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 Medl 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.

Teat Sinus
Fürstenberg’s Rosette
Teat Canal
Teat Orifice

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 professional after care service.

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

consisting of:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T141-3000</td>
<td>Wide angle telescope, 0°, OD: 3mm, WL: 14cm,</td>
</tr>
<tr>
<td>S140-3001</td>
<td>Sheath, OD: 4mm, WL: 12cm</td>
</tr>
<tr>
<td>LED-8-32</td>
<td>Light handle,ignon battery AA, 1,5 VDC</td>
</tr>
<tr>
<td>ZB-5-3</td>
<td>Inflation pump, battery operated,</td>
</tr>
<tr>
<td>Z-40-05</td>
<td>Special teat probe</td>
</tr>
<tr>
<td>Z-44-85</td>
<td>Special teat clamp, with ratchet, size 12 cm</td>
</tr>
<tr>
<td>Z-55</td>
<td>Teat knife acc.to Dr.Ebner,</td>
</tr>
<tr>
<td>Z-47-030</td>
<td>Stenoscutter D: 3,0 mm</td>
</tr>
<tr>
<td>Z-47-033</td>
<td>Stenoscutter D: 3,3 mm</td>
</tr>
<tr>
<td>DE-5-17</td>
<td>Cleaning brush, small, 17 cm</td>
</tr>
<tr>
<td>DE2014-41</td>
<td>Sterilizing &amp; storing case, 200x140x40mm</td>
</tr>
<tr>
<td>A79-IP6-SET</td>
<td>DIN Okular Lense with cover adaptor</td>
</tr>
<tr>
<td>K-4530-10</td>
<td>Special transportation case, for teat endoscopy</td>
</tr>
</tbody>
</table>

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

Teat Endoscopy / Theloscopy

Treatment of teat disorders using minimal invasive techniques with teat endoscopy

- wireless video transmission
- for TV, notebook, PC
- Li battery
- resolution 400x400

SET-Z6-VE
Video teat endoscopy set Basic, 3,5 mm
wireless video endoscope with radio transmission 5,8GHz:
97-FU17  wireless endoscope (VCS3), charger
TXL2-580M  5” monitor, receiver&recorder, battery operated
TR-04-84S  sheath and trocar
K-4530-10  transportation case

SET-Z6-VIS
Video teat endoscopy set Plus, 3,5 mm
wireless video endoscope with radio transmission 5,8GHz:
97-FU17  wireless endoscope (VCS3), charger
TXL2-580M  5” monitor, receiver&recorder, battery operated
TR-04-84S  sheath and trocar
ZB-5-3  battery air pump/tube
Z-40-05  palpation probe
Z-44-85  teat clamp, 12 cm
Z-55  teat knife acc. to Ebner
Z-47-030  Stenosiscutter D: 3,0 mm
Z-47-033  Stenosiscutter D: 3,3 mm
DE-5-17  cleaning brush, 17 cm
DE2014-41  sterilizing tray
K-4530-10  transportation case

SET-Z6-EW
Additional equipment
(only in connection with VCS3, small animals)
to be used in teat endoscopy, consisting of:
TR-04-84S  sheath and trocar
ZB-5-3  battery air pump/tube
Z-40-05  palpation probe
Z-44-85  teat clamp, 12 cm
Z-55  teat knife acc. to Ebner
Z-47-030  Stenosiscutter D: 3,0 mm
Z-47-033  Stenosiscutter D: 3,3 mm
DE-5-17  cleaning brush, 17 cm
DE2014-41  sterilizing tray
K-4530-10  transportation case

more informations to VCS3 see page 12
Teat Endoscopy / Theloscopy
Standard Instruments

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

*the second generation*

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)

Keratelin® teat products
for teat care

THELASEL teat dilator
the natural solution

Z-99025-TH

KERATELIN - Milk Canula, disposable

Z-99055

KERATELIN „P2-Cath“
Permanent Catheter

Z-99027

• Attention: sterile product - return shipment not accepted

Dr. Fritz Endoscopes   www.dr-fritz.com · dr.fritz@dr-fritz.de
Europe-Germany

2022
Bovine, Large Animals

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

Bovine Laparoscopy
Laparoscopy

Telescopes, Trocars and Accessories

Telescope, Trocars

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T420-8000V</td>
<td>Wide angle telescope, 0°, OD: 8 mm, WL: 46 cm, large image and safety version, for large animal practices</td>
</tr>
<tr>
<td>TS40-8S</td>
<td>Video telescope, 0°, wireless, OD: 8 mm, WL: 40 cm, in-built LED light &amp; 5,8Ghz sender, rechargeable Li battery, fully immersible, resolution: 720x640pxs, robust veterinary version, set consisting of: video laparoscope (TS40-8), charger(TV27-NET)</td>
</tr>
<tr>
<td>234-200V</td>
<td>Cannula only, magnetic valve, ID: 8mm, WL:12cm, stainless steel, stopcock</td>
</tr>
<tr>
<td>234-166V</td>
<td>Trocar, only, cork screw handle, special sharp tip, for cannulas ID: 8mm, WL: 12cm</td>
</tr>
<tr>
<td>231-201V</td>
<td>Cannula only, magnetic valve, ID: 5,5mm, WL:12cm, stainless steel, stopcock</td>
</tr>
<tr>
<td>231-166V</td>
<td>Trocar, only, cork screw handle, special sharp tip, for cannulas ID: 5,5mm, WL: 12cm</td>
</tr>
</tbody>
</table>

Accessories:

<table>
<thead>
<tr>
<th>Code</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>
</tr>
<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

LED-8-35     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)

**easy to use**
**easy to clean**
**long life span**
Laparoscopy
Instruments, Accessories

Safety toggle

- robust and break resistant (material)
- 90 cm double suture material
- increased stiffness of suture material
- to assist placement in abdomen
- with markings along the suture

| 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: 5mm, 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, dismantable, rotatable, plastic handle |
| 531.60H01V | Biopsy forceps, 5 mm, 33 cm, double action jaws, insulated, dismantable, rotatable |
| DE-3-456 | Cleaning brush, for long tubes ID: 2,5-5 mm, 6 pcs. (without picture) |
Laparoscopy

Spieker acc. to Christiansen

TR-78-766
completely mounted

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

Spieker, fully dismantled

for laparoscopic repositioning of LDA,
in a standing upright position

Janowitz and Christiansen, Giessen 2003
Laparoscopy

Soak basin

DE-10-426 Soak basin for chemical solution disinfection consisting of basin/perforated, tray & cover for basin, size: 72,5x20x14 cm

Suction & inflation pump

H140-3S Suction & irrigation pump, soft system, complete with 2 bottles (suction/water) 1 litre each, tubing set autoclavable, 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)

Transportation case and instruments container

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

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)
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

Max. Set
(+ Spieker acc. to Christiansen)

2-step technique (Janowitz technique)

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

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

Eco Set

Adventure Set
without telescope

1-step technique (only standing upright position)

SET-LAB-233
Set „Eco” for endoscopic LDA repositioning
set including transportation case and spieker 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
• spieker acc to Christiansen

SET-LAB-234
Set „Adventure” for endoscopic LDA repositioning
basic instruments, consisting of:
• trocar and cannula 13 mm with reducer cap for 10mm endoscopes
• abomasal puncture trocar cannula and blunt obturator
• safety toggle pins (5 pcs.)

☞ video laparoscopy set, wireless see next page
**Laparoscopy**

Video Set for laparoscopic repositioning and fixation of abomasal displacement in cattle, wireless

**Video transmission:**
- stationary
- mobile

![Diagram of video transmission components](image)

**Video-Set wireless**

- removable, washable inlay

![Image of video set components](image)

- case bottom can also be used as a disinfection basin

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

<table>
<thead>
<tr>
<th>SET-LAB-V41</th>
<th>Video set for endoscopic LDA/RDA repositioning acc.to Janowitz, standard set, with transportation case, consisting of:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- video cattle scope, 8mm, 0°, wireless</td>
</tr>
<tr>
<td></td>
<td>- trocars and trocar cannulas, 8 &amp; 5mm</td>
</tr>
<tr>
<td></td>
<td>- palpation probe and puncture needle</td>
</tr>
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<tr>
<td></td>
<td>- suture grasping forceps, long</td>
</tr>
<tr>
<td></td>
<td>- suture grasping hook acc.to Meyer</td>
</tr>
<tr>
<td></td>
<td>- safety toggle pins (box w.5pcs)</td>
</tr>
<tr>
<td></td>
<td>- sterilizing and storage tray</td>
</tr>
<tr>
<td></td>
<td>- inflation pump</td>
</tr>
<tr>
<td></td>
<td>- cleaning brushes</td>
</tr>
<tr>
<td></td>
<td>- 5” receiver/monitor/recorder</td>
</tr>
</tbody>
</table>

☞ for additional monitors and receivers see page: 37, 41, 115, 161