Bovine

Equipment for endoscopic diagnosis and minimal invasive treatment of teat disorders

Teat Endoscopy / Theloscopy in Dairy Cattle
Teat Endoscopy / Theloscopy

Treatment of teat disorders using minimal invasive techniques with teat endoscopy

The use of a lateral portal techniques in teat endoscopy by Maximilian Medi and Klaus Querengässer in 1994 has created a renaissance in research into teat disorders and treatment. Following their findings specific endoscopic equipment was developed to improve diagnosis and treatment.

A further new generation of instruments completes the set: first a teat clamp to enable endoscopy, secondly a new teat knife with disposable blades and thirdly our stenosis cutter acc. to Eisenhut.

We supply a suitable transport case to protect the scope and the instruments with additional parts. With our new Keratelin® products we offer excellent and professionel after care service.

Teat set standard

with battery handle, air pump, new instruments, complete in transportation case

consisting of:

- **T141-3000** Wide angle telescope, 0°, OD: 3mm, WL: 14cm
- **S140-3001** Sheath, OD: 4mm, WL: 12cm
- **LED-8-32** Light handle, mignon battery AA, 1,5 VDC
- **ZB-5-3** Inflation pump, battery operated,
- **Z-40-05** Special teat probe
- **Z-44-85** Special teat clamp, with ratchet, size 12cm
- **Z-55** Teat knife acc.to Dr.Ebner,
- **Z-47-300** Stenosis cutter set, 3,0 & 3,4mm
- **DE-5-17** Cleaning brush, small, 17cm
- **DE2014-41** Sterilizing & storing case, 200x140x40mm
- **A79-IP6-SET** DIN Okular Lense with cover adaptor
- **K-4530-10** Special transportation case, for teat endoscopy

Please ask us or your customer service for a special quotation for your practice.

Smartphone Lens for more mobility

Additional equipment for the examination with rigid standard endoscopes

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Conventional Technique:

Examination via teat canal

An examination of the teat sinus is possible but you can not see the Fürstenberg's Rosette, where 95% of the internal lesions occur. Parallel treatment through the teat canal is difficult.

Medi-Technique:

Examination and treatment via lateral teat wall

Only lateral perforation of the teat wall enables easy examination of the whole teat lumen and especially of the Fürstenberg's Rosette. Via teat canal treatment is possible under endoscopic control.

Dr. Fritz GmbH · www.dr-fritz.com · dr.fritz@dr-fritz.de
D-78532 Tuttingen/Germany · Tel. +49(0)700/61 61 61 01
The new standard

Teat knife acc. to EBNER

- handle with disposable blade
- blades easy to change and safe
- for each large animal practice

Z-55  Teat knife acc. to Dr. Ebner, pat. locking system, handle and 1 blade (disposable)
Z-55-2 Teat knife acc. to Dr. Ebner, pat. locking system, const. of: handle (Z-55) and 10 spare blades (Z-55-1)
Z-55-1 Scalpel blades f. teat knife, 10pcs/b individually packed, sterile, comp. to handle type Z-55

The second generation

Stenosis cutter acc. to EISENHUT

- high quality tissue punch
- easy to clean

Z-47-030 Stenosis cutter acc. to EISENHUT, small
OD: 3mm, WL: 4,5cm,
color code: metal
Z-47-033 Stenosis cutter acc. to EISENHUT, large
OD: 3,3mm, WL: 4,5cm,
color code: gold

*the second generation*

Teat Endoscopy / Theloscopy
Standard Instruments

Z-40-05  Special teat probe for teat canal measurement and palpation
DE-5-17  Cleaning brush small, 17cm, for tubes ID:2 - 4mm, autoclavable, 1 pc.
DE-10-300  Disinfection and cleaning solution IP
for flexible and rigid endoscopes, 5 litres concentrate for 1-3% dilutions for manual and automated use (without picture)
**Teat Endoscopy / Theloscopy**

*Keratelin*® Teat products for teat care

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**Suture-Bandage Plug**
the natural solution

Z-99025-TH KERATELIN “Thelasel”
teat dilator, OD: 3 mm, box 24 pcs., sterile*

***the revolution in teat dairy care***

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**KERATELIN "P2-Cath"**
Permanent Catheter

Z-99027 KERATELIN "P2-Cath" acc. to Schlederer, 8 pcs., OD: 2,8mm, LL(w), individually packed, sterile*

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**KERATELIN Milk Canula**
professional teat care

Z-99055 KERATELIN Milk Canula, disposable, 100 pcs. individually packed, sterile*

- Attention: sterile product - return shipment not accepted

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**Z-99025-TH KERATELIN “Thelasel”**

Latest generation of natural teat canal plugs - first choice in any fresh cases of distal teat injuries – plug and tape it –

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**Z-99027 KERATELIN "P2-Cath" acc. to Schlederer**

- for open / perforated teat injuries

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**Z-99055 KERATELIN Milk Canula**

- for covered / non perforated teat injuries

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**Attention:**

- for easy day milk relase
- easy and gentle to insert
- fast milk flons

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Extra large inner diameter, available every time.
Bovine, Large Animals

Equipment for laparoscopic repositioning and fixation of abdomasal displacement (acc. to Dr. Janowitz), accessories for standing upright position (acc. to Dr. Christiansen)
Laparoscopy
Set for laparoscopic repositioning and fixation of abomasal displacement in cattle acc. to Dr. Janowitz

Sets with LED light handle

This set allows the veterinary surgeon to use a quick, and extremely safe technique with no medication requirements as well as quick recovery of the patient. The basic element in the set is a specially developed robust scope with a length designed specifically for this purpose. Instruments are specifically designed for use in large animal field situations and stored in a practical transport case to guarantee a long life.

In research programs it emerged that the traditional toggle system often offered inadequate strength and resulted in either rupture of the suture material or breakage of the plastic toggle material. This has lead to the development of a new safety toggle with a 90 cm long break safe double suture.

**Basic Set**

- removable, washable inlay

**Max. Set (+ Spieker acc. to Christiansen)**

**2-step technique (Janowitz technique)**

SET-LAB-231 Set for endoscopic LDA/RDA repositioning
- basic set complete including transportation case, consisting of:
  - special cattle telescope, 8mm, 0°
  - trocars and trocar cannulas, 8 & 5mm
  - palpation probe and puncture needle
  - abomasal puncture trocar set
  - suture grasping forceps, long
  - suture grasping hook acc.to Meyer
  - safety toggle pins
  - sterilizing and storage tray
  - inflation pump
  - cleaning brushes
  - LED light handle, accu

**2-step + 1-step technique (Janowitz + Christiansen technique)**

SET-LAB-232 as Set-LAB-231, but with Spieker acc. to Christiansen, including:
- trocar 13 mm
- Christiansen’s spieker
- DIN ocular lense for i-phones
Laparoscopy

Set for laparoscopic repositioning and fixation of abomasal displacement in cattle acc. to Dr. Janowitz

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**Eco Set**

Adventure Set
without telescope

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**1-step technique** (only standing upright position)

**1-step technique** (only standing upright position)

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**SET-LAB-233**

Set „Eco“ for endoscop. LDA repositioning set including transportation case and speiker system, consisting of:

- cattle telescope, eco, 8mm, 0°
- trocar and trocar cannula, 8 mm
- toggle placing trocar cannula, blunt
- LED light handle, battery
- safety toggle pins
- trocar & cannula, 13mm, large
- speker acc to Christiansen

**SET-LAB-234**

Set „Adventure“ for endoscopic LDA repositionig basic instruments, consisting of:

- trokar and cannula 13 mm with reducer cap for 10mm endoscopes
- abomasal puncture trocar cannula and blunt obturator
- safety toggle pins (5 pcs.)
**Telescope, Trocars**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T420-8000V</td>
<td><em>Wide angle telescope</em>, OD: 8 mm, 0°, WL: 46 cm, large image and safety version, for large animal practices</td>
</tr>
<tr>
<td>234-200V</td>
<td><em>Cannula only</em>, magnetic valve, ID: 8mm, WL:12cm, stainless steel, stopcock</td>
</tr>
<tr>
<td>234-166V</td>
<td><em>Trocar, only</em>, cork screw handle, special sharp tip, for cannulas ID: 8mm, WL: 12cm</td>
</tr>
<tr>
<td>231-201V</td>
<td><em>Cannula only</em>, magnetic valve, ID: 5.5mm, WL:12cm, stainless steel, stopcock</td>
</tr>
<tr>
<td>231-166V</td>
<td><em>Trocar, only</em>, cork screw handle, special sharp tip, for cannulas ID: 5.5mm, WL: 12cm</td>
</tr>
</tbody>
</table>

**Accessories:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>234-211</td>
<td>Spare sealing caps, for trocar cannula 8 mm, p. of 10 pcs.</td>
</tr>
<tr>
<td>231-211</td>
<td>Spare sealing caps, for trocar cannula 5.5 mm, p. of 10 pcs.</td>
</tr>
<tr>
<td>230-215</td>
<td>Spare magnetic valve flap 8/10/11/12/13 mm, p. of 2 pcs.</td>
</tr>
<tr>
<td>231-215</td>
<td>Spare magnetic valve flap 5.5 mm, p. of 2 pcs.</td>
</tr>
<tr>
<td>DE-6-21</td>
<td>Cleaning brush for tubes, size: 4 to 7 mm, 20 cm</td>
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<tr>
<td>DE-9-25</td>
<td>Cleaning brush for tubes, size: 7 to 10 mm, 25 cm</td>
</tr>
<tr>
<td>DE-6-102</td>
<td>Cleaning brush, flexible, for tubes, size: 5 to 8 mm, 70 cm</td>
</tr>
</tbody>
</table>

**Light sources for field practice**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED-8-35</td>
<td>LED light handle, accu power set, comp. to Fritz/Wolf, handle water resistant, consisting of: handle only (LED-8-35G), charger (LED-8-35LA), Li accu block 3,7Vx 1Ah (LED-8-35B)</td>
</tr>
<tr>
<td>LED-8-32</td>
<td>LED endoscope light handle, mini, 1,5 VDC, 90 g, comp. to Fritz/Wolf, including complete mignon battery AA</td>
</tr>
</tbody>
</table>
**Laparoscopy**

**Instruments, Accessories**

### Safety toggle

- **LO-40-04** Safety toggle pin acc. to Dr. Janowitz, for laparoscopic abomasal fixation, 5 pcs.

### Needle, puncture system

- **L-33-218** Palpation probe and puncture cannula, OD 5 mm, 33 cm
- **TR-40-350** Toggle placing trocar set acc to Janowitz, OD: 5 mm, WL 35 cm, consisting of: cannula only (TR-40), trocar only (TR-40-3), obturator (TR-40-35)

### Suture grasping forceps

- **L-19-757** Suture grasping & preparation forceps acc. to Dr. Janowitz, long version, OD: 5 mm, WL: 46 cm, cleaning connector
- **L-19-746** Suture and preparation forceps acc. to Dr. Janowitz, specific version, OD: 5.5 mm, WL: 33 cm, cleaning connector – short version: optional –
- **L-19-461** Suture grasping hook acc. to Dr. Meyer, 5 mm, 40 cm

### Accessories – optional

- **531.01H05V** Metzenbaum scissors, 5 mm, 33 cm, curved insulated, dismountable, rotatable, plastic handle
- **531.60H01V** Biopsy forceps, 5 mm, 33 cm, double action jaws, insulated, dismountable, rotatable
- **DE-3-456** Cleaning brush, for long tubes, ID: 2.5-5 mm, 6 pcs. (without picture)
Laparoscopy
Spieker acc. to Christiansen

for laparoscopic repositioning of LDA, in a standing upright position
Janowitz and Christiansen, Giessen 2003

TR-78-766 Christiansen's spieker for large animals
1 m, consisting of:
outer tube TR-78-763
lancet TR-78-761,
inner tube TR-78-762

TR-13-145 Working trocar, ID: 13 mm, NL: 14 cm incl. cannula (TR-145), sharp trocar (TR-13)
230-505 Reducer adapter for trocars from 13 to 5 mm

Smartphone lens for more mobility

Endoscopic equipment for the Examination with rigid standard endoscopes

- easy and fast assembly
- recording pictures and videos
- perfect for mobile practice

A79-IP6-SET DIN Okular Lense for smartphones with cover adaptor for iPhones from type 6

– other smartphone types on request –
Laparoscopy

Set for laparoscopic repositioning and fixation of abomasal displacement in cattle
Laparoscopy

Soak basin

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Suction & inflation pump

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Transportation case and instruments container

for safe storage of your cold light source, instruments and telescopes

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DE-10-426  **Soak basin** for chemical solution disinfection consisting of basin (perforated), tray & cover for basin, size: 70x22x9.5cm

H140-3S  **Suction & irrigation pump**, soft system, complete with 2 bottles (suction/ water) 1 litre each, tubing set autoclaveable, vacuum: 3 L/min, max: 0.4 bar pressure: 4 L/min, max: 0.5 bar (400mmHg) incl. transformer 115-240VAC;50/60Hz

H150-1-1  **Inflation pump**, small, 4 litre/min silicon tube, LL(m), 3m, 230VAC, 50/60Hz

H150-1-1X  **Inflation pump**, small, 4 litre/min max. 0.25bar, 115VAC, 60Hz US-connector incl. silicon tube, LL(m) (without picture)

DE4011-48  **Sterilizing and storing case**, stainless steel, 40x11x6 cm, lid perforated, with textile filter

K-8427-11  **Case for storage and transport of telescopes and instruments**, 84x27x11 cm,

Y-K-8427-13  **Spare inlay for transportation case** type K-8427-11, washable (without picture)