

Equine

Dr. Fritz®

Wireless ■ Endoscopes

- Endoscopy of the Nose, Larynx, Teeth
- Dynamic Laryngoscope
- Bronchoscopy
- Gastroscopy
- Laparoscopy / Thoracoscopy
- Vaginoscopy
- Arthroscopy



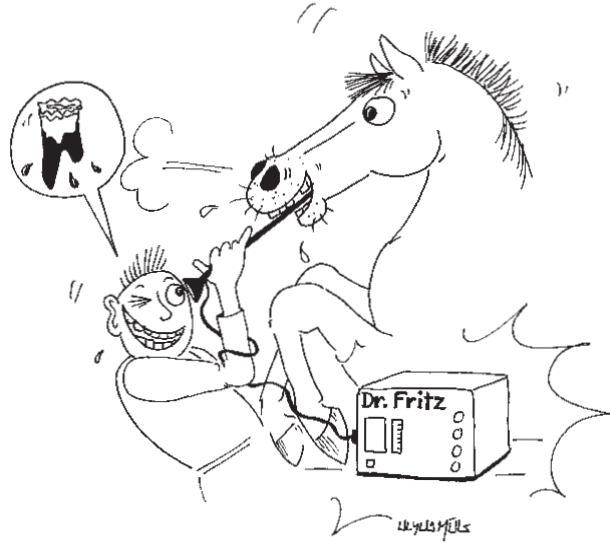
We are changing
veterinary endoscopy

Equine



Endoscopic equipment

Nose, Larynx, Teeth



Endoscopy

for large Animals, Equine, Bovine & Camels.
Nose, Larynx, Teeth.





Dental - Large Animals

special instruments

LED illuminated mirror

for dental and pharyngeal examination in large animals

- With integrated LED light
- Robust
- Easy handling



Standard version D: 50mm

EB-95-5SET

LED Dental mirror Set large

D: 50 mm, WL:49 cm, complete with bag, anti-glare construction

EB-95-3SET

LED Dental mirror Set, small

D: 38 mm, WL:49 cm, complete with bag, anti-glare construction

Special Elevator

- Robust
- Easy cleaning



I-18-538

Special elevator long

D: 3mm, WL:20 cm, strong version

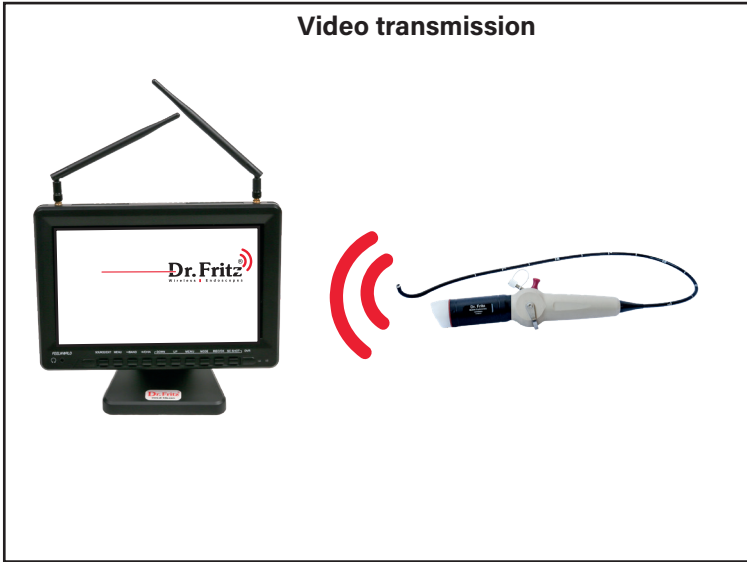


Flexibles LED Video Sinus Endoscope

Wireless video transmission for monitors or PC (<20m)

- Integrated video transmitter
- 2 way deflecting
- 1,8 mm working channel
- Towerless application
- Fully immersible
- Easy and quick reprocessing

Video transmission



TXBH5-76V

Wireless video bronchoscope,

OD: 5,9mm, WL: 75cm

in-built 5,8 GHz sender for wireless video transmission and Li Ion battery resolution (400x400)

Set consisting of:

- Bronchoscope
- Charger
- Cleaning brush
- Density tester, case
- 7" receiver monitor





LED Dentalstick HD „Water Jet“

wireless, digital transmission



Luer connection for manual and automatic flushing

The first dental endoscope with integrated irrigation

- Wireless
- 5,8 GHz sender
- HD video quality
- 3 LEDS for perfect illumination
- Integrated flushing
- Luer connection
- 90° side view und 140° field of vision



Opening for irrigation

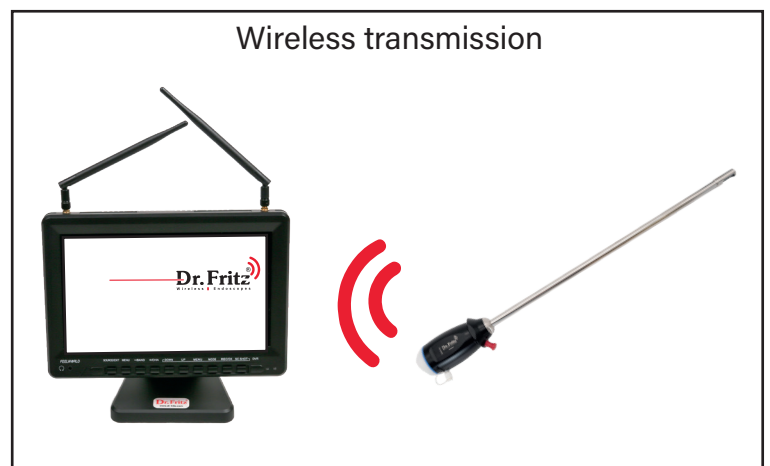
Dentalstick professional HD complete set



TD-92HDS

- Dentalstick HD „Water Jet“ set
- Ø 12mm, NL:46cm, Wireless
 - Cordless high end video endoscope, in-built LED light and 5,8GHz sender
 - rechargeable Li battery, resolution: PAL,HD 1280x720pxs
 - 140° field of vision
 - with integrated flushing
 - Luer connector (f)
- Set consisting of:**
- Dentscope HD
 - Charger
 - Short silicone tube with Luer connection on both sides (m/f)
 - 7" receivers monitor, DVR
 - Case
 - 7" Empfänger-Monitor mit Rekorder
 - Transportkoffer

Wireless transmission



Equine



LED-Dentalstick ECO

wireless, digital transmission

Finally back
in stock!



- Wireless
- 2 LEDs
- 90° side view und 120° field of vision
- With case

■ Dentalstick ECO complete set



TD-93ECS

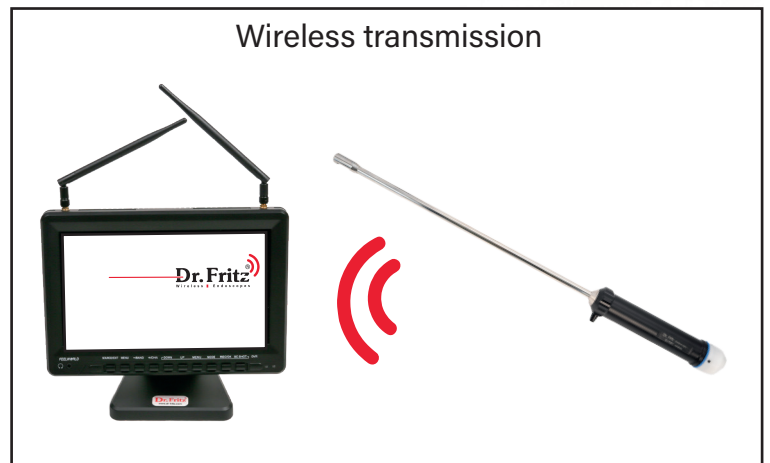
Dentalstick ECO SET

- Ø 14mm, WL:46cm, wireless
- Resolution: PAL 768x756px
- Length: 70cm
- 120° field of vision

Set **consisting of:**

- Dentalstick ECO
- Charger
- 5" Monitor
- Case

Wireless transmission



Equine



Equine Training Laryngoscope

NextGen4 Dynamic and Overground Endoscopy



WIRELESS Training Laryngoscope

- NextGen4 -



Equine Training Laryngoscope

NextGen4 dynamic and overground endoscopy



Left side - laryngoscope



Right side - flushing pump

- ✓ Self-holding fixation
- ✓ Head mounted system
- ✓ Direct video and audio recording
- ✓ No data reduction
- ✓ Wireless video control
- ✓ Flushing pump with control
- ✓ Remote controlled recording and flushing
- ✓ Mucus resistant video head

The dynamic laryngeal examination even easier

Our invention and first publication of an equine training laryngoscope in 2007 was followed by many market requests. Taking our experiences from the first generation, we have developed a completely head mounted and modular system. It will allow even very young horses to be examined.

Additional weight is just 950g on each side of the cheeks. The rider is not involved at all during the exam.

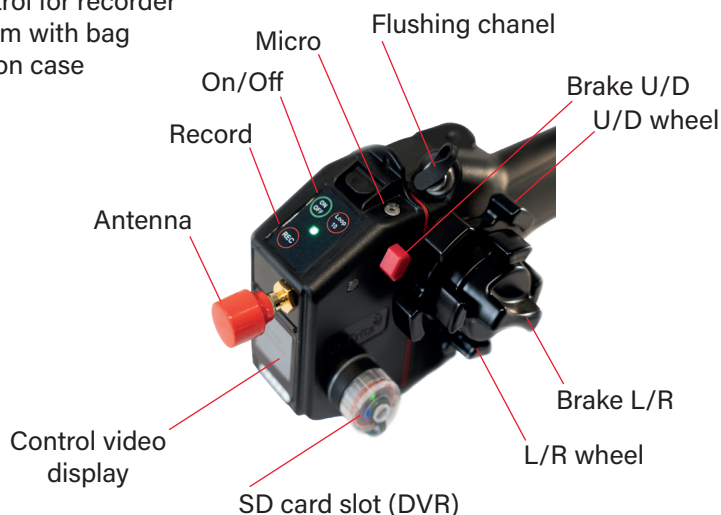
Our recording and video transmission includes automatic audio.

Mounting, fixation and dismounting is fast and uncomplicated.

Service and replacements can be done immediately due to the modular construction.

Set ETL4-86SET

- Trainings-laryngoscope ETL4-86
- Charger
- Flushing pump with control
- 5" video controle unit
- Remote control for recorder
- Holder system with bag
- Transportation case





■ Set ETL4-86SET

Training laryngoscope
OD: 10mm
WL: 1m
(ETL4-86)



Charger
magnetic
(TV27-NET)



Video controle unit
(TXM7-60R-ETL)



Flushing pump
(ETL4-4NS)



Holder system with bag
(ETL4-85HT)



Case for NextGen4
Size: 56x41x11cm
(K-5641-10)



■ Literatur

S.H. Franklin (2009)

Endoscopy of the upper airways during exercise:
Technique and clinical applications.
11th Geneva Congress on Equine Medicine and Surgery.
Geneva(CH), 15-17 December 2009

L-M. Desmaizieres & N. Serraud & B. Plainfosse & A. Michel & Y. Tamzali (2009)

Dynamic respiratory endoscopy without treadmill
in 68 performance Standardbred, Thoroughbred and
saddle horses under natural training conditions.
Equine Vet. J. 41, 347-352

S.H. Franklin & J.F. Burn & K.J. Allen (2008)

Clinical trials using a telemetric endoscope for use
during over-ground exercise: a preliminary study.
Equine Vet J. 40 (7):712-5.

R.M. Fritz (2007)

New possibilities of laryngoscopy in the field.
10th Geneva Congress, 11.-13.12.2007

Equine



Video- Bronchoscope

Professional bronchoscopes - connection for insufflation, irrigation and suction



WIRELESS

Video Bronchoscope

- NextGen4 -

Tips & tricks

Device care for
flexible endoscopes





Video- Bronchoscope

Professional bronchoscopes - connection for insufflation, irrigation and suction



- ✓ Integrated sender for wireless video transmission
- ✓ Integrated video camera with LED light
- ✓ Integrated DVR
- ✓ Ergonomic body
- ✓ Easy handling, quick cleaning and disinfection

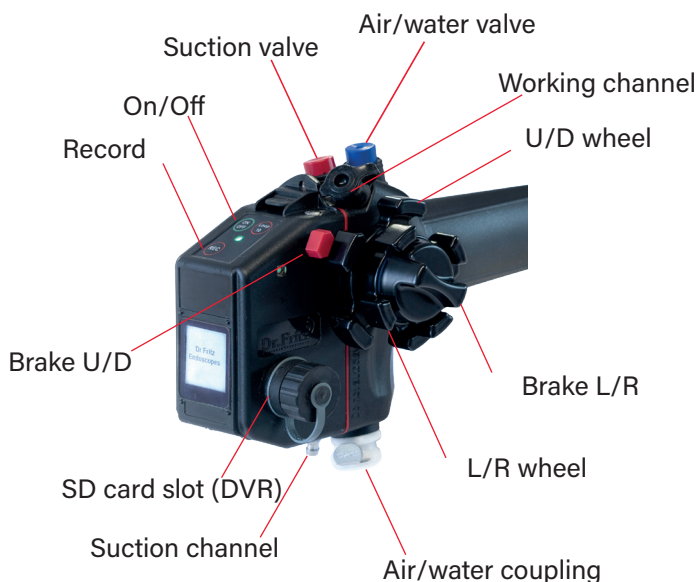
New Generation - NextGen4

- Integrated control display
- Integrated SD card slot
- Fully soakable
- Truly mobile

Item No.	Length	ø	Working channel	Transmission
TG106-8	105cm	7,9mm	2,3mm	wireless
TG136-9	135cm	9,8mm	2,8mm	wireless
TG176-9	165cm	9,8mm	2,8mm	wireless

Set TG176-9B

- Bronchoscope TG176-9
 - Charger
 - Cleaning adapters
 - Cleaning brush
 - Density tester
 - Guttural pouch probe
 - 5" Receiver-monitor, recorder
 - Transportation case
- Optional: wall mount



Wireless HD transmission





■ Set TG176-9B

Bronchoscope
OD: 9,8mm
WL: 1,65m
(TG176-9)



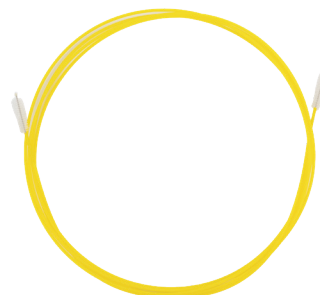
Charger
magnetic
(TV27-NET)



Cleaning adapters
(TW132-24S)



5x Cleaning brush
(F28-280E)



Density tester
(EF-23)



Guttural pouch probe
(F22-22046)



5" Receiver-monitor,
recorder
(TXL2-580M)



Case for NextGen4
Size: 56x41x11cm
(K-5641-10)





Several applications

- ✓ Multi receiver capable



Receiver - monitor



TXL2-580M

5" Receiver-monitor, recorder

- mSD card slot, automatic scan, battery
- With arm strap

TXM7-60R

7" Receiver-monitor, recorder

- mSD card slot, automatic scan, battery

NEW: Time and labelling stamps for patient data

TXM10-58R

10" Receiver-monitor, recorder

- mSD card slot, automatic scan, battery

TXM10-60R

10" Receiver-monitor, recorder

- mSD card slot, automatic scan, battery

NEW: Time and labelling stamps for patient data



M-LCD-22PC

21" LCD PC

- With in-built receiver and recorder

TXL1-7-NO2

Receiver for Apple & Windows

- Incl. USB grabber



M-LCD-21SK

21" Video monitor HD

- With in-built receiver for scopes

TXL1-583

TV receiver for monitor

- Video-Out

TGR-40

Multi HD radio receiver

- HDMI out



Additional equipment

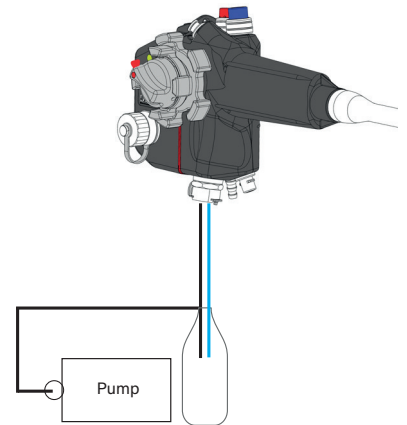
Video Bronchoscope

Air/water pump

For lens cleaning and inflation

TW4-250SE

- Air/water pump (H150-1-1)
- Air/water twin tube (TW4-133)
- Fixation for bottle (TW4-261H)
- Bottle 250ml (TW4-250)

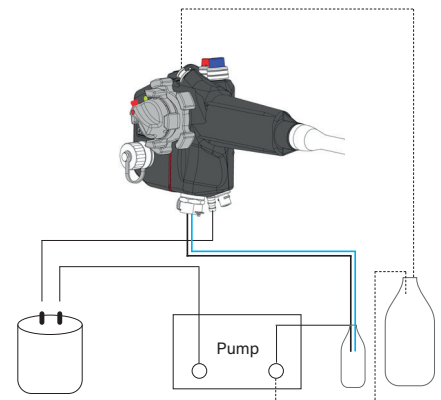


Suction-/irrigation pump

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

H140-3S

- 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)

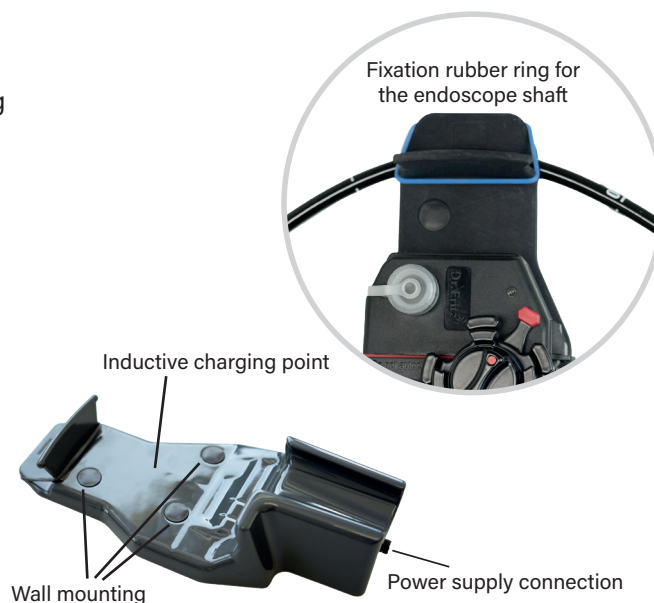


Wall mount

Wall mount for inductive charging
- always ready for use, perfectly
stored and optimally drying.

TGX-25S

- Wall mount
- Power supply
- Mounting material





Additional equipment

Video Bronchoscope

■ Catheter, injection needle, guttural pouch probe



F20-220

Teflon catheter with luer-lock connector
 ▪ OD: 2 mm, WL: 235 cm
 ▪ Autoclavable

F20-219

Spare catheter
 ▪ OD: 2 mm, WL: 10 m
 ▪ Autoclavable

LLW-1220

Luer-lock connector
 ▪ Female OD: 2 mm
 ▪ Autoclavable

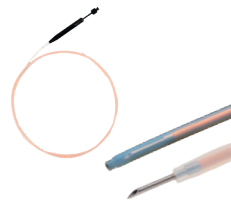


F22-16045

Guttural pouch probe
 ▪ OD: 2,2 mm, WL: 165 cm

F22-22046

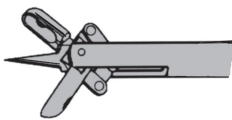
Guttural pouch probe
 ▪ OD: 2,2 mm, WL: 230 cm



F231-220

Injection needle with teflon tube, luer-lock connector
 ▪ OD: 2,2 mm, WL: 235 cm, Needle: 0,9x6 mm

■ Biopsy-grasping forceps, hooks, brush



B22-16011

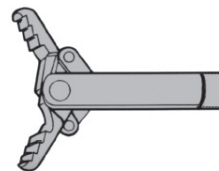
Biopsy forceps with spike
 ▪ OD: 2,4 mm WL: 165 cm

B22-22011

Biopsy forceps with spike
 ▪ OD: 2,4 mm WL: 230 cm

B23-3601

Biopsy forceps with spike
 ▪ OD: 2,3 mm WL: 360 cm



F22-16041

Grasping forceps
 ▪ OD: 2,2 mm WL: 160 cm

F22-22041

Grasping forceps
 ▪ OD: 2,2 mm WL: 230 cm

F23-3604

Grasping forceps
 ▪ OD: 2,3 mm WL: 360 cm



B23-180E

Disposable biopsy forceps steril
 ▪ OD: 2,3 mm WL: 180 cm

B23-230E

Disposable biopsy forceps steril
 ▪ OD: 2,3 mm WL: 230 cm



F23-16042

Grasping forceps „foreign body“
 ▪ OD: 2,3 mm WL: 160 cm

F23-22042

Grasping forceps „foreign body“
 ▪ OD: 2,3 mm WL: 235 cm



Additional equipment

Video Bronchoscope

FK23-1635

Basket size: 4,5 x 6cm

6 wires

- OD: 2,2mm WL: 160 cm



FK23-1637

Basket size: 5 x 10cm

6 wires

- OD: 2,3mm WL: 160 cm

FK23-2035

Basket size: 4,5 x 6cm

6 wires

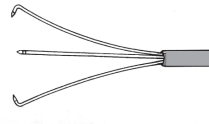
- OD: 2,3mm WL: 230 cm

F22-16040

Grasping forceps

3 hooks

- OD: 2,2 mm WL: 165 cm



F22-22040

Grasping forceps

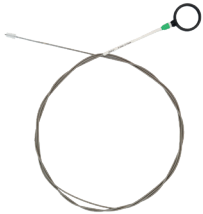
3 hooks

- OD: 2,2 mm WL: 230 cm

F28-1709

Cleaning brush

- OD: 2,6-3,5mm WL: 150 cm



F28-2208

Cleaning brush

- OD: 2,6-3,5mm WL: 230 cm



F28-3008

Cleaning brush

- OD: 2,6-3,5mm WL: 330 cm

F28-280E

Disposable cleaning brush, steril, 10pcs./pack

- OD: 1,8-2,8mm WL: 210 cm

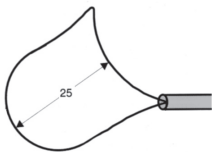


■ For high frequency surgery

SL23-2310

Asymmetric polypectomy snare complete with tube, without handle

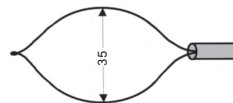
- OD: 2,2mm, WL: 230cm wide: 25mm



SL23-1612

Symmetric polypectomy snare complete with tube, without handle

- OD: 2,2mm, WL: 165cm wide: 35mm



SL23-2312

Symmetric polypectomy snare complete with tube, without handle

- OD: 2,2mm, WL: 220cm wide: 35mm

HF22-1601

Suction-coagulation electrode monopolar, luer-lock connector

- OD: 2,2 mm, WL: 165 cm



HF-301-ER

HF- connecting cord

monopolar, com. to Erbe units 4mm

- Length: 3 m



HF22-2301

Suction-coagulation electrode monopolar, luer-lock connector

- OD: 2,2 mm, WL: 235 cm

HS11-1200

Handle for polypectom, HF snares

- Standard connections





Cleaning accessories

Video Bronchoscope

■ For rigid & flexible endoscopes / instruments

DE-10-702 Dr. Fritz enzymatic cleaning FLEX 1,5 %,
1 x 1 l, 7 enzymes, 0,5%
specially for flexible endoscopes
for daily manual cleaning



DE-10-300 „IP“ Disinfection solution
for flexible and rigid endoscopes, manual and
automated use, 1-3% dilution, 5 litres



■ Option for cleaning of flexible endoscopes in the field



- ✓ Close the lid and ready for transport
- ✓ Fast and easy pre-cleaning after the last examination
- ✓ For semi- or fully automatic cleaning
- ✓ For all flexible endoscope types
- ✓ Usefull in drawer cabinets
- ✓ With airing



Stackable



DE-17-44S Transportation & storage basin
for flexible endoscopes, 50x44x16 cm,
set with cover

consisting of:

- Basin (DE-17-44)
- Cover transparent (DE-17-41)



Hygiene, cleaning and care

Pre-cleaning in the external practice



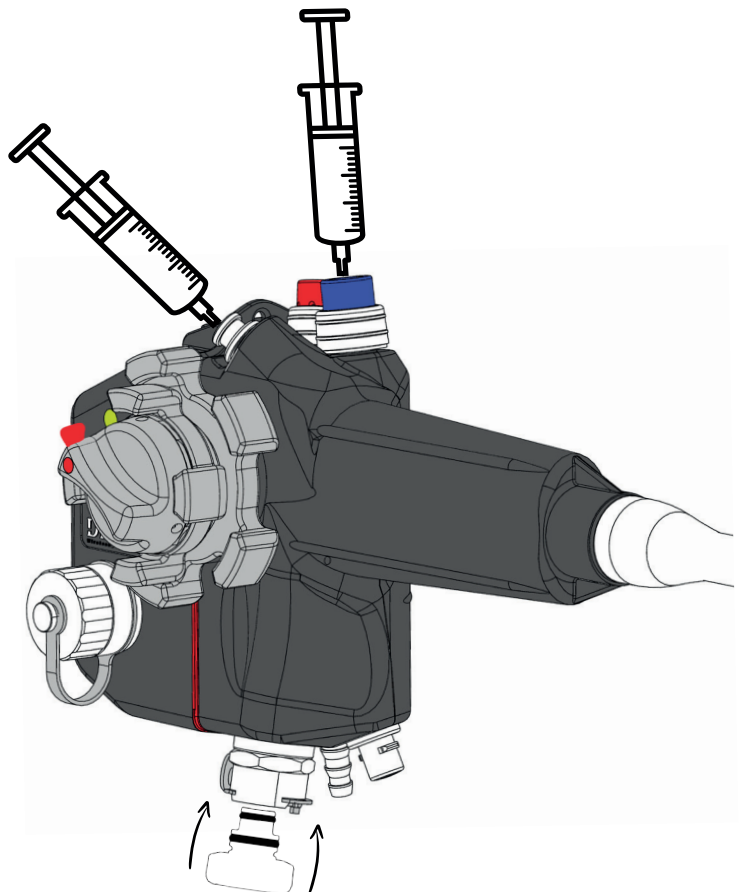
Disinfection without prior pre-cleaning is counterproductive, as it only fixes dirt particles on the surface instead of removing them.

1. Preparation

- Cleaning wipes
- Cleaning solution (DE-10-702)
- Alcohol wipes
- Distilled water
- Syringe
- Gloves

2. Cleaning

- Fill syringe with cleaning solution.
Flush channels through:
 - Air/water valve
 - Working channel
- Soak the cleaning wipe with cleaning solution.
- Wipe the exterior with the soaked cleaning wipe.
Make sure to carefully clean the lens.
- Fill the syringe with distilled water.
Flush channels through:
 - Air/water valve
 - Working channel
- Wipe the exterior with alcohol wipes.
- Fill the syringe with air and flush the channels.



The main cleaning in the evening is essential

Equine



Video- Gastroscope

Professional gastroscopes - connection for insufflation, irrigation and suction



WIRELESS Video Gastroscope

- NextGen4 -





Video- Gastroscope

Professional gastroscope - connection for insufflation, irrigation and suction



- ✓ Integrated sender for wireless video transmission
- ✓ Integrated video camera with LED light
- ✓ Integrated DVR
- ✓ Ergonomic body
- ✓ Easy handling, quick cleaning and disinfection

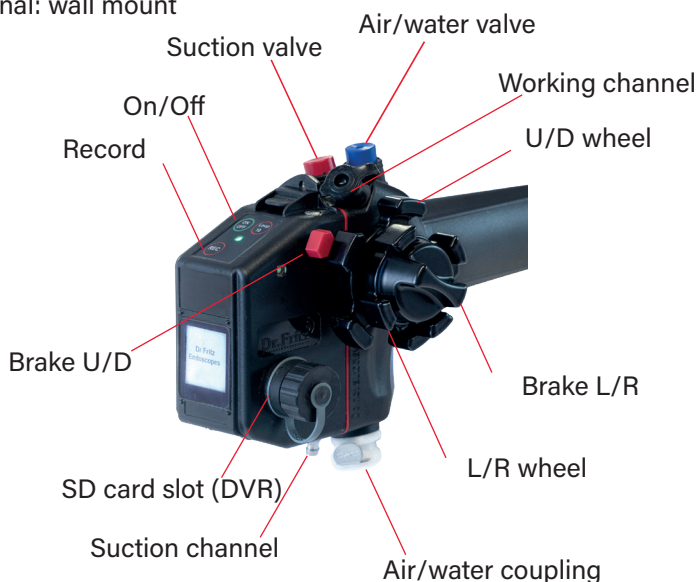
New Generation - NextGen4

- Integrated control display
- Integrated SD card slot
- Fully soakable
- Truly mobile

Item No.	Length	Ø	Working channel	Transmission
TG326-12	320cm	12mm	3,2mm	Wireless

Set TG326-12G

- Gastroscope TG326-12
 - Charger
 - Cleaning adapters
 - Cleaning brush
 - Density tester
 - Biopsy forceps
 - 10" Receiver-monitor, recorder
 - Air/water pump
 - Transportation case
- Optional: wall mount



Wireless HD transmission





■ Set TG326-12G

Gastroscope
OD: 12mm
WL: 3,20m
(TG326-12)



Charger
magnetic
(TV27-NET)



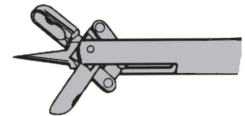
Cleaning adapters
(TW132-24S)



Cleaning brush
(F28-3008)



Biopsy forceps
(B23-3601)



Density tester
(EF-23)



Air/water pump
(TW4-250SE)



10" Receiver-monitor,
recorder
(TXM10-58R)



Case for NextGen4
Size: 56x41x11cm
(K-5641-10)





Additional equipment

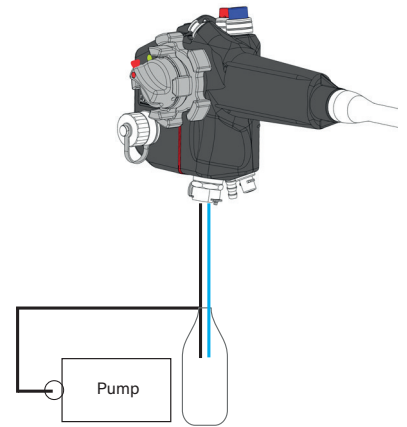
Video Gastroscope

Air/water pump

For lens cleaning and inflation

TW4-250SE

- Air/water pump (H150-1-1)
- Air/water twin tube (TW4-133)
- Fixation for bottle (TW4-261H)
- Bottle 250ml (TW4-250)

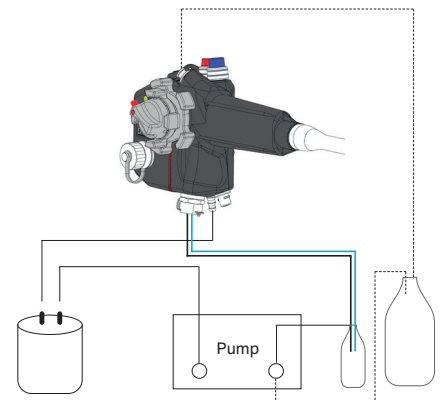


Suction-/irrigation pump

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

H140-3S

- 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)

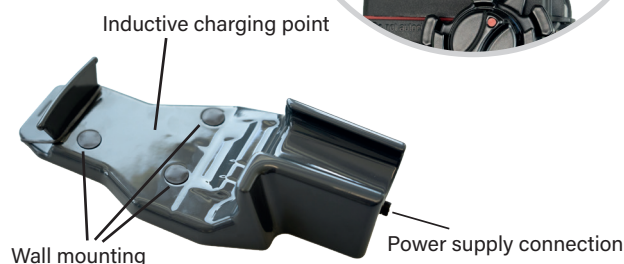


Wall mount

Wall mount for inductive charging
- always ready for use, perfectly
stored and optimally drying.

TGX-25S

- Wall mount
- Power supply
- Mounting material





Cleaning accessories

Video Bronchoscope

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- ✓ With airing



Stackable



DE-17-44S Transportation & storage basin
for flexible endoscopes, 50x44x16 cm,
set with cover

consisting of:

- Basin (DE-17-44)
- Cover transparent (DE-17-41)

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

231-265V



231-161V

Safety trocar only comp. to cannulas

ID:5,5mm, WL: 20cm,
fully dismantable, with cork screw handles

231-161V

231-129

Trocar only

with pyramidal tip for
trocar with ID: 5.5mm, WL:20cm

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)

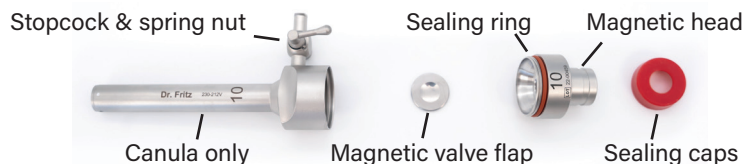
Special trocar acc. to Dr. Marien

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

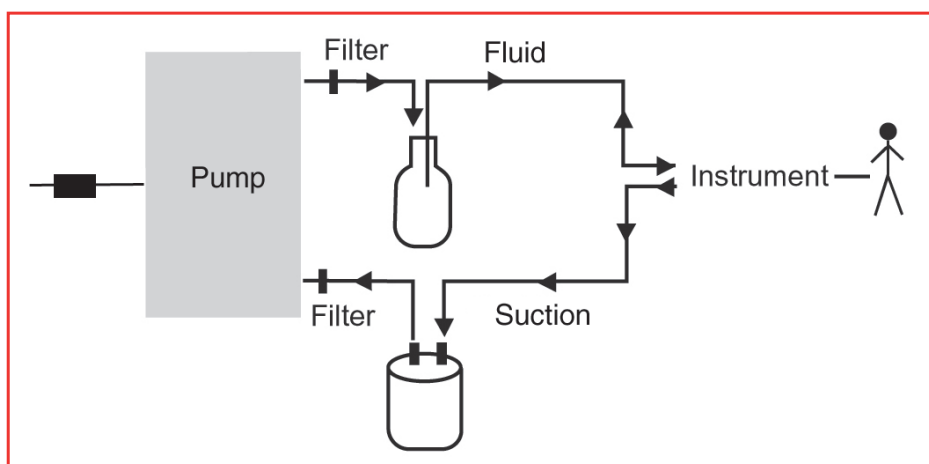


Especially suitable for gastroenterology

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:

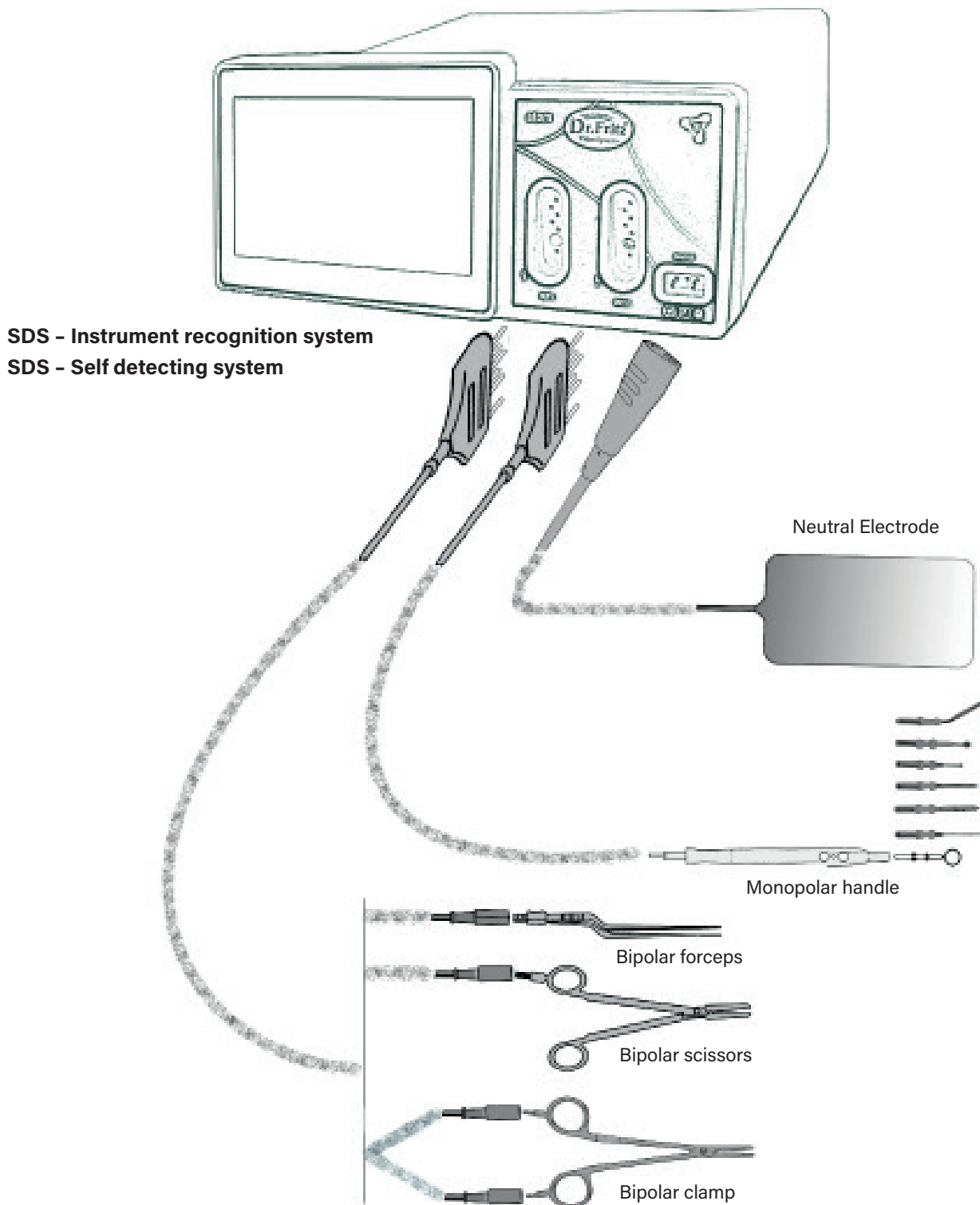
Monopolar	Cutting	400 W
	Coagulation	200 W
	Soft/Forced	+ / +
Bipolar	Cutting	400 W
	Coagulation	200 W
	Auto Start/Stop	+ / +
Bipolar	Thermo-Stapling	+ 300 W
	Thermo sealing	+
	Auto Stop	+
Weight	7 kg	
max. power		420 W



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 –

Equine



Compact Video Vaginoscope

Professional video vaginoscope, wireless, for diagnostic use and treatment



WIRELESS Compact Video Vaginoscope

worldwide, unique and up to now
unmatched easy in practical use



Control display



Battery replaceable

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Dr. Fritz[®]
Wireless Endoscopes



Compact Video Vaginoscope

Professional video vaginoscope, wireless, for diagnostic use and treatment

For practitioners and universities



- ✓ Battery replaceable
- ✓ Control display on the endoscope
- ✓ Integrated sender 5,8 GHz
- ✓ Integrated LED light
- ✓ Easy handling & quick cleaning
- ✓ Fully immersible

Set TQ52-28PF

Compact Video Vaginoscope & speculum for equine. Cordless generation with exchangeable battery, built-in camera with 5,8 GHz radio transmission, LED light, 1,5" display. Both completely soakable when vaginoscope and battery are separated.

- Compact Video Vaginoscope
- Obturator, blunt
- 2 spare batteries
- Charging station
- Charger
- Reducer adapter
- 21" monitor receiver

Accessories to be used as transvaginal laparoscope

TQ52-65

Fornix perforator / cross trocar, 26x570mm. Compatible with TQ52-28PF.

- Trocar & blade guide (TQ52-65-1/2)
- Spare blades, 12 pcs./pack (TQ52-66KL)
- Spare part set, hexagonal wrench, spring, protection caps (TQ52-65ER)



Spare parts

Reducer adapter

for TQ52-28, Luer (fem), cap w.5-10mm (234-211), opening and cover cap (234-600) (TQ52-E)

Scalpel blades

No.20 for trocar TQ52-65, individually packed, 12pcs/pack (TQ52-66KL)



Individual parts TQ52 series

Compact Video Vaginoscope
OD: 28mm , WL: 52cm
fully immersible
(TQ52-28)



Charger
(97-FU14EU)

Charging station
(TVG-4)

Spare Li-Battery
(TVG-36)



Obturator, blunt
(TQ52-281)



Reducer adapter
luer (fem), cap w.5-10mm,
opening and cover cap
(TQ52-E)



Scalpel blades, 12pcs.
(TQ52-66KL)



Fornix perforator/ cross trocar
(SET: TQ52-65)



Case,
Case lid can be used as a
disinfection tray
Dimensions: 84x27x11cm
(Y-K-8427-11-1 /
Y-TQ52-SC)



21" Monitor receiver
incl. recorder & accu
(M-LCD-21SK)





Arthroscopy

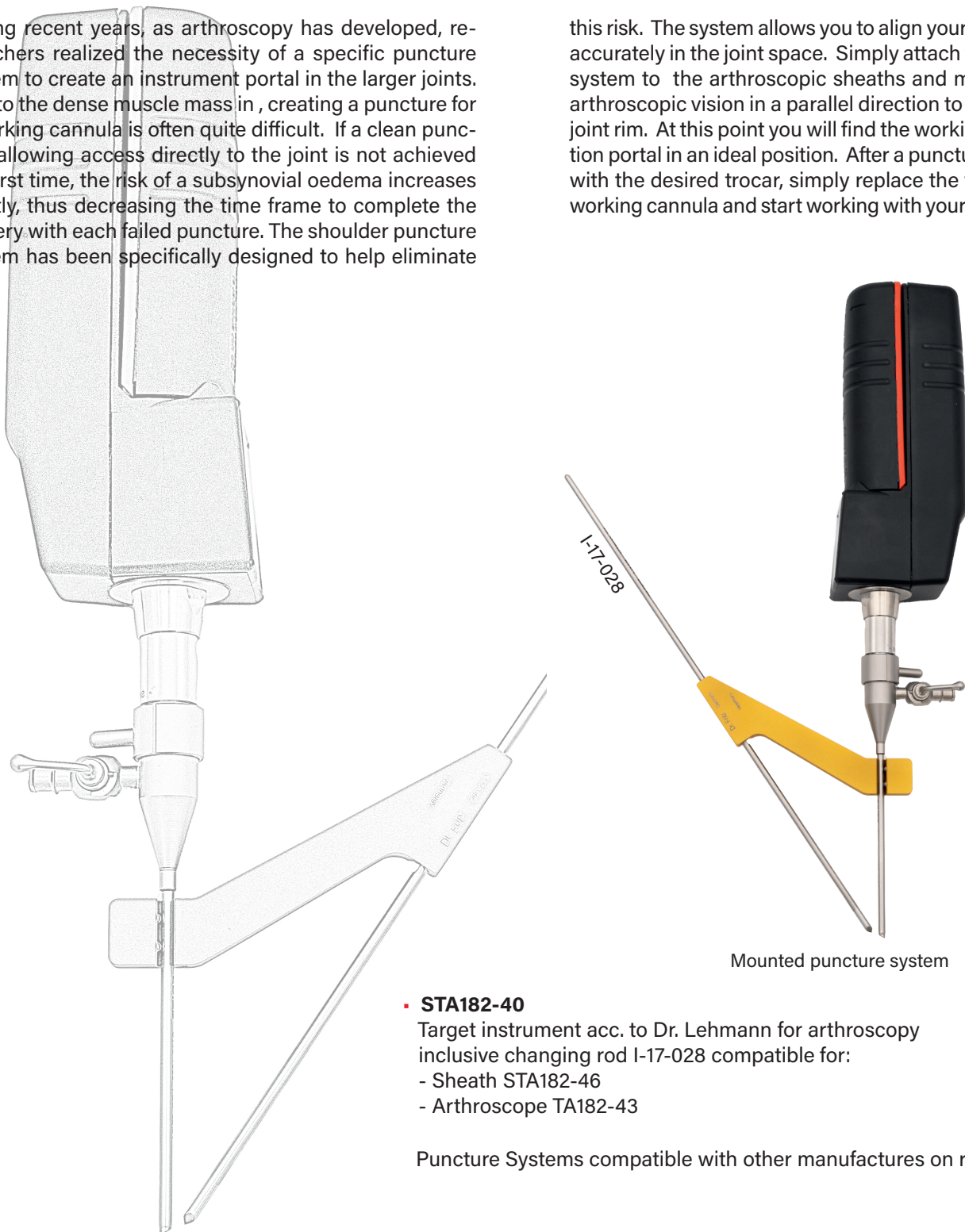
Puncture System acc. to Dr. Lehmann

Innovation in arthroscopy

Developed and tested at the Veterinary Faculty of Vienna, Austria

During recent years, as arthroscopy has developed, researchers realized the necessity of a specific puncture system to create an instrument portal in the larger joints. Due to the dense muscle mass in, creating a puncture for a working cannula is often quite difficult. If a clean puncture allowing access directly to the joint is not achieved the first time, the risk of a subsynovial oedema increases greatly, thus decreasing the time frame to complete the surgery with each failed puncture. The shoulder puncture system has been specifically designed to help eliminate

this risk. The system allows you to align your arthroscope accurately in the joint space. Simply attach the puncture system to the arthroscopic sheaths and maintain your arthroscopic vision in a parallel direction to the shoulder joint rim. At this point you will find the working triangulation portal in an ideal position. After a puncture is created with the desired trocar, simply replace the trocar with a working cannula and start working with your instruments.



▪ STA182-40

Target instrument acc. to Dr. Lehmann for arthroscopy inclusive changing rod I-17-028 compatible for:

- Sheath STA182-46
- Arthroscope TA182-43

Puncture Systems compatible with other manufactures on request.



Arthroscopy

Hand instruments

Dr. Fritz hand instruments are especially designed for large animal arthroscopy

Basic instrument set

- Special design
- Long life span

I-18-520 Hook probe

for arthroscopy, OD: 3mm, WL: 12cm
strong version, heavy handles



I-18-521 Special knife

for arthroscopy, OD: 3mm,
break safe special cut, heavy handles



I-18-601 Curette

straight, strong version, cup oval,
size: 6x4mm



I-18-517 Elevator

extra strong, curved
6mm



I-18-110 Osteotome

straight, 4mm





Arthroscopy

Special hand instruments

- I-18-518 Irrigation cannula with sharp trocar**
stopcock, ID: 3 mm, WL: 7 cm



- I-18-519 Irrigation cannula with sharp trocar**
stopcock, ID: 4 mm, WL: 7 cm



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



- I-18-635 Special curette**
straight, strong version,
oval cup: 5,5 mm, 3 mm opening
and LL(f) suction connector, WL: 12 cm



- Extremely durable
- Easy cleaning
- Bypass opening

- I-18-621 Curette, 35°**
oblique left, strong version,
cup oval, size: 6x4 mm



- I-18-622 Curette, 35°**
oblique right, strong version,
cup oval, size: 6x4 mm





Arthroscopy

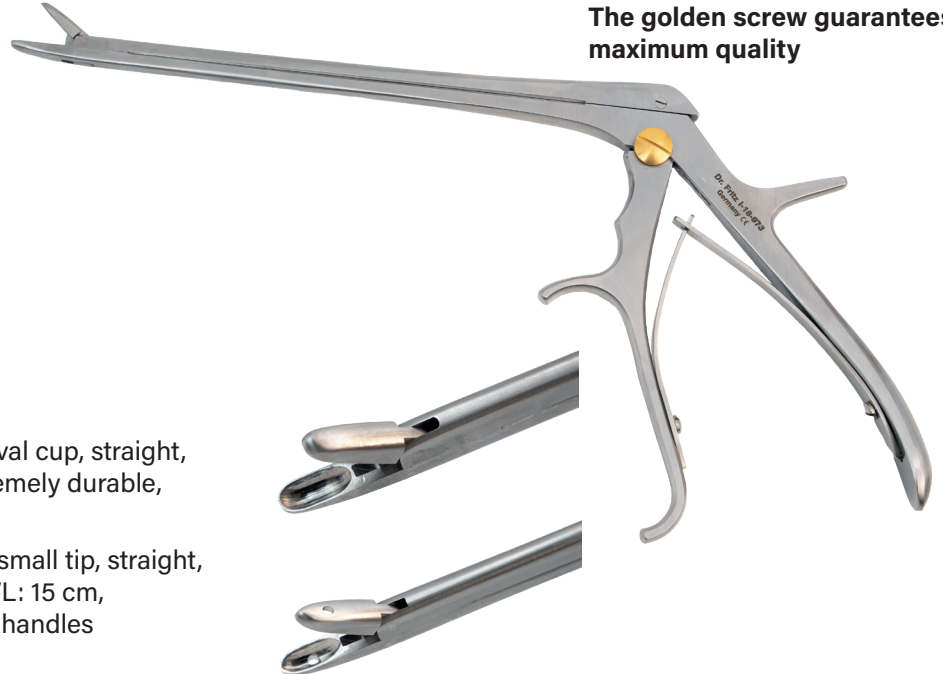
Rongeurs High quality instruments with long life span, extremely durable, especially designed for arthroscopy

Power line, the strong

The golden screw guarantees maximum quality

- Heavy handles
- Extremely durable

- I-18-973** Rongeur "Power line", oval cup, straight, 5x10 mm, WL:15 cm, extremely durable, heavy handles
- I-18-974** Rongeur "Power Linie", small tip, straight, fenestrated, 5 x 10 mm, WL: 15 cm, extremely durable, heavy handles



Instruments for high frequency

Instruments for high frequency

Mono-/Unipolar
HF/RF cutting electrodes, the electric knife

- **HF-200-055**
High frequency connecting cord comp. to arthroscopic cutting electrodes, handles length: 5 m, for units with 4 mm connector



- **HF-200-45**
High frequency cutting electrode for arthroscopy, 45°, fine tip 4 mm connector, 12 cm



- **HF-200-90**
High frequency cutting electrode for arthroscopy, 90°, heavy version 4 mm connector, 12 cm





Arthroscopy

Special hand instruments

- Robust
- Easy cleaning

I-18-536 **Special elevator for the roof joint,**
acc. to Dr. Zöttl, 3mm, WL: 8cm,
strong version



AR-17-19S **Hook knife**
2,7 mm, silicon handle
autoclavable, colour code



I-18-534 **Special elevator for sesamoid fractures**
acc. to Dr. Foerner, 4 mm curved, long



Rongeurs instruments with long life span, extremely durable, especially designed for arthroscopy

■ Standard line, the optimally adapted ones

I-18-662 **Rongeur „standard line“**
cup size: 4x8 mm, oval,
angled upwards, fenestrated
WL: 11 cm

Ideal shape,
angled upwards



I-18-661 **Rongeur „standard line“**
cup size: 4x8 mm, oval, straight,
fenestrated, WL: 11 cm

Jaws tip flat



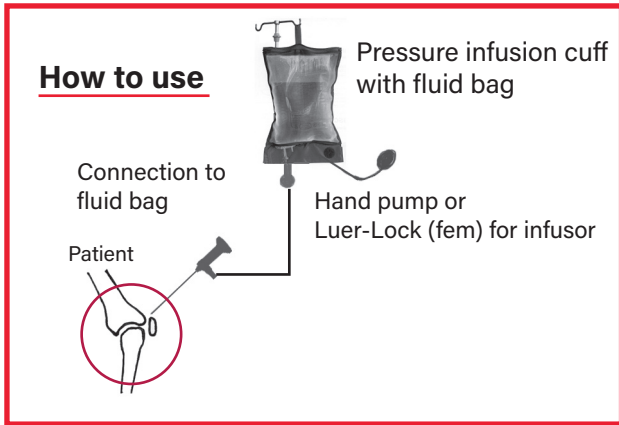


Arthroscopy

Fluid Supply system for arthroscopy

Manual fluid supply system

One of the cheapest options for liquid supply



Pressure Infusion Cuffs



► For high flow fluid supply, please use big infusion tubes

- **AR-08-100N Pressure infusion cuff**
for 500-1000ml with manometer and hand pump reusable high quality manufacturing

Roller pump for fluid supply

Large and small animal arthroscopy



- Quick and easy fluid flow
- Simple speed control
- No disposable accessories

- **ARR-20 Roller pump**
Noise level: max. 50 dBA, very low
Pump type: 3-roller peristaltic
Flow parameters: up to 525ml/min.
Pneumatic foot switch
Weight: 4,4kg
Size: 190 x 230 x 330mm

Automatic fluid supply

The innovative infusion solution for horses

The state-of-the-art system can be effortlessly attached to the horse using a girth strap, allowing the animal to remain fully mobile during the infusion. Particularly practical is the use of the pressure infusor both in the stable and in the operating room: it can be used flexibly without an IV stand, providing added flexibility in the operating room as well as on the premises.

- ✓ **Constant fluid delivery**
- ✓ **Energy free**
- ✓ **No maintenance**
- ✓ **No altitude impact**

■ ARM-10 Mechanical pressure infusor

Dimensions: 337 mm x 252 mm x 116 mm
Weight: 1,8 kg
Infusion pressure: 100 to 200 mbar (depending on the bag size)
Flow range: 0 bis 8,3 litres/hour
(nach ISO 8536-4), 5 litres/hour
Empty rate: 95% bis 100%
Norms: ISO 8536-4 and ISO 28620



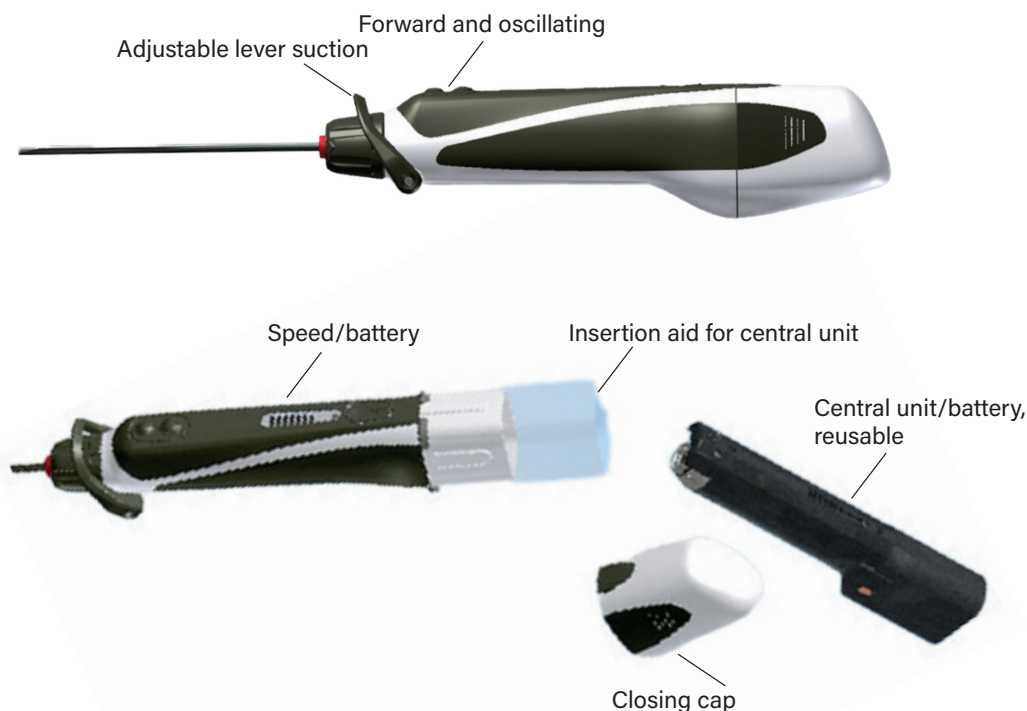
NEW

Equine



Shaver

Cordless single use shaver system for arthroscopy



■ Starter set (SFR-205SET)

Set consistinf of:

- Central unit - motor (SFR-206M)
- Charging station (SFR-205B)
- Burr shaver Ø 4,5mm (SFR-104C)



■ SFR-206M Central unit - motor

The reusable central unit, the heart of the system, is equipped with state-of-the-art electronics and a rechargeable battery. It provides the surgeon with both standard and advanced features: a powerful brushless motor ensures optimal torque for all arthroscopic procedures, while the durable battery supports even the longest surgeries.

- 6000 rpm
- Approx. 40min. runnig time



■ SFR-205B Charging station

The charging station accommodates up to four central units, though the central units (motors) are not included with the charging station. When a central unit is inserted, it is checked by an intelligent control system. A display then indicates the battery's charge status.



NEW

Equine



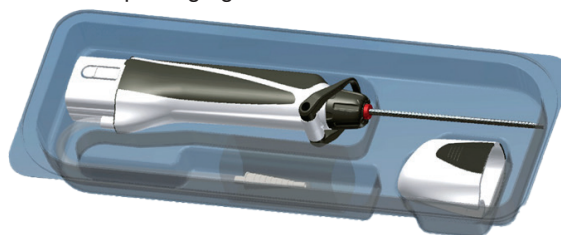
Shaver

Cordless single use shaver system for arthroscopy

■ Disposable shaver

- No preparation or sterilization required
- Ready for immediate use
- Integrated tube connection
- Minimum order quantity: 5 pieces

Sterile packaging



- Aggressive meniscus resection, fast removal of soft tissue during shoulder surgeries.
- Suitable for a combination of soft tissue and bone resection.

Ø	Item No.
3,5mm	SFR-103L
5,0mm	SFR-104L



- Versatile aggressive cutting blade:
Ideal for extensive tissue removal.

Ø	Item No.
2,9mm	SFR-102N
5,0mm	SFR-104N



- Oval Burr:
Fast bone resection.
- Suitable for subacromial decompression.

Ø	Item No.
4,5mm	SFR-104E



- Serrated inner blade and smooth outer blade for effective resection of meniscus, cartilage, and synovium.

Ø	Item No.
3,5mm	SFR-103P



- Ball Burr:
Ideal for notchplasty and osteochondral cleaning.

Ø	Item No.
4,5mm	SFR-104C





Arthroscopy

Accessories

I-18-518



- **I-18-518** Irrigation cannula with sharp trocar stopcock, ID: 2,7 mm, WL: 7 cm, luer connection

AR-10-948



Connection: Fluid bag to arthroscope

- **AR-10-948** Infusion tube, set complete, with needle for sterile bags/bottles, Luer-Lock (m), silicon, 6x2 mm, 3 m, large inner diameter, autoclavable
- **X-7-20-10** Spare infusion tube, silicon, 1 m, size: 6 x 2 mm, color: natural
- **AR-10-9** Spare needle for infusion bottles/bags ID: 4 mm compatible to tubes ID: 3,5-5 mm
- **LLM-1258** Spare Luer-Lock connector male, 10 mm

AR-10-9



Camera covers

- **DE-10-25** Camera covers, disposable, 1pcs. polyethylen, 13x250 cm minimum order 25 pieces



DE-10-25



Cleaning accessories

- **DE-5-17** Cleaning brush for small cannulas with ID: 2-4 mm, WL: 17 cm



- **DE-10-300** Disinfection concentrate IP for rigid and flexible endoscopes. For manual and automated use, 1-3%ige dilution, 5 litres



- **DE-10-425** Soak basin for chemical solution disinfection, consisting of basin (perforated) tray&cover for basin, size: 42x16x9,5 cm





Arthroscopy

Accessories

Video cart

Completely mounted

- ✓ 50cm unit size
- ✓ Camera fixation knob
- ✓ Drawer
- ✓ Ask for additional accessories

WV-54043 **Video cart**, H: 143 cm

size: 62x63 cm, completely mounted, basic version,
color: grey, partly blue,
**drawer inbuilt
**fixation knob for video camera head
**specially rust protected
max. weight: 150kg/330lbs

(Gastroscope bracket, fixation system. devices
and monitor are separate accessory)



WV-54043

WV-53022 **Video cart**
as above but height 110 cm (without pictures)

WV-45111 **Video cart**, H: 112 cm,

size: 54x58cm,
completely mounted, basic version,
drawer inbuilt with handle
max. weight: 50kg/110lbs
max. unit size: 45cm
color: grey, partly blue,



WV-45111

Accessories for Video cart

WV-99619 **Fixation system for infusion bottles**
mounting set

WV-99618G **Gastroscope mount for Dr. Fritz TG series**
inductive charging, with telescope rod

WV-01601 **Fixation system for CO₂ bottles**
mounting set, comp.to video carts
for 5-10 litre bottles, max OD: 14,5 c

WV-02851 **Fixation system for CO₂ bottles**
mounting set, comp.to video carts
for big bottles, max OD: 20,5 cm



WV-99618G

Equine



OP Equipment

EquiPorter

EquiPorter®

by F. Schlöderer & R. Fritz

www.equiporter.com



- the EquiPorter Pre OR safety sling -



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Dr. Fritz®
Wireless Endoscopes



OP Equipment

EquiPorter

■ Pre OR safety Sling

A new development of a protection and handling sling system for equine general surgery

- To be mounted before surgery
- To take down patient during sedation and anesthesia
- To handle during surgery
- To assist during recovery/standing after surgery



EquiPorter®
by F. Schlegel & R. Fritz www.equiporter.com



4 point carrying frame



On-load operation



Belt elongation

- Easy mounting
- 4 point lifting/carrying system
- Individually adjustable
- Two sizes
- Washable

EP1-6170S

Pre OR safety belt, 170cm,
small, max.weight: 600kg
set incl.bag, washable (EP1-63)

EP1-6140S

Pre OR safety belt, 150cm,
small, max.weight: 500kg
set incl.bag, washable (EP1-63)

EP-R-63S

Carrying frame for OR safety belt
set with foam buffer,safety hooks, max. weight: 750kg
size: 101 x 40 x 15cm, 8,5kg



In combination with a 4 point carrying frame it will be
an ideal safety accessory for any
equine hospital with typical hoisting cranes

