Our Promise

We are pleased to provide our surgical colleagues with this new edition of our catalogue. We hope that its format, design and structure will effectively introduce our new products and provide ease of access to the long established quality instruments which have proven their utility in your operating rooms. We are also delighted to introduce our new web site available at www.ironintern.com. We hope that both our new catalog and website will provide you with information and direction as to the functionality and ease of use of the Iron Intern® and its related products.

Mission

Automated Medical Products and its related companies have provided quality surgical instruments since 1914. We are proud of this long history of making and distributing quality products to the surgical community. Automated is dedicated to creative improvement, superior engineering and craftsmanship. Our customers know the excellence and dependability of our products. Our products are manufactured in the United States, Switzerland and Germany. They are designed to meet your exacting professional criteria and manufactured to meet the highest quality standards.

History

Dr. Dbaly, in Switzerland, conceived a table mounted surgical retraction system. Hans Meier developed a mechanical arm that could be positioned to hold the retractor as the surgeon desired and lock the shoulder, elbow and wrist joints by simply tightening a wing nut at the elbow joint, based on the ideas of Dr. Dbaly. The Octopus Retractor Holder, know as the Iron Intern® in the United States, was introduced to the surgical community in the spring of 1976, in Munich. The Iron Intern®, with the addition of the most versatile rail clamp in the world, the “3-D Swinger”, and its modifications, has truly become a world class instrument. In September 1989, Andrei Steiber, MD described the use of the Iron Intern® in hepatic transplantation. The Steiber Rib Grip Kit® is the premier liver transplant system.

We designed and developed laparoscopic instruments for use with the Iron Intern®. The first instruments were developed in 1992 as a system of grippers. Robert Greenstein, MD described their use in laparoscopic surgery. Automated Medical Products Corp. became the first to design and develop the Articulating Dissector to place a Lapband® around the esophageal junction with the stomach. We introduced Nathanson Hooks Liver Retractors to the United States for use during laparoscopic procedures. The Iron Intern® has become the leader in Bariatric surgery, both in laparoscopic and open procedures.

Promise

We will continue to strive to improve our products, develop new ideas and work with our professional friends to bring their concepts to fruition.

Dr. Jerry M. Brown, CEO
and Janice Polites, President

Intern® in hepatic transplantation. The Steiber Rib Grip Kit® is the premier liver transplant system.

Because of Automated Medical Products Corp continuing program of research and development, all prices, specifications, and descriptions are subject to change without notice. Suitability for the use of these instruments for any procedure is determinated by the user. No liability is assumed for individual or consequential damages of any kind.
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Automated Medical Products is the only company that can deliver you the **Iron Intern®**, your tireless surgical assistant. Our company continually serves the surgical world. For over 30 years, with great success, we are providing the highest quality holders, retraction and accessories. All instruments are made from stainless steel. Our quality Swiss products are the best choice for every surgeon.

A steady hand, always applying the right pressure, enabling you to adjust its grip to your exact requirements. He never falters no matter how long the procedure. He always permits optimal vision and maximal access to the operative site. As a result, your procedure goes more smoothly, and you have the precision and control you need for superb results.

**When you use the Iron Intern® everyone benefits:**

**Patient**
- Less risk of trauma through slippage. The Iron Intern® locks in place and will not move.
- Less risk of wound trauma. The Iron Intern® remains steady and constant.
- Less risk of hematoma and other trauma from pressure on tissues, as the Iron Intern® does not depend on tissue to hold its position.
- Suitable for fragile organs such as liver, pancreas and intestines.
- Often less time under anesthesia, since Iron Intern® can shorten the procedures.

**Surgeon**
- Constant exposure even after many operating hours.
- Optimal access to the surgical site. No longer has to work around hands of the assistant.
- Reliable traction of exact tension desired—from a few grams to 12 kilos (26 ½ lbs.).
- Total maneuverability of retractors through a full range of motion, thanks to a design that mimics the human arm.
- Hands are used for operating, not retraction.
- Not having to instruct an assistant in retractor placement can reduce procedure time.
- The ability to perform some procedures without assistants, when necessitated by major catastrophes or war. In normal circumstances, often only a single assistant is needed.
- Set up and repositioning is quick and easy. Totally independent, the Iron Intern® does not require frames or holders. The simple clamp can be loosened to reposition the retractor. A single wing nut fixes the arm in the position wanted.
- Greater control over results, as the surgeon positions, adjusts and fixes the retractors.
- Hands are free to assist surgeon.
- Since not needed for retraction, staff can concentrate on other important tasks.
- Clean up is quick and simple. The Iron Intern® can be autoclaved as one unit.
- Medical students learn better, since attention is not divided between retraction duties and observation.

**Hospital**
- Fewer scrubbed staff means lower cost in terms of disposable gowns, masks, gloves, booties.
- Better staff utilization has enabled some institutions to open additional operating theaters.
- “Interchangeable retractor blades can be used for a wide range of procedures, even transplants and laparoscopic surgery. No need to buy special retractors for varying specialties. All of them are available from Automated Medical Products Corporation.”
- “Attachable handles allow blades to be used manually, where required.”
Fields of Surgical Application:

- General
- Laparoscopic
- Bariatric
- Plastic
- Colon-Rectal
- Vascular
- Gynecology
- Transplantation
- Urological
- Pediatric
- Orthopedics
- Thoracic
- Otolaryngology
- Oral
- Maxillo-Facial
- Veterinary

A 3/D Swinger (rail clamp) permits complete versatility of positioning at the site of fixation to the operating table. The 3/D swinger allows the bar to be tilted from side to side 180 degrees. With the Iron Intern®, a simple adjustment of the 3/D Swinger permits rotation of the long bar up to 360 degrees.

B The Vertical Pole allows you to adjust the length of the main support of the articulating mechanical arm by locking it at your required position and tightening the 3/D Swinger on the rail.

C Iron Intern® arm functions like a human arm with a shoulder, elbow, and wrist joint. Releasing and locking the wingnut at the elbow joint locks all three. This allows surgeons to adjust the arm to any required position.

The wrist joint holds our large selection of retractors for specific surgery needs. The Universal “Gemma” Connection Clamp (G9) makes using other brand name retractors possible.
Iron Intern®

Iron Intern® comes in single and double arms.

**Automatic Retractor Holder - ARH 22”**
Standard Iron Intern® Single pole with 3/D swinger (U.S Patents). Vertical pole is 22” long. Iron Intern® is a steady retractor always applying the right pressure, enabling you to position the retractor to your exact requirements.

**Automatic Retractor Holder - ARH 17”**

**Automatic Retractor Holder - ARH 22” Jumbo**
Iron Intern® Single pole with 3/D swinger (U.S Patents). Vertical pole is 22” long. Jumbo Iron Intern® is specially designed for Bariatric procedures. Shoulder and elbow joints are larger. Larger joints make the instruments stronger and more resistant to applied pressure.

**Iron Intern® lends an extra hand in surgery.**

**Hydra Double Arm**
Hydra 22” Iron Intern® (U.S. Patent) double arm allows the surgeon to use two arm holders instead of one. Includes:
- Hydra Pole
- 3/D Swinger
- Hydra Yoke

**Hydra Jumbo Double Arm**
Jumbo Hydra 22” Iron Intern® is especially designed for Bariatric procedures. Larger joints make the instrument stronger and more resistant for applied pressure.

**Hydra Yoke**
Hydra Yoke is used in Stieber Rib Grip Kit. Attaching the Hydra Yoke to the Lees Center Platform which is located on the Horizontal Bar, gives a surgeon the ability to use two additional arms with that system.

**Cowan Gripper**
May be used in many procedures. It is an articulated arm which attaches with a C clamp. It may be attached to not only the Iron Intern® system but to other systems, for example a flat ring surgical system.
Automated Medical Products Corporation is constantly working with surgeon’s new upgrades and inventions to improve the product, its functionality and quality.

**3/D Swinger with grooves**
The newest design provides better locking mechanism for the 3/D Swinger rail clamp (Patent Pending). Inserting grooves inside the inner collar of the table clamp guarantees the vertical pole will be locked in place and stable even under very strong pressure. Please request 21 day free trial to see how it works.

**Collapsible Pole**
To provide convenient sterilizing of the Iron Intern® arm, Automated Medical Products Corp. designed a collapsible pole (Patent Pending) that can easily fit into a sterilizing tray.

**Stieber Blades with attached fiberoptic carrier**
Allows the perfect visibility in places where it is needed most. This idea makes complicated open abdominal procedures easier and safer. Please see companion item, Teasdale Sternal Ratched Platform.

**Teasdale Sternal Ratchet Platform**
The Teasdale Sternal Platform (Patent Pending), when used in Esophageal or HBP surgery, enables the surgeon to obtain maximum exposure by lifting the Sternum under direct control. Increased Sternal lift can be obtained by simply tightening the ratchet mechanism to give maximum exposure. Additionally, the platform holds the Iron Intern® Hydra articulating double arm mechanical retractor system for use when retracting the liver and any other internal structures, which require retraction.

When fully assembled, the retractor system (including the platform) can be tilted towards the patients head resulting in obtaining minimal operative site restriction due to the upright bars and crossbar of the retractor system, which is totally unique to the Iron Intern® system.

*Pictured from left Teasdale Sternal Ratchet Platform, Right Teasdale Sternal Ratchet with Stieber Blade.*

**Pediatric Hooks Retractor**
Introducing the unique pediatric liver retractor hooks (Patent Pending) for use in minimally invasive surgery. This new design takes into consideration the anatomy of the pediatric patient. It provides for ease of insertion through the abdominal wall to retract the liver in pediatric surgery. These retractors are available as a set of two (small and medium).
**Cooley Sternum Retractor**
- G-5623 Retractor shown opens to 7 ½” between blades. The Cooley Retractor has a hardened rack and pinion with self-locking feature, called Finochietto design, which assures smooth and positive action. The attached blades are curved. A longer rack can be furnished to permit up to a 10” opening between blades.

**O’Sullivan-O’Connor Abdominal Retractor**
Stainless Steel, Complete with 3 Blades. This retractor has several improved features. It opens to a larger diameter of circle than any other O’Sullivan-O’Connor Retractor on the market. The full diameter of the opening is approximately 8 ¼”. The instrument is of strong construction, locks automatically and unlocks easily. No small parts can be lost – all such parts are permanently affixed to the retractor.
- G-5560 O’Sullivan-O’Connor Retractor complete with 2 small blades and 1 large blade
- G-5561 Small Blade 1 ¾” x 3”
- G-5562 Large Blade 2 ¾” x 4”

**Abdominal Ring Retractor**
Stainless Steel. This unit is available with 4” or 6” Diameter Ring. Four Blades are included with the ring, two of the blades are solid and two are fenestrated. Blades are approximately ¾” wide by 2” deep. This is a lightweight instrument for minor abdominal surgery where good exposure is important. This unit is also useful for infant and child surgery. Adjustment to blades is quick, positive and no parts can become detached or lost from the ring.
- G-5250 Abdominal Ring Retractor with 6” Ring and 4 Blades
- G-5260 Abdominal Ring Retractor with 4” and 6” Rings and 4 Blades
- G-5262 Malleable Blade ¾” x 2 ¾”

**Sage Tonsil Snare**
- G-1132 This new, improved, tonsil snare is designed to enable the operator to snare the tonsil slowly, in stages, without the slightest back pressure to the hand. Ratchets automatically engage the stylet and hold in desired position while snaring of tonsil is in progress. The wire holding stylet is a round bar with ratchets on the lower circumference. A half turn quickly releases the stylet and it may then be pushed forward or withdrawn completely. Wire changing is simple matter. This Ratchet Snare is a rugged and versatile instrument well adapted to the Sage, Wright, or Beck Technique. It uses inexpensive cut formed snare wire. For best results use No. 7 x 4 ¼” or No. 7 x 4 ½” snare wires with this instrument. Each instrument includes one dozen snare wires ready to use.

**Balfour Retractor with Detachable Lateral Blades and Exclusive Trigger Lock**
**Lifetime Guarantee** This new retractor employs the latest in design features, making it the leader in its field. It is trigger controlled with positive automatic ratchet retaining design and has versatility with many styles of interchangeable lateral blades. Its free smooth movement of all parts allows for ease of operation. Various improved small locking parts are permanently attached to the instrument and thereby cannot become detached or lost.
- G-5200 Improved Balfour Retractor Unit includes choice of one center blade and 2 pair detachable lateral wire blades, 2 ½” and ½” deep
- G-5200A Improved Balfour Retractor Unit with extra wide opening of 10 ½” inside includes 2 pair of detachable lateral wire blades and one center blade. Standard wire blades 2 ½” and 3 ½” deep
- G-5201 Extra wire lateral blades 2 ¼”, 3 ½” or 4” deep, pair
Iron Intern® for Laparoscopic Surgery

The Iron Intern® is helpful in general, bariatric, and transplantation surgery. The Iron Intern® is adapted for laparoscopic surgery with the use of the Greenstein Grippers and the Nathanson Hook Liver Retractors and other laparoscopic instruments.

ARH 22"
with LC1 Greenstein Gripper

Hydra 22"
with LC1 and LC2

ARH 22"
with the Nathanson Liver Retractor, medium size
“A mechanical retractor, which mimics the human arm (the Iron Intern®, Automated Medical Products Corp.), is of much utility in general Bariatric, and transplantation surgery. It has now been adapted for laparoscopic surgery by developing ‘Grippers’. These Grippers act as a substitute for the human fingers, which hold laparoscopic instruments. Three different Grippers are available; they either fix laparoscopic instruments directly or fix the trocar through which the laparoscope will pass.

“Three grippers have been developed. The first, ‘Gripper #1’ (LC1), is designed to hold standard cylindrical laparoscopic instruments. It has flat gripping surfaces whose intent is to minimize trauma to the gripped instrument by dispersing the region of compression over as large an area as possible. The two other Grippers hold the trocar through which the laparoscope itself will pass. ‘Gripper #2’ (LC2) attaches a disposable trocar, while ‘Gripper #3’ (LC3) will hold a reusable metal trocar.

“The apparatus permits two surgeons to perform a supine laparoscopic cholecystectomy. Routinely, two grippers are used, one to hold the trocar for the camera and a second to fix the fundic grasping instrument. A third gripper can be used to retract Hartmann’s pouch or vision-obscuring liver or small bowel. When conversion to laparotomy is necessary, the retractor is of equal utility in providing exposure.”

By Robert Greenstein

The Iron Intern® is adapted for laparoscopic surgery with the use of the Greenstein Grippers and the Nathanson Hook Liver Retractors.

Nathanson Hook Liver Retractors

Nathanson Hook Liver Retractors is designed specifically to retract the liver during laparoscopic surgery. When required, these hooks hold the liver out of the way for the duration of the surgery. They come in a set of three (small, medium, and large) allowing the surgeon alternative options during the procedures. The Nathanson Hook Liver Retractors are easy to clean and lasts forever. During surgery, they are held by Iron Intern®.

Dbaly Liver Hooks for Iron Intern®

For surgery in the upper abdomen, i.e. gallbladder, hiatal hernia, lap band and gastric bypass, one has to hold lobes of the liver out of the range of vision for the surgeon. Since assistants are not fatigue-proof, there is a chance of damage to the liver due to movement of instruments. These injuries can be avoided by using the special J-form retractors.

Right: gallbladder – liverhook
Left: hiatal hernia – liverhook

The retractors are introduced through a 5mm hole, left of the xiphoid process and placed at the visceral area of the liver. Use of the Iron Intern® retractor holder throughout the whole process can avoid damage to the liver by providing a stable retractor position.
O’Brien Lap Band Set

A set of three O’Brien instruments is used with the Lap Band® System from Inamed. In an effort to simplify the Lap Band gastric banding procedure, Paul O’Brien, MD has designed the following instruments:

**O’Brien Introducer**
- Designed to introduce the band into the abdominal cavity.

**O’Brien Placer**
- Designed to assist the passing of the Lap Band® behind the esophagus.
  - A flexible tip with a notch allows the instruments to enter a 5mm trocar.
  - The tip is blunt so the possibility of perforating structures is minimized.

**O’Brien Closer**
- Designed to facilitate the closing of the lap band. The O’Brien Lap Band® Closer is 10mm in diameter and has a non-traumatic, smooth end.

**Dissector • Retractor**

*Extra Long Articulating Dissector*
- Articulation to 90° • Slotted tip to carry ligatures, arterial tapes, bands… • Lightweight
  - Long-life insulation material
  - Disassembles for thorough cleaning

*Eccentric “Y” Adjustable Finger Retractor*

Permits working between retractor blades • Blades open 35° • Lightweight • Long-life insulated blades • Disassembles for thorough cleaning • Long RIGHT blade specifically designed for fundoportal dissection with challenging gall-bladders • Long LEFT blade to maximize exposure at the esophageal hiatus • EQUAL length blades for general use in all minimally invasive surgery

**Deep Suture**

*Deep Suture* is an exceptional device for safe and easy closing of the fascia during minimally invasive surgery. This reusable device is placed under video observation while maintaining pneumoperitoneum. In two easy movements the needles and sutures are placed and driven through the fascia while under continuous observation by the surgeon. Since all of the manipulations are done under direct video observation, the surgeon and staff can feel confident that the wound will be closed without catching extraneous material.

*Deep Suture* has a flush port for thorough cleaning, different length needles, and various suture materials available exclusively for the device. The solidly engineered low-cost *Deep Suture* device fits comfortably in the surgeon’s hand and the exclusively designed swedged-on needles/sutures are constructed to minimize the possibility of any needles becoming “lost” in the abdominal cavity and to maximize the safe and efficient closing of the fascia.

**Polypropylene Suture**
- 24-00004 3cm Needle, 60cm Suture
- 24-00005 5cm Needle, 60cm Suture

**Chromic Gut Suture**
- 24-00006 3cm Needle, 60cm Suture
- 24-00007 5cm Needle, 60cm Suture
Please note: we can attach fiberoptic light carrier on each blade except the malleable type.
**RETRACTORS**

**MALLEABLE**

- **G49** Nussbaum, “Moe’s Paw” Liver Retractor, with four 6” fingers, malleable horizontally and vertically
- **G107** Stieber 2 finger Malleable 1/2” x 6” 17mm x 152mm
- **G108** 6 Finger Malleable 3/8” x 6” 9mm x 152mm

**VASCULAR**

- **G62** Cushing Vein Retractor 7/16” x 7/16” 11mm x 11mm
- **G90** Eggbeater Allison, Wire 8 1/4” x 2 1/2” 210mm x 64mm
- **G105** Keeley – Veith Ligament Lifter 3” x 1” 76mm x 25mm
- **G109** Wylie – Renal Vein 7” x 1” 179mm x 26mm

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**G54**  Army Navy (sold only in pairs)
- 1" x 5/16"  
- 2" x 5/16"

**G63**  Murphy Puppytongue Gall Bladder Retractor
- 6 1/2" x 2"  
- 165mm x 51mm

**G69**  St. Mark’s
- 7" x 1 1/6" x 2 3/8"  
- 179mm x 47mm x 61mm

**G79**  “Sweetlips” Special Retractor for bariatric and abdominal surgery, “lipped” to control liver lobe
- 6 1/2" x 3"  
- 165mm x 76mm

**G88**  Herman Hallmark Liver Retractor, plain
- 8 1/2" x 2 1/2"  
- 216mm x 64mm

**G89**  Herman Hallmark Liver Retractor, plain
- 7 1/2" x 2 1/8"  
- 191mm x 54mm

**G117**  Fascia Lifter
- 6 3/8" x 1 3/8"  
- 157mm x 35mm

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Skin Hooks and Rakes

G83  Trabucco 2 Spring Hooks
G84  Trabucco “Dracula” 2 Spring Hooks
G85  “Mass Marvel” 4 Spring Hooks, tuning forks
G106 Greenstein Tuning Fork,
     4 Prong Spring Retractor 6” wide
G94  Printen 6” wide, 14 teeth, 1” teeth pullers,
     for Panniculectomy

G95  Printen 8” wide, 18 teeth, 1” teeth pullers,
     for Panniculectomy
G96  Printen 6” wide, 14 teeth, 2” teeth pullers,
     for Panniculectomy
G97  Printen 8” wide, 18 teeth, 2” teeth pullers,
     for Panniculectomy

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### Retractors with Fiberoptics

<table>
<thead>
<tr>
<th>Model</th>
<th>Brand</th>
<th>Description</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>GFO 3</td>
<td>Fritsch</td>
<td>2 ¾” x 3 ¼”</td>
<td>70mm x 82mm</td>
</tr>
<tr>
<td>GFO 17B</td>
<td>Deaver</td>
<td>Deaver, shortened for OB/GYN and other abdominal procedures</td>
<td>5 ½” x 1 ½”</td>
</tr>
<tr>
<td>GFO 18B</td>
<td>Deaver</td>
<td>Deaver, shortened for OB/GYN and other abdominal procedures</td>
<td>5 ½” x 2 ½”</td>
</tr>
<tr>
<td>GFO 20</td>
<td>Deaver</td>
<td>7 3/8” x 2 ½”</td>
<td>188mm x 64mm</td>
</tr>
<tr>
<td>GFO 21</td>
<td>Deaver</td>
<td>7 ¼” x 1 ½”</td>
<td>184mm x 38mm</td>
</tr>
<tr>
<td>GFO 25</td>
<td>Weinberg “Joe’s Hoe”</td>
<td>6 ½” x 3 ¾”</td>
<td>165mm x 95mm</td>
</tr>
<tr>
<td>GFO 27</td>
<td>Deaver</td>
<td>7 ¼” x 4”</td>
<td>70mm x 82mm</td>
</tr>
<tr>
<td>GFO 53</td>
<td>Giant Weinberg, “Joe’s Hoe”</td>
<td>9” x 4 ¼”</td>
<td>229mm x 108mm</td>
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<tr>
<td>GFO 71</td>
<td>Harrington, rectal</td>
<td>10” x ¾”</td>
<td>225mm x 19mm</td>
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<tr>
<td>GFO 74</td>
<td>Deaver</td>
<td>10” x 1”</td>
<td>225mm x 25mm</td>
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Please note: we can attach fiberoptic light carrier on each blade except the malleable type.
### Attachments with Fiberoptics

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>GFOT 76</td>
<td>Transilluminator</td>
<td>8&quot; long 203mm</td>
</tr>
<tr>
<td>GFO 77</td>
<td>Atraumatic Vaginal Deaver/Heaney, heavy metal rounded edges</td>
<td>5&quot; x 1&quot; 127mm x 25mm</td>
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<tr>
<td>GFO 80</td>
<td>Giant “Sweetlips” special retractor for bariatric and abdominal surgery, “lipped” to control liver</td>
<td>6 ½&quot; x 3&quot; 165mm x 76mm</td>
</tr>
<tr>
<td>GFO 82</td>
<td>Giant “Sweetlips” special retractor for bariatric and abdominal surgery, “lipped” to control liver</td>
<td>8&quot; x 3&quot; 203mm x 76mm</td>
</tr>
<tr>
<td>GFO 88</td>
<td>Herman Hallmark Liver Retractor</td>
<td>8 ½&quot; x 2 ½&quot; 216mm x 64mm</td>
</tr>
<tr>
<td>GFO 89</td>
<td>Herman Hallmark Liver Retractor</td>
<td>7 ½&quot; x 2 1/8&quot; 191mm x 54mm</td>
</tr>
<tr>
<td>GFO 91</td>
<td>“Wise” Choice Monster Fritsch Retractor</td>
<td>4 ½&quot; x 3 ½&quot; 115mm x 89mm</td>
</tr>
<tr>
<td>FOC 75</td>
<td>Fiberoptic Cable</td>
<td>10‘ long 3.3 meters</td>
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<tr>
<td>Item</td>
<td>Description</td>
<td>Measurement</td>
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<tr>
<td>------</td>
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</tr>
<tr>
<td>G35</td>
<td>Volkman, 1 Prong Skin Hook</td>
<td>1 3/8&quot; x 1 1/2&quot;</td>
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<tr>
<td>G38</td>
<td>Frazier, curved, 4 prong</td>
<td>1 3/8&quot; x 1 1/2&quot;</td>
</tr>
<tr>
<td>G39</td>
<td>Glazer, sm., 3 prong</td>
<td>2 3/4&quot; x 1 1/4&quot;</td>
</tr>
<tr>
<td>G40</td>
<td>Glazer, lg., 4 prong</td>
<td>2 3/4&quot; x 1 3/4&quot;</td>
</tr>
<tr>
<td>G41</td>
<td>Scoville, lg., 4 prong</td>
<td>2 1/2&quot; x 1 3/4&quot;</td>
</tr>
<tr>
<td>G42</td>
<td>Scoville, sm., 4 prong</td>
<td>1 5/8&quot; x 1 1/2&quot;</td>
</tr>
<tr>
<td>G43</td>
<td>Taylor, lg., 4 prong</td>
<td>2 1/2&quot; x 2 1/4&quot;</td>
</tr>
<tr>
<td>G44</td>
<td>Taylor, sm., 3 prong</td>
<td>1 3/4&quot; x 1 1/2&quot;</td>
</tr>
<tr>
<td>G45</td>
<td>Bennett, sm. (not pictured)</td>
<td>5 1/4&quot; x 1 3/4&quot;</td>
</tr>
<tr>
<td>G46</td>
<td>Bennett, lg.</td>
<td>5 1/2&quot; x 2 1/2&quot;</td>
</tr>
<tr>
<td>G47</td>
<td>Charnley, sm.</td>
<td>1 3/4&quot; x 1&quot;</td>
</tr>
</tbody>
</table>

Please note: we can attach fiberoptic light carrier on each blade except the malleable type.
### Orthopedic Retractors

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
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<tbody>
<tr>
<td>G48</td>
<td>Charnley, lg.</td>
<td>2 ¾&quot; x 1&quot; 70mm x 25mm</td>
</tr>
<tr>
<td>G50</td>
<td>Hibbs, 9 sharp teeth</td>
<td>3&quot; x 4&quot; 76mm x 51mm</td>
</tr>
<tr>
<td>G51</td>
<td>Epstein, 6 teeth</td>
<td>2 ½&quot; x 1&quot; 64mm x 25mm</td>
</tr>
<tr>
<td>G52</td>
<td>Myerding, 21 teeth</td>
<td>3 ½&quot; x 2&quot; 89mm x 51mm</td>
</tr>
<tr>
<td>G55</td>
<td>Rake, 7 Prong</td>
<td>2&quot; x 1 ¼&quot; 51mm x 32mm</td>
</tr>
<tr>
<td>G65</td>
<td>Hohman Orthop, 2 Prong, 4 Shafts</td>
<td>6 ½&quot; x 1 ¾&quot; 165mm x 45mm</td>
</tr>
<tr>
<td>G102</td>
<td>Hibbs, 3 teeth</td>
<td>1&quot; x 3&quot; 25mm x 76mm</td>
</tr>
<tr>
<td>G103</td>
<td>Hibbs, 3 teeth</td>
<td>1&quot; x 4&quot; 25mm x 102mm</td>
</tr>
<tr>
<td>033-036</td>
<td>Hohmans, set of 4 - Orthopedic Retractors, each set has 4 blades for greater versatility</td>
<td></td>
</tr>
</tbody>
</table>

Please note: we can attach fiberoptic light carrier on each blade except the malleable type.
### Mc Burneys

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>G60</td>
<td>1&quot; x 1&quot;</td>
<td>25mm x 25mm</td>
</tr>
<tr>
<td>G61</td>
<td>5/8&quot; x 5/8&quot;</td>
<td>16mm x 16mm</td>
</tr>
<tr>
<td>G86</td>
<td>1&quot; x 1/2&quot;</td>
<td>38mm</td>
</tr>
<tr>
<td>G87</td>
<td>2&quot;</td>
<td>51mm</td>
</tr>
</tbody>
</table>

### Oral

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>G66</td>
<td>Austin, Oral with 2 sharp teeth</td>
<td>3&quot; x 3/4&quot; 77mm x 19mm</td>
</tr>
<tr>
<td>G67</td>
<td>Black, Oral</td>
<td>2 3/4&quot; x 1&quot; 70mm x 25mm</td>
</tr>
<tr>
<td>G68</td>
<td>Shuman, Oral</td>
<td>2&quot; x 1 1/4&quot; 51mm x 32mm</td>
</tr>
</tbody>
</table>

Please note: we can attach fiberoptic light carrier on each blade except the malleable type.
Please note: we can attach fiberoptic light carrier on each blade except the malleable type.
## Accessories

**G9** Universal “Gemma” Connection Clamp with the Iron Intern® makes using of other brand name retractors possible.

**CCR1** “C” clamp with OR bed rail.

**G57** Wrist Rest for Neurosurgery straight shaft with platform

5" x 1 1/8" 127mm x 29mm

**G58** Wrist Rest for Neurosurgery angled shaft with platform (not pictured)

5" x 1 1/8" 127mm x 29mm

**G9 CCR1 G57**

**S37** Universal handle fits to all Iron Intern® retractors, giving the system greater versatility whenever manual retracting is preferred.

**SST1** Stainless Steel Sterilizing Tray, Large. This tray will hold Iron Intern® arm, 3/D Swinger and the blades, and the Nathanson Hooks Liver Retractor Set (due to the height of the hooks they will stick out from the tray).

9" W x 26" L x 3 1/2" H 229mm x 660mm x 89mm with 2 handles

**Wing Nuts- Jumbo and Standard**

**Jumbo Wing Nut** used only at the elbow joint of the Jumbo arms of Iron Intern®.

**SST3** Stainless Steel Sterilizing Tray w/cover for retractors. Recommended using for sterilization of small blades or pediatric retractors.

6 1/2" W x 10" L x 25" H

163mm x 252mm x 65mm

**SST4** Stainless Steel Sterilizing Tray with locking latch and removable lid is designed to hold Nathanson Hook Liver Retractor Set

10 1/2" W x 15" L x 7" H
Iron Intern® Stieber Rib Grip was developed in Pittsburg, PA the site of the first liver transplants in the USA. Currently it is being used in the majority of all Transplant Centers in the world. The Stieber Rib Grip Kit provides superior exposure in the abdomen. Safety and security of the patient is assured with the use of the Stieber Rib Grip Kit because of its unique design and Swiss precision manufacturing. The design advantages include its ease of set up and extreme versatility. It functions as human arm with a shoulder, elbow and wrist joints. It accommodates blades for pediatric as well as adult patients. The prime difference from all other retractors is its ability of holding the organ itself for precise and safe removal. When installing the donor organ it provides optimum positioning for the anastomosing of the vessels and structures involved. Other retractors only hold the coastal margins or the abdominal wound site and not the internal organs.

The Stieber Rib Grip Kit contains:

2 Vertical Poles each with 3/D Swinger Rail Clamp
1 Two-pieced horizontal bar,
2 Stieber #4 blade
2 Stieber #5 blade
1 Stieber right large platform
1 Stieber left large platform
1 Stieber right small platform
1 Stieber left small platform
2 Stieber turning handles
2 Stieber ratcheted handles
1 Stieber needle
1 Lees Center Platform—special platform with wing nut for Stieber Kit, which allows the addition of a Hydra Yoke the two-arm retractor holder

Cowan Gripper the choice of one arm instead of using Hydra Yoke with Lees Center Platform
Using the Lees Center Platform with the Stieber Rib Grip Kit 2-piece horizontal bar allows the addition of a Hydra Yoke with the ability to hold two more retractor blades. The addition of these two “hands” provides maximum operative exposure and reduces the requirement of additional assistants.

The 2-piece horizontal bar provides extra benefits by allowing the vertical poles to face away from each other and providing a greater control and increased range of motion. The horizontal bar is easily disassembled to fit in an autoclave.

The Stieber Rib Grip Kit is surgeons’ choice for many different surgical procedures like liver transplant and open bariatric.
G110 - Stieber Rib Grip Kit

Stieber blades come in three different types A, B, and C.

Type A is the original style blades where the pivotal pin is fixed at the center of the blade to the end of the ratcheted handle. This allows rotation in one plane only. The ratcheted handle is attached permanently with the blade.

Type B ratcheted handle with a slotted end which accepts special blades used to retract the coastal margin.

Type C ratcheted handle that has an Iron Intern® wrist joint mounted at the end, which provides range of motion in planes and allows the use of any Iron Intern® retractor. Using the type C blades allows for special use of specific blades (for example pediatric blades). The wide spectrum and versatility of the type C blade makes the Stieber Rib Grip Kit perfect choice for every open abdominal procedure.
Surgery Kits

To further assist you Automated Medical Products Corp has prepared suggested surgery sets of its products to use as a guideline while arranging your own customized set(s).

Liver Retraction Minimally Invasive Surgical Procedure
1 Nathanson Hook Liver retractor set of 3
1 ARH 22” Iron Intern® Single Arm with 3/D Swinger
1 LC 1 Greenstein Gripper
1 LC 2 Greenstein Gripper

Specialty Instruments for Minimally Invasive Procedure
1 Nathanson Hook Liver Retractor set of 3
1 ARH 22” Iron Intern® Single Arm with 3/D Swinger
1 LC 1 Greenstein Gripper
1 LC 2 Greenstein Gripper
1 LC 3 Greenstein Gripper
1 O’Brien Lap Band Set: Introducer, Placer, Closer
1 Deep Suture
1 Articulating Dissector
1 Eccentric Y
1 Dbaly Hooks

General Surgery Kit (Basic)
1 ARH 22” Iron Intern® Single Arm with 3/D Swinger
1 Hydra 22” Iron Intern® Double Arm with 3/D Swinger
2 G3 Fritsch
1 G8 Malleable
1 G28 Malleable
1 G29 Malleable
Please check the catalog for additional choice of:
Fritsch’s, Richardson’s, Kelly’s, Deaver’s Harrington’s and Malleable’s (Ribbons)

G110 Stieber Rib Grip Kit
1 Vertical Pole with Wing Nut with 3/D Swinger Rail Clamp
1 Vertical Pole with V-Notch with 3/D Swinger Rail Clamp
1 Horizontal bar
1 Large Left Platform
1 Large Right Platform
1 Small Left Platform
1 Small Right Platform
2 Stieber Turning Handle
1 Stieber Needle
2 Stieber Blade G110-4 type A or B
2 Stieber Blade G110-5 type A or B
1 Lees Center Platform
1 Hydra Yoke Double Arm – attaches to Lees Center Platform
1 Cowan Gripper single arm
(Optional instead of using Hydra Yoke Double Arm)

Greenstein Bariatric Set
1 Jumbo Hydra 22” Iron Intern® Double Arm
1 Jumbo 22” Iron Intern® Single Arm
1 G99 Greenstein Gate Slotted
1 G100 Greenstein Gate Slotted
1 G91 “Wise” Choice Monster Fritsch Retractor
2 G6 Center
1 G8 Malleable
1 G28 Malleable
1 G37 Harrington Giant Sweetheart

Liver Transplant Set
1 Hydra 22” Iron Intern® Double Arm with 3/D Swinger
1 G110 Stieber Rib Grip Kit
2 SST1 Sterilizing Tray
1 G3 Fritsch
1 G8 Malleable
1 G29 Malleable
1 G59 Deaver
1 G63 Puppytongue
1 G88 Hermann Hallmark
1 G89 Hermann Hallmark
1 G107 Stieber 2 – Finger Malleable
1 G108 6 – Finger Malleable
2 G28 Malleable
2 G49 Nussbaum “Moe’s Paw”

Kidney/Pancreas Transplant Set
1 Hydra 22”
1 ARH 22” Iron Intern® Single Arm with 3/D Swinger
1 SST1 Sterilizing Tray
1 G3 Fritsch
1 G8 Malleable
1 G29 Malleable
1 G99 Deaver
1 G63 Puppytongue
1 G88 Hermann Hallmark
1 G89 Hermann Hallmark
1 G107 Stieber 2 – Finger Malleable
1 G108 6 – Finger Malleable
2 G28 Malleable
2 G49 Nussbaum “Moe’s Paw”

OB/GYN Kit
3 ARH 22” Iron Intern® Single Arm with 3/D Swinger
2 G72 Deaver
1 G78 Vaginal Deaver /Heaney
1 GFO17B Deaver OB/GYN
1 FOC75 (10’) Fiberoptic Cable 10’ long
Please check the catalog for additional choice of:
Haney’s, Deaver’s and Fiberoptics

Colon/Rectal
2 Hydra 22” Iron Intern® Double Arm
1 ARH 22” Iron Intern® Single Arm with 3/D Swinger
1 G69 St. Mark’s Retractor
Please check the catalog for additional choice of:
Fritsch’s, Richardson’s, Kelly’s, Deaver’s and Harrington’s

Mastectomy
1 ARH 22” Iron Intern® Single Arm with 3/D Swinger
1 Hydra 22” Iron Intern® Double Arm
Please check the catalog for additional choice of:
Skin Hooks, and Fritsch’s.
Closure with Trabucco Spring Hooks: Laparotomy closure using Trabucco Spring Tension Hooks. The retractors enable skin and subcutaneous tissues to be held open under constant mild traction, exposing the fascia for easy closure. Courtesy: Boyd E. Terry, M.D., F.A.C.S., Assistant Professor of Surgery, University of Missouri.

Closure of Colostomy – Sigmoid Colon Resection, using Iron Intern® Automatic Retractor Holders plus: GFO25 Weinberg w. Fiberoptic Light, G22 Harrington (Sweetheart) and G34 O'Sullivan-O'Connor Retractors.


Mastectomy with Iron Intern®: 1-Biopsy site is identified by the staples in the upper outer quadrant. The 2-hook spring retractors are elevating superior flap and traction applied by the springs. Photo Courtesy: H.B. Mass, M.D., Kingston, N.Y.

View from head. Anterior Resection, colon being dissected. Note excellent view into pelvis. Surgeon used G91 “Wise Choice” retractor also the use of Balfour Retractor, foreground, and G79 “Sweetlips” retractor background.

Picture of Laparotomy, w/pancreatic biopsy, cholec./docho-duodenostomy with Iron Intern® Automatic Surgical Retractor Holder. No one is holding the retractors manually.

Nathanson Hook Liver Retractor used with Automatic Retractor Holder ARH 22” Iron Intern® during minimally invasive procedure.

Stieber Rip Grip Kit used with extra long ratcheted handles.

Stieber Rip Grip Kit full set up.