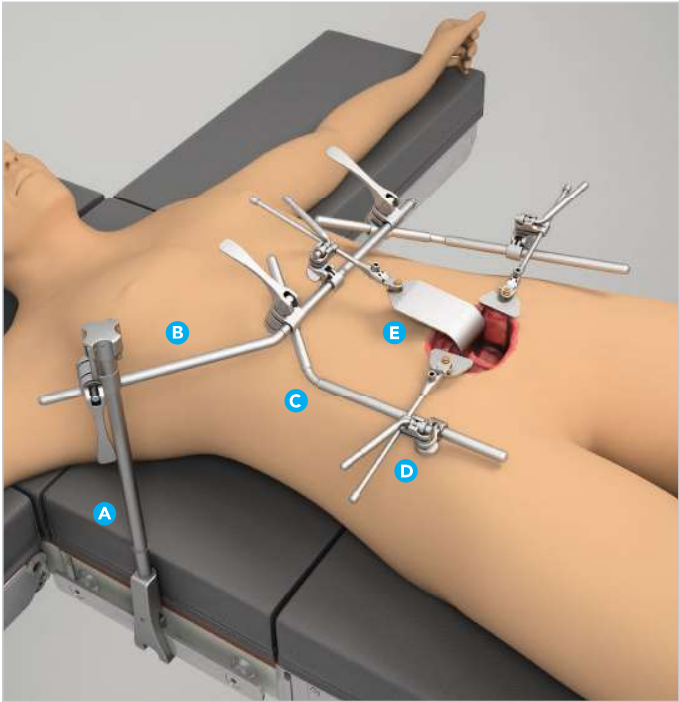
| REF | IMAGE   | QTY | ITEM DESCRIPTION                                | PART #    | APPLICATION   |
|-----|---|-----|---|-----------|---|
|     |    | 2   | T-Handle  | 60020     | May be used on Quick Angle Handle to angle blade 45° up or down.      |
|     |    | 1   | "Y" Bladder 81mm x 216mm (3 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

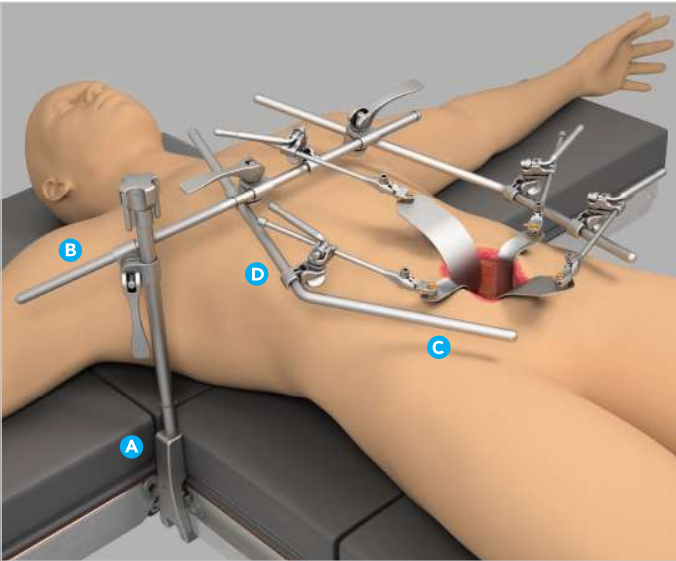
Non S-Lock system also available, may require a longer lead time.

| REF | IMAGE   | QTY | ITEM DESCRIPTION                            | PART #     | APPLICATION  |
|-----|---|-----|---|------------|--|
| A   |  | 1   | Elite III Rail Clamp with1 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.                                 |
|     |  | 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.   |

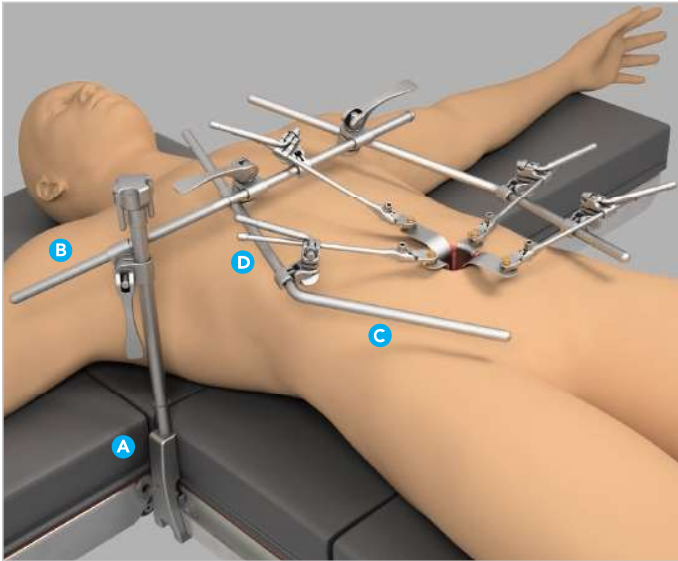
## UROLOGY SYSTEM #SL82012 (Continued)

| 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

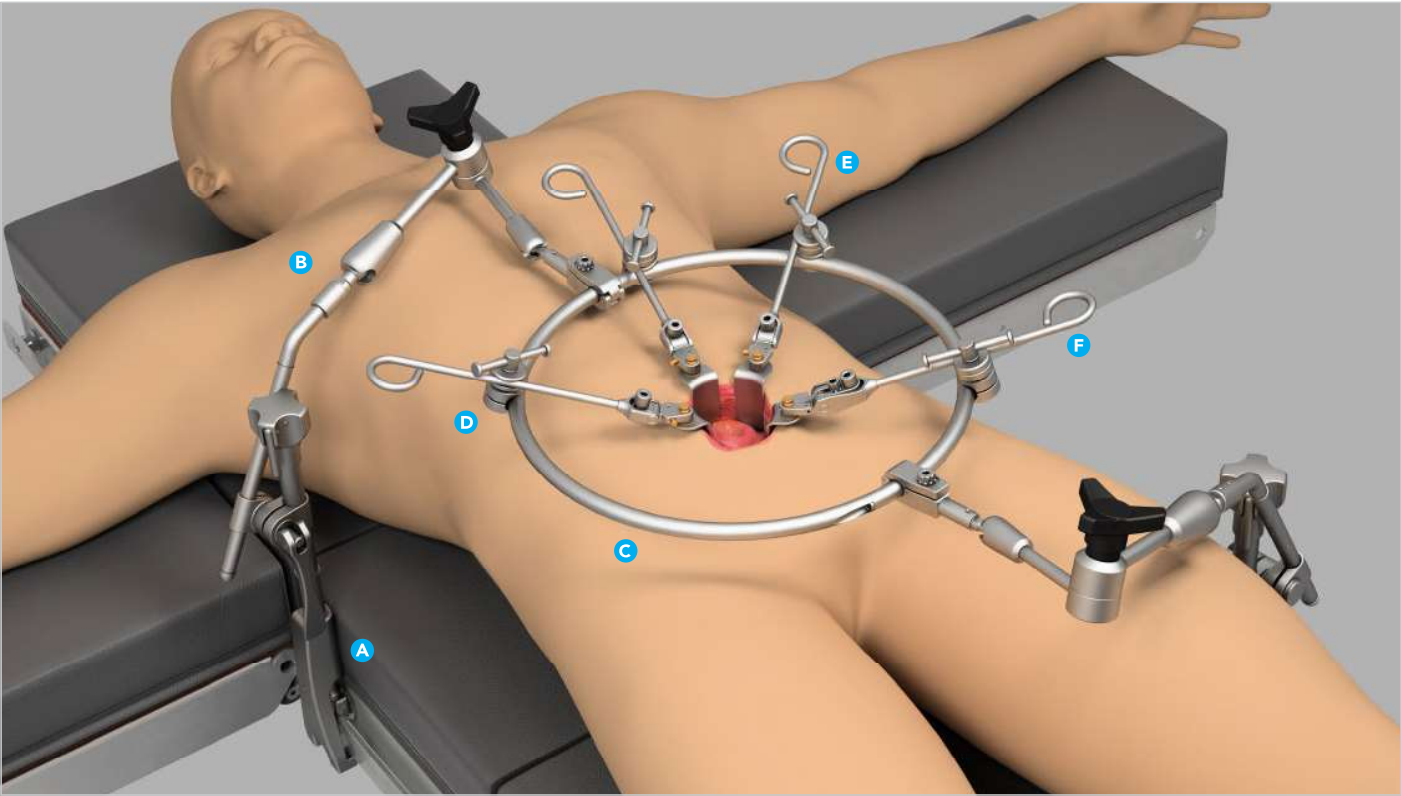
Non S-Lock system also available, may require a longer lead time.

| 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.                                 |
|     |       | 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.   |
|     |       | 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 Rigid 32mm x 200mm (1 1/4" x 7 7/8")     | SL46290RET |   |
|     |       | 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.

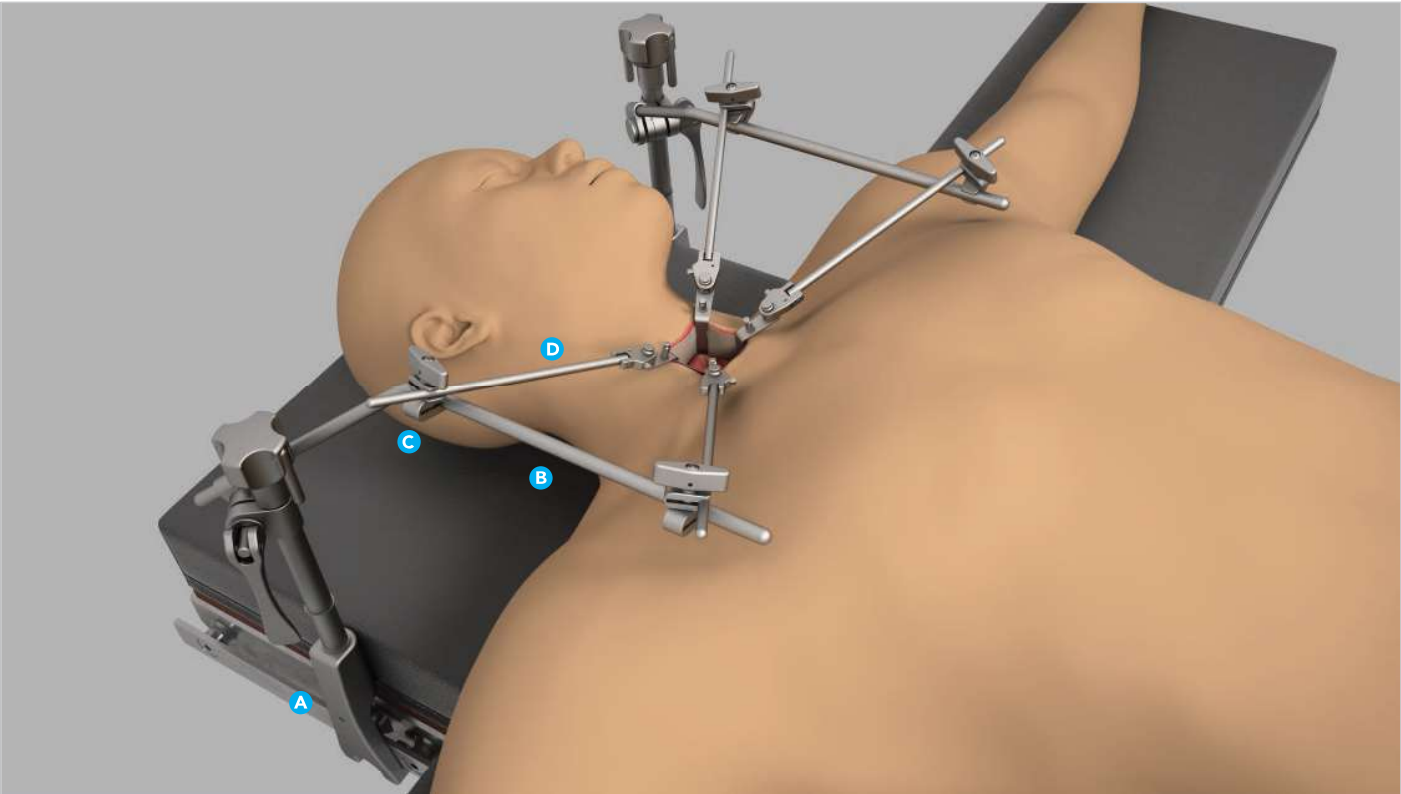
| REF | IMAGE | QTY | ITEM DESCRIPTION  | PART #   | APPLICATION  |
|-----|-------|-----|---|----------|--|
| A   |       | 2   | Elite III Rail Clamp with 1 Joint 11"<br>( 2 required for use ) | 43902ACS | Attaches to the rail of the OR table and holds the Extension Arm in position.  |
| B   |       | 2   | Extension Arm with Fixed Hinge Joint<br>( 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"<br>( 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<br>25mm x 80mm (1" x 3 1/8")  | SL46558  | Rigid, low profile vessel retraction.   |
|     |   | 4   | Radiolucent Concave Renal Vein<br>25mm x 100mm (1" x 4")     | SL46560  |   |
|     |   | 4   | Radiolucent Concave Renal Vein<br>25mm x 120mm (1" x 4 3/4") | SL46562  |   |
|     |   | 4   | Radiolucent Concave Renal Vein<br>25mm x 140mm (1" x 5 1/2") | SL46564  |   |
|     |   | 4   | Radiolucent Concave Renal Vein<br>25mm x 160mm (1" x 6 3/4") | SL46566  |   |
|     |   | 4   | Radiolucent Concave Renal Vein<br>25mm x 180mm (1" x 7")     | SL46568  |   |
|     |   | 4   | Radiolucent Concave Renal Vein<br>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 (½" x 1 ½") | 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 (½" x 2")   | SL46983AC |   |
|     |   | 4   | Bone Lever 14mm x 70mm (½" x 2 ¾") | SL46985AC |   |
|     |   | 4   | Bone Lever 14mm x 80mm (½" x 3 ⅛") | SL46986AC |   |
|     |  | 1   | Instrument Case - CCA Frame        | 50000CCAF | Allows for sterilization, storage, and transportation of instruments.   |
|     |   | 1   | Instrument Case - CCA Blades       | 50000CCAB |   |

Bilateral Anterior Cervical












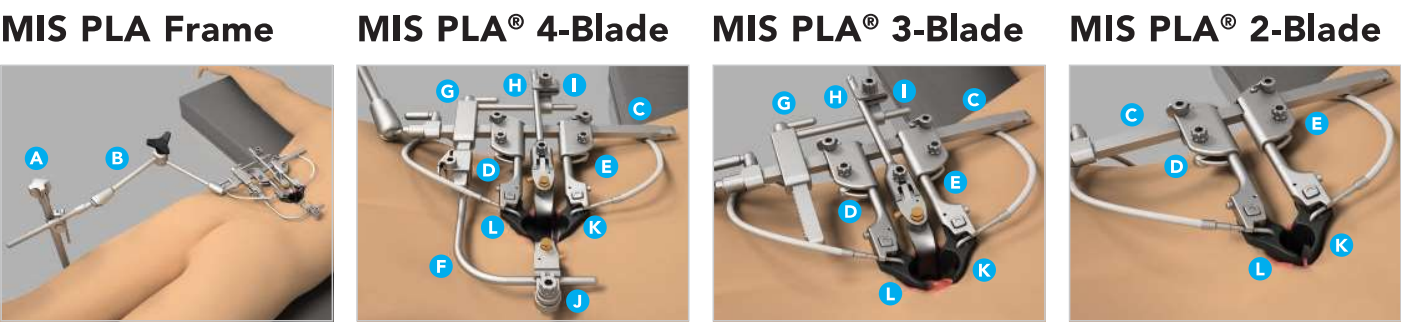
CERVICAL SYSTEM #SL82017

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 ¾" | 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 Micro 14mm x 70mm (1/2" x 2 3/4")      | SL46524AT |  |
|     |                               | 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® SYSTEM #SL82021

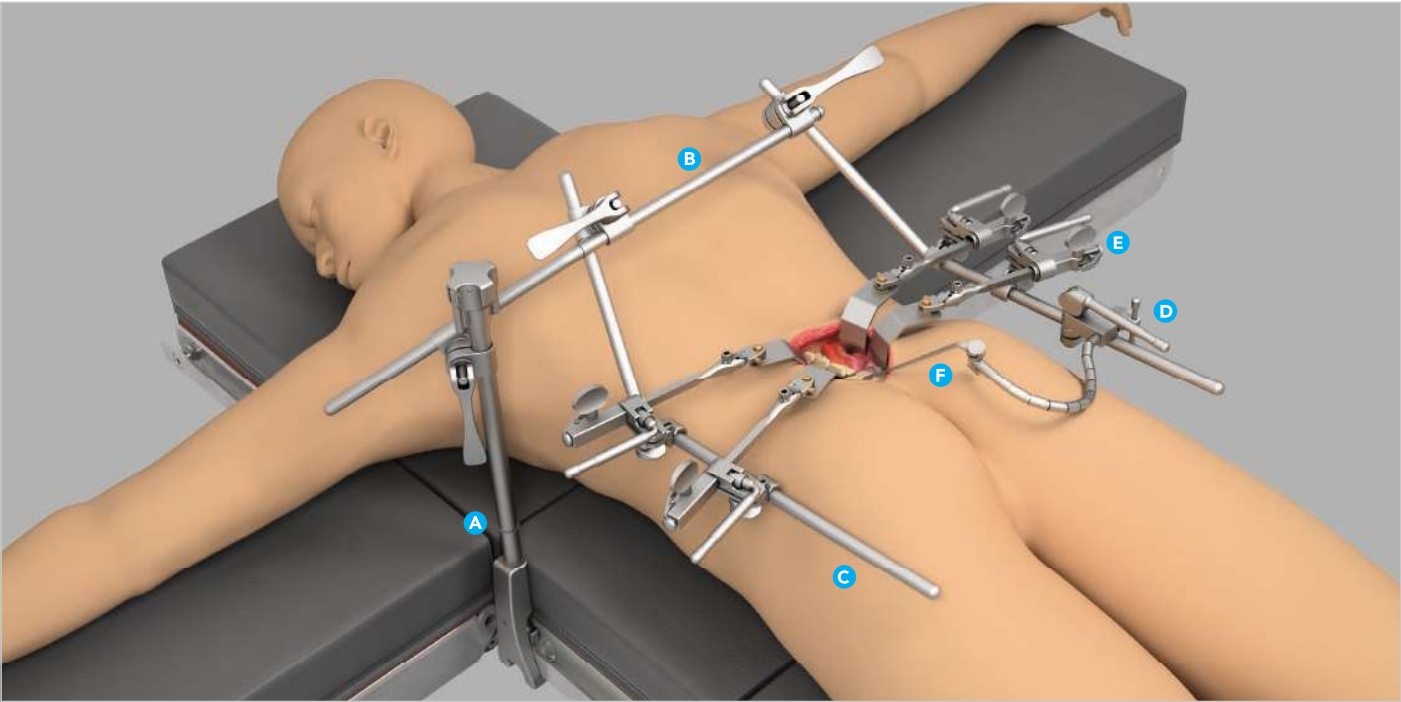
| REF | IMAGE | QTY | ITEM DESCRIPTION                              | PART #   | APPLICATION  |
|-----|-------|-----|---|----------|--|
| A   |       | 1   | Elite II Rail Clamp with 1 Cam Joint 16"      | 41902ACL | Attaches to the rail of the OR table and holds the articulating arm.   |
| B   |       | 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.<br>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.

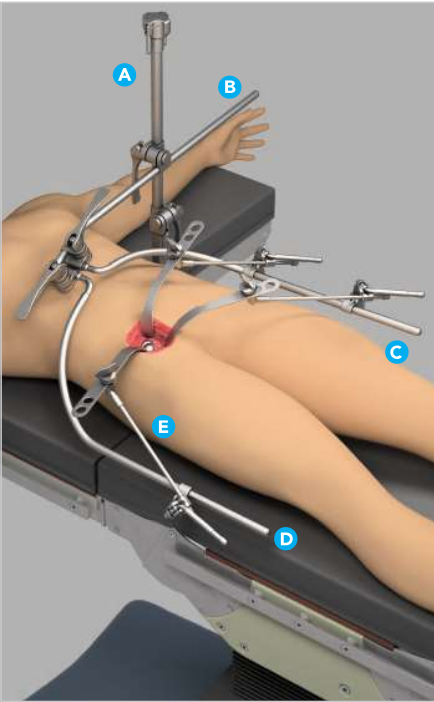
| REF | IMAGE | QTY | ITEM DESCRIPTION                           | PART #     | APPLICATION  |
|-----|-------|-----|--|------------|--|
| A   |       | 1   | Elite III Rail Clamp with 1 Cam Joint 16"  | 43902ACL   | Attaches to the rail of the OR table and holds the crossbar in position.   |
| B   |       | 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)

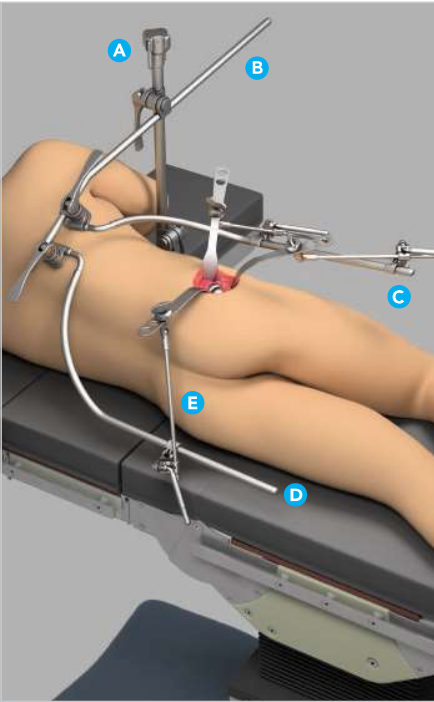
| REF | IMAGE   | QTY | ITEM DESCRIPTION   | PART #      | APPLICATION   |
|-----|---|-----|--|-------------|---|
|     |    | 2   | Radiolucent Concave Posterior Lumbar<br>23mm x 80mm (1" x 3 1/8")      | SO45670ATTC | Lateral muscle retraction for posterior lumbar procedures.  |
|     |   | 2   | Radiolucent Concave Posterior Lumbar<br>45mm x 80mm (1 3/4" x 3 1/8")  | SO45671ATTC |   |
|     |   | 2   | Radiolucent Concave Posterior Lumbar<br>60mm x 80mm (2 3/8" x 3 1/8")  | SO45672ATTC |   |
|     |    | 2   | Radiolucent Concave Posterior Lumbar<br>23mm x 100mm (1" x 4")         | SO45673ATTC |   |
|     |   | 2   | Radiolucent Concave Posterior Lumbar<br>45mm x 100mm (1 3/4" x 4")     | SO45674ATTC |   |
|     |   | 2   | Radiolucent Concave Posterior Lumbar<br>60mm x 100mm (2 3/8" x 4")     | SO45675ATTC |   |
|     |   | 2   | Radiolucent Concave Posterior Lumbar<br>23mm x 120mm (1" x 4 3/4")     | SO45676ATTC |   |
|     |   | 2   | Radiolucent Concave Posterior Lumbar<br>45mm x 120mm (1 3/4" x 4 3/4") | SO45677ATTC |   |
|     |   | 2   | Radiolucent Concave Posterior Lumbar<br>60mm x 120mm (2 3/8" x 4 3/4") | SO45678ATTC |   |
|     |  | 1   | Nerve Root Retractor 90°<br>5mm x 123mm (1/4" x 4 7/8")                | 45752A      | Held in place by the Flexible Blade Holder and provide posterior lumbar nerve root retraction.                        |
| F   |  | 1   | Nerve Root Retractor 45°<br>8mm x 145mm (3/8" x 5 3/4")                | 45753A      |   |
|     |  | 1   | Prong Retractor 75mm (3")  | SL45760A    | Retracts off of the spinous process, or bone, to increase access around the retractor for procedures such as drilling |
|     |  | 1   | Prong Retractor 100mm (4")   | SL45761A    |   |
|     |  | 2   | Instrument Case  | 50000G      | Allows for sterilization, storage, and transportation of instruments.   |



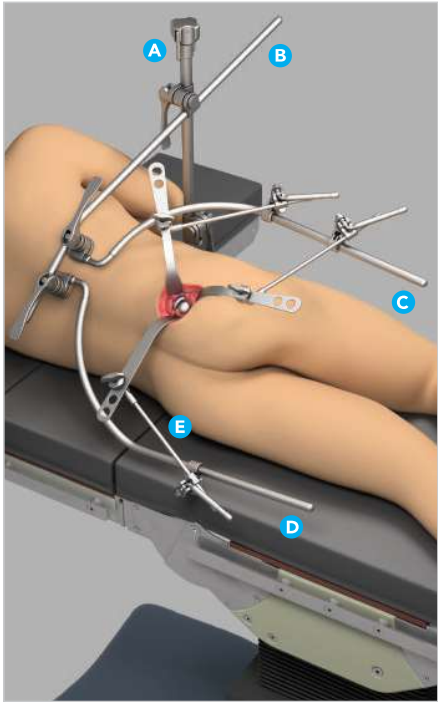
Direct Anterior



Lateral

















Posterior



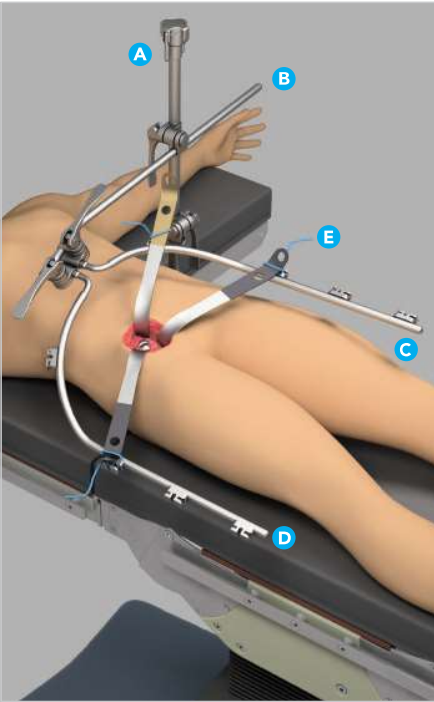
HIP SYSTEM #SL82015

| 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.   |

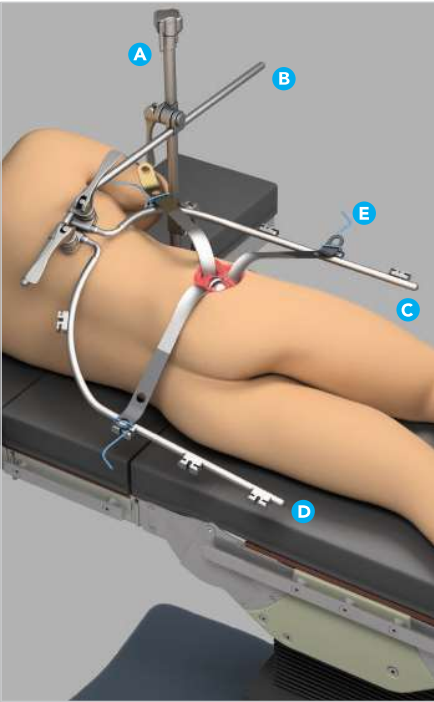
## HIP SYSTEM #SL82015 (Continued)

| 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   |  |

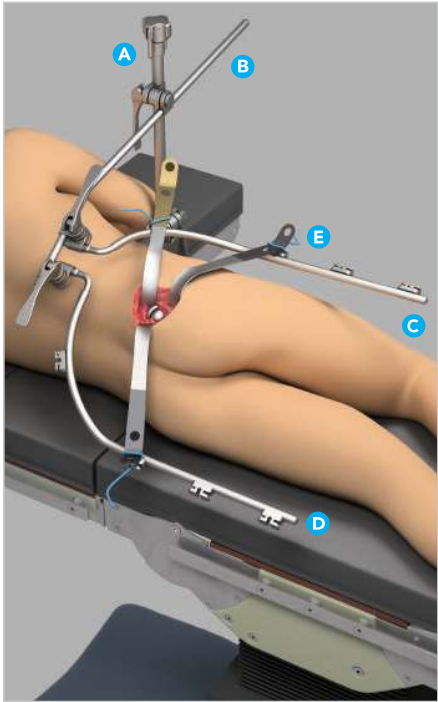
Direct Anterior



Lateral






Posterior



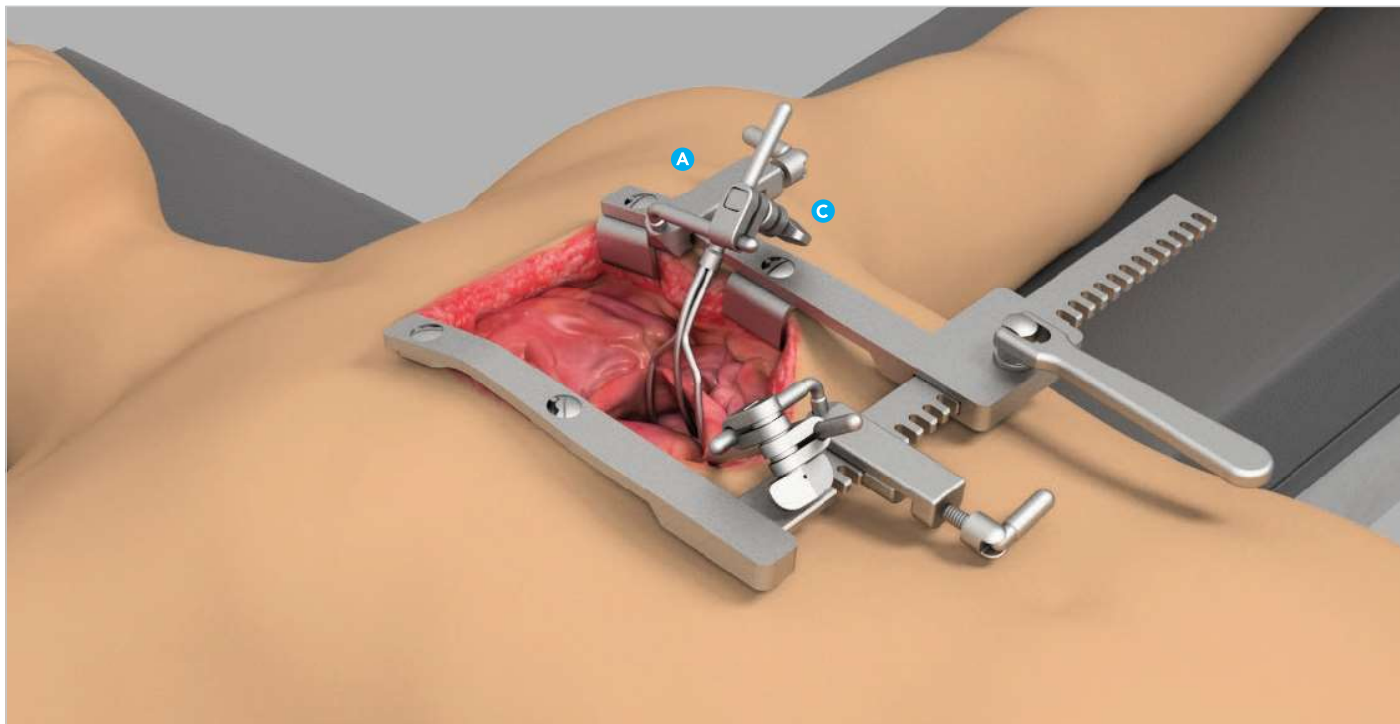
HIP TETHER SYSTEM #SL82014

| 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)

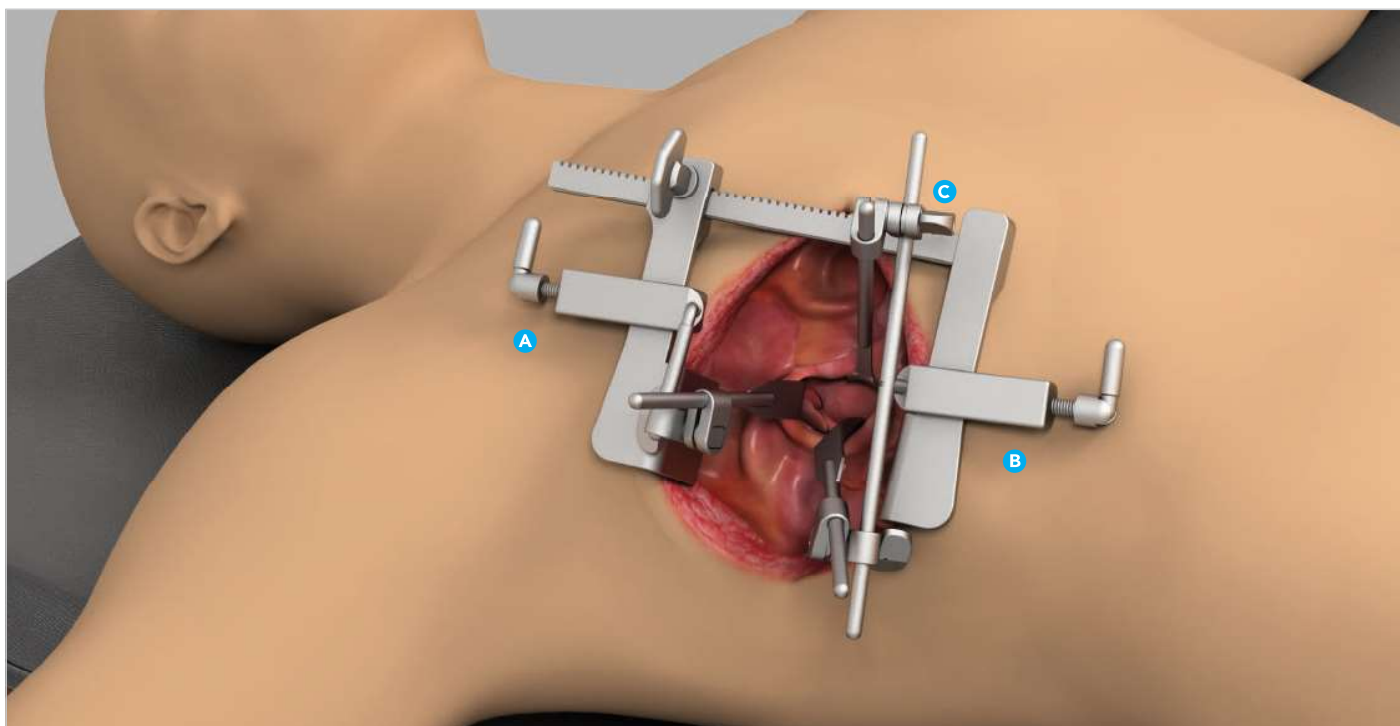
| REF | IMAGE   | QTY | ITEM DESCRIPTION                   | PART #   | APPLICATION  |
|-----|---|-----|------------------------------------|----------|--|
| E   |    | 2   | 24" Tethers - Pack of 5            | 42105    | Secures retractor blades to the frame.   |
|     |    | 1   | Femoral Neck Elevator              | 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 \*










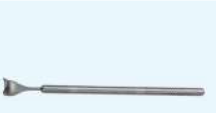

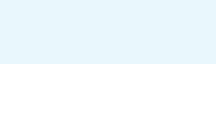


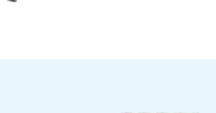


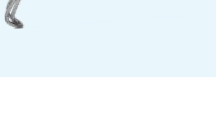




\* Shown with Morse Sternal Spreader ( #300251 )

## Thoracotomy \*\*



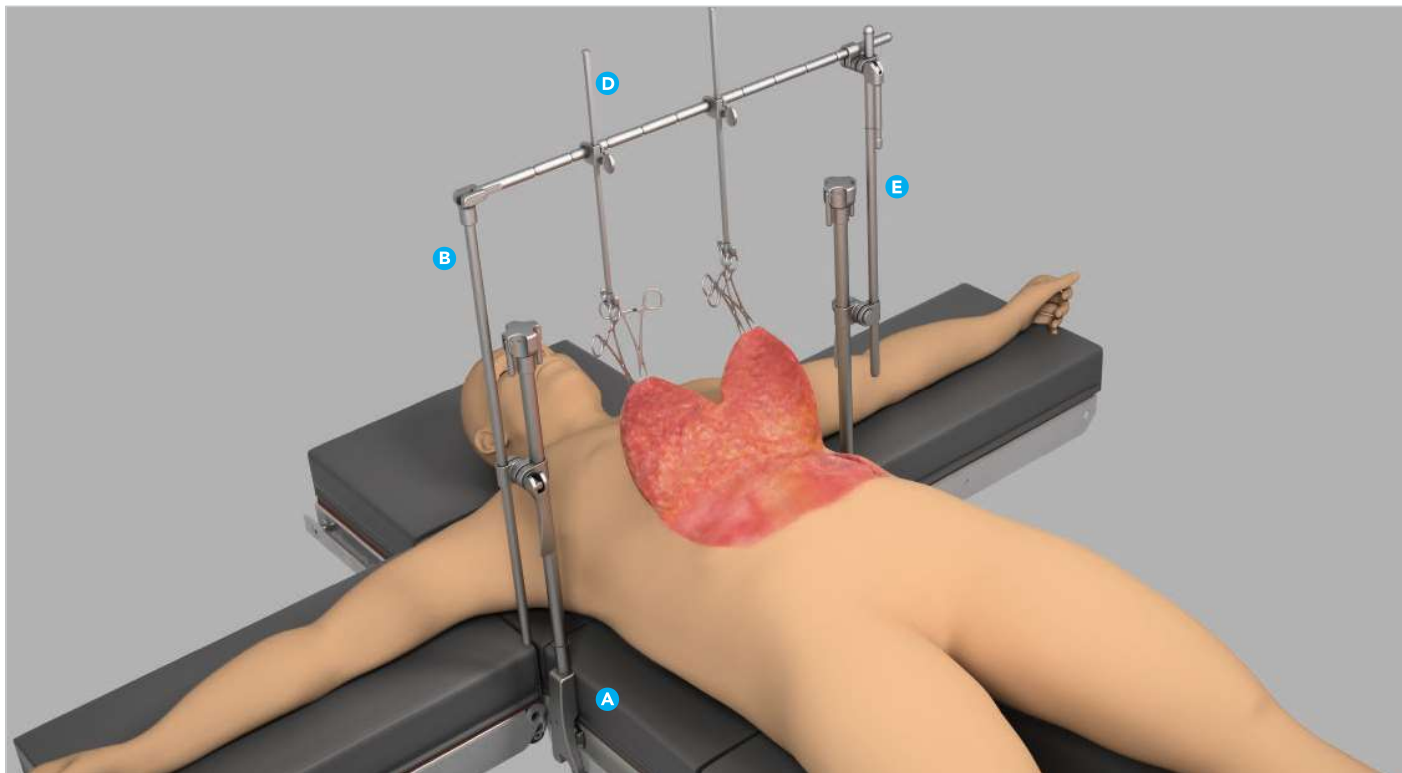
\*\* Shown with thoracotomy spreader, not sold by Thompson Surgical.

## BOLLING MITRAL VALVE RETRACTOR SYSTEM #91072CV

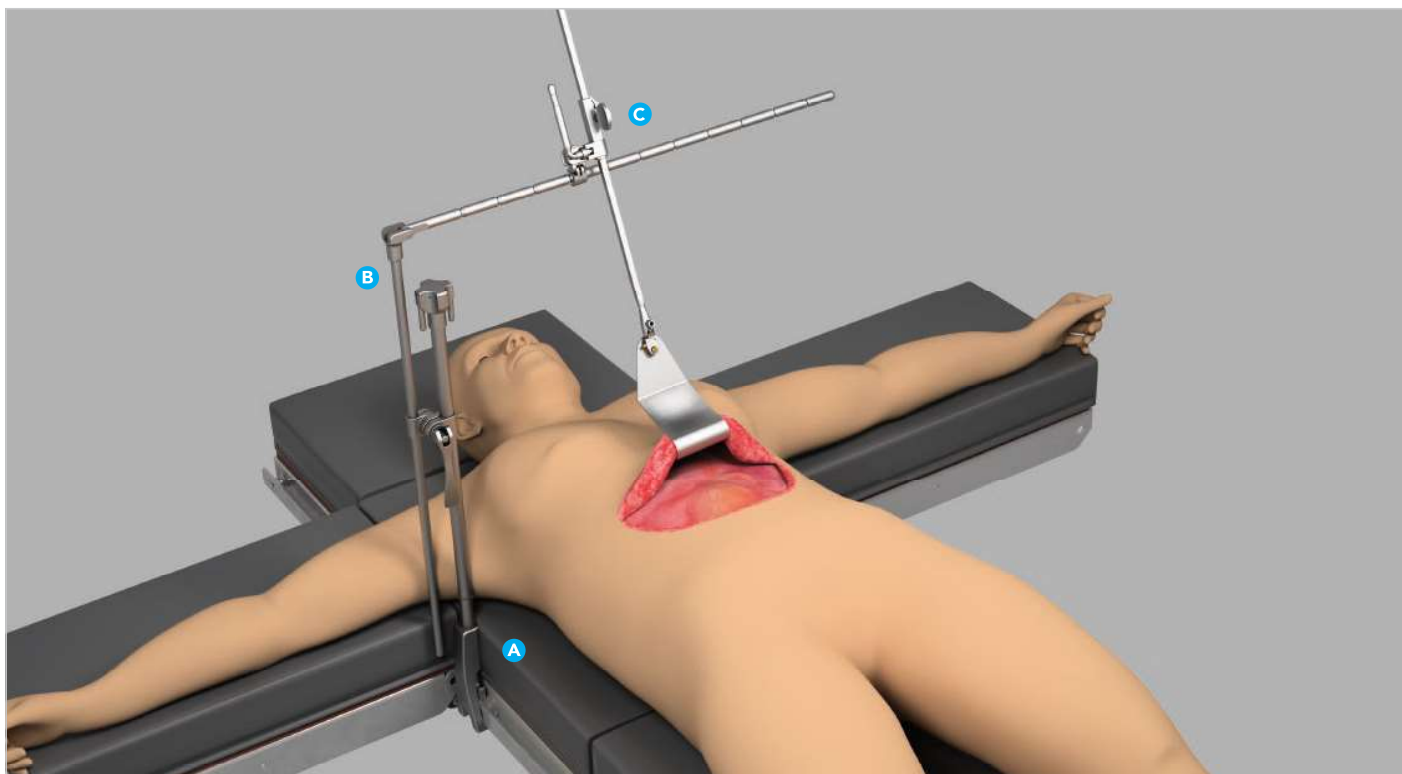
| REF | IMAGE   | QTY | ITEM DESCRIPTION        | PART #   | APPLICATION  |
|-----|---|-----|-------------------------|----------|--|
| A   |    | 2   | CV Clamp L-Bar 2"       | 47200N   | Mounts to sternal or rib retractors and holds one Universal Joint.       |
| B   |    | 1   | CV Clamp T-Bar 8"       | 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 transseptal 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    |  |
|     |  | 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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Uncompromised Exposure

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Other patents pending.

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