

## The Luebeck EUS Trainer – LET

The Luebeck EUS Trainer **LET** is a closed ex vivo bio-model for realistic training in invasive and interventional endoscopic ultrasound procedures (EUS) in the upper (oesophagus and stomach) and lower (rectum) gastro-intestinal tract. The **LET** can be used in gastroenterological, surgical and urological training with longitudinal EUS probes, or rigid, rectal ultrasound probes.

- EUS-FNA of artificial objects
- EUS-guided cyst drainage
- EUS-guided bile duct interventions
- EUS-guided entero-enteral anastomosis
- Urological interventions



The **LET** is approved for veterinary EUS equipment only.



Dimensions (width × depth × height): 56 cm × 45 cm × 24 cm  
Weight: 25 kg

### Concept and design

#### Dr. E. Burmester

Department of Medicine I – Endoscopy, Sana Kliniken Lübeck GmbH  
Kronsfordter Allee 71–73, 23560 Lübeck, Germany

Phone +49 451 / 585 - 14 05  
Fax +49 451 / 585 - 14 07  
Mobile +49 160 / 17 393 17  
Email [info@luebeck-eus-trainer.com](mailto:info@luebeck-eus-trainer.com)  
Website [www.sana-luebeck.de](http://www.sana-luebeck.de)



Sana Kliniken  
Lübeck

### Development and shipping of organs and accessory parts

#### Forschungszentrum Ultraschall gGmbH

Köthener Str. 33a, 06118 Halle (Saale), Germany

Phone +49 345 / 44 58 39 - 10  
Fax +49 345 / 44 58 39 - 19  
Email [kontakt@fz-u.de](mailto:kontakt@fz-u.de)  
Website [www.fz-u.de](http://www.fz-u.de)



Forschungszentrum  
Ultraschall

### Sales

#### MC & C GmbH

Richard Panczocha  
Alter Postweg 38 a, 24558 Henstedt-Ulzburg, Germany

Mobile (+49) 172 315 36 56  
Email [rp@mccgmbh.de](mailto:rp@mccgmbh.de)  
Website [www.luebeck-eus-trainer.com](http://www.luebeck-eus-trainer.com)



## Features at a glance



- Realistic endosonographic interventions on porcine organs
- Good sonographic visibility of the artificial biopsy objects
- Stable positioning of organs and biopsy objects by integration in a matrix
- Reduction of air artefacts by embedding the organs and biopsy objects in water and an optimised matrix
- Externally refillable cysts
- Integrated neutral electrode for use in electrosurgery
- Suitable for radioscopy (X-ray and CT)
- Can also be used with CT image fusion systems (prostate/rectum) as required
- Odourless integration of organs into a closed system
- Easily fillable case with separately delivered organs and consumables
- Assembly time of approximately 30 minutes
- Suitable for training at various levels of difficulty
- Ideal for team training

## LET case and connections



- |   |   |
|---|---|
| 1 Case lid                                  | 7 Pressure equalisation valve   |
| 2 Case base                                 | 8 Fill level indicator  |
| 3 Carrying handle                           | 9 Connection valves for filling the urinary bladder and "pseudocysts" |
| 4 Snap-close locks                          | 10 Connection valve for water inlet/outlet                            |
| 5 Rotary valve (without function)           | 11 Inlet tube for the rectal-sided endoscope                          |
| 6 Connection jack for HF surgical equipment | 12 Inlet tube for the stomach-sided endoscope                         |

## The LET in practice

