

# Laparoscopic Instruments Overview



Aesculap Surgical Technologies – Endoscopy



# Laparoscopic Instruments Overview

## Introduction

Aesculap offers a broad spectrum of laparoscopic instruments that enable minimally invasive surgery in a variety of laparoscopic specialties, including **General, Bariatric, Colorectal, Urologic and Gynecologic surgery**. These instruments were designed in conjunction with our clinical partners, combining precision craftsmanship with modern materials and design. Precise performance make Aesculap laparoscopic instruments the leading choice for surgeons performing minimally invasive surgery.

Aesculap's portfolio of laparoscopic instruments includes a comprehensive range of reusable, reposable and single-use instruments, advanced RF energy, ligation clip appliers, endoscopes and reusable trocar solutions.

\*See indications for use at [www.aesculapusa.com](http://www.aesculapusa.com).



# Laparoscopic Instruments Overview

## Sovereign® Monopolar & Bipolar Instruments



**Aesculap offers over 100 combined patterns of monopolar and bipolar hand-held laparoscopic instruments in both standard and bariatric sized lengths.**

The Sovereign line of reusable scissors, graspers, dissectors and electrodes are designed in a modular format that allows you to minimize costs while maximizing patient safety and clinical performance.

### Modular Design

- Instruments completely disassemble for effective cleaning and decontamination by central services staff
- Sterilization while fully assembled provides the OR staff with ready-to-use instruments

### Cost Effective

- All handles and jaw inserts are fully compatible and interchangeable
- If a component wears out, only the single part, and not the entire instrument requires repair or replacement

### PEEK Insulation

- PolyEtherEtherKetone (PEEK) provides durable insulation of handle and shaft
- Robust material maintains integrity during sterilization cycles

## Sovereign® Reposable Scissors



**Aesculap's Sovereign Reposable Scissors offer the convenience and guaranteed sharpness of a disposable, with the cost savings of a reusable instrument.**

### Cost Effective

- Up to 45% cost savings over fully disposable scissors
- Elimination of need to inspect or repair shaft in between cases increases operational efficiency

### Performance

- New insulation, clean shaft and sharp blades for each procedure
- Optimal handle-to-blade responsiveness

### Safety

- Shaft insulation to the tip
- Disposable shaft provides minimal cleaning requirements

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## Axial Needle Holders



**Aesculap has advanced the art and science of suturing instruments to the level of performance demanded by today's surgeons.** The Axial Needle Holders provide a full suite of instruments that revolutionize laparoscopic suturing, regardless of the technique used.

### Balance

- Innovative handle design provides superior balance

### Control

- When closed, the handle is circular in the hand, allowing precise movements and providing excellent ergonomics

### Unparalleled Grasping

- Powerful, precision-engineered jaws help prevent even the finest needles and thinnest suture from slipping
- Tungsten carbide jaw insert helps provide a long product lifespan

## Sovereign® & Prestige™ Slide Lock Graspers



**Sovereign and Prestige Slide Lock Graspers are the gold standard for laparoscopic surgery.** The signature slide lock handle is demanded by surgeons who need durable and powerful tissue grasping capabilities in the strength of a single piece instrument.

### Strength

- Proven durability and holding power
- Single and dual action atraumatic or retraction graspers provide excellent tissue grip

### Control

- Easy to reach rotation knob for optimal one-handed control
- Excellent tissue and grip control

# Laparoscopic Instruments Overview

## Specialty Instruments



**Aesculap offers a variety of specialty instruments that improve surgical performance and enhance patient care during the most technical and complex procedures.** Aesculap provides many innovative solutions for laparoscopy in addition to standard instrument patterns demanded by all surgeons.

### Advanced Procedure Instrumentation

- SIMON Renal Pole Clamp provides a unique solution in renal tumor management
- Advanced vascular clamps accommodate a wide range of patient anatomical needs
- Intestinal and Vessel Bulldog Clips provide surgeons with creative solutions when temporary atraumatic occlusion is required

### Bariatric Instruments

- Extensive selection of bariatric length needle holders, scissors, graspers, dissectors and clamps



## Less Invasive Solutions



Aesculap offers solutions for less invasive surgeries that provide a virtually scarless incision for the patient. The **Cinch Organ Retractor** allows for innovative organ retraction in both single-incision and traditional multi-port surgery. **Sovereign® mini 3.5 mm System** introduces surgeons to the next generation of mini laparoscopic instruments with its unique design, promoting strength and precision.

### Cinch Organ Retractor

#### Secure

- Deployable atraumatic retraction clip provides a firm grasp on tissue
- Needle provides a reliable attachment to the peritoneum

#### Versatile

- Multiple applications in single incision, reduced port laparoscopic and robotic surgery

### Sovereign mini 3.5 mm System

#### Strength

- Impressive shaft rigidity and strong jaws allow surgeons to perform procedures confidently, without worry of intra-operative instrument breakages

#### Cost Effective & Cosmetic

- Reusable instruments and trocars allow for less invasive surgery without expensive disposables

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## Advanced Energy



**The Caiman® devices are bipolar RF energy instruments for use in general, urologic and gynecological procedures.\*** Caiman devices are available for open and laparoscopic surgery in 12 mm and 5 mm formats.

### Articulating Jaw

- Allows unprecedented maneuverability through challenging anatomy

### One Seal Confidence™

- Floating hinge and tip first jaw closure provide strong, uniform compression of tissue, resulting in a clean and consistent seal

### Longest Jaw Available

- Longest sealing length of any RF device on the market increases procedural efficiency by allowing sealing and division of large volumes of tissue with each pass

\*The Caiman devices have not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures and should not be used for these procedures.

# Ligation



**Aesculap provides several laparoscopic ligation solutions that provide value and performance to the surgeon. The DS Ligation Clip System is an innovative, highly secure titanium clip which provides cost savings and clinical efficiency improvements for a variety of applications. Aesculap also offers traditional multi-fire and single-fire clip applicators in a range of clip sizes.**

## Cost Effective

- Up to 75% per procedure cost savings compared to endomechanical staplers in laparoscopic appendectomy

## Secure

- "Double Clip" design acts like a fenestrated grasper for a firm hold on tissue and to stabilize the clip against axial (side-to-side) dislodgement
- Tooth and Notch stabilizes the clip against radial (pull off) dislodgement

## Green

- Up to 98% per procedure reduction in surgical waste compared to endomechanical staplers

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## Trocars



**Aesculap's Reusable Trocar System provides a solution unlike any other: an exceptionally lightweight, low-profile and ergonomic reusable trocar.** The Aesculap solution allows hospitals to significantly reduce cost and surgical waste in every laparoscopic procedure.

### Cost Effective

- Up to 70% cost savings over disposable trocars in the first 12 months and 95% annual savings thereafter
- Rapid payback provides a high return on investment

### Simple

- Modular design ensures optimal cleaning after use
- Color-coded system allows easy identification of compatible components

### Innovative

- Optimal weight distribution balances the trocar when inserted in the abdomen
- Low profile design of 3.5 mm and 5 mm is ideal for application in single incision procedures

# Endoscopes



**Aesculap's HD endoscopes are comprised of the highest quality materials and are designed and manufactured using the latest in optics technology.** Aesculap laparoscopes provide optimal performance for the surgeon and operating room staff.

## Excellent Imaging

- High definition optics for clear, bright and sharp pictures
- All endoscopes are Full HD compatible

## Convenient

- Steam and STERRAD® compatible
- Adaptable to a variety of manufacturers' light cables and light sources
- Industry standard eyepiece is compatible to all camera systems

# Notes



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