# В

# BOVINE

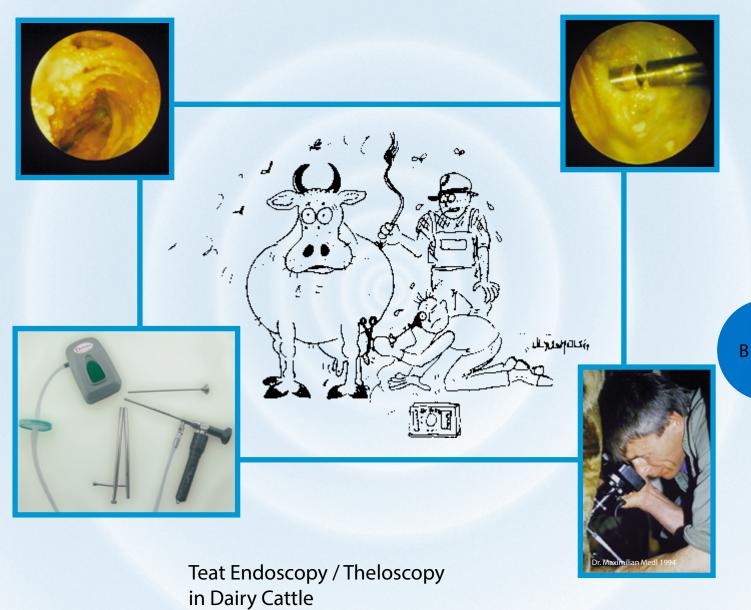


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# Bovine

Equipment for endoscopic diagnosis and minimal invasive treatment of teat disorders



# 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.



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.

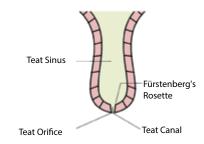
#### Teat set standard

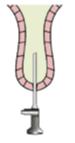
with battery handle, air pump, new instruments, complete in transportation case

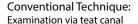
#### consisting of:

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-47-030	Stenosiscutter D: 3,0 mm
Z-47-033	Stenosiscutter D: 3,3 mm
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

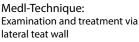
Please ask us or your customer service for a special quotation for your practice.





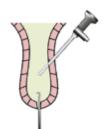


An examination of the teat sinus is possible but you can not see the Fürstenberg's Rosette, where 95% of the internal lesions occur. Parallel treatment through the teat canal is difficult.



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.



Literature: MEDL, M., K. QUERENGÄSSER et al.: Zur Abklärung und Behandlung von Zitzenstenosen mittels Endoskopie, Tierärztl. Prax. 1994, 22:532-7 / QUERENGÄSSER, K.,: Diagnose u. Therapie v. Zitzenstenosen beim Rind mittels Endoskopie, Univers. Zürich, Diss. 1998 / SEEH, C., R. HOSPES: Erfahrungen mit einem Theloresektoskop, Tierärztl. Prax. 1998, 26(G):110-8



## 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
2/-101/	WILCIESS CHAOSCOPE	(VCJJ), Chargei

TXL2-580M 5" monitor, receiver&recorder,

battery operated

TR-04-84S sheath and trocar
K-4530-10 transportation case

(without picture)

#### 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 7-44-85 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



#### 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



#### Teat knife acc. to EBNER

- handle with disposable blade
- blades easy to change and safe
- for each large animal practice
- 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)
- Scalpel blades f. teat knife, 10pcs/b individually packed, sterile, comp. to handle type Z-55



#### 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

Cleaning brush small, 17cm, for tubes DE-5-17 ID:2 - 4mm, autoclavable, 1 pc.

Disinfection and cleaning solution IP DE-10-300 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

**Europe-Germany** 





**KERATELIN -**

KERATELIN "P2-Cath"





Z-99055

Z-99027

· Attention: sterile product - return shipment not accepted

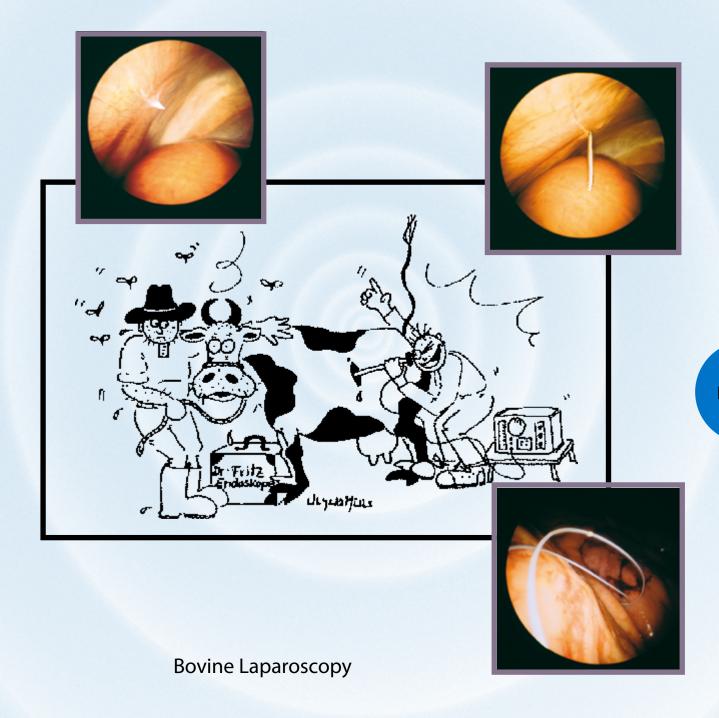




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# Bovine, Large Animals

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



#### Telescopes, Trocars and Accessories

### Telescope, Trocars



T420-8000V

Light sources for field practice

see page 156



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)



#### Instruments, Accessories

LO-40-04

#### 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
- Safety toggle pin acc. to Dr. Janowitz, for

laparoscopic abomasal fixation, 5 pcs.

# Needle, puncture system

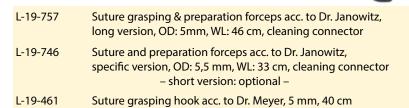
L-33-218	Palpation probe and puncture cannula, OD 5 mm, 33 cm
TR-40-350	Toggle placing trocar set acc to Janowitz, OD: 5 mm, WL 35 cm, consisting of: cannula only (TR-40), trocar only (TR-40-3), obturator (TR-40-35)

_	L-33-218	
	TR-40-35	-9
	TR-40-350	

#### Suture grasping forceps



L-19-757



#### 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

2022

ID: 2,5-5 mm, 6 pcs. (without picture)



### Spieker acc. to Christiansen



TR-78-766 completely mounted

for laparoscopic repositioning of LDA, in a standing upright position

> Janowitz and Christiansen, Giessen 2003





Spieker, fully dismantled

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



### 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)



# 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)



case bottom can also be used as a disinfection basin

#### 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

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

video laparoscopy set, wireless see next page

#### **Eco Set**



# Adventure Set without telescope



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

SET-LAB-233

Set "Eco" for endoscop. 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
- saftety toggle pins
- trocar & cannula, 13mm, large
- spieker acc to.Christiansen

1-step technique (only standing upright position)

SET-LAB-234

Set "Adventure" for endoscopic LDA repositionig

basic instruments, consisting of:

- trocar and cannula 13 mm with reducer cap for 10mm endoscopes
- abomasal puncture trocar cannula and blunt obturator
- saftety toggle pins (5 pcs.)

**P**r. Fritz

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

Video transmission:

stationary







#### Video-Set wireless

• removable, washable inlay



as a disinfection basin

2-step technique (Janowitz technique)

SET-LAB-V41

Video set for endoscopic LDA/RDA repositioning acc.to Janowitz, standard set, with transportation case, consisting of:

- video cattle scope, 8mm, 0°, wireless
- 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 (box w.5pcs)
- sterilizing and storage tray
- inflation pump
- cleaning brushes
- 5" receiver/monitor/recorder

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

