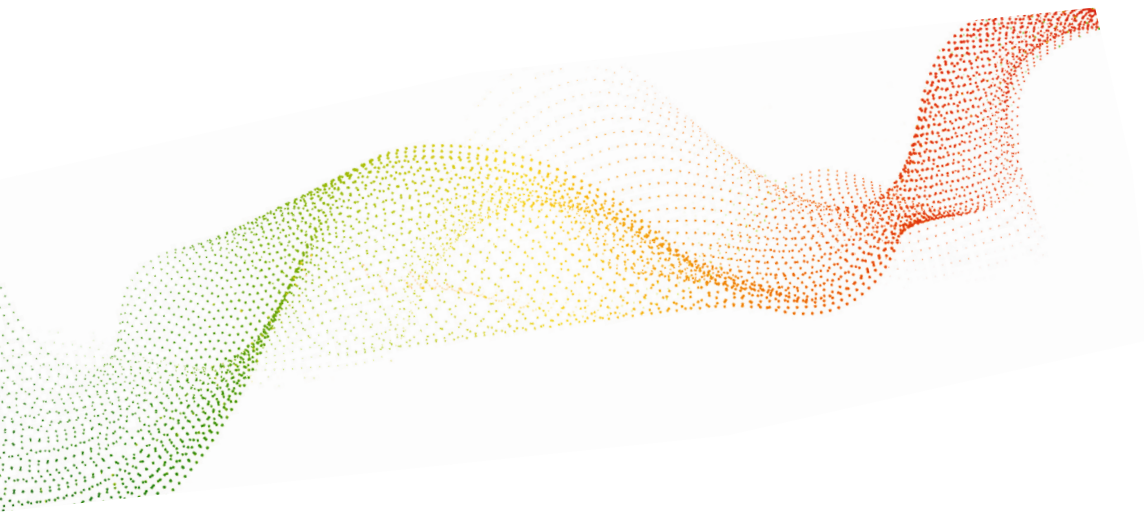


Equine



Laparoscopy / Thoracoscopy

Endoscopes and instruments for laparoscopic/thoracoscopic surgery



WIRELESS Video Laparoscope

in Large Animals



Laparoscopy / Thoracoscopy

Endoscopes for diagnostic and surgical laparoscopy

Video Version

WL: 50 cm

- Integr. 5,8GHz Videosender
- Ideal for the mobile surgery
- Easy handling
- Fully immersible
- Magnetic self positioning connector



- TS50-10ES** **Video laparoscope , 0°, 10 mm, 50 cm, SET**
 cordless HD-PAL endoscope for large animals
 with 5,8 HGz radio transmission built-in LED light,
 rechargeable Li battery, fully immersible
 Set consisting of:
- video laparoscope (TS50-10E)
 - power adapter (TV27-NET)
 - 5" monitor receiver (TXL2-580M)



Magnetic connector

Wireless transmisson





Laparoscopy & Thoracoscopy

Trocar cannulas with magnetic valve, safety trocars

Trocar cannulas are designed with different types of valves to reduce or to avoid CO² 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 without 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.

Safety trocar



Tissue pressure exposis the sharp tip



Inner diameter 5,5mm

for standard 5mm instruments

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

231-265V



231-129



Inner diameter 10mm

For optical and 10mm instruments

- | | |
|-----------------|--|
| 230-264V | Cannula only, magnetic valve
ID: 10 mm, WL: 20 cm,
inflation stopcock |
| 230-161V | Safety trocar „Cavi Save“
ID: 10 mm WL: :20 cm
only comp. to cannulas,
with cork screw handles, fully dismantable
(without picture) |





Laparoscopy & Thoracoscopy

Trocar cannulas with magnetic valve, safety trocars

Inner diameter 16mm

For stapler and tissue extraction or biopsy

635-203 Cannula only, magnetic valve
ID: 16 mm, WL: 15 cm, without stopcock, trinox (without picture)

235-111 Trocar only with sharp tip for trocars
ID: 16 mm, WL: 15 cm (without picture)

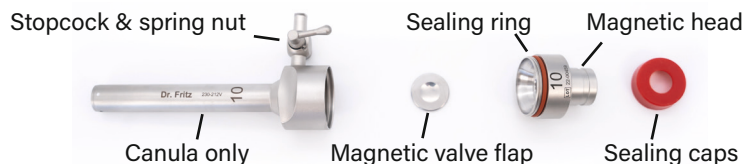
Special trocar acc. to Dr. Marien

Closing of the spleen-kidney-space in equine

TR-23-250 Working trocar acc. to Dr. Marien
ID: 23 mm, WL: 16 cm, without valve, consisting of:
cannula (TR-250), sharp trocar (TR-23)



Accessories



231-211 Sealing caps for Ø 5,5mm, blue
Package of 10 pieces



631-901 Magnetic valve body, Ø 5mm
With Magnetic Head-/valve flap & sealing caps



234-211 Sealing caps for Ø 8mm, white
Package of 10 pieces



634-901 Magnetic valve body, Ø 8mm
With Magnetic Head-/valve flap & sealing caps



230-211 Sealing caps for Ø 10mm, red
Package of 10 pieces



630-901 Magnetic valve body, Ø 10mm
With Magnetic Head-/valve flap & sealing caps



231-215 Magnetic valve flap
for Ø 5,5mm cannulas
Package of 2 pieces



630-902 Spare stopcock
Complete with spring nut



230-215 Magnetic valve flap
for Ø 8/10/11/12/13 mm cannulas
Package of 2 pieces



630-903 Spare spring nut



236-217 Sealing ring for Trinox trocar cannulas
for Ø 3,5mm & 5,5mm
Package of 5 pieces



230-217 Sealing ring for Trinox trocar cannulas
for Ø 8, 10, 11, 12, 13mm
Package of 5 pieces



230-505 Snap reducer for cannulas
from Ø 10mm to 5,5mm



237-510 Snap reducer for cannulas
from Ø 13mm to 10mm





Laparoscopy & Thoracoscopy

Palpation, Dissection and Puncture Instruments

Thoracoscopy first puncture needle

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



L-47-210 **Injection system and probe**
5mm, WL: 47cm
protected interchangeable needle
with outer tube, complete,
consisting of:
Inside tube, LL(f) connector (L-47)
Outer tube/probe L-47-2
Needle, 1x26mm, 1 piece (L-210)



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



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



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



Knot tier

L-19-544 **Knot tier, standard version**
D: 5mm, WL: 40cm
easy filling, suture size up to 1metric



Easy handling, easy
to tighten, additional
cutting





Laparoscopy / Thoracoscopy

Standard instruments, 5mm

**We are currently optimizing our 5 mm instruments for you.
Individual components may be available upon request — feel free to contact us!**

Handles

- With or without lock
- HF connector
- Plastic or standard handles



H 01/H 05

- Long life span - one system
- Compatible for 5mm trocar cannulas

Tubular sheaths

- 5 mm Ø
- Different working lengths
- Rotatable through 360°
- Or fixed
- Insulated



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

Instrument can be completely dismantled

Scissors

- 531.04H05V** **Hook scissors**, 5mm, 33cm, single action jaws, insulated, rotatable, dismantable, high quality, consisting of:
jaws insert (53M04), sheath (53 R 1)
handle (H05), color code:white



Biopsy forceps

- 531.61H01V** **Biopsy forceps**, 5mm, 33cm, double action jaws, dismantable, consisting of:
jaws insert (53M60), sheath (53R1)
handle (H01), color code:black





Laparoscopy / Thoracoscopy

Standard instruments, 10mm



- 141.11H05B** **Large surgery scissors, Ø 10mm, WL: 45cm**
Robust, straight, rotatable,
Handle isolated



- 141.25H21B** **Grasping forceps Pennington, Ø 10mm, WL: 45cm**
Rotatable, handle isolated with ratchet



- 141.26H21B** **Babcock grasping forceps, Ø 10mm, WL: 45cm**
Rotatable, handle isolated with ratchet



- 141.48H21B** **Mixer grasping forceps, long, Ø 10mm, WL: 45cm**
Rotatable, handle isolated with ratchet



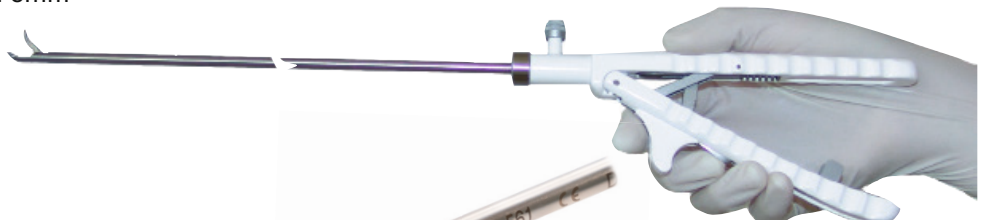
- 146.32H21B** **Claw grasping forceps, Ø 10mm, WL: 45cm**
Rotatable, handle isolated with ratchet



Needle holders

Axial handle, ergonomic, stable, OD: 5mm

- Extremely stable
- Needle self positioning



- L-19-561** **Needle holder**
straight, OD: 5mm, WL: 43cm
axial handle, LL connector

- L-19-563** **Needle holder**
angled upwards, OD: 5mm, WL: 43cm
axial handle, LL cleaning connector



– needle self positioning jaw –



Laparoscopy / Thoracoscopy

Special devices - suction and irrigation

■ Suction-/irrigation pump

For lens cleaning, inflation and suction.
For small and large animal practice.

- ✓ Easy handling
- ✓ Quiet
- ✓ Fine setting option
- ✓ Ideal for small and large animal practices

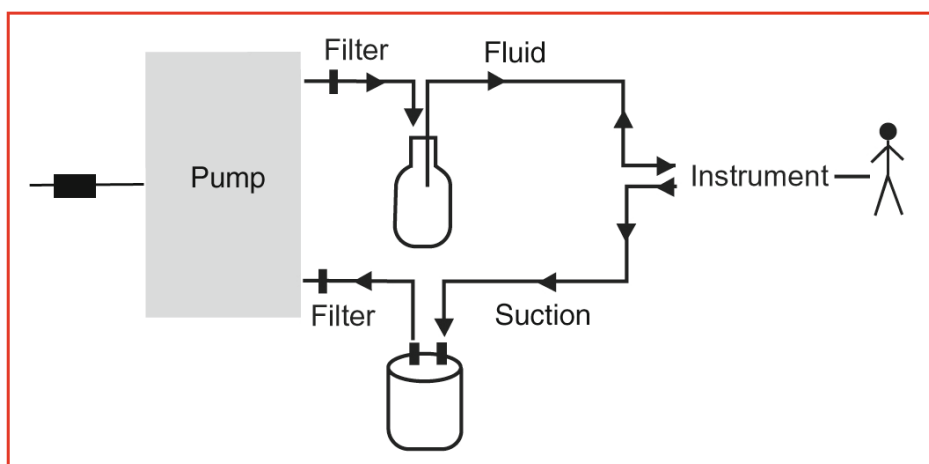


Especially suitable for gastroenterology

H140-3S Suction-/irrigation pump
consisting of:
Suction & irrigation pump (H140-3)
1 li. suction bottle (H160-AB-43)
1 li. flushing bottle (H160-AB-7)
Tubes & transformer
Sterile filter (AR-10-922)

H160-AB-43 Spare suction bottle
1 litre with lid

H160-AB-7 Spare flushing bottle
1 litre with lid





Laparoscopy / Thoracoscopy

CO₂ Inflator, electronically monitored

- small and large animal
- reusable tubing
- bacterial filter
- economical



741-025V CO₂ Inflator, electronically monitored, max. 20 litre, complete without bottle automatic pressure reduction system, DIN gas connection type, 115-230 VAC, 50-60Hz, DIN IEC 601/1, DIN VDE 871

Accessories



741-009-1 Spare Silicon tube, 3m, for CO₂ inflation, incl. connector, autoclavable

741-009-FF Sterile filter system for CO₂ -inflator disposable, box with 50 pcs. medical connection D:22mm

741-002 CO₂ high pressure tube, 1m DIN connector, screw both sides

741-009V-PN CO₂ high pressure tube, 0,8m compatible to PIN Index bottle (without picture)



* Sterile product - return shipment not accepted



Laparoscopy / Thoracoscopy

High frequency unit, High speed, Typ Atom

High frequency unit, High speed - with vessel sealing technique. Parallel usage of all outputs.

- Adapter for instruments other manufacturers on request

- uncomplicated use
- up to date safety regulation
- vessel sealing with confirmation signal
- compatible to all instruments on the market
- program via Touch Screen
- SDS self detecting system

Vessel Sealing



HF-401-TH HF/Radio frequency unit, High End Thermo Stapling (vessel sealing), touch-screen programmable, latest mono & bipolar technique SDS - self detecting system incl. high speed vessel sealing delivery without accessories, 400W, 230VAC, 50/60Hz

Specifications:

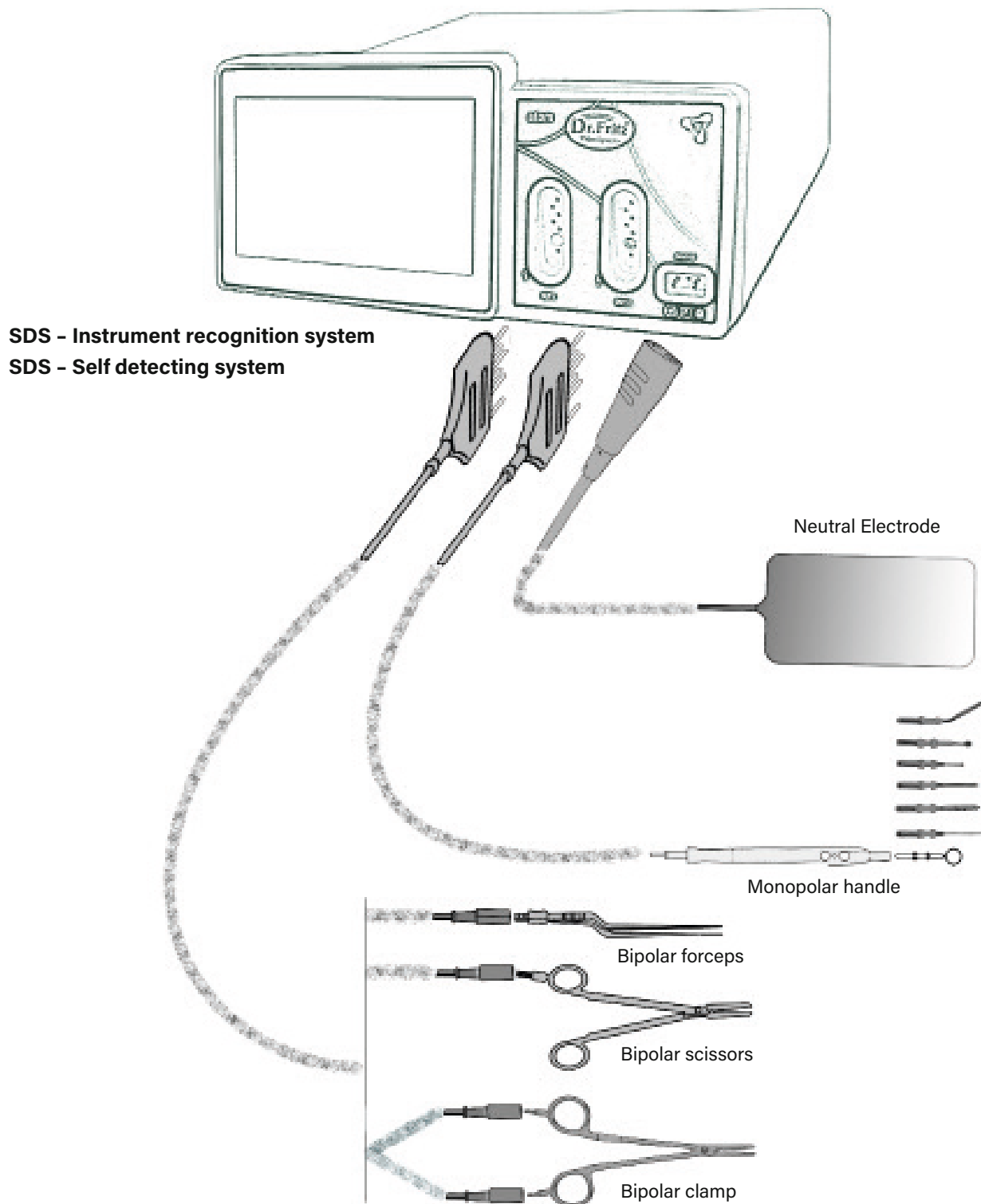
Monopolar	Cutting	400 W
	Coagulation	200 W
	Soft/Forced	+ / +
Bipolar	Cutting	400 W
	Coagulation	200 W
	Auto Start/Stop	+ / +
Bipolar	Thermo-Stapling	+ 300 W
	Thermo sealing	+
	Auto Stop	+
Weight	7 kg	
max. power		420 W



Laparoscopy / Thoracoscopy

High End with thermo sealing

■ Surview





Laparoscopy / Thoracoscopy

Recommended Set

SET-LAP PF BASIC

- **T501-1030**
Wide angle telescope for large animals
- **231-265V**
Cannula only, magnetic valve ID: 5,5mm, 20cm
- **231-161V**
Safety trocar only comp. to cannulas
- **230-264V**
Cannula only, magnetic valve, ID: 10mm, 20cm
- **230-161V**
Safety trocar only comp. to cannulas
- **637-202**
Cannula only, magnetic valve,
ID: 13mm, 15cm
- **237-103**
Trocar only with pyramidal tip
- **TR-23-250**
Working trocar acc. to Dr. Marien, 23mm, 16cm
- **230-505**
Reducer adapter for trocars 5,5mm
- **237-505**
Reducer adapter for trocars 10mm
- **237-510**
Reducer adapter for trocars 15mm
- **L-47-210**
Injection system and probe, 5mm, 47cm
- **TR-03-201**
Puncture and irrigation needle, 3mm, 20cm
- **141.48H01V**
Dissection forceps (Maryland), 10mm, 37cm
- **141.26H11V**
Babcock grasping forceps, 10mm, 37cm
- **141.32H11V**
Grasping forceps, 10mm, 37cm
- **141.11H05V**
Mayo- scissors, 10mm, 37cm, – Super cut –

SET-LAP PF VIDEO

- **TV50-10S**
Video-Laparoscopy , wireless, 10mm, 50cm
- **TSM10-58N**
10" Receiver monitor
- **231-265V**
Cannula only, magnetic valve, ID: 5,5mm, 20cm
- **231-161V**
Safety trocar only comp. to cannulas
- **230-264V**
Cannula only, magnetic valve, ID: 10mm, 20cm
- **230-161V**
Safety trocar only comp. to cannulas
- **637-202**
Cannula only, magnetic valve, ID: 13mm, 15cm
- **237-103**
Trocar only with pyramidal tip
- **TR-23-250**
Working trocar acc. to Dr. Marien, 23mm, 16cm,
- **230-505**
Reducer adapter for trocars 5,5mm
- **237-505**
Reducer adapter for trocars 10mm
- **237-510**
Reducer adapter for trocars 15mm
- **L-47-210**
Injection system and probe, 5mm, 47cm
- **TR-03-201**
Puncture and irrigation needle, 3mm, 20cm
- **141.48H01V**
Dissection forceps (Maryland), 10mm, 37cm
- **141.26H11V**
Babcock grasping forceps, 10mm, 37cm
- **141.32H11V**
Grasping forceps, 10mm, 37cm
- **141.11H05V**
Mayo- scissors, 10mm, 37cm, – Super cut –