



Surgical Products Catalog



improvemed
medical equipment & supplies



“ About us

IMPROVEDMED was founded in late 2013 by a team of particularly ambitious and active individuals. Our field of activity includes several surgical specialties, with key areas being: Urology, Gynecology, General Surgery, and ENT.

Our goal is the import and distribution of high-quality medical consumables (CE marked) from approved and certified suppliers who operate on a global scale.

Countries of origin include Germany, Italy, USA, the South Korea, Turkey, France and China.

Our vision is to expand the company's operations throughout Greece, by establishing long-term collaborations with individual clinics and hospitals.

We aim for our company name to be strongly associated with values such as: **Trust, Quality, Reliability, Service.**

As a company, we place special emphasis on Quality Control.

All our suppliers are certified with **ISO 13485:2016**, and we ourselves maintain a Quality Management System certified according to **EN ISO 9001:2015**, fully compliant with the requirements of Ministerial Decision 13485:20216 of the Hellenic Ministry of Health and Welfare and 14001:20215 of Environmental Management System.



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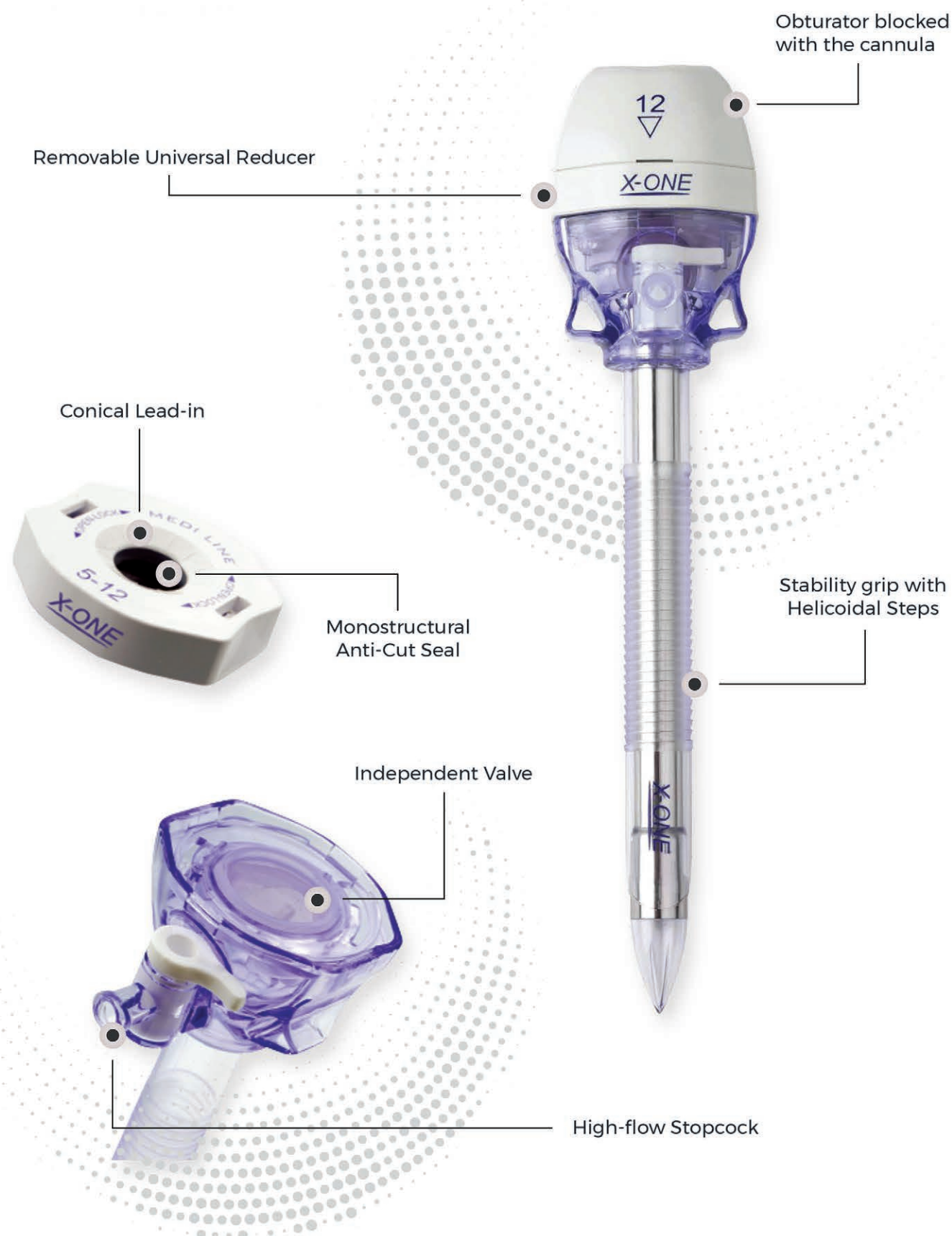
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Our goal is for our company name to be strongly associated with values such as: **Trust, quality, reliability, service.**



OPTICAL TROCAR

- Optical Dilating Tip
- Tissue Dissecting Fins
- Self-Locking Optics
- Compatibility with all Optics



BLADELESS TROCAR

- Grooved Dilating Tip
- Tissue Dissecting Fins
- Anti Friction Grooves



BLADED TROCAR

- Autolocking Flat Blade Tip
- Dilating Safety Shield
- Mini Flat Blade
- Minimal Exposure of the Blade



HYBRID TROCAR

- Micro Tip in Fiber Carbon
- Autolocking System
- Dilating Safety Shield
- Minimal Exposure of the Blade



HASSON TROCAR

- Blunt Tip
- Adjustable Strabilizer for Screwing
- Wings for Anchor Suture Wire
- Version with Optical Tip



X-ONE with BALLON Laparoscopic Trocar



Universal Reducer



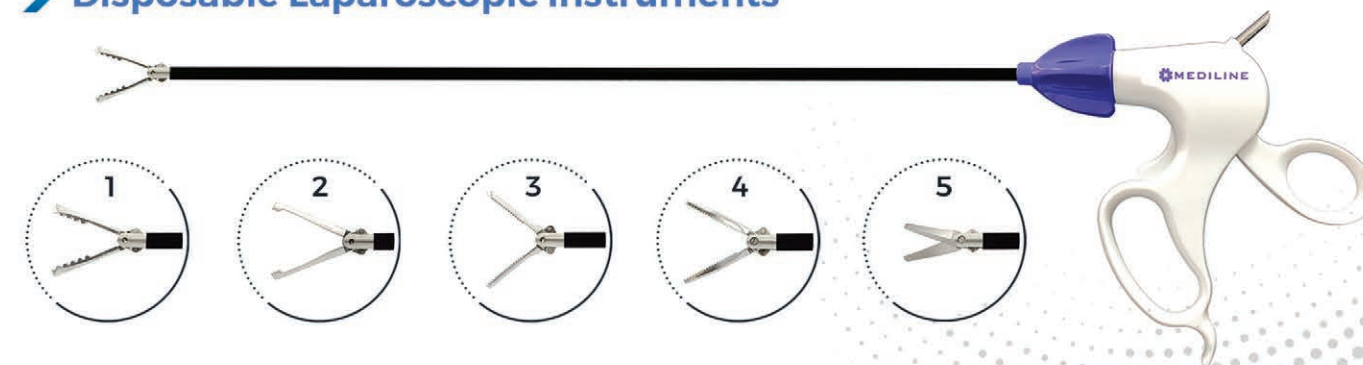
Soft anchor or fixation ring



Blunt (HBseries) or Optical (VB series) tip



Disposable Laparoscopic Instruments



Characteristics:

- The Structure of the Device Utilizes Re-Usable Instrument Technology
- Ergonomic Handle with or without Ratchet
- 360° Stylet Rotation
- Fully Insulated Handle
- Quality, Reliability, Safety
- Sterile, Single-Use

1. Endo Clinch Grasper

+ monopolar ergonomic handle with or without Ratchet, 5mm x 330mm

2. Babcock Grasper

+ monopolar ergonomic handle with or without Ratchet, 5mm x 330mm

3. Atraumatic Grasper

+ monopolar ergonomic handle with or without Ratchet, 5mm x 330mm

4. Maryland Grasper

+ monopolar ergonomic handle with or without Ratchet, 5mm x 330mm

5. Curved Scissors

+ monopolar ergonomic handle, 5mm x 330mm

NEOVAC

Irrigation / Suction Set for Laparoscopic Surgery

- Detachable Metallic Cannula with Lateral Holes size 5mm x 330mm and 450mm
- Ergonomic Handle in ABS with Integrated Controls
- Rear Port for Cytological Samples
- Connection Tubes (PVC medical grade) with Clamp Universal Connectors



Pushbag

AutoRetrieval Endo Bag

- Ergonomic ABS Ring Handle
- Bag Release System
- Wide Opening Nitinol Ring
- High Resistance Bag in Polyurethane Medical Grade

Size:

- 5mm x 330mm - 110ml
- 10mm x 330mm - 200ml
- 10mm x 330mm - 400ml
- 10mm x 330mm - 700ml
- 12mm x 330mm - 1500ml

Introducing ArtiSential

ArtiSential is a blending of two words **Articulation** and **Essential**.

It's multi-joint-end-effectors allow for articulation that is essential for accessing narrow surgical sites and precision surgery.

One word that can describe ArtiSential is its intuitiveness. The movement of the user's hand, wrist, and fingers are synchronized with the corresponding movements of the end-effector.

ArtiSential's double-joined end effector enables precise access to complex, difficult-to-reach surgical spaces.

Available in three lengths
(Short - 25cm, Standard - 38cm, Long - 45cm)

Multi-jointed End Effector

Provides 360° degrees of freedom, enabling various angles of approach to the surgical site.

ARTISENTIAL Articulating Laparoscopic Instrument

Electrode



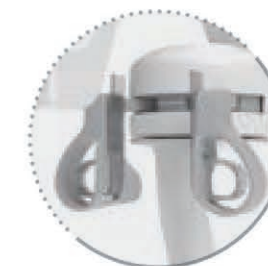
Bipolar



Monopolar

Adjustable Velcro Type Jaw Control Rings

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



[Adjustable]

Handle Grip

Designed to fit a wide range of hand sizes

Ergonomic Design

Provides intuitive, articulating control

Locking Lever (Optional feature)

- Deactivates double-joint of the end-effector
- Still allows open/close function

> Monopolar Handle : Hand-controlled

The ArtiSential 5 Monopolar products are hand-controllable products. Hand-controlled products are provided with the cable attached, and the user can easily manipulate the Coagulation / Cut functions with the handle's buttons.

Available Instruments



Monopolar Spatula



Monopolar Hook



Monopolar Cable Connector

> COAGULATION / CUT Buttons

Coagulation: High current electricity activated to coagulate tissue and control bleeding.

Cut: High current electricity continuously activated to cut tissue with high-temperature heat.

* COAG button easily distinguishable by bumps.

ARTISENTIAL
Articulating Laparoscopic Instrument



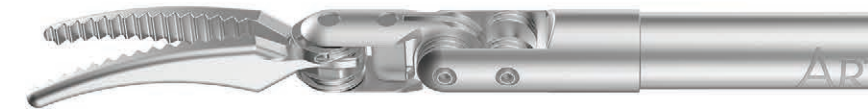
> Complete Lineup

LIVSMED features a full suite of end tools for any surgical task.

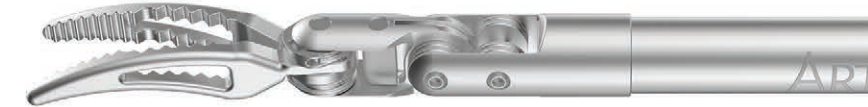
● Fenestrated Forceps



● Maryland Dissector



● Precise Dissector



● Clinch Forceps



● Needle Holder



● Monopolar Spatula



● Monopolar Hook



➤ HaemoCer™ PLUS

Haemostatic powder including prophylactic functions preventing adhesions

HaemoCer™ PLUS Absorbable Polysaccharide Haemostat (APH) is a proprietary patent pending technology based on BioCers Polysaccharide Ultra-hydrophilic Resorbable Engineering (PURE) process. HaemoCer™ PLUS contains no animal nor human components and is rapidly resorbed and degraded by amylase. Haemostasis occurs by rapidly accelerating the normal physiologic clotting cascade without participation of chemical or pharmaceutical ingredients.

HaemoCer™ PLUS APH incorporates a sophisticated, plant-based polymer crosslinking that creates ultra-hydrophilic, biocompatible particles.

HaemoCer™ PLUS is rapidly resorbed by amylase within 48h without leaving any residues behind.



● HaemoCer™ PLUS - versatile use:

- Treatment of diffuse and localized bleeding
- For bleeding around suture lines
- Substitution of fibrin glue for haemostasis in vascular surgery
- Substitution of bone wax in bone bleeding
- Use with compatible filter cell-savers

The advantages at a glance

natural

- Plant based
- Contains no animal or human components
- Completely absorbable

safe

- Rapid resorption minimizes risks of foreign body reaction and granuloma formation.
- Reduction of homologous transfusions and blood donations.
- Support and product trainings.

effective

- Compact packaging reducing storage volume
- Rapid off-the-shelf deployment no special storage or defrosting

Adhesion prevention

- The HaemoCer PLUS powder absorbs the liquid and transforms into a protective gel layer.
- This barrier prevents contact with other tissue during the post-operative healing process.

➤ HaemoCer™ Endoscopic Applicator Haemostasis during endoscopies

The HaemoCer Endoscopic Applicator is used for haemostasis during endoscopies in the upper and lower gastrointestinal tract. The HaemoCer PLUS haemostatic powder can be applied precisely with the applicator. The applicator has a tube length of 2400 mm, an outer tube diameter of 2.5 mm and a pump ball as a source of compressed air. In addition, the HaemoCer Endoscopic Applicator has a built-in HEPA filter (High Efficiency Particulate Air) for filtering the ambient air.

The HaemoCer Endoscopic Applicator does not require any aids (compressor or similar), making it easy and uncomplicated to use for endoscopies in both the bowel and stomach.



➤ HaemoCer™ Universal Applicator

HaemoCer™ Universal Applicator is designed to deliver the haemostatic HaemoCer™ powder in laparoscopic, ENT, spinal and other MIS procedures.

It guarantees precise application of APH particles to the bleeding site where this is mandatory.

The delivery instrument can be easily attached to the HaemoCer™ or HaemoCer™ PLUS bellows dispenser and enables hemostat delivery under direction to the wound site for the control of capillary, venous and arteriole bleeding.



● Easy of use, DAPI application technique



DRY
Remove excess pooled blood by suction or gauze.



APPLY
Apply HaemoCer™ PLUS immediately and extensively to the wound site



PRESS
Apply gentle compression over the wound using dry gauze



IRRIGATE
Irrigate thoroughly prior to gently removing the gauze to ensure the gelled matrix remains at the wound site.

Made in
Germany
Resorbable
100%

● Fields of application:

- Cardiac, Vascular and Thoracic Surgery
- General Surgery
- Transplant Surgery
- Tumour Surgery
- ENT Surgery
- Urology / Gynaecology
- Neurosurgery

> Smoke Free Button

One Touch Button // Extendable Telescopic Type

● The easiest way to extend the length

1. Ability to keep focus on the surgery area even when extending the length.
2. Easy extension and retraction of suction tube with blade attachment.
3. Thin, light weight design provides comfortable usage for surgeons.
4. Superior suction capability.

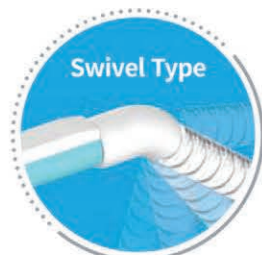
Cut Button

Release Button

The telescope can be varied from 2.5 to 6.0 inches with just a push of the release button and slide of the electrode tube back and forth

Telescopic Extension

2 types for Range of Motion



- 360 Degree Swivel
- Free hand movement



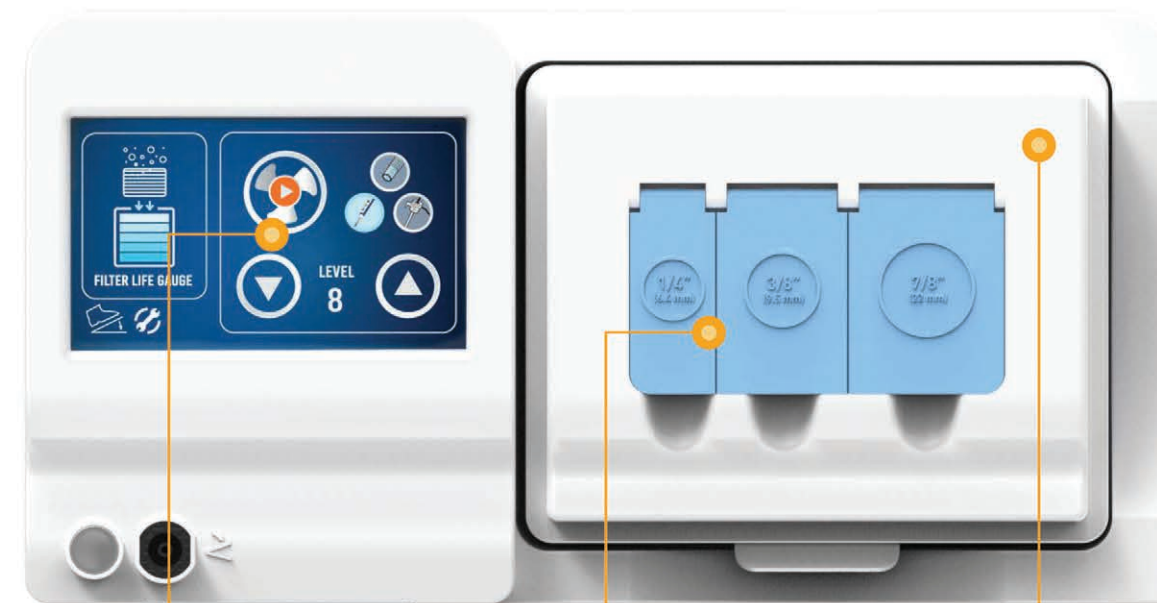
- Fixed Elbow Without swivel
- ※ Choose from all Smoke Evacuation Pencils.

Extension of the suction tip allows maximum smoke evacuation

Hold the suction tip and slide it as close as possible to the blade in order to maximize the suction capacity.



> EQM-U Smoke Evacuator + EQM-FT (Fluid trap)



Touch Screen

The touch screen panel can be operated while wearing gloves.



Multi Port Design

Three different sized connection ports are designed to create an air-tight bond with the desired port. The port cover cap eliminates any possible contamination with the glove when connecting the hose to the unit.



Longer Lasting Filter Life

Can save on running costs. (up to 50 Hours)

Procedure Operating Modes

The desire procedure can be set simply by touching the corresponding image. Automatically customizing suction default level based on desired surgical procedure.



EQM-FT (Fluid Trap)

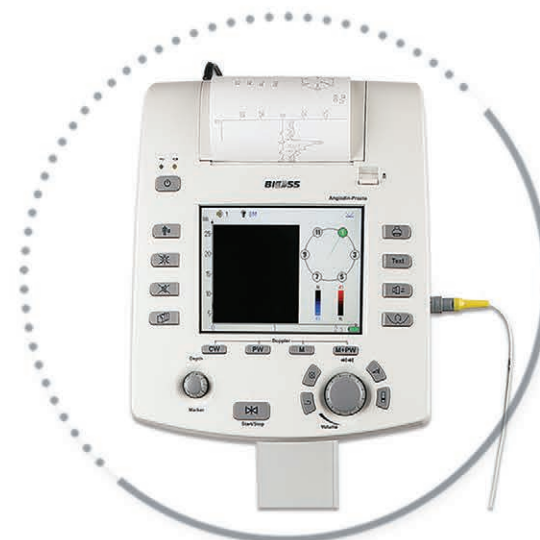
➤ The new flexible lighted and guided track for the best solutions

● Angiodin Procto

With a combination of traditional continuous-wave (CW) and advanced Doppler methods of blood flow location like PW, M, M+PW modes, AngiodinProcto allows the operator to perform a quick and precise identification of the haemorrhoidal arteries.

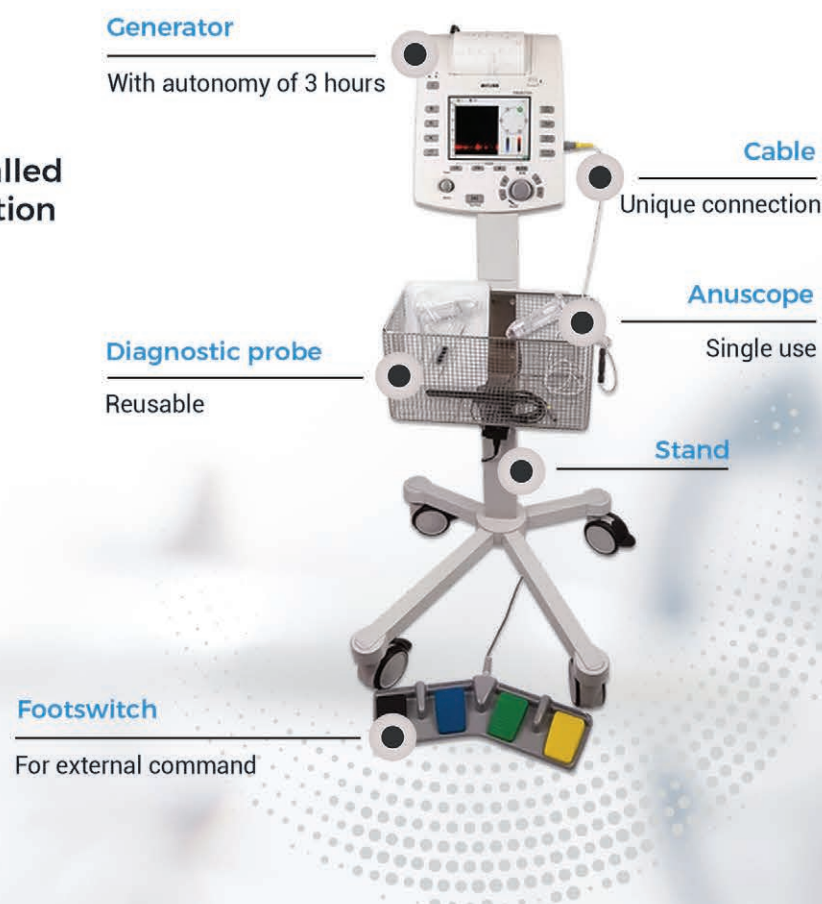
In combination with the LDL2 Led lighted proctoscope AngiodinProcto allows unmatched precise control and accessibility to perform safe and effective surgical treatment of haemorrhoidal stage 2 and stage 3 disease.

The control of the device is done by a touchscreen, manually as well as with a 4 switch pedal.



● Angiodin technique or so called "ADL" Artery Detection Ligation

- No severe complication described
- Treatment for stage 2 to 4 (International classification)
- Less painful comparing to the alternative techniques
- Gesture of the surgeon more precise and documented (medico-legal files)
- Reproducible technique and per-operative visibility unmatched (operating time shorter)
- Day-surgery



● ALDL 2 Proctoscope

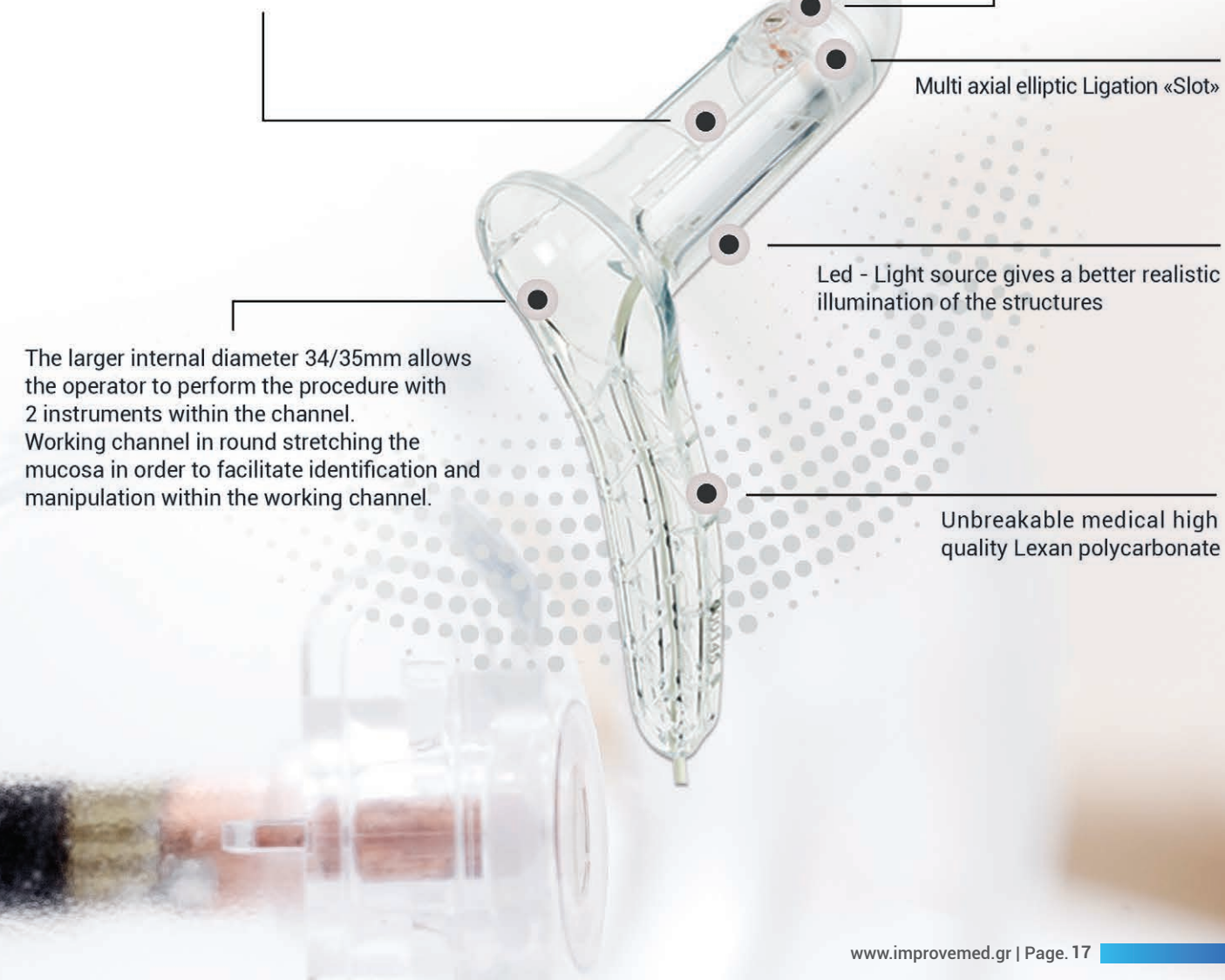
- The cover of the distal part of the proctoscope could be removed turning the LDL-2 into anal retractor.
- Doppler piezo position distal to the operating window.
- Working channel in round stretching the mucosa in order to facilitate identification and manipulation within the working channel.
- Single « all in one » connection cable with the Doppler Unit



Fixed operating window wider and adapted to any surgical techniques. The wider working window and the larger internal diameter of the LDL-2 allows the needle to reach different depth outside of the ligation slot (not limited to 8mm).

The cover of the distal part of the proctoscope could be removed turning the LDL-2 into anal retractor.

FDoppler piezo position distal to the operating window. Doppler probe 8 MHz. The probe is tilted 27° in the direction of the working window



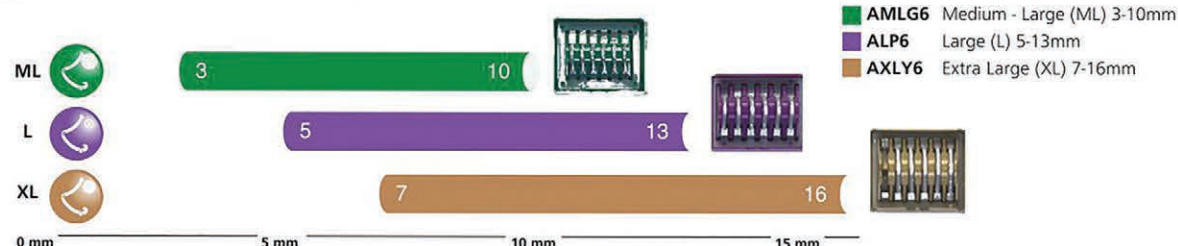
> Polymer Clip

● Features of Laparoscopic and Open Surgical Clips

- Sensitive design is designed for maximum safety and full placement of a pplier
- Flexible corner provides ease of access to mobility
- Locking mechanism allows safe closure
- Teeth are designed to prevent slippage
- Sensory and auditory feedback confirms the closing of the lock mechanism.

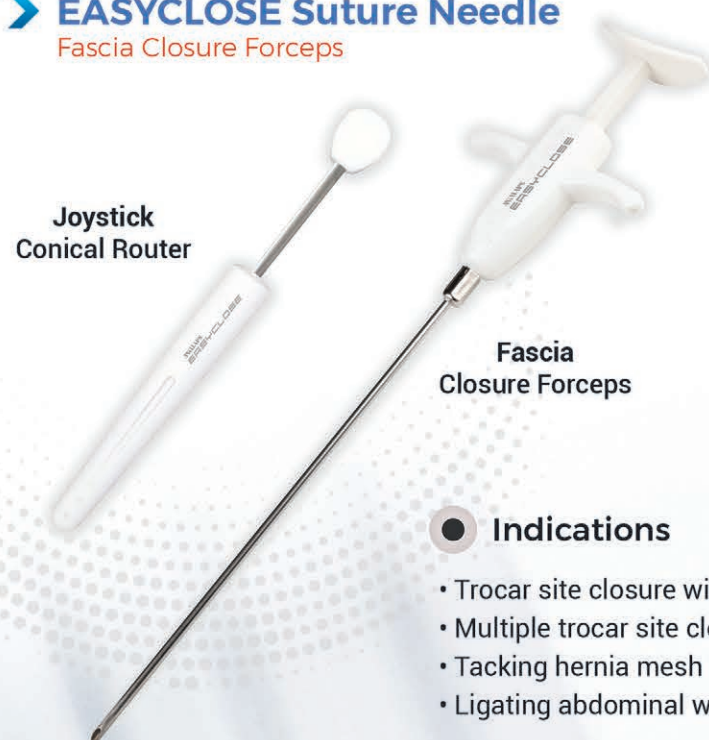


● Diameter of Vessel / Tissue



> EASYCLOSE Suture Needle

Fascia Closure Forceps



Double Jaw
Suture Closure



Single Jaw
Suture Closure

● Indications

- Trocar site closure without extending the incision.
- Multiple trocar site closure with a single device, per patient.
- Tacking hernia mesh in position prior to final placement.
- Ligating abdominal wall bleeders.

> Wound Protector Retractor

● Maximum Protection Minimum Infection Provides 360° Atraumatic Retraction

- Increases Visibility and Working Space
- Minimizes the Potential Risk of Trauma and Pain with Distributing Force evenly
- Allows for Maximum Exposure with a Minimum Incision Size

● Provides 360° Protection

- Significantly Decreases Wound Infection
- Allows Visualization of Wound Margins
- Maintains Moisture at the Incision Site
- Used in all Types of Operations



● The upper ring folds in, on and out, and attaches the polyurethane film to the wound lips. Soft and hard structure is produced.

● Polyurethane film wraps the wound lips well and makes buffer for bleeding. Protects the wound lips against contamination. Maintain moisture. Provides excellent appearance in incision area.

● The bottom ring is made of polyurethane and has a flexible structure. Folds easily through the small size incision.

> Wound Protector Retractor with Cover

● Maximum Protection Minimum Infection

- Adapts to different incision sizes.
- Provides 360° atraumatic retraction.
- Provides 5-12 mm standard laparoscopic instrumentation passage.
- Provides greater freedom of movement.
- Provides a flexible fulcrum for standard laparoscopic instrumentation.
- Facilitates large sample extraction with simple separation from the Woop retractor.



S-Port
M-Port



R-Port

> Avalanche Si 2

Thyroid surgery is among the most common surgical procedures, and yet, variations in the anatomy and location of nerves and poor visibility during recurrent tumor operations are the most common reasons for N. recurrent paresis.

● Functionality

Intraoperative neuromonitoring involves the transmission of minute current pulses to the nerve with special stimulation probes. The intact nerve conducts the excitation to the vocalis muscle, where the generated muscle action potential is measured through electromyography and converted into visual or acoustic signals.

● CVNS Continuous Vagus Nerve Stimulation

This innovative method involves a stimulation electrode that is placed on the N. vagus during the entire operation. The permanent background stimulation enables the surgeon to notice any changes in the signal immediately and react accordingly, e.g. by avoiding strain on the nerve and thus preventing permanent damage.



● Flexible and efficient

As each surgical discipline has its own typical requirements in neuromonitoring, we have been listening to our clients. We have developed dedicated user interfaces. See for yourself, and you will be surprised how straightforward and intuitive the use of our equipment is.

Ergonomics has become a centre-piece in the development of medical equipment. Our monitor interfaces are clearly designed with a minimum of hierarchies. The easy operability of the system allows surgeons to concentrate on what is essential at every stage of the surgical process.

Looking good from every angle - our neuromonitors combine outstanding contemporary design with outstanding technology. Highly functional and elegant, they are bound to impress.

> The art of Neuromonitoring in Thyroid surgery



● Tube Electrodes

Signal acquisition at the vocalis muscle.

- extremely thin
- ultra-elastic
- easy to place
- large contact surfaces



● Electrode Tube

Intubation and lead placement in a single step.

The extra-long, conductive contact surfaces are extremely position-tolerant, and the tube remains flexible at all times. It has never been easier to position an electrode on the vocal cords.



● Saxophone electrode

Permanent vagus nerve stimulation.

Our saxophone electrode provides you with one of the safest systems for the continuous monitoring of the recurrent laryngeal nerve. The new approach that allows the vagus nerve to be continuously stimulated outside the immediate operation site provides additional safety where repetitive surgery is required.

● Stimulation Probes

Electric stimulation of nerves and neuronal structures



The choice is yours:
Bipolar or monopolar, conventional or minimally invasive, with or without microscope.

Reusable or disposable accessories

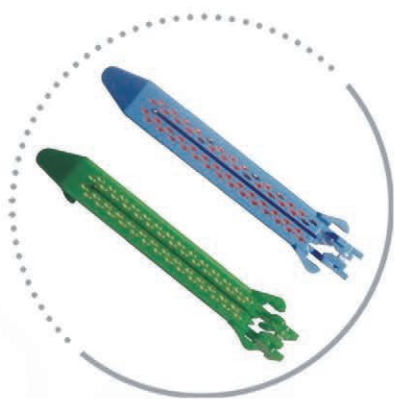
Our range offers a matching solution for virtually all situations.

Our stimulation probes have been made with special attention to ergonomics.



➤ Disposable Linear Cutting Stapler and Cartridge

- Designed to provide accurate and reliable staple formation and resection.
- Accurate positioning function avoids tissue damage
- Multiple sizes are available for different procedure requirements



● Disposable Loading Unit

Designed to provide accurate and reliable staple formation and resection.



➤ Disposable Endoscopic Linear Cutting Stapler



- Designed to provide safe and efficient procedures.
- Offers precision cutting and reliable stapling for endoscopic surgeries.
- Ensure the blade is sharp and reduces tissue damage.

➤ Disposable Clip Applier

Suitable for occluding blood vessel and other tissue structures in endoscopic surgery or open surgery.

- Super interlock clips
- Glare-resistant shaft and black jaw with clear clip window
- Safety-interlock design



➤ Circular Stapler

- Ultrathin anvil, more convenient for procedure
- Bigger inner cutting diameter, minimize anastomosis stricture
- Rational arrangement of staples, reduce bleeding after procedure
- Tissue gap between anvil and cartridge, avoid tissue damage
- High-quality imported titanium staples, greater tension-resistance on anastomosis



LocaMed

Working with the foremost companies in their class, LocaMed Ltd has brought together a unique and exciting portfolio of market leading products that not only enable greater efficiency in surgery, but greater flexibility in cost without compromising patient care.

The products from Locamed each have the highest quality despite being the simpler products which allows Locamed to give you the complete offering.

➤ Laparoscopic LT Appliers LT Titanium Clips



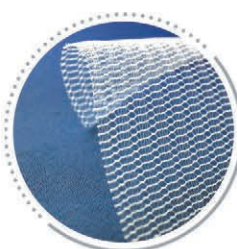
The Locamed clip applier is reliable and has a comfortable grip. It is intended for ligation with titanium clips. Laparoscopic Clips Applier for all different size clips. Application for various laparoscopic procedures.

➤ Disposable Monopolar Probes 5mm - Hook



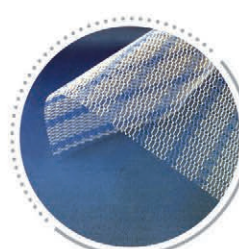
Monopolar probes enable the precise, controlled dissection and coagulation of vessels and tissues.

➤ Hernia Repair / Polypropylene Surgical Mesh



• Bulev

Lightweight, macroporous, non-absorbable, monofilament polypropylene mesh.



• Bulev B

Lightweight, macroporous, non-absorbable, monofilament polypropylene mesh with blue stripes to ease positioning.



• P3 - T soft mesh

Device composed by pre-shaped, medium weight, non-absorbable mesh in polypropylene monofilament and 3D plug, non-absorbable, monofilament polypropylene, medium weight mesh.

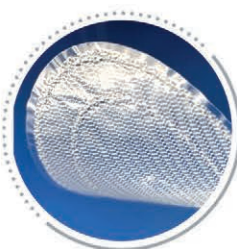


• Plug 3D

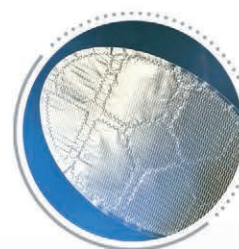
Tridimensional plug in polypropylene, lightweight, macroporous mesh, with and without base.

● 2P ClearMesh Composite

Transparent, lightweight, ultra-thin, non-absorbable surgical prosthesis in polypropylene, made by monofilament macroporous mesh and a transparent film.



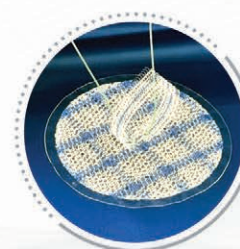
2P-CMC
Ventral Hernia



2P-Pcmc
Parastomal Hernia



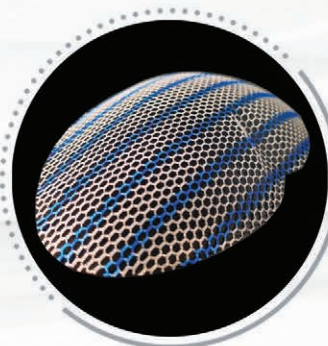
2P-FlaPp
Abdominal Hernia



2P-Ucmc
Umbilical Hernia

● 3D Hexamesh Ultra

- 3D Mesh for Hernia Repair
- 3D Polypropylene Monofilament Mesh with hexagonal structure.
- Shape memory implant suitable for TAPP and TEP surgery.
- Left & Right.



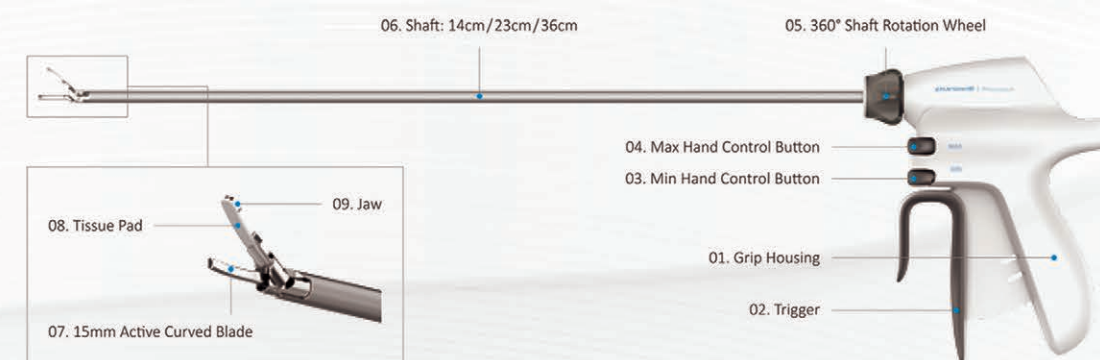
Professional spirit creates professional products. Precision manufacture assists precision surgery. Ultrasonic scalpel has multiple functions such as hemostasis, cutting, grasping, dissections, etc. So it can reduce the intraoperative replacement of instruments and shorten the operation time.



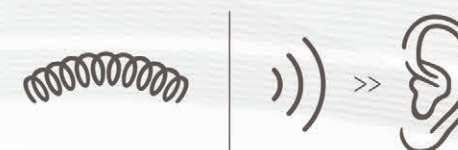
● Multi-functionality



● Precise Operation, Easy Handling



● Enhanced Safety & Advantages

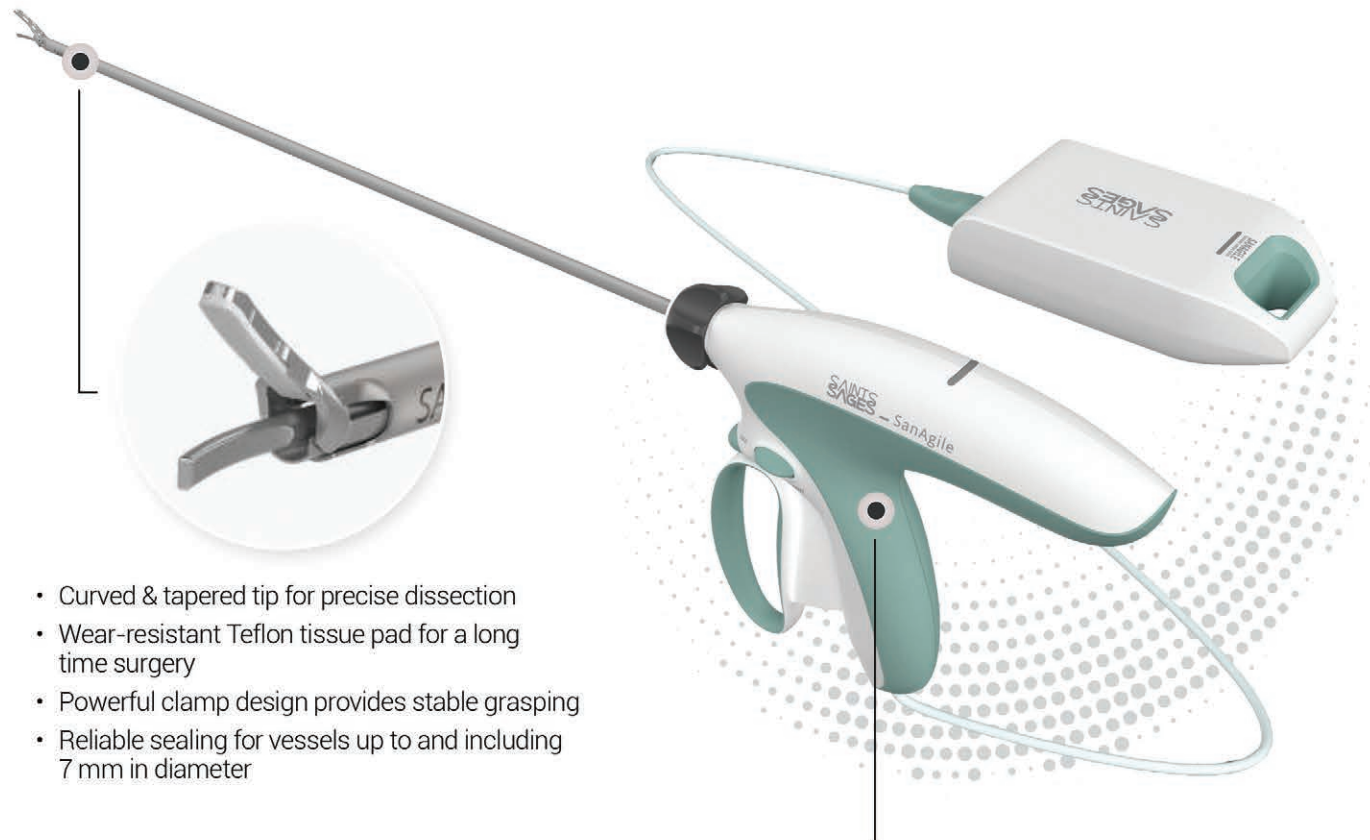


- Minimal lateral thermal tissue damage, safe operation in important organs.
- Decreased probability of intraoperative litigation and reduced blood loss.
- The instrument is equipped with gripping force cushion and auditory feedback to guarantee reliability.

➤ Ultrasonic // Scissor-Type



➤ SASD SanAgile™ Ultrasonic Surgery Advanced Dissectors SASD14/SASD23/SASD36/SASD45



- Curved & tapered tip for precise dissection
- Wear-resistant Teflon tissue pad for a long time surgery
- Powerful clamp design provides stable grasping
- Reliable sealing for vessels up to and including 7 mm in diameter

- Transducer and dissector are integrated into one makes easy to use
- Integrated with user interface (UI) interaction circuit
- Intuitive LED indicator and speaker

● Description

SASD SanAgile™ Ultrasonic Surgery Advanced Dissectors include four models: SASD14, SASD23, SASD36, and SASD45. Each model features maximum and minimum energy settings and innovatively integrates the transducer inside, providing a fire-new choice for different users, meeting different surgical scenarios, and widely using in laparoscopic and open surgeries.

- Plug and play, let the surgeons spend less time focusing on what is in their hand, and more time focusing on the task at hand
- The arc-shaped jaws is convenient for surgeons to obtain better field of vision during surgeries
- The jaws can be rotated 360 degrees to meet the operation requirements of different direction and enable easy access to target tissue
- Unique extension cord reduces twining and improves comfortable during operations
- There are 4 shaft lengths to meet the needs of all kinds of surgeries
- No need to pre-activate self-test

SASD45

Shaft length: 45cm / Diameter: 5.5mm

SASD36

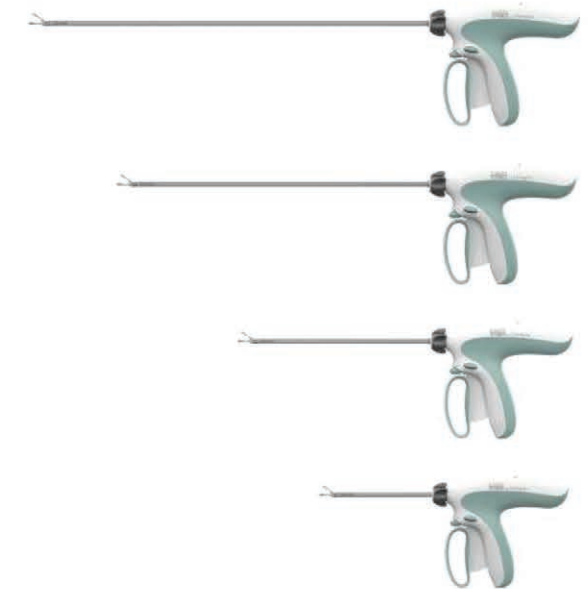
Shaft length: 36cm / Diameter: 5.5mm

SASD23

Shaft length: 23cm / Diameter: 5.5mm

SASD14

Shaft length: 14cm / Diameter: 5.5mm



➤ SA10 Portable Controller

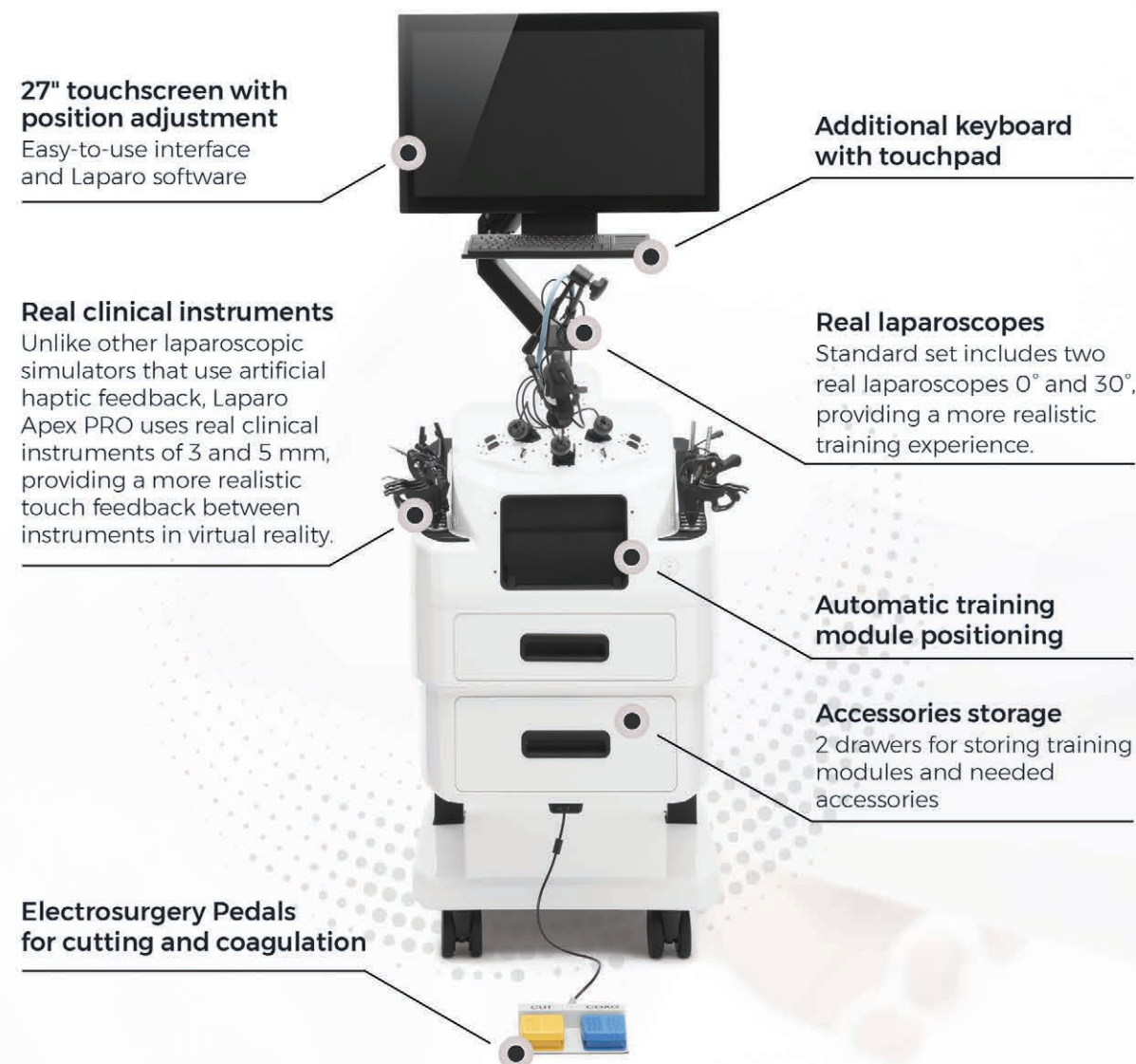


The SA10 portable controller transforms the electrical energy into a high frequency of approximately 55.5kHz, which is converted into an ultrasonic wave pulse in the transducer. This pulse vibrates the tissue blade and produces heat in the tissue. It provides two power levels - minimum and maximum – and the Max setting is designed for faster dissection and the MIN setting is for reliable coagulation.

- RTTE II Intelligent Algorithm
- Intelligent energy range setting and no need to adjust energy level
- Coagulating isolated vessels up to and including 7 mm in diameter
- Size as a smart phone, only a tenth of traditional generator
- Easy to move and carry, plug and play
- Fast transection, safe sealing, extraordinary reliability, better tissue protection

APEX PRO

➤ **Laparoscopic Training**



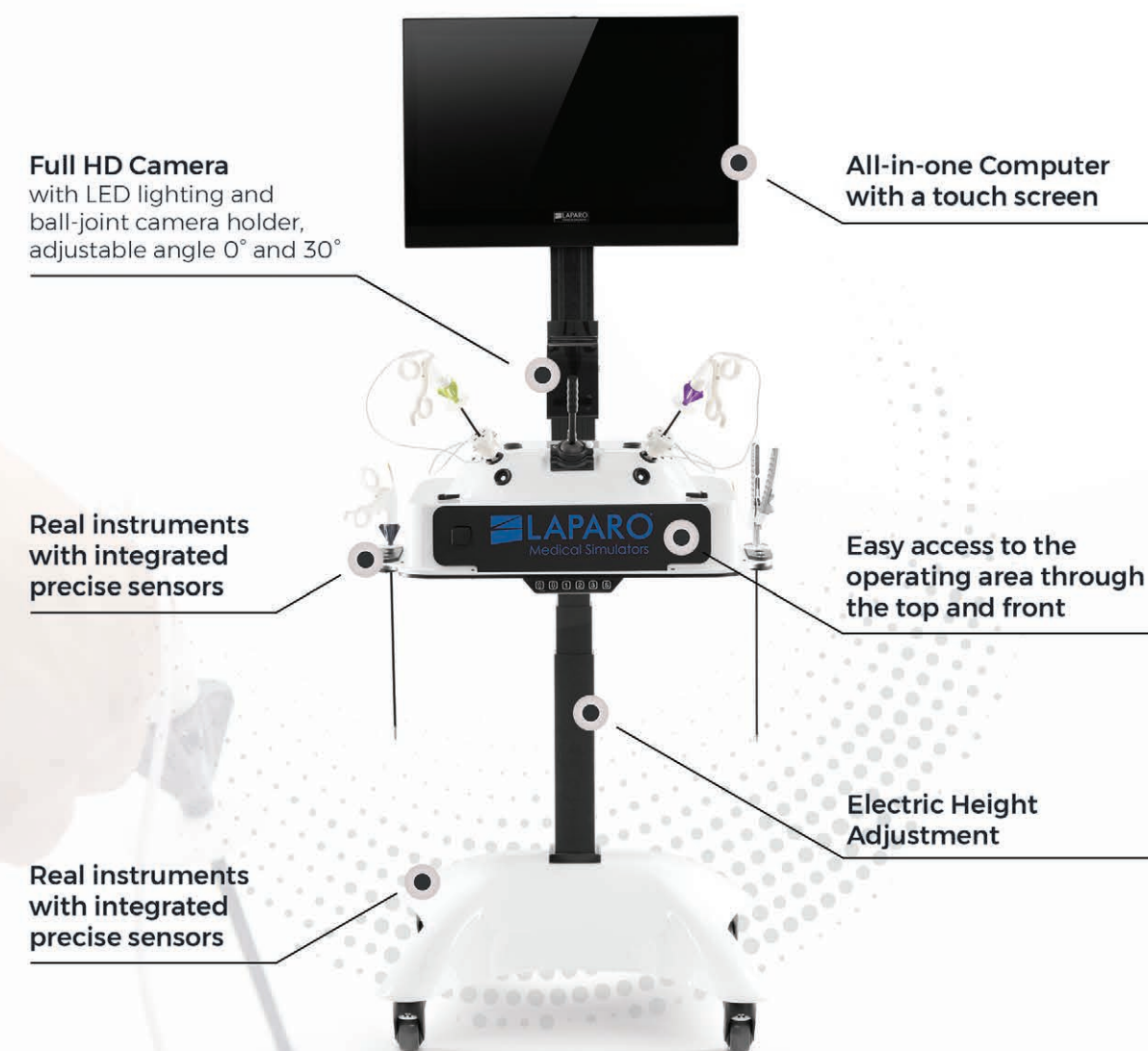
● **Unlock the potential**
of pediatric surgical training with Laparo Apex PRO

The only laparoscopic simulator on the market that offers dedicated pediatric surgery training modules, providing a comprehensive training solution of laparoscopic procedures on children

- Pediatric training program (Virtual + Real)
- 3 pediatric ports with reduced distance of 4.5 cm
- Trocars adapted to work also with 3 mm instruments
- Set of pediatric instruments
- 5 mm diameter real pediatric laparoscope

The world's only laparoscopy simulator with state-of-the-art training analysis software. To maximize training effectiveness thanks to ultra-precise real-time analysis.

Analytic brings laparoscopic simulation to a higher level and accelerates results due to networking capabilities and Mentor Desktop Server feature. It boosts skills and improves the learning curve allowing for progress monitoring on an ongoing basis.



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➤ Reusable Laparoscopic Instruments

Comepa offers an extensive selection of reusable laparoscopic instruments even for the most complicated invasive procedures.

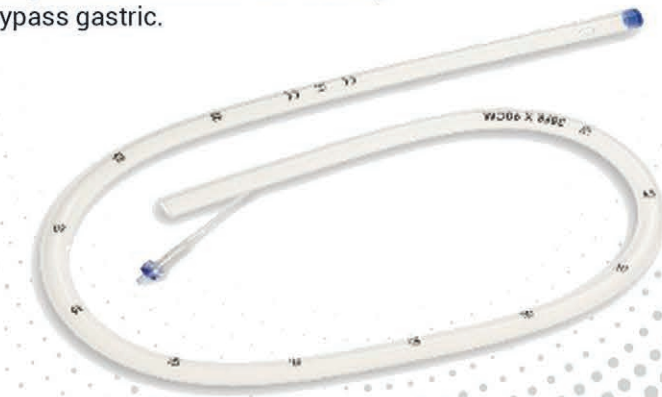
- Ergonomic
- Flexibility
- Durable
- Precision
- Secure
- Easy to use



➤ Gastric Calibration Tube

Sterile calibration tube used in surgical interventions for obesity: longitudinal sleeve gastrectomy, bypass gastric.

- Easy and safe
- Precision
- Medical Silicone grade
- Totally atraumatic due to simple design



➤ Forceps & Electrodes

Reliability, Security, Ease of Use



Bipolar Forceps



Monopolar Forceps



Disposable Electrodes



hARTT Family Electrosurgical Units

➤ RF100 & RF-B

Electrosurgical units for surgical procedures that require gentle & clean cutting associated with the RFwave.

All digital 100 & 130 Watt mono/bipolar unit with cutting-edge technology 4MHz radiofrequency surgery unit for ENT, general surgery, dermatology, plastic, etc. KENTAMED RF-B is capable of performing soft coagulation (deep, with no carbonization) and very fine cutting, and at the same time it can be used for general surgical purposes like heavy cutting through several centimeters of fatty tissue and rapid forced coagulation.



● Application

Any Surgical procedure including monopolar and bipolar laparoscopic applications and applications in wet environment

Variety of models suitable for evert surgical practice

- Office-Based surgery
- Operating Room Surgery
- RF Surgeryt

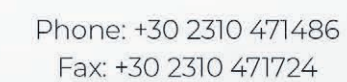
Notes



improvedmed
medical equipment & supplies



Notes





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Eurotech Office 67-68
13th km Thessaloniki-Moudanion
Thessaloniki GR-57001, Greece
PO Box: 60-364

Phone: +30 2310 471486
Fax: +30 2310 471724

info@improvement.gr
www.improvement.gr