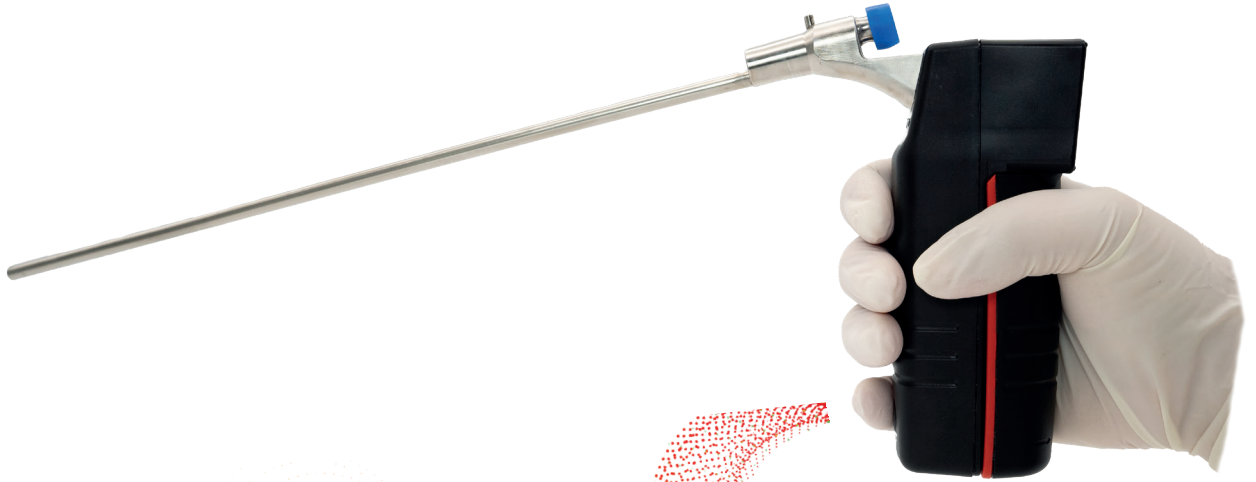


Small Animal



Laparoscopy / Thoracoscopy

Endoscopes and instruments for minimally invasive surgery



WIRELESS Video- Laparoscope

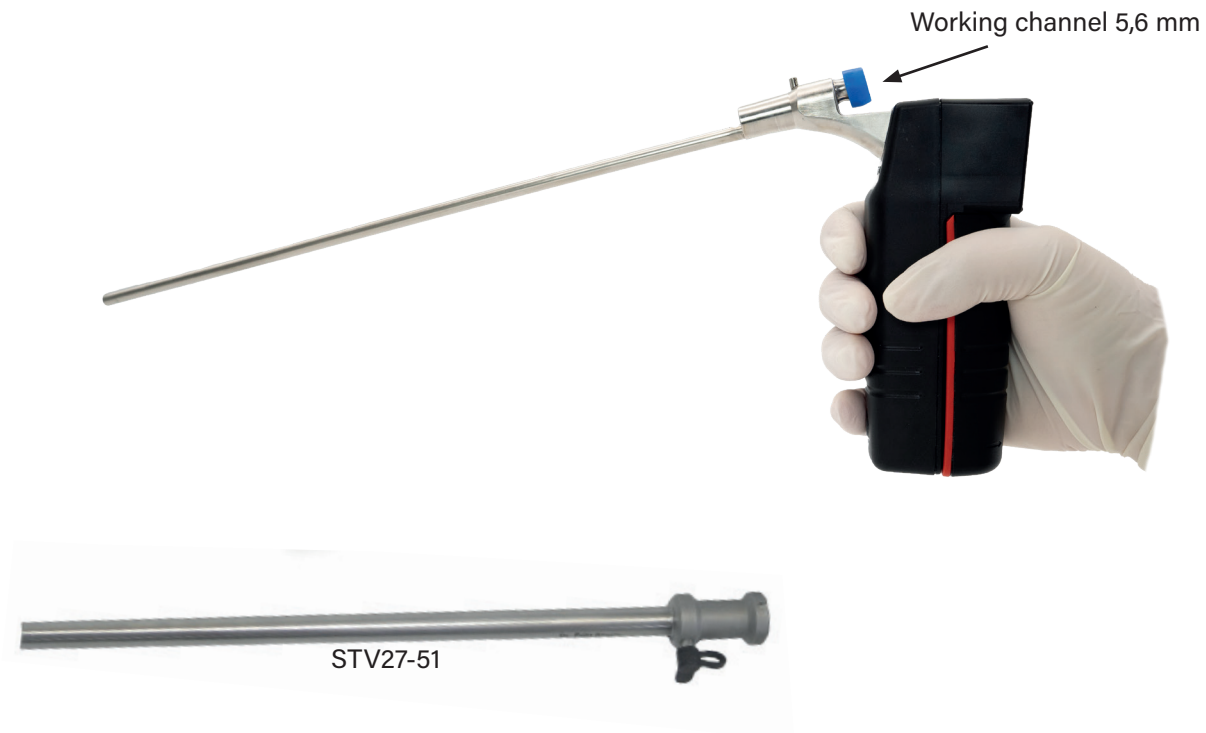
for small animals



Laparoscopy / Thoracoscopy

Telescopes for diagnostic and surgery

■ Video Laparoscope, wireless



TV27-5SET

Video Laparoscope/ Vaginoscope
0°, OD: 5mm, WL: 27cm,
cordless generation with exchangeable battery,
with LED light, 5,8 Ghz

Consisting of:

- Compact Vaginoscope/Laparoscope (TA27-5)
- Charging station (TVG-4)
- 2x battery (TVG-36)
- Outer sheath 12mm (STV27-51)
 working channel: 5,6mm, WL: 27cm
- Vaginoscope sheath (STV27-5V)
- Small air pump (H150-1-1)
- Power adapter (TV27-NET)
- 10" Receiver monitor (TXM10-58R)

Working channel



LED light





Laparoscopy / Thoracoscopy

Trocar cannulas with magnetic valve, safety trocars

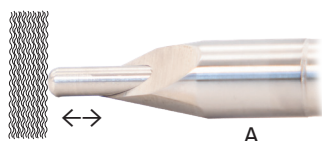
Trocar cannulas are designed with different types of valves to reduce or to avoid CO₂ loss when changing instruments and telescope during laparoscopy and thoracoscopy. Our reusable and patented magnetic valve trocar system has several advantages compared to other valve types. First of all they are light in weight and because of the valve construction, the insertion of instruments and scopes will pass smoothly through with out scratching or touching the front lens 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 5,5mm

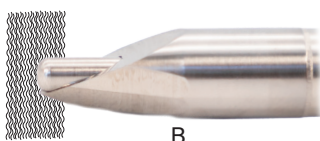
for standard 5mm instruments

- Light in weight
- Ideal for small animals

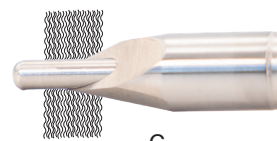
- 231-213V** Cannula only with magnetic valve, ID: 5,5 mm, 7 cm, stainless steel, stopcock, 40 g
- 231-212V** Cannula only with magnetic valve, ID: 5,5 mm, 7 cm, 30 g (without picture)
- 231-137V** Safety trocar only "Cavi Safe" cork screw handles, compatible with cannulas ID: 5,5 mm, WL: 7 cm, fully dismantable
- 231-105V** Trocar only with sharp tip, compatible with Canully only ID: 5,5 mm, WL: 7 cm (without picture)



A

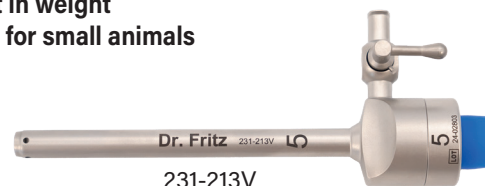


B



C

Tissue pressure exposes the sharp tip



231-213V



231-137V

Safety trocar

Inner diameter 10mm

for telescopes and 10,, instruments

- 230-212V** Cannula only with magnetic valve, ID:10 mm,WL: 7 cm, inflation stopcock, 55 g
- 230-213V** Cannula only with magnetic valve, ID: 10 mm, WL: 7 cm, 45 g, (without picture)
- 230-137V** Saftey trocar only with cork screw handles, compatible to cannulas ID: 10 mm, WL: 7 cm, fully dismantable
- 230-105V** Trocar only with pyramidal tip for cannulas ID: 10 mm, NL: 7 cm



230-137V



230-212V



230-105V

Inner diameter 13mm

for telescopes and 13mm instruments

- 637-232** Cannula only with magnetic valve, ID:13 mm, WL: 10 cm, inflation stopcock, Trinox
- 237-173** Canulla only with pyramidal tip for cannulas ID: 13 mm, WL: 10 cm



637-232

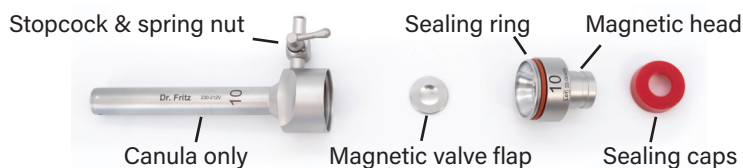


237-173



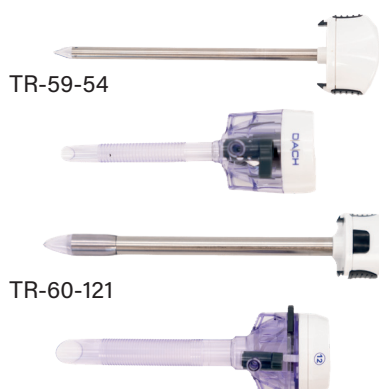
Laparoscopy / Thoracoscopy

Accessories, Trocar disposable



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	

Trocar disposable 5,5mm & 12,5mm



TR-59-54

TR-59-54 **Trocar disposable**, ID: 5,5mm, WL: 7 cm, with spike, LL(f), inflation stopcock, package of 8 pieces

TR-60-121

TR-60-121 **Trocar disposable**, ID: 12,5mm, WL: 10cm, with optical spike, no blade, 12-8/-5 mm, LL(f) inflation stopcock, package of 6 pieces



Laparoscopy / Thoracoscopy

Palpation and Puncture

Laparoscopy first puncture needle

L-19-100 Veress needle
OD: 2,1 mm, 10 cm, LL(f)



L-218



L-210



L-218R



Injection cannula



Injection system and probe

L-210 Injection cannula
thin, 1x26 mm, 2 pieces

L-33-210 Injection system and probe
5 mm, 33 cm, protected interchangeable needle, consisting of:

L-218 Injection cannula
large, 1,9x26 mm, 2 pieces

L-33 Inside tube, LL, connector

L-33-2 Outer tube/probe

L-210 Needle, 1 piece (1x26mm)

L-218R Injection cannula
rounded, 1,9x28 mm, 2 pieces

Mini instrument for two portal technique in laparoscopy, 2,4mm

L-24-23 Needle with mini grasping forceps
OD: 2,4 mm, WL: 23 cm





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!

H 01/H 05

Plastic handles

- With or without lock
- HF connector
- Colour coding for scissors



- Long life span
- Compatible to 5mm trocar cannulas

Tubular sheaths

- 5 mm Ø
- Different working lengths
- Rotatable through 360°
oder feststehend
- Insulated



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

Complete instruments, fully dismantable

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 (53 R 1)
handle (H01), color code:black





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!**

■ Universal dissection forceps

531.40H01V Dissection forceps (Maryland) Ø 5 mm, WL: 33 cm
curved, insulated, rotatable, dismantable,
consisting of:
jaws insert (53M40), sheath (53R1)
handle (H01) colour code: black



Dissecting forceps, strong Ø 5mm, WL: 33cm
curved, for use with 8 & 10mm trocars
consisting of:
jaws insert (53M37), sheath (53R1)
handle (H01) colour code: black



531.22H01V Grasping forceps, universal Ø 5 mm, WL: 33 cm
insulated, rotatable, zerlegbar, dismantable
consisting of:
jaws insert (53M22), sheath (53R1)
handle (H01) colour code: black



Bowel grasping forceps Ø 5 mm, WL: 33 cm
insulated, rotatable, zerlegbar, dismantable
consisting of:
jaws insert (53M36), sheath (53R1)
handle (H01) colour code: black



Grasping forceps insert Ø 5 mm, WL: 33 cm
front hooks
consisting of:
jaws insert (53M24), sheath (53R1)
handle (H01) colour code: black



Atraumatic grasper Taccun, Ø 5 mm, WL: 33 cm
insulated, rotatable, zerlegbar, dismantable
consisting of:
jaws insert (53M25), sheath (53R1)
handle (H01) colour code: black



DeBakey grasping forceps Ø 5mm, WL: 33cm
consisting of:
jaws insert (53M35), sheath (53R1)
handle (H01) colour code: black





Laparoscopy / Thoracoscopy

Palpation

Knot tier and cutter



L-19-534

Knot tier, standard version,
OD: 5 mm, WL: 29 cm, easy filling,
suture size up to 1metric

Easy handling, easy to tighten, additional cutting

Needle holders

Axial handle, ergonomic, stable, O D: 5mm

- Easy Clean System
- Needle self positioning



L-19-561

Needle holder, straight
Ø 5mm, WL: 22cm, axial handle
LL cleaning connector



L-19-563

Needle holder, angled upwards
Ø 5mm, WL: 22cm, axial handle
LL cleaning connector





Special devices - High Frequency Surgery

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



Special devices - Inflator

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

Complete set with video laparoscope - wireless

Basic set without camera system and light source

SET-K-LA-B1

Laparoscopy set, small animals, conventional for standard 2 portal technique complete, but without video camera and light source

consisting of:

- Wide angle telescope 30°/5mm/28cm (T281-5030)
- Safety trocar complete, 5,5mm (231-213V & 231-137V)
- Safety trocar complete, 10mm (230-212V & 230-137V)
- Trocar reducer 10/5 (230-505)
- Veress needle, 10cm (L-19-100)
- Grasping forceps, 5mm
- Metzenbaum scissors, 5mm
- Preparation forceps, 5mm
- CO2 Inflator, electronically monitored 20l (741-025V)



Option:

SET-K-LA-B2

same as SET-K-LA/VA1 + HF vessel sealing, type Atom incl. sealing MIC instrument 5mm

Complete set with video Laparoscope - wireless

SET-K-LA/VA1

Universal Laparo-/Vaginoscope SET, for all laparoscopic approaches in small animals, for 1 & 2/3 portal technique and transvaginal laparoscopy

consisting of:

- LED Video Laparo. 0°/5mm/28cm (TA27-5)
- Working sheath 12mm (STV27-51)
- Safety trocar complete, 5,5mm (231-213V & 231-137V)
- Trocar disposable (TR-60-121)
- Veress needle, 10cm (L-19-100)
- Needle with mini grasping forceps (L-24-23)
- Grasping forceps, 5mm
- Metzenbaum scissors, 5mm
- Preparation forceps, 5mm
- CO2 Inflator, electronically monitored 20l (741-025V)
- 22" receiver/PC/recorder



Option:

SET-K-LA/VA2

same as SET-K-LA/VA1 + HF vessel sealing, type Atom incl. sealing MIC instrument 5mm