Iron Intern®
Product Catalog
Automated Medical Products has delivered quality surgical instruments for over 50 years. We are proud of our long history of manufacturing excellence of high-end products for the surgical community worldwide. AMP is dedicated to superior engineering, craftsmanship, and innovation. Our customers know the dependability of our products which are manufactured in the United States, Switzerland, and Germany.
Our History

Dr. Dbaly, in Switzerland, conceived a table-mounted surgical retraction system. Hans Meier developed a mechanical arm to hold the retractor and lock the shoulder, elbow, and wrist joints by just tightening a wing nut at the elbow joint, based on the ideas of Dr. Dbaly. The Octopus Retractor, known as the Iron Intern® in the U.S., was introduced in 1976 in Munich. Today, the Iron Intern® is the leading articulated surgical retraction system.

AMP designed laparoscopic instruments for use with the Iron Intern®. The first instruments were a set of grippers developed with Dr. Robert Greenstein in 1992. AMP was the first to develop the Articulating Dissector to place a Lapband® around the esophageal junction with the stomach. We introduced the Nathanson Hooks Liver Retractors to the U.S. for use during laparoscopic procedures. The Iron Intern® is the most adaptable retraction system for laparoscopic procedures.

In 1989, Dr. Andrei Stieber described the use of the Iron Intern® in hepatic transplantation. The Iron Intern® Stieber Rib Grip is a premier retractor system for liver transplant, oncology, and bariatric surgery. It provides superior strength, exposure, and flexibility. The Iron Intern® Stieber Rib Grip was developed at UPMC, Pittsburgh, world-renowned transplant center of the late Dr. Thomas Starzl, the father of liver transplant.

We are committed to continuous innovation, improvement, and collaboration with our professional friends to bring their concepts to fruition and assist surgeons worldwide with their retraction needs.
The Iron Intern® is an articulated surgical retractor designed to mimic the human arm. With wrist, elbow, and shoulder-like movements, it delivers total maneuverability, flexibility, and versatility for multiple procedures. One wingnut positions retraction precisely, securely, and safely.

With the Iron Intern®, Surgeons Benefit From:

- Superior flexibility for a wide range of procedures
- Strongest retraction with optimal visualization
- High adaptability for laparoscopic and open surgery
- Greater autonomy and control
- Safe access to the surgical site
- Quick, easy set-up
- Highest quality standards – Swiss & USA manufacturing
- Ease of sterilization – Autoclavable as one unit
Iron Intern® Retraction Systems

The Iron Intern® comes as a single arm or double arm, in different pole lengths and sizes which accommodate a vast spectrum of procedural needs. The Iron Intern® is made to the highest quality through Swiss precision manufacturing, and holds multiple international patents.

The Iron Intern® Jumbo features powerful extra strong joints and arms for Bariatric patients.

**IRON INTERN® SINGLE ARM**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 17” #ARH017</td>
<td>Iron Intern® 17” Single Arm with 3/D Swinger Rail Clamp</td>
</tr>
<tr>
<td>ARH 22” #ARH022</td>
<td>Iron Intern® 22” Single Arm with 3/D Swinger Rail Clamp</td>
</tr>
<tr>
<td>ARH 22” #ARHD22</td>
<td>Iron Intern® 22” Single Arm with Duplex 3/D Swinger Rail Clamp</td>
</tr>
<tr>
<td>ARH 22” #ARHC22</td>
<td>Iron Intern® 22” Single Arm with 3/D Swinger Rail Clamp and Collapsible Pole</td>
</tr>
<tr>
<td>ARH 22” Jumbo #ARHJ22</td>
<td>Iron Intern® 22” Jumbo Single Arm with 3/D Swinger Rail Clamp</td>
</tr>
<tr>
<td>ARH 26” #ARH026</td>
<td>Iron Intern® 26” Single Arm with 3/D Swinger Rail Clamp</td>
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<tr>
<td>ARH 26” Jumbo #ARHJ26</td>
<td>Iron Intern® 26” Jumbo Single Arm with 3/D Swinger Rail Clamp</td>
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**IRON INTERN® HYDRA DOUBLE ARM**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>HYDRA 22” #HYD022</td>
<td>Iron Intern® 22” Hydra Double Arm with 3/D Swinger Rail Clamp</td>
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<tr>
<td>#HYD0YO</td>
<td>Standard Hydra Yoke Only</td>
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<tr>
<td>HYDRA 22” Jumbo #HYDJ22</td>
<td>Iron Intern® 22” Jumbo Hydra Double Arm with 3/D Swinger Rail Clamp</td>
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<tr>
<td>#HYDJYO</td>
<td>Jumbo Hydra Yoke Only</td>
</tr>
<tr>
<td>HYDRA 26” Jumbo #HYDJ26</td>
<td>Iron Intern® 26” Jumbo Hydra Double Arm with 3/D Swinger Rail Clamp</td>
</tr>
</tbody>
</table>
COLLAPSIBLE POLE
- Provides convenient sterilizing
- Easily fits into sterilizing tray
- 22” pole; Additional sizes available

ARH 22” Iron Intern® Single Arm with 3/D Swinger Rail Clamp and Collapsible Pole
#ARHC22

COWAN GRIPPER
- Articulated arm attaches with a C-Clamp
- Provides an extra hand with the Iron Intern®, Hydra double arm or a ring style retraction system
- 2 Sizes available: Standard or Jumbo
- Jumbo features an extra strong elbow joint

#COW0GP Standard Cowan Gripper
#COWJGP Jumbo Cowan Gripper

WRIST COMPONENTS
- Jumbo Wing Nut *(not pictured)* for use with Jumbo Elbow Joint

#WGNTST Standard Wing Nut
#WRTCYL Wrist Cylinder
#WGNTJU Jumbo Wing Nut
AMP has developed highly sophisticated rail clamps. The 3/D Swinger Rail Clamps offer full 360° range of motion, great flexibility for set up, and are available in three different design options.

### 3/D Swinger Rail Clamp

**#3DSREG**

The 3/D Swinger Rail Clamp provides great versatility with full 360° range of motion.
- Most sophisticated rail clamp
- Fixes arm to OR table
- Easily loosened for repositioning
- Tilts pole from side to side 180°
- Rotates pole up to 360°

### 3/D Swinger Rail Clamp with Duplex

**#3DSDUP**

- Designed with two jaws for a superior hold
- Allows smoother movement during surgery for adjustments- up or down or left and right
- Locks on the top and bottom of the rail clamp

### 3/D Swinger Rail Clamp with Grooves

**#3DSGRV**

- For use with the Stieber Rib Grip
- Provides strong locking mechanism
- Fixes pole to the table; Easily adjustable
- Fits any OR table
- Inserting grooves inside inner collar of table clamp allows vertical pole to be locked in place and to remain stable under very strong pressure.

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<table>
<thead>
<tr>
<th>#CAPNUT</th>
<th>Cap Nut</th>
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</thead>
<tbody>
<tr>
<td>#WASHSP</td>
<td>Spring Washer</td>
</tr>
<tr>
<td>#WASHPK</td>
<td>Peek Washer</td>
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</table>
"The Iron Intern® Retractor, which mimics the human arm, is of much utility in General, Bariatric, and Transplantation Surgery. It is well adapted for laparoscopic surgery with the Grippers which are designed to hold laparoscopic instrumentation. When conversion to laparotomy is necessary, the retractor is of equal utility in providing exposure."

– Dr. Robert Greenstein

**GREENSTEIN GRIPPER CLAMPS**

<table>
<thead>
<tr>
<th>#</th>
<th>LC1 GREENSTEIN GRIPPER</th>
<th>LC2 GREENSTEIN GRIPPER</th>
<th>LC3 GREENSTEIN GRIPPER</th>
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<tbody>
<tr>
<td>#LC10GG</td>
<td>• Holds laparoscopic instruments, trocars, scopes (3mm-12mm).</td>
<td>• Holds disposable trocars</td>
<td>• Holds reusable metal trocars</td>
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<tr>
<td>#LC20GG</td>
<td>• Flat gripping surfaces minimize trauma to the instrument by dispersing compression over as large an area as possible</td>
<td></td>
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<tr>
<td>#LC30GG</td>
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**UNIVERSAL “GEMMA” CONNECTION CLAMP**

- Allows any retractor to be used with the Iron Intern®
- Available as Standard or Jumbo

<table>
<thead>
<tr>
<th>#</th>
<th>G-9 Standard Universal “Gemma” Connection Clamp</th>
<th>G-9 Jumbo Universal “Gemma” Connection Clamp</th>
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<tbody>
<tr>
<td>#GB0009</td>
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<tr>
<td>#GB00J9</td>
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</table>

**UNIVERSAL HANDLE**

- Fits all Iron Intern® Retractors
- Provides greater versatility for manual retraction

<table>
<thead>
<tr>
<th>#</th>
<th>S-37 Universal Handle</th>
</tr>
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<tbody>
<tr>
<td>#UH0S37</td>
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</table>
Laparoscopy

The Retraction System Of Choice For Laparoscopic Surgery

The Iron Intern® is the most adaptable retraction system for both laparoscopic and open procedures with its articulated design that mimics the human arm. It is the leading retraction system for MIS Liver Retraction and Bariatric procedures.

Iron Intern®
Hydra Double Arm with Nathanson Hook Liver Retractor

Quick, Easy Repositioning of Laparoscopic Instruments
Stable Visualization
Steady, Constant Traction

DBALY LIVER HOOKS, 6MM

- J-Form Retractors
- For surgery in upper abdomen, i.e. gallbladder, hiatal hernia, lap band, and gastric bypass
- Introduced through 5mm hole, left of xyphoid process and placed at visceral area of the liver

Right: Gallbladder – Liver Hook
Left: Hiatal Hernia – Liver Hook

#DBALYS  Dbaly Liver Hooks, 6mm. Set of 2 (Left, Right)
NATHANSON HOOK LIVER RETRACTORS

The Nathanson Hook Liver retractors are designed to retract the liver during laparoscopic surgery and hold it out of the way. AMP offers a full range of sizes of the Nathanson Hook Liver retractors.

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
<th>Details</th>
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<tbody>
<tr>
<td>Nathanson Hook Liver Retractor, 6mm</td>
<td>#NHLRS3</td>
<td>Nathanson Hook Liver Retractor, 6mm- Set of 3 (Sm, Med, Large)</td>
</tr>
<tr>
<td>Nathanson Hook Liver Retractor, 6mm Long Nose</td>
<td>#NHLXLS</td>
<td>Nathanson Hook Liver Retractor, 6mm- Long Nose Small</td>
</tr>
<tr>
<td>Nathanson Hook Liver Retractor, 6mm Long Nose</td>
<td>#NHLXLM</td>
<td>Nathanson Hook Liver Retractor, 6mm- Long Nose Medium</td>
</tr>
<tr>
<td>Nathanson Hook Liver Retractor, 3mm</td>
<td>#NHL3MM</td>
<td>Nathanson Hook Liver Retractor, 3mm- Medium</td>
</tr>
<tr>
<td>Nathanson Hook Liver Retractor, 5mm Low Profile</td>
<td>#NHL5MM</td>
<td>Nathanson Hook Liver Retractor, 5mm- Low Profile Medium</td>
</tr>
<tr>
<td>Nathanson Hook Liver Retractor, 5mm Pediatric</td>
<td>#NHLRPE</td>
<td>Nathanson Hook Liver Retractor, 5mm- Set of 2 (Small, Medium)</td>
</tr>
</tbody>
</table>

(See clinical shot on page 34)
O’BRIEN LAP BAND SET
- Set of three: Introducer, Placer & Closer
- Used with Lap Band® System
- Helps simplify Lap Band gastric banding
- Designed by Dr. Paul O’Brien

#OBLBSE  O’Brien Lap Band Set, Set of 3

O’BRIEN INTRODUCER
#OBLBIN
- Helps introduce the band into abdominal cavity

O’BRIEN PLACER
#OBLBPL
- Assists passing of the Lap Band® behind the esophagus
- Flexible tip with notch allows instruments to enter 5mm trocar
- Blunt tip minimizes risks of perforations

O’BRIEN CLOSER
#OBLBCL
- Facilitates closing of the Lap Band®
- 10mm diameter
- Non-traumatic, smooth end

ARTICULATING DISSECTOR
- Extra long, articulated dissector
- Articulation to 90°
- Slotted tip to carry ligatures, arterial tapes, and bands
- Lightweight
- Long-life insulation material
- Disassembles for thorough cleaning

#ARTDEX  Articulating Dissector

STEINBERG GASTRIC BAND INTRODUCER
- Simplifies introduction of Lap Band
- Minimizes potential tissue damage
- Maintains aligned, safe access to the abdomen
- Fast, Atraumatic, Reusable

#STLBIN  Steinberg Gastric Band Introducer
The Giulianotti Retractor System
For Robotic-Assisted Minimally Invasive Surgery

In collaboration with Dr. Pier Cristoforo Giulianotti, AMP has designed this versatile and flexible retractor System for Robotic-Assisted Minimally Invasive Surgery. The Giulianotti Retractor System comes with specially adapted components and uniquely designed blades that allow variable degrees of motion. Additional blades with varying angles and width are available to meet surgical needs.

Guilianotti Retractor System #GIKITC

- **26” Iron Intern® Vertical Bar**
  - 26”h (66.5cm)
  - Mounting System: fits ¼” x ⅞” flat bar (6.3mm x 23mm)

- **Iron Intern® Jumbo with Duplex 3/D Swinger Rail Clamp**

- **Horizontal Bar with Ratcheting Mechanism**
  - 32”h (80.6cm) (Horizontal Bar and Iron Intern® Arm)
  - Mounting System Square Hole: fits ⅜” (8mm) handle

- **(3) Harrington Blades, 110°**
  - S (15cm), M (17cm), L (20cm)

- **(3) Harrington Blades, 90°**
  - S (15cm), M (17cm), L (20cm)

- **Handle for Manual Blade Retraction**
  - 5 ½” (141mm)
  - Square Hole: Fits ⅜” (8mm) Handle

- **(2) Deaver Blades, Hand-held, specially designed to hold incision open for the introduction of the adjustable retractors when used in conjunction with the da Vinci® Surgical Robotic System.**

  - Deaver Retractor with Hollow Handle
    - 1” x 7” (25mm x 180mm)
  - Special Deaver Retractor with Lip and Hollow Handle
    - 1” x 5” (25mm x 127mm)
Retraction Blades
Over 500 Multi-Specialty, Interchangeable Blades

AMP offers over 500 multi-specialty blades in various sizes, made in the highest quality stainless steel. The blades are also available as radiolucent titanium or anodized aluminum. They can be fully customizable in different sizes to meet the broadest range of procedural needs.

GENERAL FIBER OPTIC BLADES (GFO)

Fiber optics or suction can be attached to any rigid blade. AMP Fiber Optic blades provide superior illumination and visibility.

<table>
<thead>
<tr>
<th>Number</th>
<th>Blade Name</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>#GFO020 GFO-20 Deaver Fiber Optic</td>
<td>7 ½” x 2 ½” (191 x 64)</td>
</tr>
<tr>
<td>B</td>
<td>Custom G-10 Richardson with Fiber Optic</td>
<td>2” x ¾” (51 x 19)</td>
</tr>
<tr>
<td>C</td>
<td>#GFO089 GFO-89 Herman Hallmark Liver Retractor, Plain</td>
<td>7 ½” x 2 ½” (191 x 54)</td>
</tr>
<tr>
<td>D</td>
<td>#GFO18S GFO-18S Deaver Fiber Optic</td>
<td>5 ½” x 2 ½” (140 x 64)</td>
</tr>
<tr>
<td>E</td>
<td>#GFO025 GFO-25 Weinberg (Joe’s Hoe) FO</td>
<td>6 ½” x 3 ¾” (165 x 95)</td>
</tr>
<tr>
<td>F</td>
<td>#GFO077 GFO-77 Atraumatic Vaginal Deaver</td>
<td>5 x 1” (127 x 25)</td>
</tr>
</tbody>
</table>
GENERAL ABDOMINAL BLADES

G-24 B.E. Glass
7 ¼” x 3 ¼”
(184mm x 83mm)
#GB0024

G-29 Foss Bifid
5 ¾” x 3”
(146mm x 76mm)
#GB0029

G-30 Foss, Gall Bladder
6” x 2 ½”
(152mm x 54mm)
#GB0030

G-33 O’Sullivan-O’Conner
3 ½” x 1 ¾”
(90mm x 44mm)
#GB0033

G-34 O’Sullivan-O’Conner
4” x 2 ¾”
(102mm x 70mm)
#GB0034

G-54 Army Navy (pair)
1” x ½”
(25mm x 15mm)
2” x ½”
(51mm x 15mm)
#GB0054

G-25 Weinberg
“Joe’s Hoe”
#GB0025
GFO-25 Weinberg
(Joe’s Hoe) Fiber Optic
(shown pg 13)
#GFO025
6 ½” x 3 ¾”
(165mm x 95mm)

G-63 Murphy
Puppytongue Gall Bladder Retractor
6 ½” x 2”
(165mm x 51mm)
#GB0063

G-69 St. Mark’s for Deep Pelvic
7” x 1 ¾” x 2 ¾”
(179mm x 47mm x 61mm)
#GB0069

G-79 “Sweetlips”
#GB0079
GFO-80 Sweetlips
Fiber Optic (not shown)
#GFO080
• For Bariatric, Abdominal Surgery
• “Lipped” to Control Liver Lobe
6 ½” x 3”
(165mm x 76mm)

G-88 Herman Hallmark
Liver Retractor, Plain
8 ½” x 2 ½”
(216mm x 64mm)
#GB0088
**GIANT ABDOMINAL BLADES**

G-37 Harrington Giant Sweetheart
8 1/2” x 6 1/2”
(216mm x 166mm)
#GB0037

G-53 Weinberg, Giant “Joe’s Hoe”
#GB0053

GFO-53 Giant Weinberg Fiber Optic
(not shown)
#GFO053

9” x 4 1/4”
(229mm x 108mm)

G-81 Giant “Sweetlips”
#GB0081

GFO-82 Giant “Sweetlips” Fiber Optic
(not shown)
#GFO082

- For Bariatric, Abdominal Surgery
- “Lipped” to Control Liver Lobe
8” x 3”
(203mm x 76mm)

G-91 “Wise” Choice Monster Fritsch Retractor
#GB0091

4 1/2” x 3 1/2”
(115mm x 89mm)

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**CENTER BLADES**

G-4 Center
2 3/4” x 2 1/2” (70mm x 64mm)
#GB0004

G-5 Center
3 5/8” x 2 1/2” (92mm x 64mm)
#GB0005

G-6 Center
2 3/4” x 1 3/4” (70mm x 45mm)
#GB0006

G-7 Center
3 5/8” x 1 3/4” (92mm x 45mm)
#GB0007

---

G-89 Herman Hallmark Liver Retractor, Plain
#GB0089

GFO-89 Herman Hallmark Liver Retractor, Plain Fiber Optic (shown pg 13)
#GFO089

7 1/2” x 2 1/8”
(191mm x 54mm)

G-117 Fascia Lifter
6 3/8” x 1 3/8”
(157mm x 35mm)
#GB0117
**DEAVER BLADES**

G-20 Deaver
#GB0020
GFO-20 Deaver Fiber Optic (shown pg 13)
#GFO020
7 ½” x 2 ½”
(191mm x 64mm)

G-21 Deaver
#GB0021
GFO-21 Deaver Fiber Optic (not shown)
#GFO021
7” x 1 ½”
(178mm x 38mm)

G-27 Deaver
7 ¾” x 4”
(184mm x 101mm)
#GB0027

G-59 Deaver, Aneurysm
6” x 4”
(152mm x 102mm)
#GB0059

G-17 Deaver
6” x 1 ½”
(152mm x 38mm)
#GB0017
GFO-17S Deaver Fiber Optic (not shown)
• Shortened for Abdominal and Gynecology
5 ½” x 1 ½”
(140mm x 38mm)
#GFO17S

**FRITSCH BLADES**

G-18 Deaver
6” x 2 ½”
(152 x 64 mm)
#GB0018
GFO-18S Deaver Fiber Optic (shown pg 13)
• Shortened for Abdominal and Gynecology
5 ½” x 2 ½”
(140mm x 64mm)
#GFO18S

#GB0001  G-1 Fritsch
1 ¾” x 2 ½” (45mm x 64mm)

#GB0002  G-2 Fritsch
2 ¾” x 2 ¾” (70mm x 70mm)

#GB0003  G-3 Fritsch
2 ¾” x 3 ¼” (70mm x 82mm)
### GYNECOLOGY BLADES

| #GB0078 | G-78 Atraumatic Vaginal Deaver/Heaney, Plain | 5” x 1” (127mm x 25mm) |
| #GFO077  | GFO-77 Atraumatic Vaginal Deaver Fiber Optic  (shown pg 13) | 5 x 1” (127mm x 25mm) |
| #GB0098  | G-98 Atraumatic Vaginal Deaver/Heaney, Small | 3” x 1” (76mm x 25mm) |

### HARRINGTON SWEETHEART BLADES

| #GB0022 | G-22 Harrington | 7 ¼” x 2 ½” (184mm x 64mm) |
| #GB0023 | G-23 Harrington | 8 ½” x 4 ⅜” (216mm x 114mm) |
| #GB0092 | G-92 Harrington | 7 ¼” x 3 ⅜” (185mm x 80mm) |
| #GB0104 | G-104 Harrington | 7” x 1 ½” (177mm x 37mm) |

### HEANEY BLADES

| #GB0019 | G-19 Heaney | 4 ½” x 1” (114mm x 25mm) |
| #GB0031 | G-31 Heaney | 3” x 1 ⅛” (76mm x 29mm) |
| #GB0032 | G-32 Heaney | 3 ⅛” x 1 ⅛” (83mm x 29mm) |

### KELLY BLADES

| #GB0013 | G-13 Kelly | 3 ½” x 2 ½” (89mm x 64mm) |
| #GB0014 | G-14 Kelly | 4” x 3” (101mm x 76mm) |
**MALLEABLE BLADES**

<table>
<thead>
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<th>Description</th>
<th>Dimensions</th>
<th>Part No</th>
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<tbody>
<tr>
<td>G-8 Malleable</td>
<td></td>
<td>9 ½” x 2”</td>
<td>#GB0008</td>
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<tr>
<td></td>
<td></td>
<td>(241mm x 51mm)</td>
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<tr>
<td>G-28 Malleable</td>
<td></td>
<td>9 ¾” x 2 ½”</td>
<td>#GB0028</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(248mm x 64mm)</td>
<td></td>
</tr>
<tr>
<td>G-111 Malleable, Pediatric</td>
<td></td>
<td>7” x 1”</td>
<td>#GB0111</td>
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<tr>
<td></td>
<td></td>
<td>(179mm x 26mm)</td>
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<tr>
<td>G-49 Nussbaum, “Moe’s Paw”</td>
<td>Liver Retractor</td>
<td>Four 6” Fingers, Malleable Horizontally and Vertically</td>
<td>#GB0049</td>
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<tr>
<td></td>
<td>G-107 Stieber 2 Finger Malleable</td>
<td>½” x 6”</td>
<td>#GB0107</td>
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<td>(17mm x 152mm)</td>
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<tr>
<td>G-108 6 Finger Malleable</td>
<td></td>
<td>⅜” x 6”</td>
<td>#GB0108</td>
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<td></td>
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<td>(9mm x 152mm)</td>
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**McBURNNEY BLADES**

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<td>1” x 1”</td>
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<td>(25mm x 25mm)</td>
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<td>G-61 McBurney</td>
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<td>5⅛” x ⅝”</td>
<td>#GB0061</td>
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<td></td>
<td></td>
<td>(16mm x 16mm)</td>
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<tr>
<td>G-86 McBurney</td>
<td></td>
<td>1 ½”</td>
<td>#GB0086</td>
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<td>(38mm)</td>
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<tr>
<td>G-87 McBurney</td>
<td></td>
<td>2”</td>
<td>#GB0087</td>
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<tr>
<td></td>
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<td>(51mm)</td>
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**ORTHOPEDIC BLADES**

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<tbody>
<tr>
<td>G-35 Volkman, 1-Prong Skin Hook</td>
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<td>#GB0035</td>
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<tr>
<td>G-38 Frazier, Curved, 4-Prong</td>
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<td>1 ⅛” x 1 ½”</td>
<td>#GB0038</td>
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<tr>
<td></td>
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<td>(35mm x 38mm)</td>
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</table>
G-39 Glazer, Small, 3-Prong
2 ¾” x 1 ¼”
(70mm x 32mm)
#GB0039

G-40 Glazer, Large, 4-Prong
2 ¾” x 1 ¾”
(70mm x 45mm)
#GB0040

G-41 Scoville, Large, 4-Prong
2 ½” x 1 ¾”
(64mm x 45mm)
#GB0041

G-42 Scoville, Small, 4-Prong
1 ½” x 1 ½”
(42mm x 38mm)
#GB0042

G-43 Taylor, Large, 4-Prong
2 ½” x 2 ¼”
(64mm x 57mm)
#GB0043

G-44 Taylor, Small, 3-Prong
1 ¾” x 1 ½”
(45mm x 38mm)
#GB0044

G-45 Bennett, Small
5 ¼” x 1 ¾”
(134mm x 45mm)
#GB0045

G-46 Bennett, Large
5 ½” x 2 ½”
(140mm x 64mm)
#GB0046

G-47 Charnley, Small
1 ¾” x 1”
(45mm x 25mm)
#GB0047

G-48 Charnley, Large
2 ¾” x 1”
(70mm x 25mm)
#GB0048

G-50 Hibbs, 9 Sharp Teeth
3” x 4”
(76mm x 51mm)
#GB0050

G-51 Epstein, 6 Teeth
2 ½” x 1”
(64mm x 25mm)
#GB0051
ORTHOPEDIC BLADES cont.

G-52 Myerding, 21 Teeth
3 ½” x 2”
(89mm x 51mm)
#GB0052

G-55 Rake, 7-Prong
2” x 1 ¼”
(51mm x 32mm)
#GB0055

G-102 Hibbs, 3 Teeth
1” x 3”
(25mm x 76mm)
#GB0102

G-103 Hibbs, 3 Teeth
1” x 4”
(25mm x 102mm)
#GB0103

O33–O36 Hohman, Set of 4
(42mm x 70mm x 170mm)
(20mm x 45mm x 170mm)
(25mm x 12mm x 175mm)
(20mm x 45mm x 250mm)
#O33O66

ORAL BLADES

G-66 Austin, Oral with 2 Sharp Teeth
3” x ¾”
(77mm x 19mm)
#GB0066

G-67 Black, Oral
2 ¾” x 1”
(70mm x 25mm)
#GB0067

G-68 Shuman, Oral
2” x 1 ¼”
(51mm x 32mm)
#GB0068

PEDIATRIC BLADES

G-112 Pediatric Right-Angle Blades, Set of 5
(7, 10, 14, 17, 20mm)
#GB0112

G-113 Cochran Pediatric Blades, Set of 5
(7, 10, 14, 17, 20mm)
#GB0113

G-114 Smith Anal Pediatric Blades, Set of 2
(18mm x 61mm)
(24mm x 65mm)
#GB0114
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<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>#GB0115</td>
<td>G-115 Wire and Solid Pediatric Retractors, Set of 2</td>
<td>(20mm x 32mm)</td>
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<tr>
<td>#GB0116</td>
<td>G-116 Cushing Blades, Pediatric Set of 3</td>
<td>(11, 16, 23mm)</td>
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<tr>
<td>#GB0056</td>
<td>G-56 Hill Ferguson, Rectal</td>
<td>3 ½” x 1 ¼” (89mm x 32mm)</td>
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<tr>
<td>#GB0070</td>
<td>G-70 Harrington, Rectal</td>
<td>1 5/8” at Tip (41mm), Plain 10” x ¾” (225mm x 19mm)</td>
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<tr>
<td>#GFO071</td>
<td>GFO-71 Harrington Fiber Optic, Rectal (not shown)</td>
<td>10” x ¾” (225mm x 19mm)</td>
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<td>#GB0072</td>
<td>G-72 Deaver, Rectal</td>
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<td>#GS0073</td>
<td>GS-73 Deaver with Suction Tube Attached</td>
<td>10” x 1” (225mm x 25mm)</td>
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<td>#GFO074</td>
<td>GFO-74 Deaver Fiber Optic (not shown)</td>
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<td>G-10 Richardson</td>
<td>2” x ¾” (51mm x 19mm)</td>
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<td>#GB0011</td>
<td>G-11 Richardson</td>
<td>1 ¾” x 1 (1/8” 35mm x 29mm)</td>
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<td>#GB0012</td>
<td>G-12 Richardson</td>
<td>1 5/8” x 2 ½” (41mm x 64mm)</td>
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<td>#GB0064</td>
<td>G-64 Richardson</td>
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<td>#GB0083</td>
<td>G-83 Trabucco 2 Spring Hooks</td>
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<tr>
<td>#GB0084</td>
<td>G-84 Trabucco “Dracula” 2 Spring Hooks</td>
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<tr>
<td>#GB0085</td>
<td>G-85 “Mass Marvel” 4 Spring Hooks, Tuning Forks</td>
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<tr>
<td>#GB0106</td>
<td>G-106 Greenstein Tuning Fork, 4-Prong Spring Retractor 6” wide (152mm)</td>
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## SKIN RAKES AND HOOKS cont.

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<th>Blade</th>
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<th>SKU</th>
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<tbody>
<tr>
<td>G-94 Printen 6” Wide, 14 Teeth</td>
<td>1” Teeth Pullers for Panniculectomy</td>
<td>6” x 14 Teeth</td>
<td>#GB0094</td>
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<tr>
<td>G-95 Printen 8” Wide, 18 Teeth</td>
<td>1” Teeth Pullers for Panniculectomy</td>
<td>8” x 18 Teeth</td>
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<td>G-96 Printen 6” Wide, 14 Teeth</td>
<td>2” Teeth Pullers for Panniculectomy</td>
<td>6” x 14 Teeth</td>
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<tr>
<td>G-97 Printen 8” Wide, 18 Teeth</td>
<td>2” Teeth Pullers for Panniculectomy</td>
<td>8” x 18 Teeth</td>
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## VASCULAR BLADES

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<th>SKU</th>
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<tr>
<td>G-62 Cushing Vein Retractor</td>
<td>7/16” x 7/16” (11mm x 11mm)</td>
<td>#GB0062</td>
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<tr>
<td>G-105 Keeley – Veith Ligament Lifter</td>
<td>3” x 1” (76mm x 25mm)</td>
<td>#GB0105</td>
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<tr>
<td>G-109 Wylie – Renal Vein</td>
<td>7” x 1” (179mm x 26mm)</td>
<td>#GB0109</td>
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<tr>
<td>G-90 Eggbeater</td>
<td>8 ¼” x 2 ½” (210mm x 64mm)</td>
<td>#GB0090</td>
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<tr>
<td>G-101 Eggbeater Lung, Pediatric, 2 Rings</td>
<td>8 ¾” x 1 ¾” (222mm x 45mm)</td>
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## WIRE BLADES

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<td>G-15</td>
<td>Wire Blade</td>
<td>4” X 1 ½” (101mm x 38mm)</td>
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<td>G-16</td>
<td>Wire Blade</td>
<td>3 ½” x 1 ¾” (89mm x 35mm)</td>
<td>#GB0016</td>
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<tr>
<td>G-26</td>
<td>Gallbladder Wire</td>
<td>5” X 1 ¾” (127mm x 48mm)</td>
<td>#GB0026</td>
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Sterilization Trays

SST-1 Stainless Steel Sterilizing Tray
- Large open tray
- Holds the Iron Intern®, 3/D Swinger, Blades, Nathanson Hook Liver Retractors
- 9"w x 26"l x 3 ½"h
  (229mm x 660mm x 89mm)
#SST1TR

SST-4 Stainless Steel Sterilizing Tray
- Locking latch
- Removable lid design to hold the Nathanson Hook Liver Retractor Set
- 10 ½"w x 15"l x 7"h
  (266mm x 381mm x 177mm)
#SST4TR

SST-5 Custom Stainless Steel Sterilizing Tray with Lid for ARH 26"
- Locking latch
- Extra long tray with lid designed to hold the ARH 26" Iron Intern®
- 10 5/8"w x 31 7/8"l x 4"h
  (810mm x 270mm x 102mm)
#SST5TR
Ring Style Frames

ABDOMINAL RING RETRACTOR SET

- Complete with Ring and 4 Blades
  (2 Solid; 2 Fenestrated; ¾” wide x 2” deep)
- For minor abdominal and pediatric surgery

AMP-5250 Abdominal Ring Retractor Set with 6” Ring and 4 Blades
AMP-5260 Abdominal Ring Retractor Set with 4” and 6” Rings and 4 Blades (not shown)
AMP-5262 Malleable Blade ¾” w x 2 ¾” deep
AMP-5263 Solid blade ¾” w x 2” deep
AMP-5264 Fenestrated Blade ¾” w x 2” deep
HALF RING, MEDIUM
- For abdominal incisions
- Easy attachment to the Iron Intern®
- Can use 4-6 tilt ratchet blades
- Provides superior surgical exposure than self-retaining retractors which usually retract in only one direction.

#AMP-1631CH  Bookwalter Style Half Ring
10 ½" x 7 ¼" (267mm x 184mm)

SEGMENTED PERINEAL RING, NOTCHED
- Excellent system for perineal radical prostatectomy, anterior and posterior urethroplasty, urology-gynecology procedures, and for vaginal surgery

#AMP-1640C  Segmented Perineal Ring, Notched
9 ½" X 13 ½" (241mm x 368mm)

OVAL RINGS

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<th>#AMP-1630C</th>
<th>Oval Ring Small (not shown)</th>
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<td>8&quot; x 12 ½&quot; (203mm x 305mm)</td>
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<table>
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<th>#AMP-1631C</th>
<th>Oval Ring Medium (not shown)</th>
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<td>10 ½&quot; x 14 ½&quot; (267mm x 368mm)</td>
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<table>
<thead>
<tr>
<th>#AMP-1632C</th>
<th>Oval Ring Large</th>
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<tbody>
<tr>
<td></td>
<td>12&quot; x 18 ½&quot; (305mm x 470mm)</td>
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</table>
The Stieber Rib Grip
The Premier Retractor System for Liver Transplant, Oncology, Bariatric Surgery

The Iron Intern® Stieber Rib Grip is an open retraction system that delivers superior strength, optimum exposure, total ease of set up, and extreme flexibility.

In liver transplant, the Iron Intern® Stieber Rib Grip provides superior exposure for the precise and safe removal of organs. It is used in a great number of prominent transplant centers, and it achieves the strongest and safest exposure.

With the Iron Intern® Stieber Rib Grip, Surgeons Benefit From:

- Superior retraction of costal margins
- Easy access to entire middle, upper abdomen
- Greater autonomy and control
- Total maneuverability of retraction
- Best exposure with ratcheted handle blades
- Extreme versatility to meet procedural needs
## STIEBER RIB GRIP KIT

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>A</td>
<td>A Lees Center Platform #LEECEN</td>
</tr>
<tr>
<td>B</td>
<td>B Hydra Yoke Double Arm #HYDOYO</td>
</tr>
<tr>
<td>C</td>
<td>C Vertical Pole with Wingnut #SBPOWN</td>
</tr>
<tr>
<td>D</td>
<td>D Vertical Pole with V-Notch #SBPOVN</td>
</tr>
<tr>
<td>E</td>
<td>E Two-Piece Horizontal Bar #SB0BAR</td>
</tr>
<tr>
<td>F</td>
<td>F Grooved 3/D Swinger Rail Clamp (x2) #3DSGRV</td>
</tr>
<tr>
<td>G</td>
<td>G Stieber Small Platform (Left &amp; Right) #SBSPFL Left #SBSPFR Right</td>
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<tr>
<td>H</td>
<td>H Stieber Large Platform (Left &amp; Right) #SBLPFL Left #SBLPFR Right</td>
</tr>
<tr>
<td>I</td>
<td>I Stieber Turning Handle (x2) #SBTHAN</td>
</tr>
<tr>
<td>J</td>
<td>J Stieber Needle #SBTPIN</td>
</tr>
</tbody>
</table>

2 pairs of Stieber Ratcheted Handle Blades, type A or B (see pgs. 28-29)
Stieber Ratcheted Handle Blades

The Stieber ratcheted handle blades provide the strongest and most superior retraction. Blades are made of the highest quality stainless steel. Also available in radiolucent titanium or anodized aluminum. They can be fully customized in different sizes and designs.

### TYPE A
Ratcheted Handle Blades
- Fixed. Pivotal Pin
- Handle permanently attached to blade
- Allows blade rotation on one plane

### TYPE B
Ratcheted Handle Blades
- Slotted End. Interchangeable
- Allows blade rotation in any plane
- Allows special blades to retract the costal margins

### TYPE C
Ratcheted Handle
- With the Iron Intern® Wrist Joint
- Allows use of blades for every open abdominal procedure
- Provides range of motion in different planes

Available as Radiolucent Titanium or Fiber Optic

Fully Customizable

3 Handle Styles
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<td><strong>G-110-2A</strong></td>
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<tr>
<td>3&quot;w x 1 1/4&quot;d (76mm x 35mm)</td>
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<tr>
<td>#SBGB2A</td>
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<tr>
<td>#SBGB2B</td>
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<tr>
<td><strong>G-110-3A</strong></td>
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<td>3 5/8&quot;w x 1 5/8&quot;d (76mm x 35mm)</td>
</tr>
<tr>
<td>#SBGB3A</td>
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<tr>
<td>#SBGB3B</td>
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<td><strong>G-110-4A</strong></td>
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<td>4&quot;w x 1 1/2&quot;d (102mm x 38mm)</td>
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<tr>
<td>#SBGB4A</td>
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<td>#SBGB4B</td>
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<td><strong>G-110-5A</strong></td>
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<td>3 3/8&quot;w x 2 3/4&quot;d (86mm x 70mm)</td>
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<td>#SBGB5B</td>
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<tr>
<td><strong>G-110-5.5A</strong></td>
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<td>3 3/8&quot;w x 3 1/4&quot;d (86mm x 83mm)</td>
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<td>#SBB55A</td>
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<td><strong>G-110-6A</strong></td>
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<td>#SBGB6A</td>
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<td><strong>G-110-7A</strong></td>
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<tr>
<td>#SBGB7A</td>
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<td>#SBGB7B</td>
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<tr>
<td><strong>G-110-8A</strong></td>
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<tr>
<td>3 1/2&quot;w x 6 3/4&quot;d (89mm x 171mm)</td>
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<tr>
<td>#SBGB8A</td>
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<td>#SBGB8B</td>
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<td><strong>G-110-10A</strong></td>
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<td>3 1/4&quot;w x 2 1/4&quot;d (83mm x 57mm)</td>
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<td>#SBB10A</td>
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<td><strong>G-110-11A</strong></td>
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<td>#SBB11A</td>
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<td><strong>G-110-12A</strong></td>
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<td><strong>G-110-C</strong></td>
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<td>Type C Blade for Stieber</td>
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# Suggested Procedural Configurations

## GENERAL SURGERY/VASCULAR

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<tr>
<th>Item Description</th>
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<tr>
<td>Iron Intern® 22” Single Arm with 3/D Swinger Rail Clamp</td>
<td>ARH022</td>
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<tr>
<td>Iron Intern® 22” Hydra Double Arm with 3/D Swinger Rail Clamp</td>
<td>HYD022</td>
</tr>
<tr>
<td>G-62 Cushing Vein Blade 7/16” x 7/16” (11mm x 11mm)</td>
<td>GB0062</td>
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<tr>
<td>G-90 Eggbeater Allison, Wire 8 ¼” x 2 ½” (210mm x 64mm)</td>
<td>GB0090</td>
</tr>
<tr>
<td>G-105 Keeley – Veith Ligament Lifter 3” x 1” (76mm x 25mm)</td>
<td>GB0105</td>
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<tr>
<td>G-109 Wylie – Renal Vein 7” x 1” (179mm x 26mm)</td>
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<tr>
<td>G-2 Fritsch Blade 2 ¾” x 2 ¼” (70mm x 70mm)</td>
<td>GB0001</td>
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<tr>
<td>G-3 Fritsch Blade 2 ¾” x 3 ¼” (70mm x 82mm)</td>
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<tr>
<td>G-8 Malleable Blade 9 ½” x 2” (241mm x 51mm)</td>
<td>GB0008</td>
</tr>
<tr>
<td>G-28 Malleable Blade 9 ¼” x 2 ½” (248mm x 64mm)</td>
<td>GB0028</td>
</tr>
<tr>
<td>G-13 Kelly Blade 3 ½” x 2 ¼” (89mm x 64mm)</td>
<td>GB0013</td>
</tr>
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<td>G-14 Kelly Blade 4” x 3” (101mm x 76mm)</td>
<td>GB0014</td>
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<td>G-16 Wire Blade 3 ½” x 1 ¾” (89mm x 35mm)</td>
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<td>G-29 Foss, Bifid 5 ¾” x 3” (146mm x 76mm)</td>
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<td>G-26 Gall Bladder Wire Blade 5” x 1 ¼” (127mm x 48mm)</td>
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<td>G-53 Weinberg Blade 9” x 4 ¼” (229mm x 108mm)</td>
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## MIS BARIATRIC/LIVER RETRACTION

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<tr>
<td>Nathanson Hook Liver Retractors (S, M, L)</td>
<td>NHerls3</td>
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<tr>
<td>LC1 Greenstein Gripper</td>
<td>LC10GG</td>
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<td>LC2 Greenstein Gripper</td>
<td>LC20GG</td>
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## GENERAL SURGERY/MIS

<table>
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<td>Iron Intern® 22” Single Arm with 3/D Swinger Rail Clamp</td>
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<tr>
<td>Iron Intern® 22” Hydra Double Arm with 3/D Swinger Rail Clamp</td>
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<td>LC10GG</td>
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<td>Nathanson Hook Liver Retractors (S, M, L)</td>
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<td>S-37 Universal Handle</td>
<td>UH0537</td>
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<td>G-2 Fritsch Blade 2 ¾” x 2 ¼” (70mm x 70mm)</td>
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<td>G-3 Fritsch Blade 2 ¾” x 3 ¼” (70mm x 82mm)</td>
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<td>G-13 Kelly Blade 3 ½” x 2 ¼” (89mm x 64mm)</td>
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<td>G-20 Deaver Blade 7 ½” x 2 ½” (191mm x 64mm)</td>
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<td>G-24 B.E. Glass Blade 7 ¼” x 3 ¼” (184mm x 83mm)</td>
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<td>G-32 Heaney Blade 3 ¾” x 1 ¾” (83mm x 29mm)</td>
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<td>G-8 Malleable Blade 9 ½” x 2” (241mm x 51mm)</td>
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<td>G-28 Malleable Blade 9 ¾” x 2 ½” (248mm x 64mm)</td>
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<td>G-91 “Wise” Choice Monster Fritsch Blade 4 ½” x 3 ½” (115mm x 89mm)</td>
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<td>G-9 Universal “GEMMA” (Connection Clamp)</td>
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## OPEN BARIATRIC

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<thead>
<tr>
<th>Item Description</th>
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<tbody>
<tr>
<td>Iron Intern® 22” Jumbo Hydra Double Arm with 3/D Swinger Rail Clamp</td>
<td>HYD22</td>
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<td>Iron Intern® 22” Jumbo Single Arm with 3/D Swinger Rail Clamp</td>
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<tr>
<td>G-91 “Wise” Choice Monster Fritsch Blade 4 ½” x 3 ½” (115mm x 89mm)</td>
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<tr>
<td>G-6 Center Retractor 2 ¾” x 1 ¾” (70mm x 45mm)</td>
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<tr>
<td>G-8 Malleable Blade 9 ½” x 2” (241mm x 51mm)</td>
<td>GB0008</td>
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<tr>
<td>G-28 Malleable Blade 9 ¾” x 2 ½” (248mm x 64mm)</td>
<td>GB0028</td>
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<tr>
<td>G-37 Harrington Giant Sweetheart 8 ½” x 6 ½” (216mm x 166mm)</td>
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## LIVER TRANSPLANT

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<td>Iron Intern® 22” Hydra Double Arm with 3/D Swinger Rail Clamp</td>
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<td>Hydra Yoke Only (attaches to Lees Center Platform)</td>
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<td>1</td>
<td>G-28 Malleable Blade 9 ¾” x 2 ½” (248mm x 64mm)</td>
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<td>G-29 Foss, Rigid 5 ¾” x 3” (146mm x 76mm)</td>
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<td>2</td>
<td>G-49 Nussbaum “Moe’s Paw” 4-Finger Malleable Blade</td>
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<td>G-59 Deaver for Aneurysm 6” x 4” (152mm x 102mm)</td>
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<td>G-63 Puppytongue Gall Bladder Blade 6 ½” x 2” (165mm x 51mm)</td>
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<td>G-107 Stieber 2-Finger Malleable Blade ½” x 6” (17mm x 152mm)</td>
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<td>G-110-5 Ratcheted Blade for Stieber Kit Type A or B</td>
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<td>Lee’s Center Platform</td>
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<tr>
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<td>1</td>
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<td>Turning Handle</td>
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<td>1</td>
<td>Stieber Knitting Needle</td>
<td>SBTPIN</td>
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<td>Stieber Vertical Pole with V-Notch</td>
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<td>1</td>
<td>Stieber Vertical Pole with Wingnut</td>
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<td>3/D Swinger Rail Clamp w/ Grooves</td>
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<td>Stieber Horizontal Bar - 2 Piece</td>
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<td>Iron Intern® 22” Single Arm with 3/D Swinger Rail Clamp</td>
<td>ARH022</td>
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<td>1</td>
<td>Iron Intern® 22” Hydra Double Arm with 3/D Swinger Rail Clamp</td>
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<td>1</td>
<td>G-69 St. Mark’s Blade 7” x 1 7/8” x 2 ½” (179mm x 47mm x 61mm)</td>
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<td>G-1 Fritsch Blade 1 ¾” x 2 ½” (45mm x 64mm)</td>
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<td>G-2 Fritsch Blade 2 ¾” x 2 ½” (70mm x 70mm)</td>
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<td>1</td>
<td>G-3 Fritsch Blade 2 ¾” x 3 ¼” (70mm x 82mm)</td>
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<td>G-10 Richardson Blade 2” x ¾” (51mm x 19mm)</td>
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<td>G-11 Richardson Blade 1 ¾” x 1 ½” (35mm x 29mm)</td>
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<td>G-12 Richardson Blade 1 ¾” x 2 ½” (41mm x 64mm)</td>
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<td>G-14 Kelly Blade 4” x 3” (101mm x 76mm)</td>
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<td>G-27 Deaver Blade 7 ¼” x 4” (184mm x 101mm)</td>
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<td>G-22 Harrington Blade 7 ¼” x 2 ½” (184mm x 64mm)</td>
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<td>G-23 Harrington Blade 8 ½” x 4 ½” (216mm x 114mm)</td>
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<td>G-70 Harrington Blade 1 ¾” at Tip (41mm), Plain 10” x ¾” (225mm x 19mm)</td>
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<td>G-104 Harrington Blade 7” x 1 ½” (177mm x 37mm)</td>
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## Configurations

### ONCOLOGY

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<thead>
<tr>
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<tbody>
<tr>
<td>1 Iron Intern® 22&quot; Hydra Double Arm with 3/D Swinger Rail Clamp</td>
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<tr>
<td>1 Hydra Yoke Double Arm; Attaches to Lees Center</td>
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<td>2 G-49 Nussbaum “Moe’s Paw” 4-Finger Malleable Blade</td>
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<td>1 G-69 St. Marks Blade</td>
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<td>1 Stieber Knitting Needle</td>
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<td>1 Stieber Vertical Pole with V-Notch</td>
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<td>1 Stieber Vertical Pole with Wingnut</td>
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<tr>
<td>2 3/D Swinger Rail Clamp w/ Grooves</td>
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<tr>
<td>1 Stieber Horizontal Bar - 2 Piece</td>
<td>SB0BAR</td>
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### KIDNEY/PANCREAS TRANSPLANT

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<tr>
<td>1 Iron Intern® 22&quot; Single Arm with 3/D Swinger Rail Clamp</td>
<td>ARH022</td>
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<td>1 Iron Intern® 22&quot; Hydra Double Arm with 3/D Swinger Rail Clamp</td>
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<td>1 G-3 Fritsch Retractor Blade</td>
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<td>9 ½” x 2” (241mm x 51mm)</td>
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<td>1 G-29 Foss Bifid Blade</td>
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<tr>
<td>1 G-59 Deaver Blade for Aneurysm</td>
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<td>Four 6” Fingers, Malleable Horizontally and Vertically</td>
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<td>1 G-9 Universal “GEMMA” (Connection Clamp)</td>
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<td>1 Stieber Vertical Pole with Wingnut</td>
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<td>2 3/D Swinger Rail Clamp w/ Grooves</td>
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<td>1 Stieber Horizontal Bar - 2 Piece</td>
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## ONCOLOGY cont.

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<td>1 G-9 Universal “GEMMA” (Connection Clamp)</td>
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<td>ARH022</td>
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<tr>
<td>1 Iron Intern® 22” Hydra Double Arm with 3/D Swinger Rail Clamp</td>
<td>HYD022</td>
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<tr>
<td>1 G-1 Fritsch Blade</td>
<td>GB0001</td>
<td>1 ¾” x 2 ½” (45mm x 64mm)</td>
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<td>1 G-2 Fritsch Blade</td>
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<td>1 G-3 Fritsch Blade</td>
<td>GB0003</td>
<td>2 ¾” x 3 ¼” (70mm x 82mm)</td>
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<tr>
<td>1 G-83 Trabucco 2 Spring Hooks</td>
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<td>1 G-84 Trabucco “Dracula” 2 Spring Hooks</td>
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<td>1 G-85 “Mass Marvel” 4 Spring Hooks, Tuning Forks</td>
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<td>1 G-106 Greenstein Tuning Fork, 4-Prong Spring Retractor 6” Wide</td>
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<tr>
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<tr>
<td>1 Universal Ring Style Retractor Table Post 12”</td>
<td>AMP-1530</td>
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<tr>
<td>1 Universal Ring Style Retractor 1” Post Coupling</td>
<td>AMP-1533</td>
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</tr>
<tr>
<td>1 Universal Ring Style Retractor Horizontal Bar</td>
<td>AMP-1534</td>
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<tr>
<td>1 Universal Ring Style Retractor Horizontal Flex Bar</td>
<td>AMP-1535</td>
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<tr>
<td>1 Universal Ring Style Retractor Medium Oval Ring 10 ½” x 14 ½”</td>
<td>AMP-1631</td>
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<tr>
<td>1 Universal Ring Style Retractor Large Oval Ring 12” x 18 ½”</td>
<td>AMP-1632</td>
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<tr>
<td>1 Universal Ring Style Retractor Balfour 3” x 2 ¾”</td>
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<tr>
<td>1 Universal Ring Style Retractor Balfour 3 ½” x 2 ¾”</td>
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<tr>
<td>1 Universal Ring Style Retractor Malleable 1 ½” x 6”</td>
<td>AMP-1513NE</td>
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<tr>
<td>1 Universal Ring Style Retractor Malleable 2” x 6”</td>
<td>AMP-1515NE</td>
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</tr>
<tr>
<td>1 Universal Ring Style Retractor Malleable 3” x 6”</td>
<td>AMP-1519NE</td>
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<td>1 Iron Intern® 22” Single Arm with 3/D Swinger Rail Clamp</td>
<td>ARH022</td>
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<tr>
<td>2 G-72 Deaver Blade</td>
<td>GB0072</td>
<td>10” x 1” (225mm x 25mm)</td>
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<tr>
<td>1 G-78 Atraumatic Vaginal -Deaver/ Heaney Bladex 5” x 1” (127mm x 25mm)</td>
<td>GB0078</td>
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<tr>
<td>1 GFO-17S Deaver Fiberoptic Blade 5 ½” x 1 ½” (140mm x 38mm)</td>
<td>GFO17S</td>
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<tr>
<td>1 FOC-75 Quick-On Fiber Optic Cable Long (3.3 meters)</td>
<td>FOC756</td>
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<td>1 Iron Intern® 17” Single Arm with 3/D Swinger Rail Clamp</td>
<td>ARH017</td>
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<tr>
<td>1 G-111 Malleable Blade</td>
<td>GB0111</td>
<td>7” x 1” (179mm x 26mm)</td>
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<tr>
<td>1 G-112 Right-Angle Blades, Set of 5</td>
<td>GB0112</td>
<td>(7, 10, 14, 17, 20mm)</td>
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<tr>
<td>1 G-113 Cochran Pediatric Blades, Set of 5</td>
<td>GB0113</td>
<td>(7, 10, 14, 17, 20mm)</td>
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<tr>
<td>1 G-114 Smith Anal Pediatric Blades, Set of 2</td>
<td>GB0114</td>
<td>(18mm x 61mm) (24mm x 65mm)</td>
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<tr>
<td>1 G-115 Cushing Retractors, Wire, Solid Set of 2</td>
<td>GB0115</td>
<td>(20mm x 32mm)</td>
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<tr>
<td>1 G-116 Cushing Blades, Pediatric, Wire, Solid Set of 3</td>
<td>GB0116</td>
<td>(11, 16, 23mm)</td>
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<tr>
<td>1 G-85 “Mass Marvel” 4 Spring Hooks, Tuning Forks</td>
<td>GB0085</td>
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<tr>
<td>1 G-106 Greenstein Tuning Fork, 4-Prong Spring Retractor 6” Wide</td>
<td>GB0106</td>
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The Iron Intern® Supports A Wide Spectrum Of Surgical Specialties

- General Surgery
- Bariatric
- Laparoscopy
- Vascular
- Transplant
- Oncology
- Pediatric
- Urology
- Colon Rectal
- Gynecology
- Plastic Surgery
- Orthopedics
- Thoracic
- Otolaryngology
- Oral/Maxillofacial
- Veterinary...

Photo courtesy of Dr. Seigo Nishida

The Iron Intern® and NHL5MM in use with the Da Vinci® Robot
Suggested Clinical Set-Ups

Abdominal Aortic Aneurysm  
Cholecystectomy  

Colon Resection  
Duodenal Ulcer  
Hysterectomy  

Mastectomy  
Thoracotomy  
Vagotomy
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<td>HYDRA 22”</td>
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<tr>
<td>HYDRA 26”</td>
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Automated Medical Products Corp.

Automated Medical Products (AMP) is the leader in articulated surgical retraction. AMP has a long and rich history of manufacturing excellence, engineering, craftsmanship, and innovation.

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