

LIV'SMED

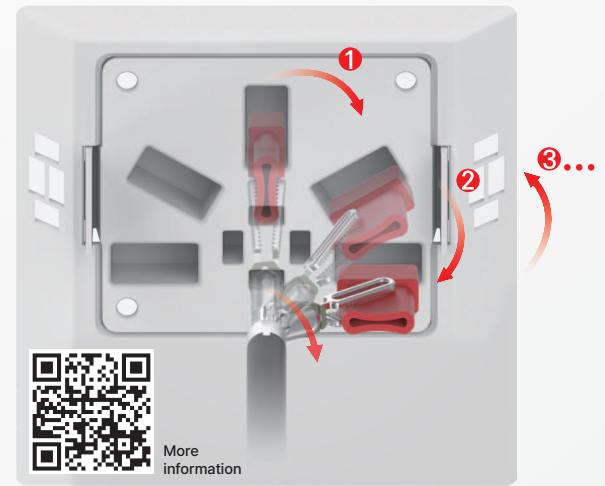
# ARTISENTIAL™

Articulating Laparoscopic Instrument

Bringing articulation into the hands of surgeons,  
one patient at a time



## LIVSMED Training Kit



Please visit our website and make inquiries should  
you have any questions regarding training kit

LIV'SMED

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[www.livsmed.us](http://www.livsmed.us)





ARTISENTIAL<sup>TM</sup>  
Articulating Laparoscopic Instrument

54

Countries Represented

6

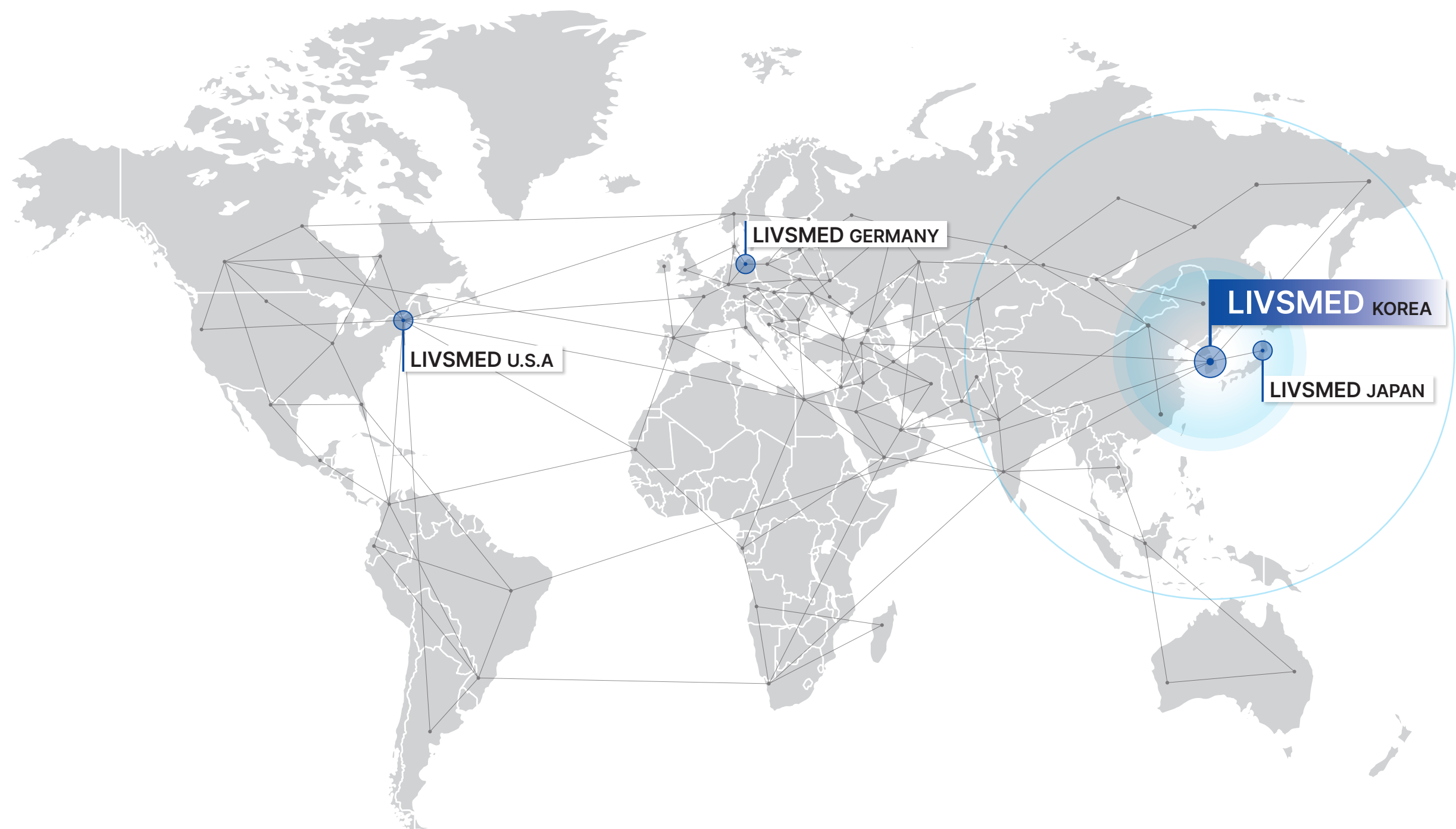
Continents

3

Subsidiaries

32

International Distributors



Working with physicians worldwide, LIVSMED focuses on revolutionizing the capabilities of minimally invasive surgery and advancing patient outcomes around the world.





Articulation is Essential

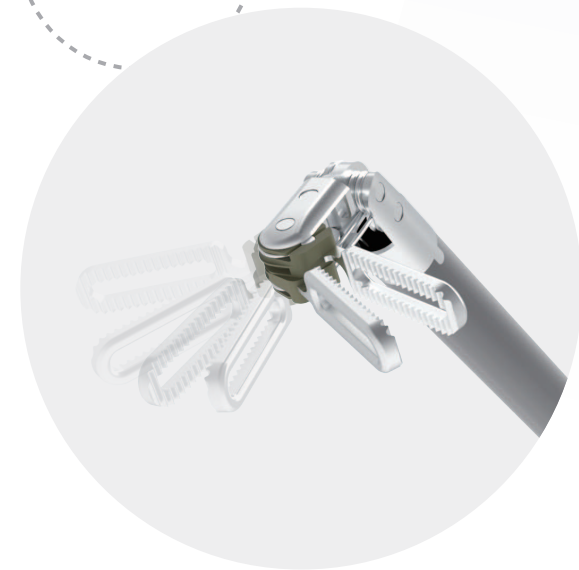
# ArtiSential

The End Tool's vertical and horizontal joints synchronize its movements with the user's precise hand motions. This allows for greater access to narrow surgical sites.

Bipolar Fenestrated Forceps



Available in two lengths  
(Short - 25cm, Standard - 38cm)



**Multi-Jointed End Tool**  
Provides 360° degrees of freedom, enabling various angles of approach to the surgical site.

**Adjustable Velcro Type Jaw Control Rings**

- Adjustable velcro straps secure user's fingers to jaw control rings
- Provides convenient and customized control



[ Adjustable ]

**Locking Lever**

- Deactivates multi-joint of the End Tool
- Still allows open/close function

**Electrode**



Bipolar



Monopolar

ARTISENTIAL

LIY'SMED

**Handle Grip**

Designed to fit a wide range of hand sizes

**Ergonomic Design**

Provides intuitive, articulating control

## ArtiSential Anatomy

ArtiSential's multi-jointed End Tools enable precise access to complex, difficult-to-reach surgical spaces.

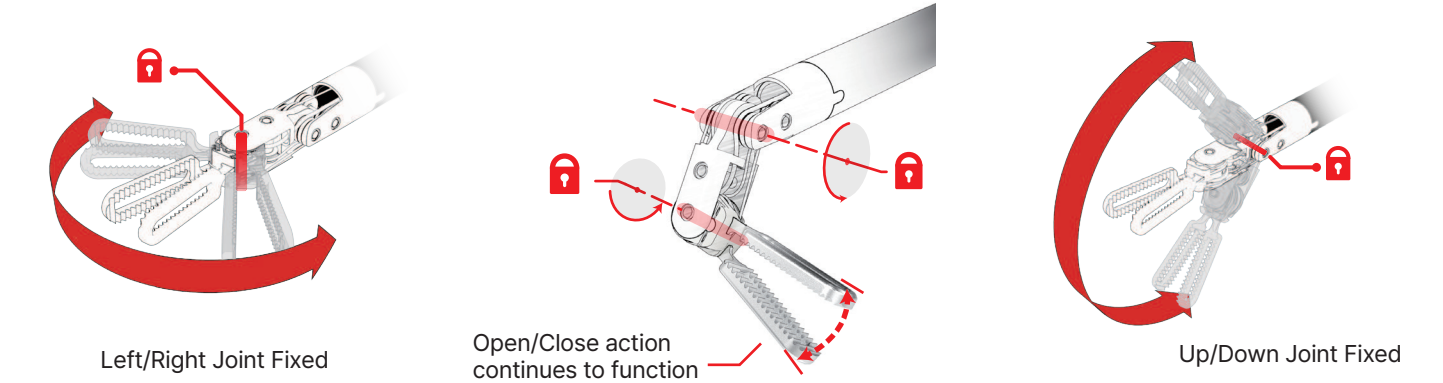
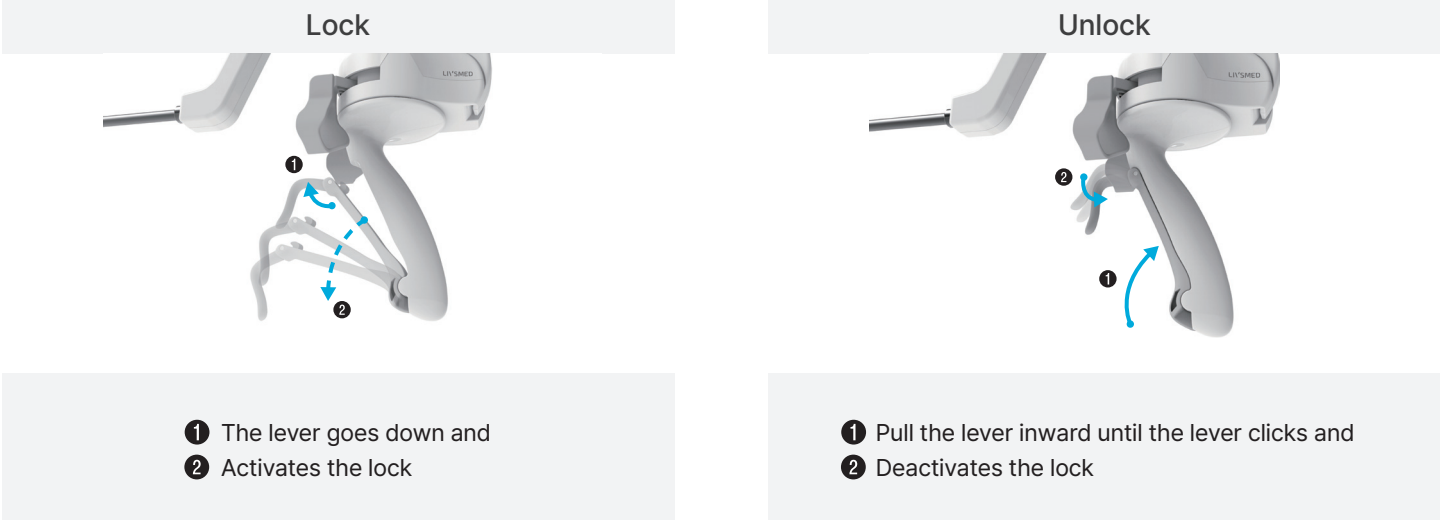
Synchronized Interface

ArtiSential's End Tools have two joints enabling both vertical and horizontal movements that are perfectly synchronized with the user's hand. Its multiple degrees of freedom assist the user in performing a wide variety of surgical procedures.



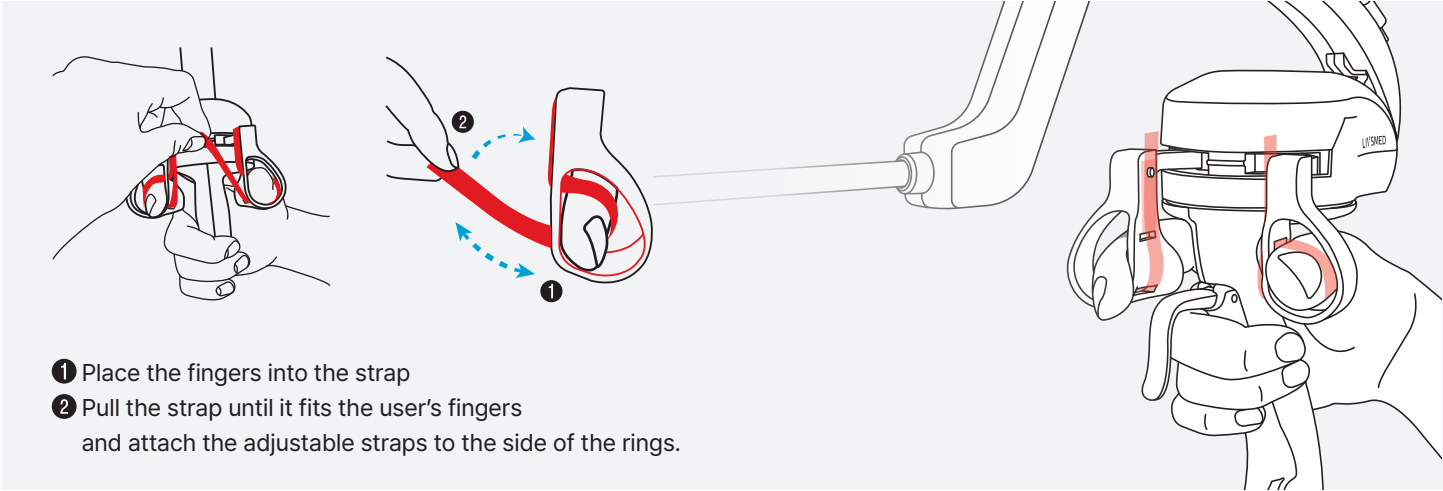
How to Use the Locking Lever

When the locking feature is activated, UP/DOWN, LEFT/RIGHT, the articulating joint is fixed and cannot move. The OPEN/CLOSE action of the End Tool continues to function.



How to Use the Adjustable Jaw Control Rings

Adjust the strap to fit user's fingers. The fingers are fastened to the jaw control rings, allowing comfortable and easy control of the End Tool.



# Needle Holder: Pinch Lock (Jaw-Lock) Function

The ArtiSential Needle Holder provides a Pinch Lock (Jaw-Lock) Function. This ergonomic design allows easy locking and unlocking of the jaw by grasping the Jaw Control Rings. With this function, the surgeon can suture easily by holding the needle securely without physical stress.



\* Needle Holder (ANH01-LV)

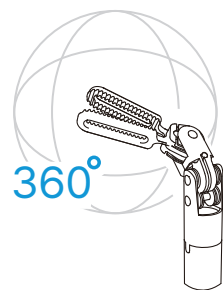
## How to use Pinch Lock (Jaw-Lock) Function

- 1. Grip the handle by inserting your thumb and index finger in the rings.
- 2. Pinch inward with your thumb and index finger.
- 3. When the rings click together, the jaws lock closed.
- 4. To unlock the jaws, pinch your fingers inward again.



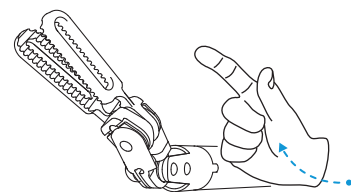


# Features and Advantages of ArtiSential



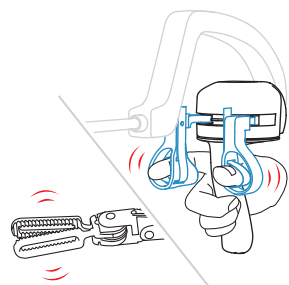
## Flexible Access

ArtiSential's multi-jointed End Tools allow various angles of approach with 360 degrees of freedom. This enables greater access to a variety of anatomical structures.



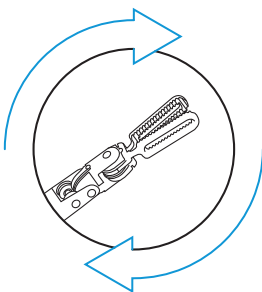
## Ergonomic Interface

The End Tools move in the same direction as the user's hand/fingers, providing easy, intuitive control.



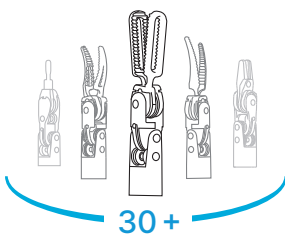
## Tactile Feedback

Provides advantages of articulating instruments without losing tactile feedback, which is essential for applying precise force even on delicate tissue.



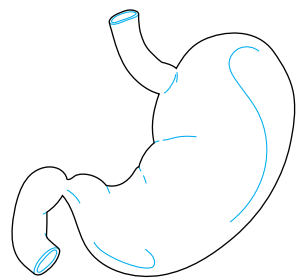
## Any O.R., Anytime

We eliminate the need for scheduled block time. ArtiSential can be used in the existing surgical environment without any additional capital system, setup time, or footprint.



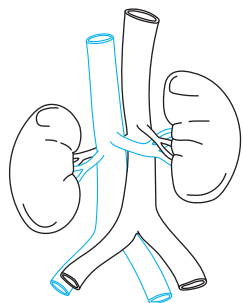
## A Growing Articulating Product Line

Our growing portfolio of instruments continues to expand and meet the needs of advanced minimally invasive surgeons in a wide range of surgical procedures.



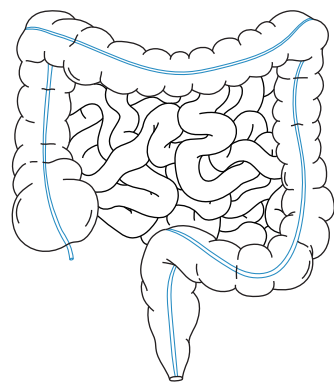
STOMACH SURGERY

- Gastrectomy
- Hiatal repair
- Ulcer perforation
- Sleeve gastrectomy (with gastric bypass)
- Inguinal hernia



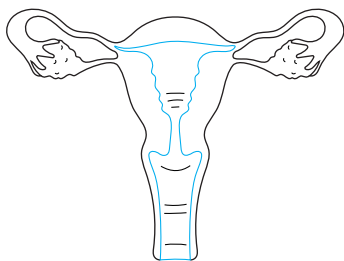
UROLOGICAL SURGERY

- Prostatectomy
- Nephrectomy
- Partial nephrectomy
- Cystectomy
- Partial cystectomy
- Urinary calculus
- Pyeloplasty



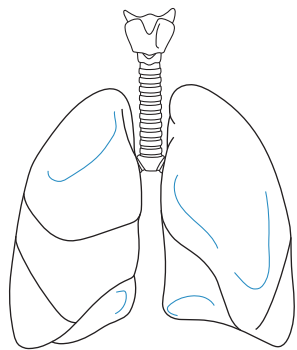
COLORECTAL SURGERY

- Colectomy
- Rectopexy
- Rt./Lt. (Hemi) colectomy
- Appendectomy
- LAR



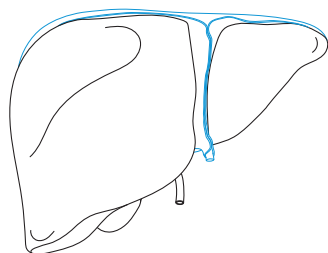
GYNECOLOGICAL SURGERY

- Myomectomy
- Oophorectomy
- Colpopexy
- Ovarian cystectomy
- Hysterectomy



CARDIO-THORACIC SURGERY

- Lobectomy
- Segmentectomy
- Mediastinal mass removal
- Thymectomy



HEPATO-PANCREATO-BILIARY SURGERY

- Cholecystectomy
- Whipple procedure
- PPPD
- Hepatectomy
- Gallbladder



- Bipolar

Fenestrated Forceps  
Maryland Dissector  
Precise Dissector
- Monopolar

Precise Dissector  
Hook  
Spatula  
Scissors
- Non-energy

Needle Holder  
Precise Needle Holder  
Clip Applier  
Fenestrated Forceps  
Maryland Dissector  
Precise Dissector

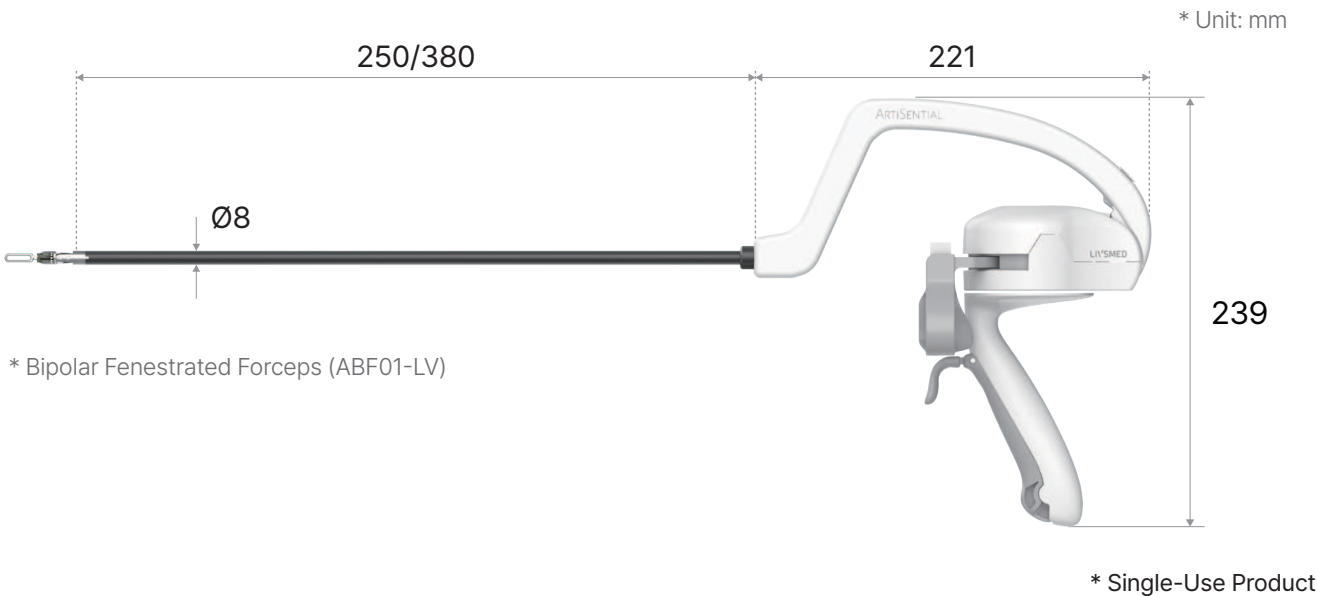
Line up

Specifications



SPECIFICATIONS

Articulating Laparoscopic Instrument



Laparoscopic Instruments - Electrodes

| ITEM CODE | PRODUCT DESCRIPTION | SHAFT LENGTH | LOCK | JAW LENGTH | SHAFT DIAMETER | ELECTRODE | UNITS/CASE |
|-----------|---------------------|--------------|------|------------|----------------|-----------|------------|
|-----------|---------------------|--------------|------|------------|----------------|-----------|------------|

I ArtiSential Electrodes

Bipolar Fenestrated Forceps



|           |                                                  |      |   |      |     |         |          |
|-----------|--------------------------------------------------|------|---|------|-----|---------|----------|
| ABF01-LV  | Bipolar Fenestrated Forceps-38cm-Lock-Adjustable | 38cm | O | 18mm | 8mm | Bipolar | 5EA/CASE |
| ABF01S-LV | Bipolar Fenestrated Forceps-25cm-Lock-Adjustable | 25cm | O |      |     |         |          |

Bipolar Maryland Dissector



|           |                                                 |      |   |      |     |         |          |
|-----------|-------------------------------------------------|------|---|------|-----|---------|----------|
| ABD01-LV  | Bipolar Maryland Dissector-38cm-Lock-Adjustable | 38cm | O | 20mm | 8mm | Bipolar | 5EA/CASE |
| ABD01S-LV | Bipolar Maryland Dissector-25cm-Lock-Adjustable | 25cm | O |      |     |         |          |

Bipolar Precise Dissector



|           |                                                |      |   |      |     |         |          |
|-----------|------------------------------------------------|------|---|------|-----|---------|----------|
| ABD02-LV  | Bipolar Precise Dissector-38cm-Lock-Adjustable | 38cm | O | 17mm | 8mm | Bipolar | 5EA/CASE |
| ABD02S-LV | Bipolar Precise Dissector-25cm-Lock-Adjustable | 25cm | O |      |     |         |          |

Monopolar Precise Dissector



|           |                                                  |      |   |      |     |           |          |
|-----------|--------------------------------------------------|------|---|------|-----|-----------|----------|
| AMD01-LV  | Monopolar Precise Dissector-38cm-Lock-Adjustable | 38cm | O | 14mm | 8mm | Monopolar | 5EA/CASE |
| AMD01S-LV | Monopolar Precise Dissector-25cm-Lock-Adjustable | 25cm | O |      |     |           |          |

Monopolar Spatula



|          |                             |      |   |     |     |           |          |
|----------|-----------------------------|------|---|-----|-----|-----------|----------|
| AMT01-L  | Monopolar Spatula-38cm-Lock | 38cm | O | 5mm | 8mm | Monopolar | 5EA/CASE |
| AMT01S-L | Monopolar Spatula-25cm-Lock | 25cm | O |     |     |           |          |

Monopolar Hook



|           |                                |      |   |     |     |           |          |
|-----------|--------------------------------|------|---|-----|-----|-----------|----------|
| AMHU01-L  | Monopolar Hook-Up-38cm-Lock    | 38cm | O | 8mm | 8mm | Monopolar | 5EA/CASE |
| AMHU01S-L | Monopolar Hook-Up-25cm-Lock    | 25cm | O |     |     |           |          |
| AMHD01-L  | Monopolar Hook-Down-38cm-Lock  | 38cm | O |     |     |           |          |
| AMHD01S-L | Monopolar Hook-Down-25cm-Lock  | 25cm | O |     |     |           |          |
| AMHR01-L  | Monopolar Hook-Right-38cm-Lock | 38cm | O |     |     |           |          |
| AMHR01S-L | Monopolar Hook-Right-25cm-Lock | 25cm | O |     |     |           |          |
| AMHL01-L  | Monopolar Hook-Left-38cm-Lock  | 38cm | O |     |     |           |          |
| AMHL01S-L | Monopolar Hook-Left-25cm-Lock  | 25cm | O |     |     |           |          |

| ITEM CODE                   | PRODUCT DESCRIPTION                     | SHAFT LENGTH | LOCK | JAW LENGTH                                                                         | SHAFT DIAMETER | ELECTRODE | UNITS/CASE |
|-----------------------------|-----------------------------------------|--------------|------|------------------------------------------------------------------------------------|----------------|-----------|------------|
| <h3>Monopolar Scissors</h3> |                                         |              |      |  |                |           |            |
| AMSU01-LV                   | Monopolar Scissors-Up-38cm-Adjustable   | 38cm         | O    | 11mm                                                                               | 8mm            | Monopolar | 5EA/CASE   |
| AMSU01S-LV                  | Monopolar Scissors-Up-25cm-Adjustable   | 25cm         | O    |                                                                                    |                |           |            |
| AMSD01-LV                   | Monopolar Scissors-Down-38cm-Adjustable | 38cm         | O    |                                                                                    |                |           |            |
| AMSD01S-LV                  | Monopolar Scissors-Down-25cm-Adjustable | 25cm         | O    |                                                                                    |                |           |            |

## Laparoscopic Instruments - Clip Appliers

| ITEM CODE | PRODUCT DESCRIPTION | SHAFT LENGTH | LOCK | JAW LENGTH | SHAFT DIAMETER | ELECTRODE | UNITS/CASE |
|-----------|---------------------|--------------|------|------------|----------------|-----------|------------|
|-----------|---------------------|--------------|------|------------|----------------|-----------|------------|

### I ArtiSential Clip Applier

|                                    |                                                |      |   |                                                                                    |     |     |          |
|------------------------------------|------------------------------------------------|------|---|------------------------------------------------------------------------------------|-----|-----|----------|
| <h3>Clip Applier Medium Large</h3> |                                                |      |   |  |     |     |          |
| ACA01-LV                           | Clip Applier Medium Large-38cm-Lock-Adjustable | 38cm | O | 19mm                                                                               | 8mm | N/A | 5EA/CASE |
| ACA01S-LV                          | Clip Applier Medium Large-25cm-Lock-Adjustable | 25cm | O |                                                                                    |     |     |          |

|                             |                                                          |      |   |                                                                                     |      |     |          |
|-----------------------------|----------------------------------------------------------|------|---|-------------------------------------------------------------------------------------|------|-----|----------|
| <h3>Clip Applier Large</h3> |                                                          |      |   |  |      |     |          |
| ACA03-LV                    | Clip Applier Large-38cm-Lock-Adjustable-With 10mm Trocar | 38cm | O | 19mm                                                                                | 10mm | N/A | 5EA/CASE |
| ACA03S-LV                   | Clip Applier Large-25cm-Lock-Adjustable-With 10mm Trocar | 25cm | O |                                                                                     |      |     |          |
| ACA03-PG                    | Clip Applier Large-38cm-Pistol Grip-With 10mm Trocar     | 38cm | O |                                                                                     |      |     |          |
| ACA03S-PG                   | Clip Applier Large-25cm-Pistol Grip-With 10mm Trocar     | 25cm | O |                                                                                     |      |     |          |

## Laparoscopic Instruments - Needle Holders

| ITEM CODE | PRODUCT DESCRIPTION | SHAFT LENGTH | LOCK | JAW LENGTH | SHAFT DIAMETER | ELECTRODE | UNITS/CASE |
|-----------|---------------------|--------------|------|------------|----------------|-----------|------------|
|-----------|---------------------|--------------|------|------------|----------------|-----------|------------|

### I ArtiSential Needle Holder

|                        |                                    |      |   |                                                                                      |     |     |          |
|------------------------|------------------------------------|------|---|--------------------------------------------------------------------------------------|-----|-----|----------|
| <h3>Needle Holder</h3> |                                    |      |   |  |     |     |          |
| ANH01-LV               | Needle Holder-38cm-Lock-Adjustable | 38cm | O | 10mm                                                                                 | 8mm | N/A | 5EA/CASE |
| ANH01S-LV              | Needle Holder-25cm-Lock-Adjustable | 25cm | O |                                                                                      |     |     |          |

|                                |                                            |      |   |                                                                                      |     |     |          |
|--------------------------------|--------------------------------------------|------|---|--------------------------------------------------------------------------------------|-----|-----|----------|
| <h3>Precise Needle Holder</h3> |                                            |      |   |  |     |     |          |
| ANH02-LV                       | Precise Needle Holder-38cm-Lock-Adjustable | 38cm | O | 9mm                                                                                  | 8mm | N/A | 5EA/CASE |
| ANH02S-LV                      | Precise Needle Holder-25cm-Lock-Adjustable | 25cm | O |                                                                                      |     |     |          |

## Laparoscopic Instruments - Graspers

| ITEM CODE | PRODUCT DESCRIPTION | SHAFT LENGTH | LOCK | JAW LENGTH | SHAFT DIAMETER | ELECTRODE | UNITS/CASE |
|-----------|---------------------|--------------|------|------------|----------------|-----------|------------|
|-----------|---------------------|--------------|------|------------|----------------|-----------|------------|

### I ArtiSential Graspers

|                              |                                          |      |   |                                                                                     |     |     |          |
|------------------------------|------------------------------------------|------|---|-------------------------------------------------------------------------------------|-----|-----|----------|
| <h3>Fenestrated Forceps</h3> |                                          |      |   |  |     |     |          |
| AUF01-LV                     | Fenestrated Forceps-38cm-Lock-Adjustable | 38cm | O | 18mm                                                                                | 8mm | N/A | 5EA/CASE |
| AUF01S-LV                    | Fenestrated Forceps-25cm-Lock-Adjustable | 25cm | O |                                                                                     |     |     |          |

|                             |                                         |      |   |                                                                                     |     |     |          |
|-----------------------------|-----------------------------------------|------|---|-------------------------------------------------------------------------------------|-----|-----|----------|
| <h3>Maryland Dissector</h3> |                                         |      |   |  |     |     |          |
| AUD01-LV                    | Maryland Dissector-38cm-Lock-Adjustable | 38cm | O | 20mm                                                                                | 8mm | N/A | 5EA/CASE |
| AUD01S-LV                   | Maryland Dissector-25cm-Lock-Adjustable | 25cm | O |                                                                                     |     |     |          |