

Embracing  
the  
future  
of  
healthcare





ENDOLINE  
PRODUCT CATALOGUE  
2022

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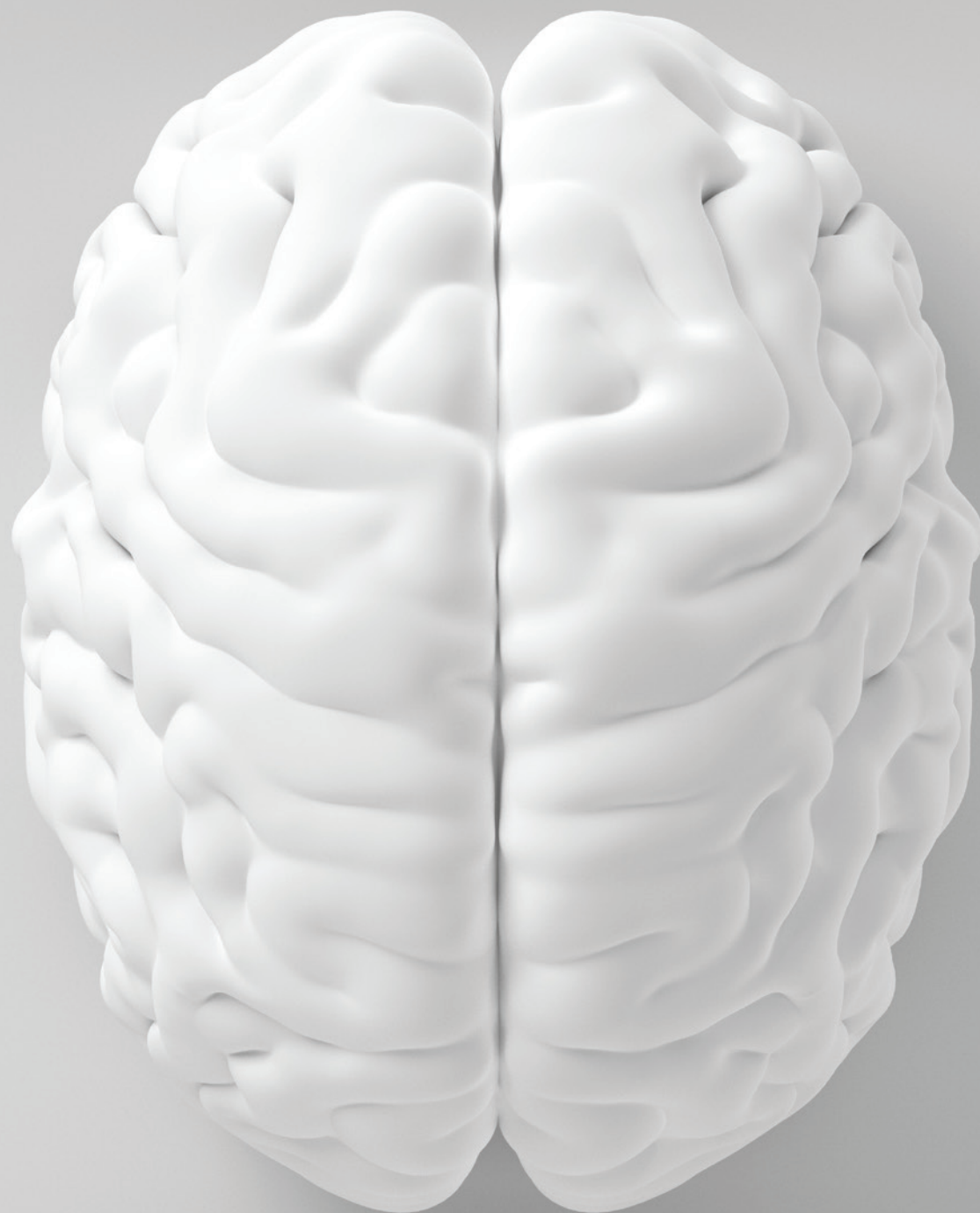
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## Be Ahead Of The Curve With Our Latest Innovations

WE ARE FAMILY OF MOTIVATED INDIVIDUALS, DRIVEN BY OUR DESIRE TO MAKE INNOVATIVE, EXCELLENT QUALITY MEDICAL PRODUCTS AVAILABLE TO MODERN MEDICINE IN A SUSTAINABLE WAY.

At EMD we offer quality design, production and services, that enable medical professionals to perform advanced minimal invasive operations.

Our carefully accumulated knowledge and expertise enable us to create singular tools and devices that medical professionals can use sustainably. To offer our customers the best of the best, our products are manufactured with meticulous care from high quality materials.

We are dedicated and passionate in everything we do. Through our performance and solution driven mindset, we have the opportunity to make a difference. We are innovation and business oriented with a strong belief in daring to do things better.

# FOREWORD



## From CEO

“

Everything we do is rooted in the belief that, together with our colleagues, teams and partners, we can create positive change to support modern medicine through our high-end products and services.

Each time before we embark on a new development, we have to make sure we possess the essential attributes that will fuel us to work for years to come for the very moment we first hold a new product in hand. These are: know-how, perseverance, proof and faith.

We've been working hard and have come a long way over the last 25 years. When EMD was founded in 1997, we were thinking about how we could design and manufacture minimal invasive medical devices. Since then, we've made such a progress as a team that today, however, we are thinking about how to become one of the best and most innovative companies in the industry.

We are proud of the progress we're making, and are ensuring that our expertise and competencies are essential elements of EMD's future that we will continue to embrace and grow.

**Mr. Gyula Ujvari**  
FOUNDER & CEO





- 1997** EMD is founded as a repair service provider. Main activity is repair of endoscopic optics and endoscopic instruments.
- 2001** We launch our laparoscopic system being first own product development.
- 2005** EMD steps out of being a local supplier and starts export activities in various markets. EMD begins to develop and produce neurosurgery devices.
- 2012** EMD relocates to new headquarters with more on site facilities. Company profile continues to expand.
- 2017** The company obtains CE approval for own neurosurgical and laparoscopy development.
- 2021** Product portfolio is further increased by six additional EMD product group receiving CE mark.

ABOUT US

## Our Vision

We believe in leading not following. We turn fault into our virtue and trust our never-compromising nature dictating our rhythm, which takes us to innovative ideas and exceptional product developments.

We are convinced that possibility is bigger than the fear of failure. That is why we dare to dream big and are not afraid to be challenged on the way to success. Our vision is to be industry leaders in medical device development and manufacture.

## Our Mission

OUR MISSION IS TO SUPPORT MODERN MEDICINE  
BY OFFERING ADVANCED, FIRST-CLASS QUALITY  
MEDICAL DEVICES.

## Our Values

We like to walk our talk and lead by example. Our values are part of who we are, what we stand for and how we act.

Our great colleagues make the difference. It's when we share our skills, knowledge and expertise, we become one team.

We encourage and help each other to achieve our goals, while always having our customers' and their patients' best interest in mind.

## Markets & Expansion

EMD is expanding, with a focus on multi-channel sales. We treat and nurture long term partnerships and business growth as one of our top priorities. We offer advanced and unique medical tools for minimal invasive surgeries that want to give professionals unbeatable value with the best combination of innovation, quality, price and sustainability.

When it comes to expansion strategies and activities, we spare no time to find the most prosperable opportunities we are able to find out there, that not only benefit us, but our partners too. With the continuous product developments we have been making recently, we are enthusiastic to be on the path greatly expanding our existing presence on the market.

## Research & Development

Our network of medical professionals, together with the global industry needs and challenges set new directions to our developments.

Through our product developments, our priority is to effectively support surgical procedures, which are still very difficult or can only be performed with conventional surgery, so that they could be carried out with as few and little incisions as possible. In the near future, we continue to focus on minimal invasive developments and present new products for spine,- neuro,- and laparoscopic surgery.

## Innovative Solutions

Innovative product developments enable us to find and implement new technologic solutions, which are not yet in practice.

At the birth of a new idea, we start exploring ways of execution and won't stop until we find the right technology that can be applied for best results. This way, we are inspired to never stand still, we find new discoveries and are able to create that was thought impossible.



WE BELIEVE THAT

## Uncompromising Quality

IS A MATTER OF HIGH EXPECTATIONS.

GUARANTEEING THE RELIABILITY OF AN **emd**<sup>®</sup> PRODUCT REQUIRES THE APPLICATION OF A MULTITUDE OF SKILLS. FROM THE PRECISE SELECTION OF RAW MATERIALS AND MACHINING TECHNOLOGIES TO THE COMPLEXITY OF PRODUCT CERTIFICATION, EVERY STEP IS TAKEN TO ENSURE THAT OUR QUALITY ITEMS MEET THE HIGHEST SAFETY STANDARDS FOR BOTH THE PATIENT AND THE SURGEON.

# HAND INSTRUMENTS

# ENDOLINE Hand Instruments

LAPAROSCOPY HAS BECOME ONE OF THE MOST SUCCESSFUL BRANCHES OF MINIMALLY INVASIVE SURGERY, WITH MANY APPLICATION FIELDS, INCLUDING UROLOGY AND GYNECOLOGY AS WELL.

WE CONSIDER IT IMPORTANT TO CONTINUOUSLY DEVELOP THIS PRODUCT AREA, DYNAMICALLY ADAPTING TO THE PROFESSIONAL CHALLENGES.

THE INSERT PROFILES IN OUR ENDOLINE PRODUCT RANGE ARE SELECTED TO PROVIDE THE GREATEST POSSIBLE VARIETY TO MEET A WIDE RANGE OF NEEDS.



## Unique & Supportive Features

THE DISMANTLING OF DEVICES IS A HIGH REQUIREMENT, ESPECIALLY FOR CLEANING AND STERILIZATION.

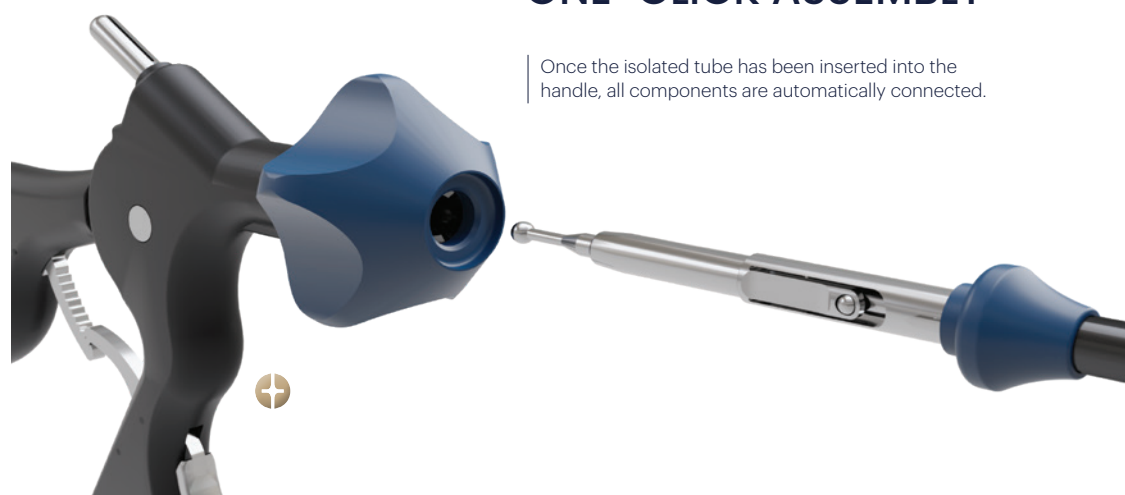
SIMPLICITY OF ASSEMBLY IS EQUALLY IMPORTANT, BECAUSE EASE OF USE IS A KEY FACTOR IN THE TROUBLE-FREE

COMPOSITION OF THE COMPONENTS.

THE DESIGN OF ENDOLINE INSTRUMENTS THEREFORE INCORPORATES A NUMBER OF UNIQUE TECHNICAL SOLUTIONS.

### ONE-CLICK ASSEMBLY

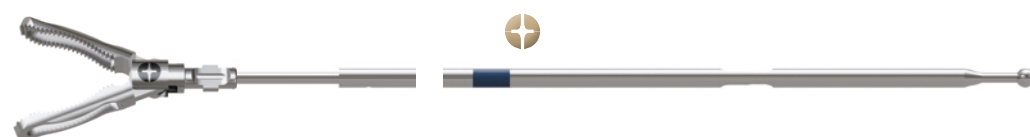
Once the isolated tube has been inserted into the handle, all components are automatically connected.



### COLOR GUIDES

Clear color coding on **emd**® EndoLine hand instruments allows simple and safer assembly.

The three components (handle, tube, insert) are color coded in a distinctive blue marker, to distinguish from other makes/generations on the same instrument tray.



### PUSH BUTTON RELEASE

The push button makes disassembly particularly easy.

By pushing the button, the sliding ring handle can be lifted and the isolated tube assembled with the insert is automatically disconnected.



### ERGONOMIC PLASTIC HANDLE

The ergonomic design of the handle ensures comfort use even during long operations.

Thanks to the fibreglass-reinforced plastic raw material, the handle is extremely durable.

### SPECIAL LOCKING MECHANISM

The locking mechanism of the EndoLine handles can be disengaged and it allows three functions:

- ① OFF: handle mode without ratchet
- ② AUTOMATIC: operation of the ratchet gives possibility to fix the tissue securely
- ③ UNLOCKED: by pressing the unlocking button, the tissue fixation can be released



### ANTI-REFLECTION SURFACE

The insulated tube features a matt surface to avoid reflection.



### PRECISION JAWS MOVING SYSTEM

Our newly developed jaw moving mechanism provides excellent transmission of the more delicate hand movements to the head, and is designed for greater force torque as well.

The advanced shortened head housing ensures higher patient safety as uninsulated surfaces are minimized.

**ELI-2xx2**

**INSERT** Ø5mm  
Working length 230mm

**ELI-2xx5**

**INSERT** Ø5mm  
Working length 330mm

**ELI-2xx8**

**INSERT** Ø5mm  
Working length 430mm

**ELI-3xx5**

**INSERT** Ø10mm  
Working length 330mm

**ELI-3xx8**

**INSERT** Ø10mm  
Working length 430mm

**ELI-S25**

**SHEATH** Ø5mm  
insulated, rotatable  
Working length 330mm

**ELI-S26**

**SHEATH** Ø5mm  
insulated, rotatable  
Working length 360mm

**ELI-S28**

**SHEATH** Ø5mm  
insulated, rotatable  
Working length 430mm

**ELI-S35**

**SHEATH** Ø10mm  
insulated, rotatable  
Working length 330mm

**ELI-S38**

**SHEATH** Ø10mm  
insulated, rotatable  
Working length 430mm

**ELI-H1**

**HANDLE**  
plastic,  
with HF unipolar connector

**ELI-H3**

**HANDLE**  
plastic,  
with HF unipolar connector  
With releasable ratchet

## Seamless Design. Expressive Benefits.

- ⊕ ROTATING AND DETACHABLE LAPAROSCOPY INSTRUMENTS
- ⊕ CONSTRUCTION: INSERT + SHEATH + HANDLE (ALL PARTS INTERCHANGEABLE)
- ⊕ NEW IMPROVED ENDOLINE JAW-MOVING MECHANISM BY POSITIVE COUPLING
- ⊕ INSULATED INSTRUMENTS EQUIPPED WITH UNIPOLAR CONNECTION
- ⊕ SHEATH SIZES: DIAMETER 5 OR 10MM, WORKING LENGTH 330MM
- ⊕ PLASTIC HANDLES ARE AVAILABLE WITHOUT RATCHET OR EQUIPPED WITH METAL RATCHET WHICH CAN BE INACTIVATED
- ⊕ EASY DETACHING BY A SINGLE PUSH-BUTTON





ELI – 2025H1

**SCISSORS** Metzenbaum with curved blades,  
length of head 15mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2025, sheath ELI-S25, handle ELI-H1



ELI-2045H1

**SCISSORS** hook, single action jaws,  
length of head 10mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2045, sheath ELI-S25, handle ELI-H1



ELI-2405H1

**DISSECTING FORCEPS** Maryland with curved  
jaws, length of head 15mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2405, sheath ELI-S25, handle ELI-H1



ELI-2435H1

**DISSECTING FORCEPS** Maryland with curved  
long jaws, length of head 20mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2435, sheath ELI-S25, handle ELI-H1



ELI-2535H1

**DISSECTING FORCEPS** with bent (angle 90°)  
jaws, length of head 16mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2535, sheath ELI-S25, handle ELI-H1



ELI-2465H1

**ADHESION FORCEPS** with finely toothed „S“  
shapedjaws, length of head 12mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2465, sheath ELI-S25, handle ELI-H1



ELI-2425H1

**GRASPING FORCEPS** anatomical,  
length of head 12mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2425, sheath ELI-S25, handle ELI-H1



ELI-2455H1

**GRASPING FORCEPS** with finely toothed curved  
jaws, one of the jaws is fenestrated,  
length of head 11mm,  
*Working length 330mm, Complete*  
Components\*: insert ELI-2455, sheath ELI-S25, handle ELI-H1



ELI-2255H1

**GRASPING FORCEPS** with finely toothed  
fenestrated jaws, length of head 16mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2255, sheath ELI-S25, handle ELI-H1



ELI-2235H1

**GRASPING FORCEPS** with finely toothed  
curved, fenestrated jaws, length of head 16mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2235, sheath ELI-S25, handle ELI-H1



ELI-2445H1

**GRASPING FORCEPS** with curved smooth jaws,  
length of head 12mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2445, sheath ELI-S25, handle ELI-H1



ELI-2375H1

**GRASPING FORCEPS** CroceOlmi with finely  
toothed fenestrated, slightly curved upward jaws,  
length of head 25mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2375, sheath ELI-S25, handle ELI-H1

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ELI-2405H3

**DISSECTING FORCEPS** Maryland with curved jaws,  
length of head 15mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2405, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2435H3

**DISSECTING FORCEPS** Maryland with curved long jaws,  
length of head 20mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2435, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2535H3

**DISSECTING FORCEPS** with bent (angle 90°) jaws,  
length of head 16mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2535, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2465H3

**ADHESION FORCEPS** with finely toothed „S“ shaped jaws,  
length of head 12mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2465, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2425H3

**GRASPING FORCEPS** anatomical,  
length of head 12mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2425, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2455H3

**GRASPING FORCEPS** with finely toothed curved jaws,  
one of the jaws is fenestrated,  
length of head 11mm,  
*Working length 330mm, Complete*  
Components\*: insert ELI-2455, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2255H3

**GRASPING FORCEPS** with finely toothed fenestrated jaws,  
length of head 16mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2255, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2235H3

**GRASPING FORCEPS** with finely toothed curved,  
fenestrated jaws, length of head 16mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2235, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2445H3

**GRASPING FORCEPS** with curved smooth jaws,  
length of head 12mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2445, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2375H3

**GRASPING FORCEPS** CroceOlmi with finely toothed  
fenestrated, slightly curved upward jaws,  
length of head 25mm,  
*Working length 330mm, Complete*  
Components\*: insert ELI-2375, sheath ELI-S25, handle with ratchet ELI-H3



ELI-2225H1

**GRASPING FORCEPS** universal,  
length of head 15mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2225, sheath ELI-S25, handle ELI-H1



ELI-2275H1

**GRASPING FORCEPS** Babcock with long,  
fenestrated jaws, length of head 21mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2275, sheath ELI-S25, handle ELI-H1



ELI-2365H1

**GRASPING FORCEPS** for bowel, with finely  
toothed long fenestrated jaws,  
length of head 35mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2365, sheath ELI-S25, handle ELI-H1



ELI-2525H1

**GRASPING FORCEPS** aligator with toothed jaws,  
length of head 19mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2525, sheath ELI-S25, handle ELI-H1



ELI-2205H1

**GRASPING FORCEPS** with multiple teeth,  
length of head 12mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2205, sheath ELI-S25, handle ELI-H1



ELI-2215H1

**GRASPING FORCEPS** with 2:4 claws,  
length of head 12mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2215, sheath ELI-S25, handle ELI-H1



ELI-2245H1

**GRASPING FORCEPS** with 1:2 teeth,  
length of head 18mm,  
*Working length 330mm, Complete*  
Components\*: insert ELI-2245, sheath ELI-S25, handle ELI-H1



ELI-2305H1

**GRASPING FORCEPS** with 2:3 claws,  
length of head 23mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2305, sheath ELI-S25, handle ELI-H1



ELI-2315H1

**GRASPING FORCEPS** with 8:9 claws,  
length of head 23mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2315, sheath ELI-S25, handle ELI-H1



ELI-2605H1

**SPOON FORCEPS**  
length of head 10mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2605, sheath ELI-S25, handle ELI-H1



ELI-2715H1

**KNOTTING FORCEPS** with slit-profile, slightly  
curved smooth jaws, length of head 10mm,  
*Working length 330mm, Complete*  
Components\*: insert ELI-2715, sheath ELI-S25, handle ELI-H1



ELI-2655H1

**TENACULUM FORCEPS** with 1:1 claws,  
length of head 20mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2655, sheath ELI-S25, handle ELI-H1

ELI-2225H3

**GRASPING FORCEPS** universal,  
length of head 15mm,  
*Working length 330mm, Complete*  
Components\*: insert ELI-2225, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2275H3

**GRASPING FORCEPS** Babcock with long,  
fenestrated jaws, length of head 21mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2275, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2365H3

**GRASPING FORCEPS** for bowel, with finely  
toothed long fenestrated jaws,  
length of head 35mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2365, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2525H3

**GRASPING FORCEPS** aligator with toothed jaws,  
length of head 19mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2525, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2205H3

**GRASPING FORCEPS** with multiple teeth,  
length of head 12mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2205, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2215H3

**GRASPING FORCEPS** with 2:4 claws,  
length of head 12mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2215, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2245H3

**GRASPING FORCEPS** with 1:2 teeth,  
length of head 18mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2245, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2305H3

**GRASPING FORCEPS** with 2:3 claws,  
length of head 23mm,  
*Working length 330mm, Complete*  
Components\*: insert ELI-2305, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2315H3

**GRASPING FORCEPS** with 8:9 claws,  
length of head 23mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2315, sheath ELI-S25, handle with ratchet ELI-H3

ELI-2605H3

**SPOON FORCEPS**  
length of head 10mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2605, sheath ELI-S25, handle with ratchet ELI-H3

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ELI-2655H3

**TENACULUM FORCEPS** with 1:1 claws,  
length of head 20mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-2655, sheath ELI-S25, handle with ratchet ELI-H3



**ELI-3485H1**  
**DISSECTOR OVERHOLD-MIXTER**  
length of head 31mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3485, sheath ELI-S35, handle ELI-H1



**ELI-3615H1**  
**GRASPING FORCEPS** Allis,  
with fenestrated jaws, length of head 48mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3615, sheath ELI-S35, handle ELI-H1



**ELI-3255H1**  
**GRASPING FORCEPS** universal, with fenestrated  
jaws, length of head 32mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3255, sheath ELI-S35, handle ELI-H1



**ELI-3315H1**  
**GRASPING FORCEPS** Debakey,  
length of head 36mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3315, sheath ELI-S35, handle ELI-H1



**ELI-3275H1**  
**GRASPING FORCEPS** Babcock I,  
with fenestrated jaws, length of head 41mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3275, sheath ELI-S35, handle ELI-H1



**ELI-3265H1**  
**GRASPING FORCEPS** Babcock II,  
length of head 35mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3265, sheath ELI-S35, handle ELI-H1



**ELI-3295H1**  
**GRASPING FORCEPS** Babcock III,  
with fenestrated jaws, length of head 35mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3295, sheath ELI-S35, handle ELI-H1



**ELI-3305H1**  
**GRASPING FORCEPS** with 2:3 claws,  
length of head 40mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3305, sheath ELI-S35, handle ELI-H1



**ELI-3325H1**  
**GRASPING FORCEPS** with 8:9 claws,  
fenestrated long jaws, length of head 40mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3325, sheath ELI-S35, handle ELI-H1



**ELI-3635H1**  
**TENACULUM FORCEPS** with 1:1 claws,  
length of head 31mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3635, sheath ELI-S35, handle ELI-H1



**ELI-3435H1**  
**DISSECTING FORCEPS** Maryland with curved  
jaws, length of head 15mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3435, sheath ELI-S35, handle ELI-H1



**ELI-3625H1**  
**SPOON FORCEPS** single action jaws  
length of head 10mm,  
*Working length 330mm, Complete*  
Components\*: insert ELI-3625, sheath ELI-S35, handle ELI-H1



**ELI-3205H1**  
**GRASPING FORCEPS** length of head 45mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3205, sheath ELI-S35, handle ELI-H1

**ELI-3485H3**  
**DISSECTOR OVERHOLD-MIXTER**  
length of head 31mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3485, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3615H3**  
**GRASPING FORCEPS** Allis,  
with fenestrated jaws, length of head 48mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3615, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3255H3**  
**GRASPING FORCEPS** universal, with fenestrated jaws,  
length of head 32mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3255, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3315H3**  
**GRASPING FORCEPS** Debakey,  
length of head 36mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3315, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3275H3**  
**GRASPING FORCEPS** Babcock I, with fenestrated jaws,  
length of head 41mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3275, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3265H3**  
**GRASPING FORCEPS** Babcock II,  
length of head 35mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3265, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3295H3**  
**GRASPING FORCEPS** Babcock III, with fenestrated jaws,  
length of head 35mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3295, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3305H3**  
**GRASPING FORCEPS** with 2:3 claws,  
length of head 40mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3305, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3325H3**  
**GRASPING FORCEPS** with 8:9 claws,  
fenestrated long jaws, length of head 40mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3325, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3635H3**  
**TENACULUM FORCEPS** with 1:1 claws,  
length of head 31mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3635, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3435H3**  
**DISSECTING FORCEPS** Maryland with curved jaws,  
length of head 15mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3435, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3625H3**  
**SPOON FORCEPS** single action jaws  
length of head 10mm,  
*Working length 330mm, Complete*  
Components\*: insert ELI-3625, sheath ELI-S35, handle with ratchet ELI-H3

**ELI-3205H3**  
**GRASPING FORCEPS** length of head 45mm  
*Working length 330mm, Complete*  
Components\*: insert ELI-3205, sheath ELI-S35, handle with ratchet ELI-H3

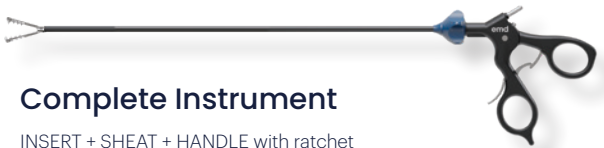
## Explanation To The Use Of Order Codes



**Complete Instrument**

INSERT + SHEAT + HANDLE

Illustration of **emd®** EndoLine Hand Instrument equipped with Ø5mm scissors with standard working length.



**Complete Instrument**

INSERT + SHEAT + HANDLE with ratchet

Illustration of **emd®** EndoLine Hand Instrument equipped with Ø10mm grasping forceps with standard working length, handle with ratchet.



WE BELIEVE THAT

## Functionality And Design

CREATE WORK OF ART.

EITHER WE ARE WORKING ON A NEW PRODUCT DEVELOPMENT OR WE ARE RETHINKING AN OLDER DESIGN, OUR TOP PRIORITY IS CREATING HIGH-END PRODUCTS THAT COMPLY WITH THE CHALLENGES OF THE TIME, BOTH IN TERMS OF FUNCTION AND USABILITY.

# TROCARS

## Why ENDOLINE Trocar System?

OUR INTENTION IS TO PROVIDE A SAFE, STABLE AND RELIABLE PORT BETWEEN THE PATIENT AND THE SURGEON, IN ORDER TO SUPPORT FREE MOVEMENTS FOR THE MANIPULATORS DURING THE WHOLE SURGICAL PROCEDURE.

THE CONSTRUCTION OF THE TROCAR SLEEVES BOTH PROTECTS THE INSERTED TELESCOPES AND M.I.S. INSTRUMENTS AS WELL.

ROBOTICS CONTROLLED, HIGH PRECISION LASER-WELDING RESULT IN BOTH AN EXTRAORDINARY STABLE CONSTRUCTION AND AN AESTHETIC APPEARANCE.

THE ERGONOMIC SURFACE OF ENDOLINE TROCAR HANDLES PERFECTLY FITS IN THE FLAT OF THE HAND AND GRANTS COMFORTABLE HOLDING DURING PENETRATION OF ABDOMINAL WALL.



## User Benefits At A Glance

THE DESIGN OF **emd**<sup>®</sup> ENDOLINE TROCAR SYSTEM IS BASED ON YEARS OF OUR EXPERIENCE, COMBINED WITH THE CONTINUOUS COOPERATION AND FEEDBACK FROM MEDICAL PROFESSIONALS, RESULTING IN UNIQUE PRODUCT FEATURES.

### CONICAL SHAPE – FOR GUIDANCE OF INSTRUMENTS

The conical shape of the insertion surface facilitates sliding in the instruments, which does not require any specific targeting.

The unobstructed instrument insertion allows the surgeon to focus more on function of the introduced manipulator itself.

### SHORTENED TROCAR BODY

The shortened trocar body design grants a longer working length for the applied laparoscopic instruments.

### ERGONOMIC HANDLE



The ergonomic surface of EndoLine trocar handles perfectly fits in the flat of the hand and grants comfortable holding during penetration of abdominal wall.

### ADVANCED SAFETY TROCAR

Cutting/dilating edge design of **emd**<sup>®</sup> safety trocars fully meets the basic need for minimal incision in laparoscopy.

The streamline construction fulfils the user's expectation that dis-assembly and assembly should be as easy as possible.

## Variety of Trocar Sleeves

-  For the manual valve opening model, the trap-door valve is operated by a push button on the side of the trocar body. This feature is preferred when inserting a telescope or an instrument with a sensitive tip profile (eg. hook).
-  The valve inside the silicone-valved trocar sleeve opens automatically when a medical instrument is inserted and closes automatically when the device is removed, thus preventing gas from escaping from the abdominal cavity.

## Durable Components

The raw materials used for EndoLine trocar system are all selected for their long lifespan and high level of re-processing compliance.

By the optimal combination of stainless steel, plastic and silicone materials all components are fully cleanable, disinfectable and autoclavable (up to 121°C and 134°C).

## Silicone Sealings

A basic requirement for laparoscopic surgery is to ensure the best possible seal.

The seals are located inside the EndoLine trocar sleeves, protecting them from possible mechanical damage during insertion of the instruments.

The color identification of the silicone seals used for **emd**<sup>®</sup> trocar sleeves matches the size of the device.



# TROCARS 3.5mm

For Use With Instruments 3/3.5mm



**ELT-071S**  
**TROCAR SLEEVE**  
with automatic silicone valve,  
with CO2 luer-lock connector\*  
Working length 60mm



**ELT-071F**  
**TROCAR SLEEVE**  
with automatic silicone valve  
with fixation thread,  
with CO2 luer- lock connector\*,  
Working length 60mm



**ELT-0P1**  
**TROCAR**  
with pyramidal tip



**ELT-0C1**  
**TROCAR**  
with conical tip



**ELT-0B1**  
**TROCAR**  
with blunt tip



**ELT-0V**  
**VALVE**  
white, silicone\*\*  
Use with trocar sleeves:  
**ELT-071S**  
**ELT-071F**



**ELT-0D**  
**SEALING DISC**  
white, silicone\*\*  
Use with trocar sleeves:  
**ELT-071S**  
**ELT-071F**



**ELT-0C**  
**SEALING CAP**  
black , silicone\*\*  
Use with: **CO2 luer-lock connector**

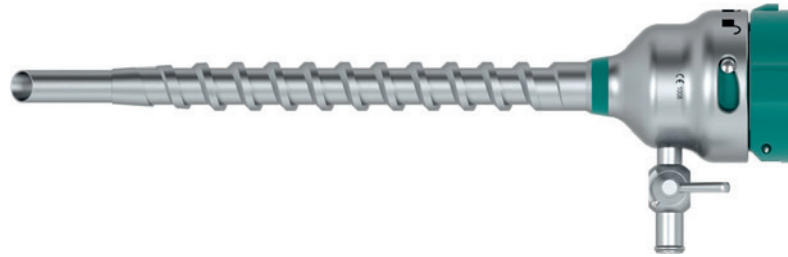
\* Trocar sleeves are available without CO2 luer-lock connector as well. In case of ordering, please indicate „W“, e.g. ELT-071SW  
\*\* All silicone parts are autoclaveable (121°C).

# TROCARS 5.5mm

For Use With Instruments 5/5.5mm

**ELT-171S**

**TROCAR SLEEVE**  
| with automatic silicone valve,  
| with stopcock\*,  
| Working length 100mm

**ELT-171F**

**TROCAR SLEEVE**  
| with automatic silicone valve  
| with fixation thread,  
| with stopcock\*  
| Working length 100mm

**ELT-191S**

**TROCAR SLEEVE**  
| with automatic/manual trap-door  
| valve operation,  
| with stopcock\*  
| Working length 100mm

**ELT-19**

**TROCAR BODY**  
| with automatic/manual trap-door  
| valve operation,  
| with stopcock\*

**ELT-11S**

**GUIDE TUBE**  
| metal,  
| standard,  
| Working length\*\* 100mm

**ELT-11F**

**GUIDE TUBE**  
| metal,  
| with fixation thread  
| Working length\*\* 100mm

**ELT-1P1**

**TROCAR**  
with pyramidal tip

**ELT-1C1**

**TROCAR**  
with conical tip

**ELT-1B1**

**TROCAR**  
with blunt tip

**ELT-1S1**

**TROCAR**  
with safety mechanism

**ELT-10P**

**REDUCING PLUG**

Use with instrument size 3/3.5mm

**ELT-123V**

**VALVE**  
white, silicone\*\*\*

Use with trocar sleeves:

**ELT-171S**  
**ELT-171F**

**ELT-0D**

**SEALING DISC**  
white, silicone\*\*\*

Use with: reducing plug:

**ELT-10P**

**ELT-1D**

**SEALING DISC**  
green, silicone\*\*\*

Use with trocar sleeves:

**ELT-171S**  
**ELT-171F**

**ELT-1I**

**INTERNAL SEALING ELEMENT**  
green, silicone\*\*\*

Use with:

Trap-door valve of trocar sleeve: **ELT-191S**  
Trocar body: **ELT-19**

**ELT-1R**

**SEALING RING**  
green, silicone\*\*\*

Use with:

Trap-door valve of trocar sleeve: **ELT-191S**  
Trocar body: **ELT-19**

\* Trocar sleeves are available without stopcock as well. In case of ordering, please indicate „W“, e.g. ELT-171SW

\*\* Guide tubes can be delivered in other lengths as well. Please contact us regarding the manufacturing of custom sizes.

\*\*\* All silicone parts are autoclaveable (121°C).

# TROCARS 8mm

For Use With Instruments 7/8mm



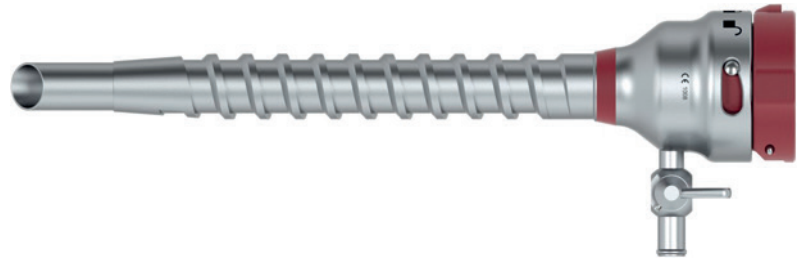
**ELT-2P1**  
**TROCAR**  
with pyramidal tip

**ELT-2C1**  
**TROCAR**  
with conical tip

**ELT-2B1**  
**TROCAR**  
with blunt tip



**ELT-271S**  
**TROCAR SLEEVE**  
with automatic silicone valve,  
with stopcock\*  
Working length 100mm



**ELT-271F**  
**TROCAR SLEEVE**  
with automatic silicone valve  
with fixation thread,  
with stopcock\*  
Working length 100mm



**ELT-291S**  
**TROCAR SLEEVE**  
with automatic/manual trap-door  
valve operation,  
with stopcock\*  
Working length 100mm



**ELT-21T**  
**REDUCING SLEEVE**  
Use with instrument size 5/5.5mm



**ELT-123V**  
**VALVE**  
white, silicone\*\*\*  
Use with trocar sleeves:  
**ELT-271S**  
**ELT-271F**



**ELT-2D**  
**SEALING DISC**  
white, silicone\*\*\*  
Use with trocar sleeves:  
**ELT-271S**  
**ELT-271F**



**ELT-2I**  
**INTERNAL SEALING ELEMENT**  
white, silicone\*\*\*  
Use for trap-door valve of trocar sleeve:  
**ELT-291S**



**ELT-2R**  
**SEALING RING**  
white, silicone\*\*\*  
Use with:  
Trap-door valve of trocar sleeve: **ELT-291S**  
Trocar body: **ELT-29**



**ELT-21A**  
**REDUCING ADAPTER**  
Use with instrument size 5/5.5mm



**ELT-21P**  
**REDUCING PLUG**  
Use with instrument size 5/5.5mm



**ELT-1H**  
**SEALING ELEMENT**  
green, silicone\*\*\*  
Use with reducing adapter: **ELT-21A**



**ELT-1D**  
**SEALING DISC**  
green, silicone\*\*\*  
Use with:  
Reducing plug: **ELT-21P**  
Reducing sleeve: **ELT-21T**

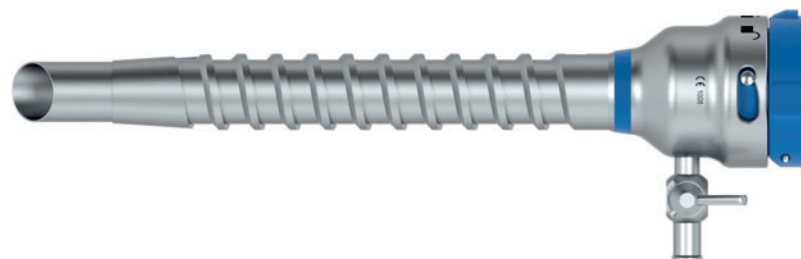
\* Trocar sleeves are available without stopcock as well. In case of ordering, please indicate „W“, e.g. ELT-171SW  
\*\* Guide tubes can be delivered in other lengths as well. Please contact us regarding the manufacturing of custom sizes.  
\*\*\* All silicone parts are autoclaveable (121°C).

# TROCARS 11mm

For Use With Instruments 10/11mm



**ELT-371S**  
**TROCAR SLEEVE**  
with automatic silicone valve,  
with stopcock\*,  
Working length 100mm



**ELT-371F**  
**TROCAR SLEEVE**  
with automatic silicone valve,  
with fixation thread,  
with stopcock\*,  
Working length 100mm



**ELT-391S**  
**TROCAR SLEEVE**  
with automatic/manual trap-door  
valve operation,  
with stopcock\*,  
Working length 100mm



**ELT-39**  
**TROCAR BODY**  
with automatic/manual trap- door  
valve operation,  
with stopcock\*



**ELT-31S**  
**GUIDE TUBE**  
metal,  
standard,  
Working length\*\*: 100mm



**ELT-31F**  
**GUIDE TUBE**  
metal,  
with fixation thread,  
Working length\*\*: 100mm

\* Trocar sleeves are available without stopcock as well. In case of ordering, please indicate „W“, e.g. ELT-171SW  
\*\* Guide tubes can be delivered in other lengths as well. Please contact us regarding the manufacturing of custom sizes.  
\*\*\* All silicone parts are autoclaveable (121°C).



**ELT-3P1**  
**TROCAR**  
with pyramidal tip



**ELT-3C1**  
**TROCAR**  
with conical tip



**ELT-3B1**  
**TROCAR**  
with blunt tip



**ELT-3S1**  
**TROCAR**  
with safety mechanism



**ELT-21P**  
**REDUCING PLUG**  
Use with instrument size 5/5.5mm



**ELT-123V**  
**VALVE**  
white, silicone\*\*\*  
Use with trocar sleeves:  
**ELT-171S**  
**ELT-171F**



**ELT-3R**  
**SEALING RING**  
blue, silicone\*\*\*  
Use with:  
Trap-door valve of trocar sleeve: **ELT-391S**  
Trocar body: **ELT-39**



**ELT-3D**  
**SEALING DISC**  
blue, silicone\*\*\*  
Use with trocar sleeves:  
**ELT-371S**  
**ELT-371F**



**ELT-3I**  
**INTERNAL SEALING ELEMENT**  
blue, silicone\*\*\*  
Use for:  
Trap-door valve of trocar sleeve: **ELT-391S**  
Trocar body: **ELT-39**



**ELT-31A**  
**REDUCING ADAPTER**  
Use with instrument size 5/5.5mm



**ELT-31T**  
**REDUCING SLEEVE**  
Use with instrument size 5/5.5mm



**ELT-1H**  
**SEALING ELEMENT**  
green, silicone\*\*\*  
Use with reducing adapter: **ELT-31A**



**ELT-1D**  
**SEALING DISC**  
green, silicone\*\*\*  
Use with:  
Reducing plug: **ELT-31P**  
Reducing sleeve: **ELT-31T**

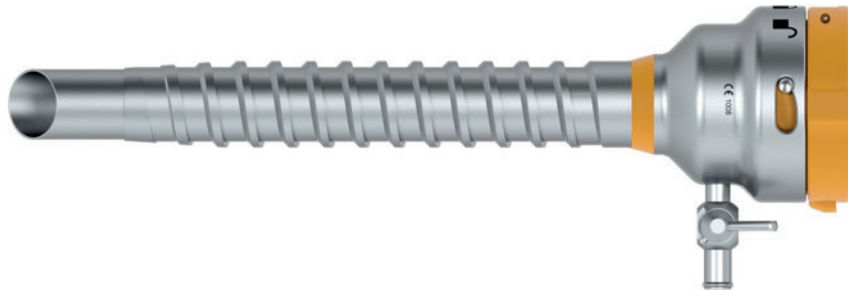


# TROCARS 13mm

For Use With Instruments 12/13mm



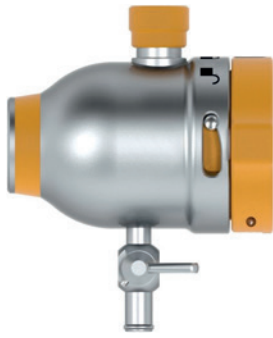
**ELT-471S**  
**TROCAR SLEEVE**  
with automatic silicone valve,  
with stopcock\*  
Working length 100mm



**ELT-471F**  
**TROCAR SLEEVE**  
with automatic silicone valve  
with fixation thread,  
with stopcock\*,  
Working length 100mm



**ELT-491S**  
**TROCAR SLEEVE**  
with automatic/manual trap-door  
valve operation,  
with stopcock\*  
Working length 100mm



**ELT-49**  
**TROCAR BODY**  
with automatic/manual trap-door  
valve operation,  
with stopcock\*



**ELT-41S**  
**GUIDE TUBE**  
metal,  
standard,  
Working length\*\* 100mm



**ELT-41F**  
**GUIDE TUBE**  
metal,  
with fixation thread,  
Working length\*\* 100mm

\* Trocar sleeves are available without stopcock as well. In case of ordering, please indicate „W“, e.g. ELT-171SW  
\*\* Guide tubes can be delivered in other lengths as well. Please contact us regarding the manufacturing of custom sizes.  
\*\*\* All silicone parts are autoclaveable (121°C).



**ELT-4P1**  
**TROCAR**  
with pyramidal tip



**ELT-4C1**  
**TROCAR**  
with conical tip



**ELT-4B1**  
**TROCAR**  
with blunt tip



**ELT-41T**  
**REDUCING SLEEVE**  
Use with instrument size 5/5.5mm



**ELT-43T**  
**REDUCING SLEEVE**  
Use with instrument size 10/11mm



**ELT-4V**  
**VALVE**  
white, silicone\*\*\*  
Use with trocar sleeves:  
**ELT-171S**  
**ELT-171F**



**ELT-4D**  
**SEALING DISC**  
yellow, silicone\*\*\*  
Use with trocar sleeves:  
**ELT-471S**  
**ELT-471F**



**ELT-4I**  
**INTERNAL SEALING ELEMENT**  
yellow, silicone\*\*\*  
Use for:  
Trap-door valve of trocar sleeve: **ELT-491S**  
Trocar body: **ELT-49**



**ELT-4R**  
**SEALING RING**  
yellow, silicone\*\*\*  
Use with:  
Trap-door valve of trocar sleeve: **ELT-491S**  
Trocar body: **ELT-49**



**ELT-1H**  
**SEALING ELEMENT**  
green, silicone\*\*\*  
Use with:  
Reducing adapter: **ELT-41A**



**ELT-3H**  
**SEALING ELEMENT**  
blue, silicone\*\*\*  
Use with:  
Reducing adapter: **ELT-43A**



**ELT-1D**  
**SEALING DISC**  
green, silicone\*\*\*  
Use with:  
Reducing plug: **ELT-41P**  
Reducing sleeve: **ELT-41T**



**ELT-3D**  
**SEALING DISC**  
blue, silicone\*\*\*  
Use with trocar sleeves:  
**ELT-43P**  
**ELT-43T**



**ELT-41A**  
**REDUCING ADAPTER**  
Use with instrument  
size 5/5.5mm



**ELT-43A**  
**REDUCING ADAPTER**  
Use with instrument  
size 10/11mm



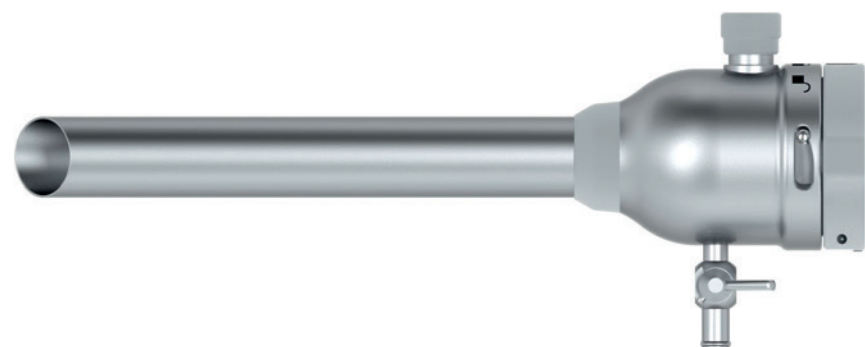
**ELT-41P**  
**REDUCING PLUG**  
Use with instrument  
size 5/5.5mm



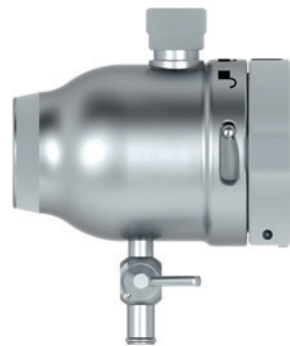
**ELT-43P**  
**REDUCING PLUG**  
Use with instrument  
size 10/11mm

# TROCARS 15mm

For Use With Instruments 14/15mm



**ELT-591S**  
**TROCAR SLEEVE**  
with automatic/manual trap-door  
valve operation,  
with stop- cock\*  
Working length 100mm



**ELT-59**  
**TROCAR BODY**  
with automatic/manual trap-doo  
valve operation,  
with stop- cock\*



**ELT-51S**  
**GUIDE TUBE**  
metal,  
standard,  
Working length\*\* 100mm



**ELT-51F**  
**GUIDE TUBE**  
metal,  
with fixation thread,  
Working length\*\* 100mm

\* Trocar sleeves are available without stopcock as well. In case of ordering, please indicate „W“, e.g. ELT-171SW  
\*\* Guide tubes can be delivered in other lengths as well. Please contact us regarding the manufacturing of custom sizes.  
\*\*\* All silicone parts are autoclaveable (121°C).



**ELT-5P1**  
**TROCAR**  
with pyramidal tip



**ELT-5C1**  
**TROCAR**  
with conical tip



**ELT-5B1**  
**TROCAR**  
with blunt tip



**ELT-53T**  
**REDUCING SLEEVE**  
Use with instrument size 10/11mm



**ELT-51T**  
**REDUCING SLEEVE**  
Use with instrument size 5/5.5mm



**ELT-5I**  
**INTERNAL SEALING ELEMENT**  
gray, silicone\*\*\*  
Use for:  
Trap-door valve of trocar sleeve: **ELT-591S**  
Trocar body: **ELT-59**



**ELT-5R**  
**SEALING RING**  
gray, silicone\*\*\*  
Use with:  
Trap-door valve of trocar sleeve: **ELT-591S**  
Trocar body: **ELT-59**



**ELT-1H**  
**SEALING ELEMENT**  
green, silicone\*\*\*  
Use with:  
Reducing adapter: **ELT-51A**



**ELT-3H**  
**SEALING ELEMENT**  
blue, silicone\*\*\*  
Use with:  
Reducing adapter: **ELT-53A**



**ELT-1D**  
**SEALING DISC**  
green, silicone\*\*\*  
Use with:  
Reducing plug: **ELT-51P**  
Reducing sleeve: **ETL-51T**



**ELT-3D**  
**SEALING DISC**  
blue, silicone\*\*\*  
Use with:  
Reducing plug: **ELT-53P**  
Reducing sleeve: **ETL-53T**



**ELT-51A**  
**REDUCING ADAPTER**  
Use with instrument  
size 5/5.5mm



**ELT-53A**  
**REDUCING ADAPTER**  
Use with instrument  
size 10/11mm



**ELT-51P**  
**REDUCING PLUG**  
Use with instrument  
size 5/5.5mm



**ELT-53P**  
**REDUCING PLUG**  
Use with instrument  
size 10/11mm



## ELT-36

## DILATION SET

Use for:  
gall bladder extraction **11/20mm**  
Set consists of:  
atraumatic guide probe 11mm,  
dilation sleeve 11/20mm,  
outer sleeve 20mm,  
reducing element 20/11mm



## ELT-3C

## SEALING CAP

Use for dilation set **ELT-36**



ELT-3HCL

## CONICAL ADAPTER

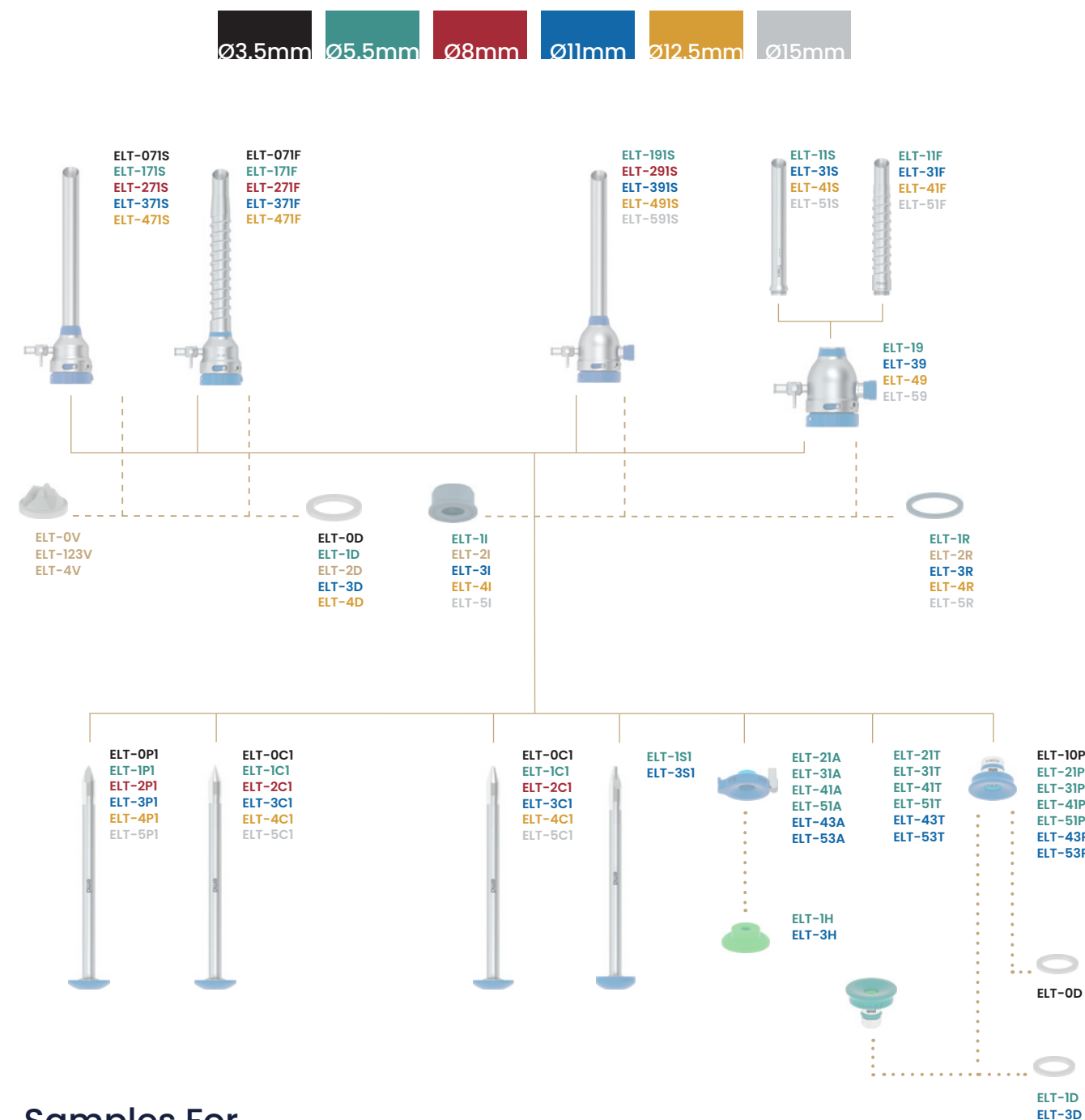
Hasson-technique, long  
Use with trocar sleeve size **11mm**



## ELT-4C

## SEALING CAP

Use with conical adapters **ELT-3HCL**



## Samples For Special Working Length

|                                       |                |         |              |         |               |         |               |         |
|---------------------------------------|----------------|---------|--------------|---------|---------------|---------|---------------|---------|
| GUIDE TUBE 5.5MM                      | STANDARD 100mm | ELT-11S | SPECIAL 80mm | ELT-12S | SPECIAL 120mm | ELT-13S | SPECIAL 150mm | ELT-14S |
| GUIDE TUBE WITH FIXATION THREAD 5.5MM |                | ELT-11F |              | ELT-12F |               | ELT-13F |               | ELT-14F |
| TROCAR WITH PYRAMIDAL TIP 5.5MM       |                | ELT-1P1 |              | ELT-1P2 |               | ELT-1P3 |               | ELT-1P4 |
| GUIDE TUBE 11MM                       |                | ELT-31S |              | ELT-32S |               | ELT-33S |               | ELT-34S |
| GUIDE TUBE WITH FIXATION THREAD 11MM  |                | ELT-31F |              | ELT-32F |               | ELT-33F |               | ELT-34F |
| TROCAR WITH PYRAMIDAL TIP 11MM        |                | ELT-3P1 |              | ELT-3P2 |               | ELT-3P3 |               | ELT-3P4 |
| GUIDE TUBE 13MM                       |                | ELT-41S |              | ELT-42S |               | ELT-43S |               | ELT-44S |
| GUIDE TUBE WITH FIXATION THREAD 13MM  |                | ELT-41F |              | ELT-42F |               | ELT-43F |               | ELT-44F |
| TROCAR WITH PYRAMIDAL TIP 13MM        |                | ELT-4P1 |              | ELT-4P2 |               | ELT-4P3 |               | ELT-4P4 |

**TROCARS 15mm**  
For Use With Instruments 14/15mm

# OVERVIEW



WE KNOW THAT

## Success Of An Operation

RELIES ON THE TEAM BEHIND.

THE LIFE EXPECTANCY OF A HIGH QUALITY MEDICAL DEVICE DEPENDS ON BOTH THE ACCURACY OF MANUFACTURING AND THE CARE TAKEN IN ITS OPERATION AND REPROCESSING.

AS MANUFACTURERS, WE STRIVE TO OFFER SOLUTIONS FOR MEDICAL STAFF TO ENSURE EASE OF USE, STORAGE AND STERILISATION.

# ACCESSORIES



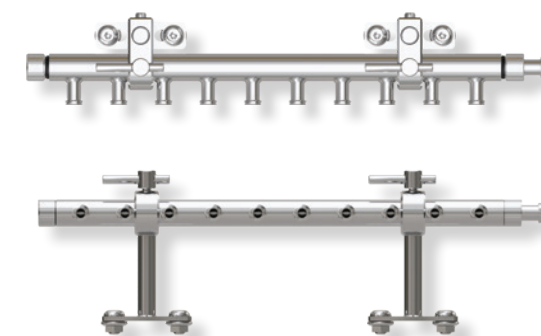
## The Importance Of Product Care

PROPER PRE-CLEANING IS ESSENTIAL TO PROVIDE EFFECTIVE STERILIZATION. THANKS TO OUR WASH-RINSE DEVICE ALL THE THREE COMPONENT OF THE ENDOLINE LAPAROSCOPIC INSTRUMENTS ARE FULLY FLUSHABLE.

THE SYSTEM ELEMENTS CAN BE EASILY POSITIONED AND THIS DEVICE ENSURES THAT THE INSIDE OF EACH PART IS PERFECTLY FREE OF CONTAMINATION.

### THE LIFE CYCLE OF MEDICAL DEVICES CONTINUES BEYOND THE O.R.

The life expectancy of EMD laparoscopic devices can be extended by careful maintenance. We strongly recommend to follow our product specific instructions of use.



#### ELT-RST

**WASH-RINSE DEVICE**  
*To be attached to instrument tray*



#### ELI-RAS

**RINSE ADAPTER**  
*Use for sheaths*



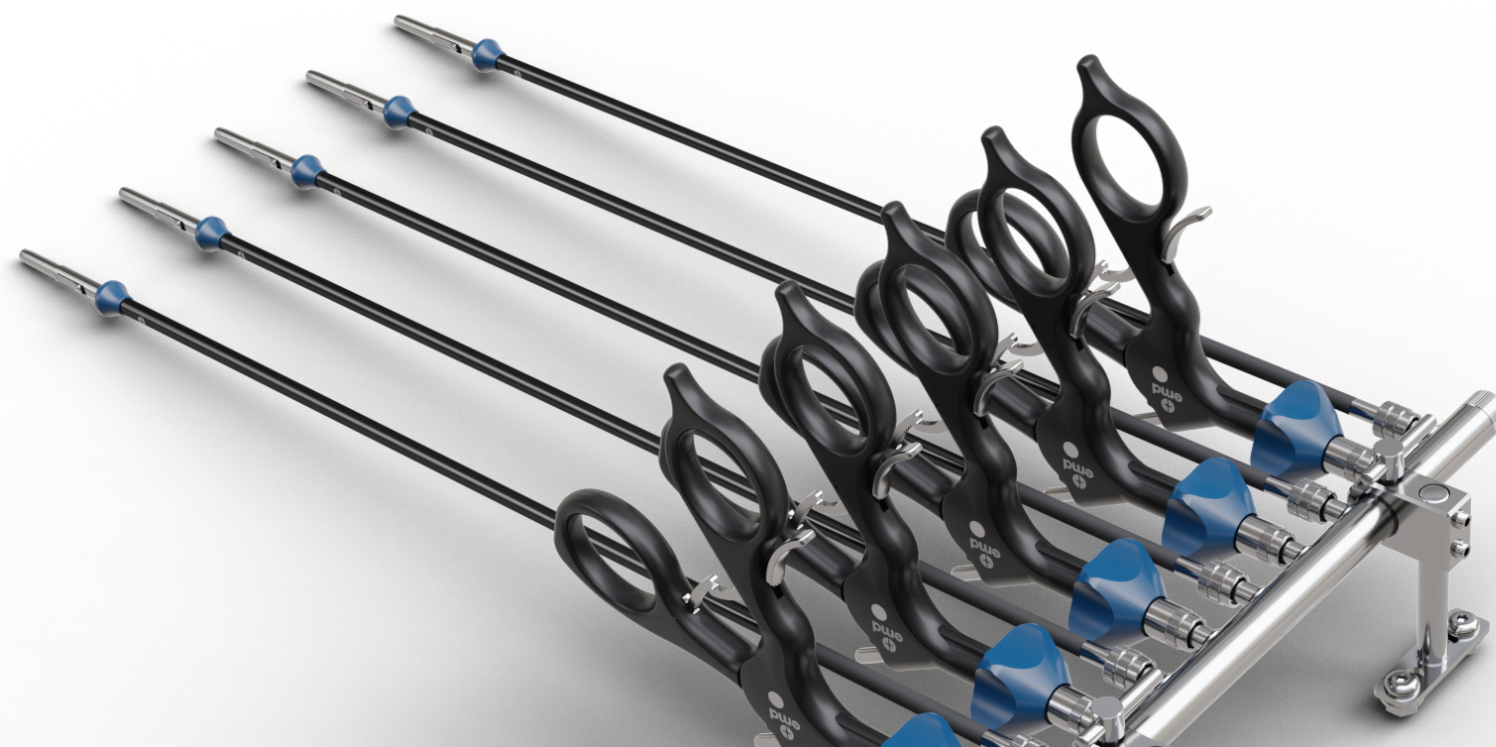
#### ELI-RAH

**RINSE ADAPTER**  
*Use for handles*



#### ELI-RAC

**CLOSING CAP**  
*Use for wash-rinse device*



## Notes

## Notes





[emd.hu](http://emd.hu)

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