



Endoscopes & Video Systems

Vet-Info 14-8 E

## Equine, Bovine, Camels

Endoscopes and instruments for laparoscopic surgery



## Laparoscopy/Thoracoscopy in Large Animals

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## Laparoscopes for minimally invasive surgery

- patented large image optical system
- extremely high definition image
- large field of vision
- full screen image



T501-100

### Short version

**T291-1030** Wide angle telescope, 30°, OD:10mm, WL:30cm, SIRIUS system, autoclavable standard light cable connectors

### Standard version

(WL: 50 cm)

**T501-1000** Wide angle telescope, 0°, OD:10mm, WL:50cm, large image optical system, stand. light connectors, autoclavable for equine and large animal practice

**T501-1030** Wide angle telescope, 30°, OD:10mm, WL:50cm, large image optical system, stand. light connectors, autoclavable for equine and large animal practice



### Laparoscopes with working channel

#### 6 mm working channel (for ET and gynaecological work)

The telescope is introduced through only one trocar via fornix vaginae into the pelvic cavity. The endoscopic video camera transfers the images to the monitor for the surgeon. Ovaries, follicles and the whole pelvic area is open to be examined. The straight working channel allows the introduction of different instruments.

**T270-1100** Telescope with working channel, 0°, OD:11mm, WL:27cm, large image, SIRIUS optical system, standard light connectors, integrated working channel, ID: 5,5mm, with magnetic valve

**232-200** Cannula only, magnetic valve, ID:11mm, WL:12cm, inflation stopcock

**232-109** Trocar only with pyramidal tip for trocars, ID: 11mm, WL: 12cm

### Basic set for transvaginal laparoscopy

(Follicle puncture and embryo transfer)

**T610-1100** Telescope with working channel, 0°, OD:11mm, WL:61cm, standard light connectors, integrated working channel, ID: 5,5mm with magnetic valve, inflation stopcock

– Special manufacturing: no refund possible –

**S610-1107-8** Special trocar, ID:11mm, WL:57cm, compatible to operational telescope T610-1100, stopcock, magnetic valve  
consisting of: cannula only S610-1107  
special trocar only S610-1108



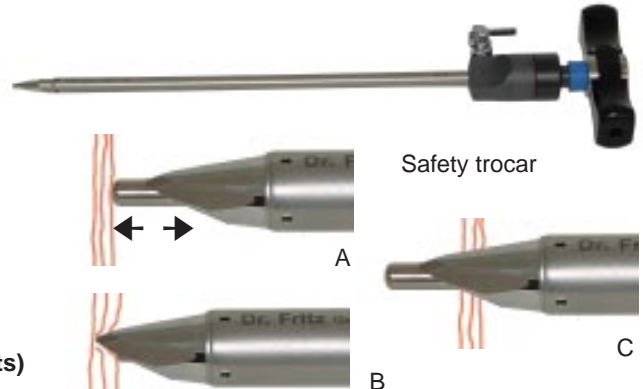
Besides the standard 0° and 30° angle of vision Dr. Fritz offers also a 50° version.

## Trocar cannulas with magnetic valve, safety trocars

Trocar cannulas are designed with different types of valves to reduce or to avoid CO<sup>2</sup> loss when changing instruments and telescope during laparoscopy and thoracoscopy. Our reusable and patented magnetic valve trocar system has several advantages compared to other valve types. First of all they are light in weight and because of the valve construction, the insertion of instruments and scopes will pass smoothly through with out scratching or touching the front lense like in a ball system or in a so called automatic valve system. In addition there is nearly no gas loss even when changing instruments. There are no mechanical parts to clean inside except the magnetic flap itself which is a great help to your staff.

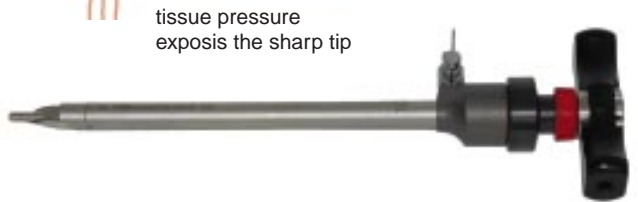
### Inner diameter 5,5 mm (for standard 5 mm instruments)

- 231-265 Cannula only**, magnetic valve, ID:5,5 mm, WL:20 cm, inflation stopcock
- 231-161 Safety trocar only**, compatible to cannulas ID:5,5 mm, WL: 20 cm, fully dismantable with cork screw handles
- 231-129 Trocar only**, with pyramidal tip for trocar with ID: 5.5 mm, WL:20 cm



### Inner diameter 10 mm (for optical and 10 mm instruments)

- 230-264 Cannula only**, magnetic valve, ID:10 mm, WL:20 cm, inflation stopcock
- 230-161 Safety trocar only** compatible to cannulas ID:10 mm, WL: 20 cm, fully dismantable with cork screw handles
- 230-103L Trocar only**, pyramidal tip, for trocars ID: 10 mm, WL: 20 cm



### Inner diameter 13 mm (for stapler and tissue extraction or biopsies)

- 637-202 Cannula only**, magnetic valve, ID:13 mm, WL:15 cm, inflation stopcock
- 237-103 Trocar only** with pyramidal tip for trocars ID:13 mm, WL: 15 cm



### Inner diameter 16 mm (for stapler and tissue extraction or biopsies)

- 635-203 Cannula only**, magnetic valve, ID:16 mm, WL:15 cm
- 235-111 Trocar only** with sharp tip for trocars ID: 16 mm, WL: 15 cm

● There are also trocars with blunt tips available, please ask your local dealer

## Accessories



- 230-505 Reducer adapter** for trocars from 10 to 5,5 mm
- 233-505 Reducer adapter** for trocars from 12 to 5,5 mm
- 231-211 Sealing caps** for trocars and reducer adapters, size 5,5 mm, package of 10 pcs.
- 230-211 Sealing caps** for trocars and reducer adapters, size 10/11/12 mm, package of 10 pcs.
- 231-215 Magnetic valve flap**, for trocar cannula size 5,5 mm, package with 2 pcs.
- 230-215 Magnetic valve flap** for trocar cannula size 10mm, package with 2 pcs.
- 233-215 Magnetic valve flap**, for trocar cannula size 12,5 mm, package with 2 pcs.

## Special trocar acc. to Dr. Marien

(closing of the spleen-kidney-space in equine)

- TR-23-250 Working trocar acc. to Dr. Marien**, ID:23 mm 17 cm, incl. cannula (TR-250), sharp trocar



see page: L 7 optical trocar, self cutting

## Palpation, Dissection and Puncture Instruments



**L-47-210 Injection and puncture cannula**, 5 mm, 47 cm, interchangeable needle with protection tube, consisting of:

- L-47 inside tube, LL, connector
- L-47-2 outer tube (protection tube)
- L-210 needle, 1x26 mm

**L-210 Injection cannula**, spare needle, thin size: 1x26 mm, compatible to L-33/47; 1pc

**L-218 Injection cannula**, spare needle, large size: 1,9x26 mm, compatible to L-33/47; 1pc

**L-218R Injection cannula**, spare needle, rounded size: 2x28 mm, compatible to L-33/47, 1pc.

**Thoracoscopy first puncture needle**



**TR-03-201 Puncture needle for thoracoscopy**, ID: 3 mm  
WL: 20 cm, incl. sharp trocar

**Laparoscopy first puncture needle**



**L-19-150 Veress needle**, D: 2 mm, 15 cm, LL(w)

**Fan retractor, adjustable**



**L-19-1006 Fan retractor**, 5 fingers, adjustable, OD: 10 mm, WL: 34 cm, Luer Lock irrigation connector

**Preparation**

**GE-10-553 Safety sponge forceps**, 3 hooks, 5 mm, 33 cm, non-reflecting surface, fully dismantable, easy mounting, straight handle, consisting of: handle (GE-10), outer tube: (GE-10-53), jaws (GE-10-5)



Please ask for additional special instruments



HA 11/HN 82



H 52



H 01/H 05/H 11



H 22

## Handles

plastic or standard handles  
without ratchet, with external  
or with internal ratchet  
HF connector

- easily dismantlable
- reusable
- with HF connector

- long life span - one system
- compatible for 5 mm  
and 10 mm trocar cannulas

## Tubular sheaths

- 5 mm and 10 mm diameter
- different working lengths
- rotatable through 360°,  
or fixed
- insulated or  
stainless steel



Each jaw insert and outer sheath can be used with any type of handle.

## Standard Instruments, 5 mm



### Scissors

**531.01H05V Metzenbaum scissors**, 5 mm, 33 cm, curved left, insulated, dismantlable, completely rotatable, consisting of: jaws insert (53M01), sheath (53R1) handle (H 05), color code: white

### Biopsy, dissecting and grasping forceps

**531.61H01V Biopsy forceps**, double action jaws, with spikes, 5 mm, 33 cm, dismantlable, completely rotatable consisting of: jaws insert (53 M 61), sheath (53 R 1) handle (H 01), color code: black

**531.40H01V Dissecting forceps (Maryland)**, 5 mm, 33 cm, turned, insulated, dismantlable, completely rotatable, consisting of: jaws insert (53 M 40), sheath (53 R 1) handle (H 01), color code: black

**531.22H11V Grasping forceps**, 5 mm, 33 cm, universal, insulated, dismantlable, completely rotatable, consisting of: jaws insert (53 M 22), sheath (53 R 1) handle (H 11), color code: black

**536.30H52V Claw grasping forceps**, 5 mm, 33 cm, straight, metal, dismantlable, completely rotatable, consisting of: jaws insert (53 M 30), sheath (53 R 6) handle (H 52), metal



Above mentioned instruments are used most frequently,  
for additional types see also our special brochure

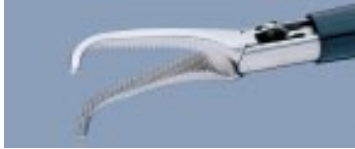


## Standard Instruments, 10 mm

### Scissors



**131.11H05V MAYO scissors**, curved, 10 mm, 37 cm, insulated, dismantable, completely rotatable, consisting of: jaws insert (13 M 11), sheath (13 R 1) handle (H 05) color code: white



### Universal, dissecting and grasping forceps

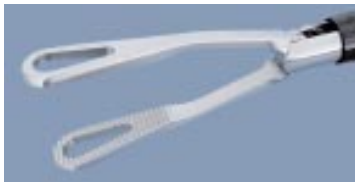
**131.48H01V Dissecting forceps, (OVERHOLT)**, turned, 10 mm, 37 cm, insulated, dismantable, completely rotatable, consisting of: jaws insert (13 M 48), sheath (13 R 1) handle (H 01) color code: black



**131.26H22V Babcock grasping forceps**, 10 mm, 37 cm, insulated, ratchet fully dismantable, completely rotatable, consisting of: jaws insert (13 M 26), sheath (13 R 1) handle (H 22) color code: black



**131.25H22V Universal grasping forceps**, 10 mm, 37 cm, insulated, double action jaws, ratchet fully dismantable, consisting of: jaws insert (13 M 25), sheath (13 R 1) handle (H 22) color code: black



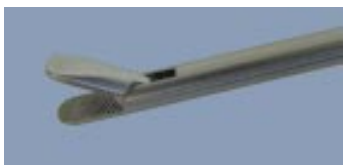
**131.49H11V Atraumatic grasping forceps**, 10 mm, 37 cm, insulated, ratchet fully dismantable, consisting of: jaws insert (13 M 49), sheath (13 R 1) handle (H 11) color code: black



**136.32H52V Claw grasping forceps**, 10 mm, 37 cm, metal, double action jaws, ratchet fully dismantable, consisting of: jaws insert (13 M 32), sheath (13 R 6) handle (H 52) metal

## Needle holders

Axial handles (the frog)



### Needle holders

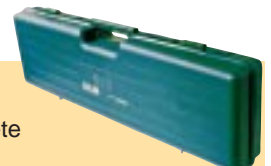
**90-54NA-82V Needle holder**, 5 mm, 32 cm, straight complete, "Easy Clean System", overstraining protected consisting of: jaw/tube 90-54N, metal axial handle (HN 82)



**91-54NA-82V Needle holder**, 5 mm, 32 cm, curved, complete, "Easy Clean System", overstraining protected consisting of: jaw/tube 91-54N, metal axial handle (HN 82)

➡ Please ask for different working lengths, see also special brochure Inst 1-03E

**K-8427-11 Transportation case**, 84x27x11 cm, for telescopes and instruments, complete



## Special Instruments



For bipolar coagulating and cutting.

### Bipolar coagulating and cutting

**BP-10-321** Bipolar grasping & cutting forceps, 10 mm, WL:320 mm, disposable, universal connector



Easy handling, easy to tighten, additional cutting

### Knot tier and cutter

**L-19-542** Knot tier, long version, 5 mm, 47 cm with cutting device, easy suture filling fully dismantable

### Optical trocar, self cutting, for the primary puncture site

- compatible for telescope diameters 5-12 mm
- ideal for the first puncture preparation
- disposable



knife blade with window



trocar canula



**TR-125-121** Optical trocar, self cutting for 5 - 12 mm telescopes, disposable consisting of: Knife blade with blunt clear window  
cannula 5-12 mm  
pg. with 3 pcs.

# Suction/irrigation instrument,

consisting of: metal tube, suction/irrigation valve, cap for instrument channel and handle



The system allows a total separation of suction + irrigation canal.



metal tube



isolated tube



Olive, metal



perforated, metal



	Length	tube, only	handle	complete-No.	suction/irrigation way	
	5 mm	37 cm	SM1-54	RH 98	SM1-54RH98	1 (one canal)
		37 cm	SK1-54	RH 98	SK1-54RH98	1
	10 mm	37 cm	S9-14/14T2	RH98	S9-14T2RH98	2 (separate canals)
			inner / outer tube			
		37 cm	S9-14/14T4	RH98	S9-14T4RH98	2

## Accessories/spare parts

- RH18** Suction/irrigation valve, compatible to RH98, 1 pcs, reusable, metal, non sterile
- RH99-56** Cap for instrument canal compatible for suction/irrigation handle RH98



CO<sup>2</sup>-Inflator, electronically monitored, gas heating system



Compact high frequency unit – universal

Ask for additional brochures about **CO<sup>2</sup>-Inflator, compact high frequency unit, video cameras, light sources, recorders and printers** and see our homepage [www.dr-fritz.com](http://www.dr-fritz.com)

