

Embracing
the
Future



ENDLINE
PRODUCT CATALOGUE
2022

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FOR FV

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.

WORD

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







ABOLU

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.

ITUS

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 and 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.



HAND INST

WE BELIEVE THAT

Uncompromising Quality

IS A MATTER OF HIGH EXPECTATIONS.

GUARANTEEING THE RELIABILITY OF AN **emd**[®] 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.

TRUMENTS

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.

ENDOLINE Hand Instruments

ONE-CLICK ASSEMBLY

Once the insulated 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:

- 0 OFF: handle mode without ratchet
- 1 AUTOMATIC: operation of the ratchet gives possibility to fix the tissue securely
- 2 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.

COMPONENTS



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-S22

SHEATH Ø5mm
insulated, rotatable
Working length 230mm

ELI-S25

SHEATH Ø5mm
insulated, rotatable
Working length 330mm

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, STANDARD WORKING LENGTHS
- ⊕ PLASTIC HANDLES ARE AVAILABLE WITHOUT RATCHET OR EQUIPPED WITH METAL RATCHET WHICH CAN BE INACTIVATED
- ⊕ EASY DETACHING BY A SINGLE PUSH-BUTTON
- ⊕ LEAK-PROOF SEALED

**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“ shaped jaws, 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 29mm
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 29mm,
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 alligator with toothed jaws,
length of head 17mm
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 16mm,
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 alligator with toothed jaws,
length of head 17mm
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 32mm
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 35mm
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 42mm
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 30mm
Working length 330mm, Complete

Components*: insert ELI-3435, sheath ELI-S35, handle ELI-H1

**ELI-3625H1**

SPOON FORCEPS single action jaws
length of head 24mm,
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 32mm
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 35mm
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 42mm
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 30mm
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 24mm,
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

ELI - 2 02 5 H1



Complete Instrument

INSERT + SHEATH + HANDLE

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

ELI - 3 32 5 H3



Complete Instrument

INSERT + SHEATH + HANDLE with ratchet

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



TROCC

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.

CARS

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**® **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**® safety trocars fully meets the basic need for minimal incision in laparoscopy.

The streamline construction fulfils the user's expectation that disassembly 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, disinfected 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**® trocar sleeves match 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

* 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 autoclavable (121°C/134°C).

**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

TROCARS 5.5mm

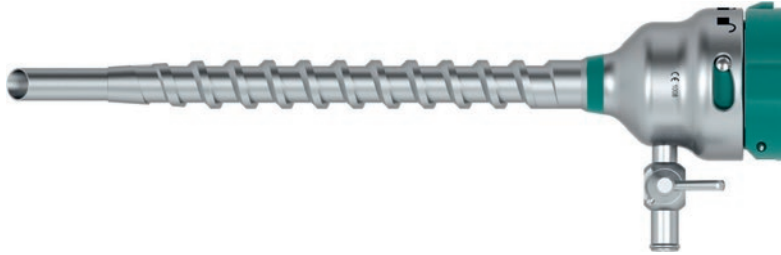
For Use With Instruments 5/5.5mm



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 trocar 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 autoclavable (121°C/134°C).

TROCARS 8mm

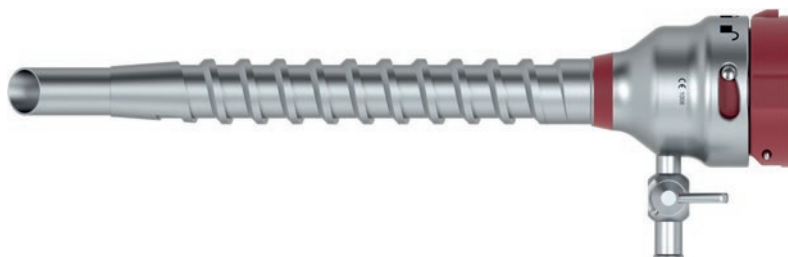
For Use With Instruments 7/8mm



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-2PI

TROCAR

with pyramidal tip



ELT-2C1

TROCAR

with conical tip



ELT-2B1

TROCAR

with blunt tip

**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 with 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 autoclavable (121°C/134°C).

TROCARS 11mm

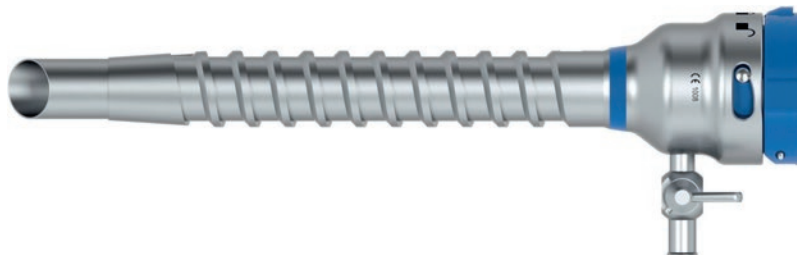
For Use With Instruments 10/11mm



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 autoclavable (121°C/134°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-31T**

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 with
Trap-door valve of trocar sleeve: **ELT-391S**
Trocar body: **ELT-39**

**ELT-31A**

REDUCING ADAPTER
Use with instrument size **5/5.5mm**

**ELT-31P**

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

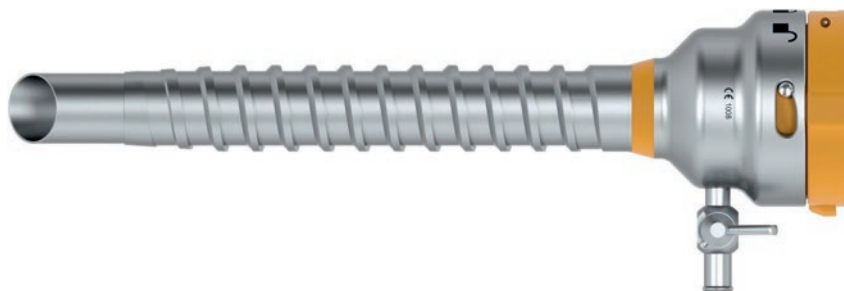
For Use With Instruments 12/13mm



ELT-471S

TROCAR SLEEVE

with automatic silicone valve,
with stopcock*
Working length 100mm



ELT-471F

TROCAR SLEEVE

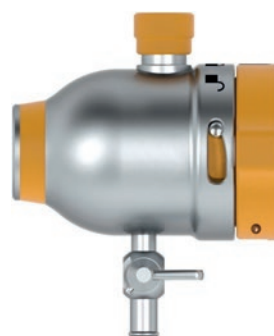
with automatic silicone valve
with fixation thread,
with stopcock*,
Working length 100mm



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

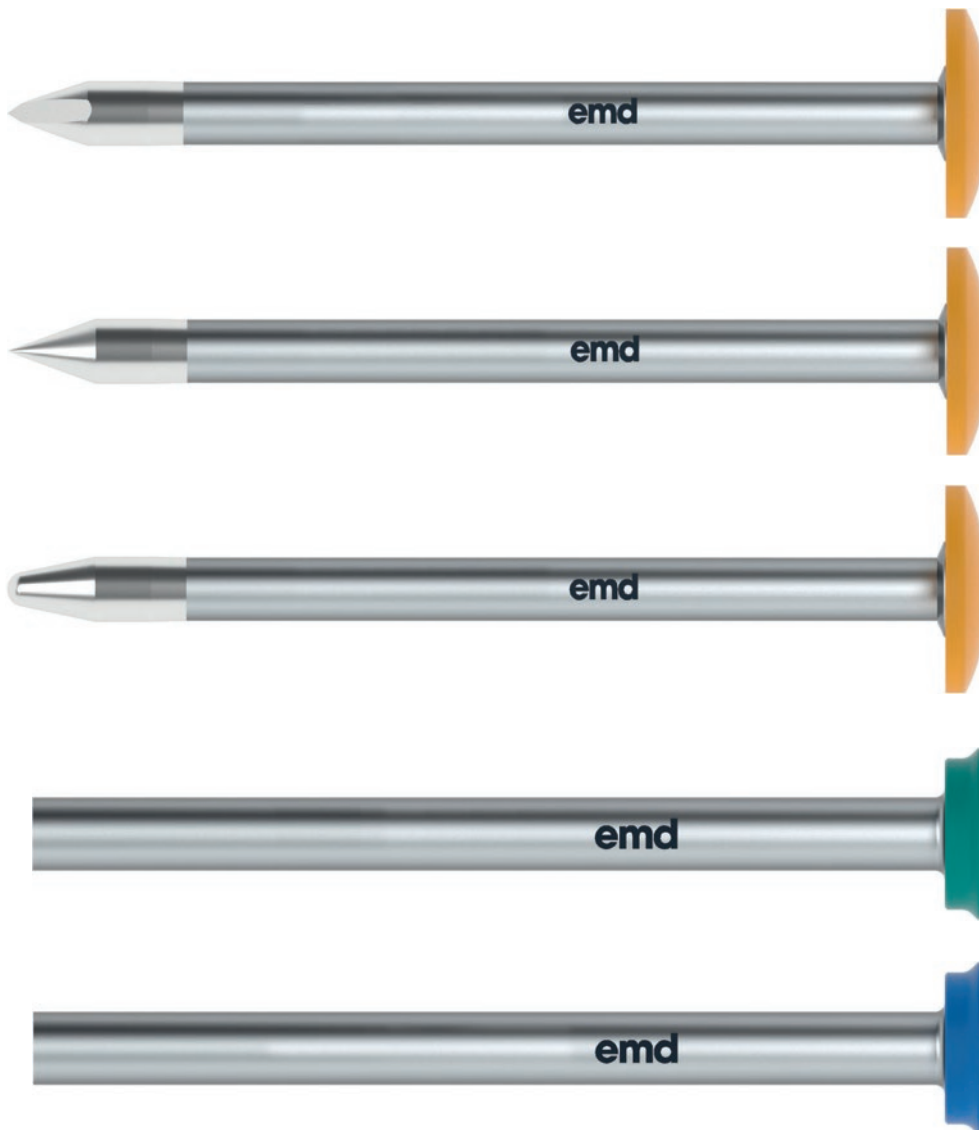
GUIDE TUBE

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 autoclavable (121°C/134°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

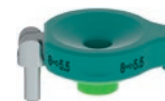
REDUCING SLEEVE
Use with instrument size **10/11mm**

**ELT-4V**

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

**ELT-1H**

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

**ELT-41A**

REDUCING ADAPTER
Use with instrument
size **5/5.5mm**

**ELT-4D**

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

**ELT-3H**

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

**ELT-43A**

REDUCING ADAPTER
Use with instrument
size **10/11mm**

**ELT-4I**

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

**ELT-1D**

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

**ELT-41P**

REDUCING PLUG
Use with instrument
size **5/5.5mm**

**ELT-4R**

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

**ELT-3D**

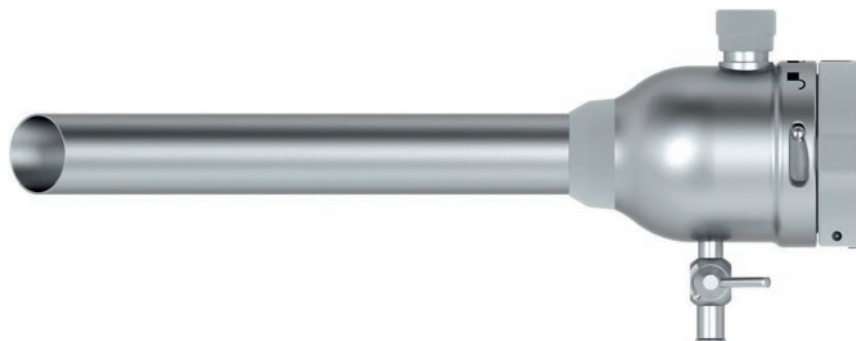
SEALING DISC
blue, silicone***
Use with trocar sleeves:
ELT-43P
ELT-43T

**ELT-43P**

REDUCING PLUG
Use with instrument
size **10/11mm**

TROCARS 15mm

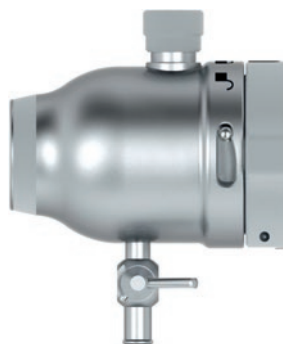
For Use With Instruments 14/15mm



ELT-59IS

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 autoclavable (121°C/134°C).


ELT-5PI

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 with
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: **ELT-51T**


ELT-3D

SEALING DISC
blue, silicone***
Use with
Reducing plug: **ELT-53P**
Reducing sleeve: **ELT-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 with 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**



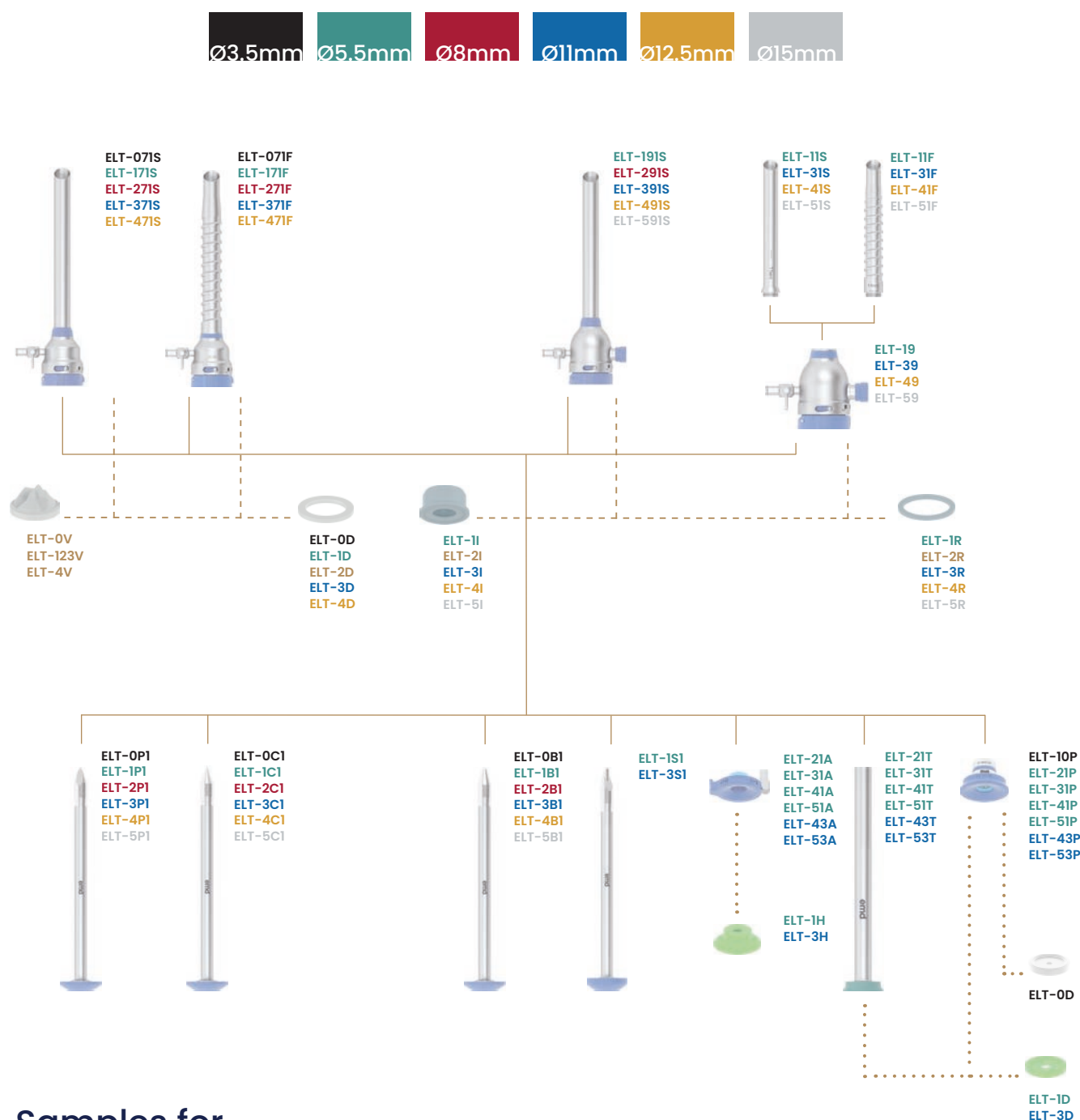
VERESS-NEEDLE

Ø2.5mm, reusable

COMPLEMENTARY
PRODUCTS

**working
length**

80mm	ELV-80R
90mm	ELV-90R
100mm	ELV-100R
110mm	ELV-110R
120mm	ELV-120R
130mm	ELV-130R
140mm	ELV-140R
150mm	ELV-150R
160mm	ELV-160R
170mm	ELV-170R
180mm	ELV-180R



Samples for Special Working Length

GUIDE TUBE 5.5MM

GUIDE TUBE WITH FIXATION THREAD 5.5MM

TROCAR WITH PYRAMIDAL TIP 5.5MM

GUIDE TUBE 11MM

GUIDE TUBE WITH FIXATION THREAD 11MM

TROCAR WITH PYRAMIDAL TIP 11MM

GUIDE TUBE 13MM

GUIDE TUBE WITH FIXATION THREAD 13MM

TROCAR WITH PYRAMIDAL TIP 13MM

STANDARD 100mm

ELT-11S
ELT-11F
ELT-1P1
ELT-31S
ELT-31F
ELT-3P1
ELT-41S
ELT-41F
ELT-4P1

SPECIAL 80mm

ELT-12S
ELT-12F
ELT-1P2
ELT-32S
ELT-32F
ELT-3P2
ELT-42S
ELT-42F
ELT-4P2

SPECIAL 120mm

ELT-13S
ELT-13F
ELT-1P3
ELT-33S
ELT-33F
ELT-3P3
ELT-43S
ELT-43F
ELT-4P3

SPECIAL 150mm

ELT-14S
ELT-14F
ELT-1P4
ELT-34S
ELT-34F
ELT-3P4
ELT-44S
ELT-44F
ELT-4P4

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

** Guide tubes, trocars and reducing sleeves can be delivered in other lengths as well. Please contact us regarding the manufacturing of custom sizes.



ACCES

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.

SORTIES

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.

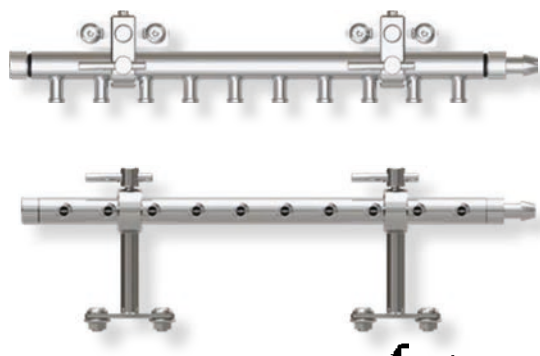
THE SYSTEM ELEMENTS CAN BE EASILY POSITIONED AND THIS DEVICE ENSURES THAT THE INSIDE OF EACH PART IS PERFECTLY FREE OF CONTAMINATION.

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

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

ACCESSORIES





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

Notes



emd.hu

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