# EQUINE



### Equine, Bovine, Camels - Large Animals

### Equipment for endoscopic examination of teeth in field practice



### Dental - Large Animals

#### special instruments

LED illuminated mirror for dental and pharyngeal examination in large animals.

- with integrated LED light
- robust
- easy handling



EB-95SET LED Dental mirror Set, large D:50mm

D: 50 mm, WL:49 cm, complete with bag

anti-glare construction

Small version D:35mm EB-95-3SET

LED Dental mirror Set, small

D: 38 mm, WL:49 cm, complete with bag

anti-glare construction

#### Spezial Elevator

- -robust
- -easy cleaning



I-18-538

Special elevator long 3mm, strong version, WL: 20 cm



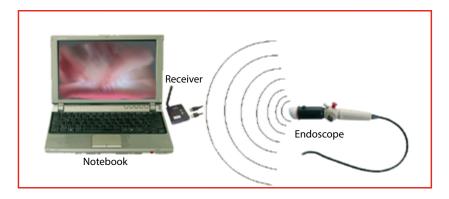
## Flexible LED Video Sinus Endoscope, wireless

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

- Integrated video transmitter
- 2-way defecting
- 1,8mm working channel

- towerless application
- fully immersible
- easy and quick reprocessing

#### Sheme video transmission

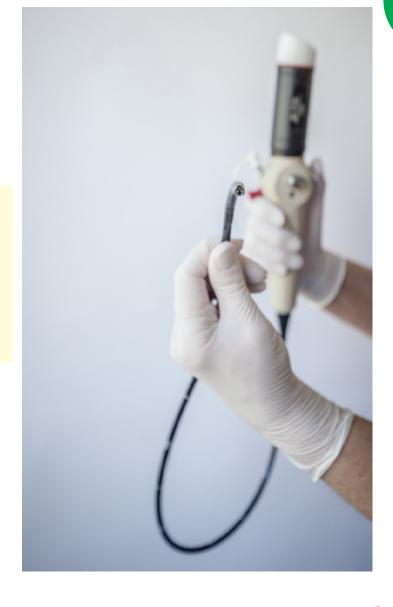


#### TXBH5-76V

Wireless video bronchoscope, 5,9mm, 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



2022

### **LED-Dentalstick ECO**

#### wireless, digital transmission

Dental camera set 90° with LED light and cordless video transmission up to (<20m) for field practice







- wireless, uncomplicated
- 5,8 GHz digital radio best video quality
- perfect illumination
- easy to clean
- robust
- optimum cost/ benefit factor

#### **Dentalstick ECO SET**



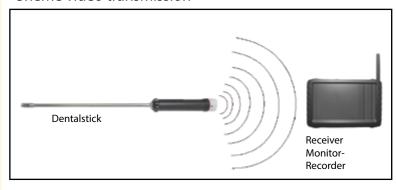
#### TD-93ECS

Set Dentalstick, ECO, wireless, 90° SET, OD:14mm, 120° field of vision, WL: 46cm, with LED light & sender, resolution: PAL 768x576

Set complete consisting of:

- Dentalstick ECO
- charger
- 5,8 GHz receiver/Mo/DVR
- case

#### Sheme video transmission



compatible, receiver, monitor, recorder s. page 115



### LED-Dentalstick HD

#### wireless, digital transmission

Dental camera Set 90° with LED light and cordless video transmission up to (<20 m) - for specialised practices and universities.





TD-91HDS

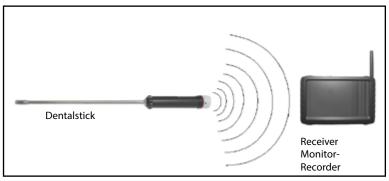
OD:12mm, 140° field of vision, WL 46cm

resolution PAL HD 1280x720 integrated LED light & sender

Set complete consisting of:

- Dentalstick HD
- charger
- 7" receiver/Mo/DVR
- case

#### Sheme video transmission



compatible, receiver, monitor, recorders. page 115

Dr. Fritz

### Equine, Bovine, Camels, Large Animals

LED video bronchoscope for examination of the respiratory system and the GI tract



Bronchoscopy and Laryngoscopy for large animals



# wireless

#### LED Video Bronchoscopy/Laryngoscopy

professional bronchoscopes for all applications in field practice and clinic. Connections for insufflation, irrigation, sugtion - wireless video transmission



- gastroscope with integrated video camera with LED-Light
- integrated sender for wireless video transmission
- perfect video presentation with the owners
- high resolution
- easy handling, quick cleaning and disinfection
- 4-way deflecting



#### **LED Video Bronchoscope SET**

TXHD175-10B Wireless HD bronchoscope, 9,8mm,165cm, Set

in-built LED light and 5,8GHz sender

PAL 1080p resolution, working channel: 2,8mm

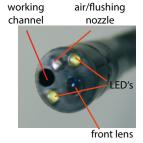
- 4-way deflecting, fully immersible,
- \*\*\*in-built LI ion accu

Set complete with:

- charger 115-240VAC,50/60Hz
- density tester
- cleaning brush
- cleaning adaptors
- transportation case
- flexible gutteral pouch probe
- 5" monitor/recorder/receiver (TXL2-580M)

TXHD136-9B

Wireless HD bronchoscope, Set as above but 135 cm, 9,8 mm,





#### Overview:

Sizes:	
Item No. Lenght: Ø Working channel: Resolutio	n
TXHD106-8B 105 cm 8,0 mm 1,8 mm HD	
TXHD136-9B 135 cm 9,8 mm 2,8 mm HD	
TXHD175-10B 165 cm 10,0 mm 2,8 mm HD	



#### Accessories



EF-18 Density tester comp. to flexible video gastro-/colonoscopes,



RH99-56 Cap for instrument channel, bag with 5 pcs



F28-1709 Cleaning brush, flexible, 160cm for working channels 2,2-3mm







TW4-250 Air/water bottle, 250ml for LED video-broncho/ gastroscopes, autoclavable

TW4-133 Air/water twin tube, 2,6m, complete with couplers for TW/TX series

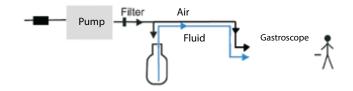
ZU-1508 Fixation Clip for flexible instruments, bag with 5 pcs

#### Recommended additional equipment

#### Small air pump

for lens cleaning and inflation





TW4-249

Air pump and holder, for air/water supply in LED gastroscopes, consisting of: pump TW4-240 and holder TW4-250H

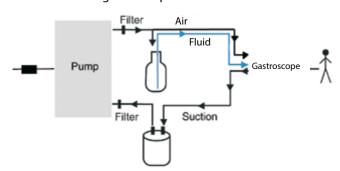
#### Suction-/irrigation pump - the perfect combination for the small and large animal practice -

for lens cleaning, inflation and suction

- low noise and soft pressure system
- · easy handling
- separate combined use of suction and air pressure



- specially designed for suction, irrigation instruments and gastroenterology -



H140-35 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- 230VAC; 50/60Hz

AR-10-922 Sterile filter for CO<sup>2</sup> infusor and air with ID: 4-6mm, disposable, 50pcs/boxs





 $\hbox{Dr. Fritz Endoscopes $www.dr-fritz.com} \cdot \hbox{dr.fritz@dr-fritz.de}$ 

#### Accessories



		Catheter, injection needle
Q	F20-220 F20-219 LLW-1220	Catheter for gastro fiberscopes, Teflon, OD:2mm, WL:235cm, LL(f) connector, dismantable, autoclavable Spare catheter for gastroscopes, Teflon, OD:2mm, 10 m, autoclavable Luer-Lock connector, female,2mm,
0	F22-16045 F22-22046	Flexibel guttural pouch probe, OD: 2,2 mm, WL: 165 cm Flexibel guttural pouch probe, OD: 2,2 mm, WL: 230 cm
	F231-220	Flex. injection needle, OD:2,2 mm, 240 cm, Teflon tube, needle size: 0,9x6mm, LL(f)



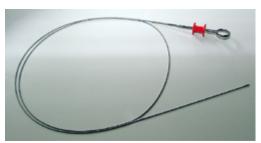
### Accessories for RF/high frequency surgery

0	HF22-2301	Suction-coagulation electrode, flexible monopolar, Luer-Lock connector, 2,2 mm, 235 cm
25	SL23-2310	Polypectomy snare, complete with tube, OD:2,2 mm, WL:230 cm, asymetric snare, 2,5 cm wide, without handle,
	SL23-2312	Polypectomy snare, complete with tube, OD:2,2 mm, WL:230 cm, symetric snare, 35 mm wide, without handle,
	HS11-1200	Handle for polypectomy/high frequency snares, standard connections, autoclavable
	HF-301-ER	High frequency connecting cord, 3 m, monopolar, comp.to Erbe units (4mm type)

see section HF-deveices from side 173



#### Accessories



#### Biopsy/grasping forceps



article no. B22-16011 Biopsy forceps B22-22011 with spike B23-3601	Ø (mm) 2,2 2,2 2,3	length (cm) 170 230 360	
F22-16041 Grasping	2,2	165	
F22-22041 forceps	2,2	230	
F23-3604	2,3	360	
F22-16040 Grasping	2,2	165	
F22-22040 forceps	2,2	230	
F23-16042 Grasping	2,3	165	
F23-22042 forceps	2,3	220	
FK23-1635 Basket, 6 wires	2,2/4,5x6cm	165	
FK23-1637 Basket, 6 wires	2,2/5x10cm	165	
FK23-2035 Basket, 6 wires	2,3/4,5x6cm	230	
B23-180E Biopsy forceps, flexible, B23-230E Biopsy forceps, flexible spoon oval sterile, dispoable, 10p	2,3 2,3 ocs/pack	180 230	



F28-1709	Cleaning brush, flexible	2,6-3,5	160
F28-2208		2,6-3,5	230
F28-3008		2,6-3,5	330



F28-280E Cleaning brush, flex., 230cm, disposble f. channels 1,8-2,8mm, 10pcs/pack \*\*\*no returnshipment possible

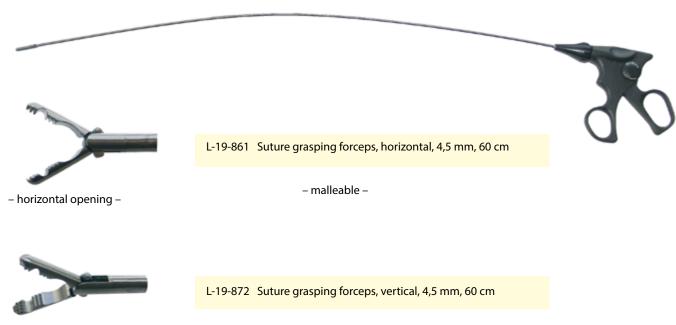
Please do only use high quality flexible instruments. Cheap quality instruments are the risk of damaging your scopes.



#### Accessories

#### Laryngoscopy grasping forceps

Surgical and laser applications



- vertical opening -

– malleable –

# Transportation & storage basin for flexible endoscopes





DE-17-44S

Transportation & storage basin for flex. endoscopes, 50x44x16 cm, set with cover consisting of: basin (DE-17-44) cover transparent (DE-17-41)

stackable

### Cleaning

#### recommendations for field practice

Intermediate cleaning after every use during the day.
Full cleaning and disinfection is mandatory in the evening!



1. Preparations:

- 1 Dr. Fritz enzymatic cleaning FLEX
- 2 alcohol
- 3 syringe
- 4 gloves
- 5 protection cloth







2. Clean scope outside with damp cloth and cleaner (Dr. Fritz enzym cleaner FLEX), diluted as instructed, moisten.



3. Make sure not to forget distal end and front lens



4. Fill syringe with cleaning solution



5. Flush channels (A) via air/water valve and (B) the working channel



6. Wipe scope outside with damp cloth see no.2

9.



7. Fill syringe with alcohol solution



8. Flush channels with alcohol solution (see no.5). Afterwards fill syringe with air and press it through the channels to dry and to remove alcohol.



9. For transportation store your scope within a protection cloth or film. Use a cotton tissue gaze for the distal tip of the endoscope to collect rest water

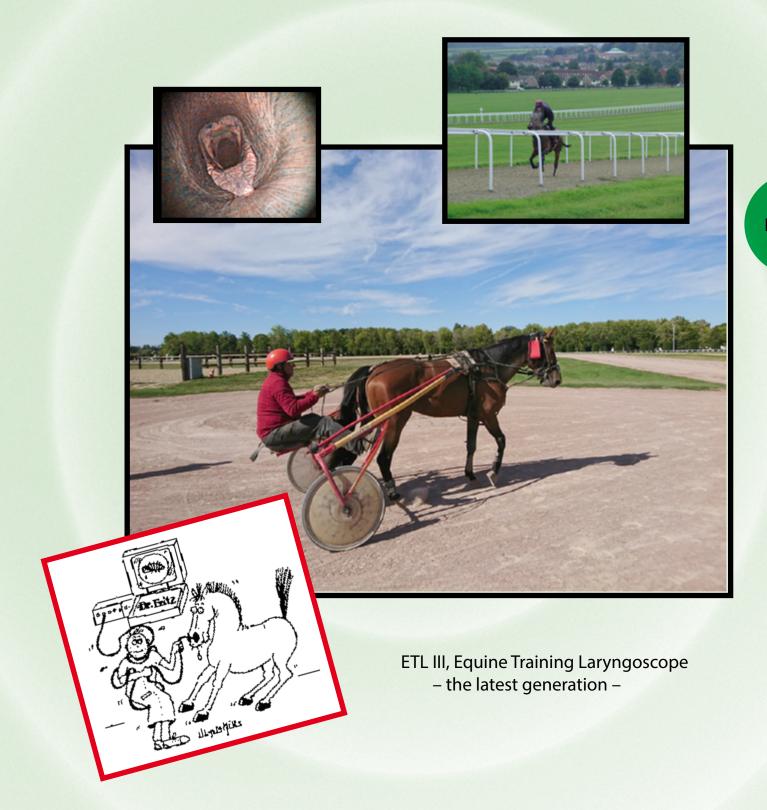
During main reprocessing please follow the instructions of the manufacturers!



## Equine

### Dynamic and Overground Endoscopy







#### **Equine Training Laryngoscope**

#### ETL III - the third generation -

Head Mounted Overground Laryngoscope – Our invention and first publication of an equine training laryngscope 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 with the latest LED technology. 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.

- self-holding fixation
- mucus resistant video head
- head mounted system
- video and audio recording
- · direct video processing and recording
- no data reduction
- remote controlled deflecting
- wireless video control
- flushing pump (manual/automatic)
- manual flush via syringe







ETL 3, training laryngoscope, set,

for dynamic endoscopy, head mounted system,

complete

in 1 carrying case & bag, consisting of:

ETL3-80 Equine Training laryngoscope

ETL3-81 Recorder ETL3-84 Controle unit

ETL3-84HT Halter system, universal



Sensor: 1/6" CCD Color Chip Resolution: 752x582 active pixel

Recorder: full resolution recording, no reduction

Format: AVI

Battery: Lithium Ionen Accu

Video sender: 2,4Giga Hz, coverage e 600-1000m

Operating time: 3,5h Charging: 8h



Right side - Recorder



Halter system (ETL2-82HR)

Left side -Laryngoscope



### Ē

### Equine Training Laryngoscope

#### ETL II - the third generation -

ETL3-80 LED-training laryngoscope, ETL 3

WL:1m; OD:10mm flushing nozzle 900g, transportation case



ETL3-81 Digital data & video recorder for ETL 3, mircophone and IR sensor integrated

USB3 drive slot



ETL3-84 Video controle unit, built-in

monitor and battery,

complete with charger (110-230VAC),



ETL3-84HT Halter system for ETL 3, universal size

including washable bag (without picture)

ETL3-84TA Bag for ETL halter, washable



Ask for service contact or a permanent rental options



#### **Equine Training Laryngoscope**

#### ETL III - the second generation -





ETL3-80SET ETL 3 Equine, training laryngoscope, Set, complete in case and separate bag for halter, (see page 2+3)

#### Literatur:

FRANKLIN, S.H. (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

DESMAIZIERES, L-M., SERRAUD, N., PLAINFOSSE, B., MICHEL, A., AND TAMZALI, Y. (2009)

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

FRANKLIN, S.H., BURN J.F., ALLEN, K.J. (2008) Clinical trials using a telemetric endoscope for use during over-ground exercise: a preliminary study. Equine Vet J. 40 (7):712-5.

FRITZ, R.M. (2007) New possibilitis of laryngoscopy in the field. 10th Geneva Congress, 11.-13.12.2007



### Equine, Bovine, Camels, Large Animals

Flexibel LED endoscope for examination of the respiratory system and the GI tract





### **LED Video Gastroscopy**

wireless video transmission (<20 m)



- gastroscope with integrated video camera with LED-Light
- integrated sender for wireless video transmission
- perfect video presentation with the owners
- high resolution
- easy handling, quick cleaning and disinfection
- · four way deflecting





#### **LED-Video-Gastroscopes SET**

TXHD326-12G LED video gastroscope, wireless set, 12mm, 320cm,

in-built LED and 5,8Ghz PAL sender,

PAL 1080p resolution, working channel: 3,2mm

4-way deflecting, fully immersible,

\*\*\*in-built LI ion accu

including:

- charger 115-240VAC/50/60Hz
- density tester
- cleaning brush
- cleaning adaptors
- transportation case
- biopsy forceps, 360cm (B23-3601)
- 250ml water bottle with air/water double tube, air pump and holder
- 10" receiver/monitor/recorder



#### Overview:

Sizes:

Item No. Lenght:  $\emptyset$  Working channel: Resolution

TXHD326-12G 320 cm 12,0 mm 3,2 mm Video





 $\hbox{Dr. Fritz Endoscopes $www.dr-fritz.com} \cdot \hbox{dr.fritz@dr-fritz.de}$ 

## wireless

#### LED Video Gastroscopy

#### Video transmission:



#### Receiver, Recorder, Monitor:



TV receiver

TXL1-7-NO2
Receiver Notebook/PC



TXL2-580M Receiver/Monitor



TXM7-58R Receiver/Monitor/Recorder



TXM10-58N Receiver/Monitor



TXM10-58R Receiver/Monitor/Recorder

#### Receiver for TV/Monitor:

TXL1-584R TV receiver&recorder, 5,8GHz,

only, standard,

for TX/TD/TX series, video outlet: VHS/FBas, 60g, power supply: 115-240VAC/50/60Hz

#### Receiver for Notebooks/PCs:

TXL1-7-NO2 Receiver, 5,8GHz with USB cable

for notebooks and PCs, incl. grabber,

with USB power supply,

\*\*\*installation by the customer

#### Monitors with integrated receiver:

TXL2-580M Monitor 5" receiver&recorder, 5,8GHz

for TXL/TXE series, video capture to micro SD card, LI battery, incl. arm strap, charger, outlets: video out/FBas

130x90x16mm, 200g

TXM7-58E Monitor 7" with 5,8GHz receiver, DVR

for TXL/TXE series, size:195x135x60mm,

auto san, mSD card slot, power supply, 350g,

video out/FBas, capacity: 2 hours,

(without picture)

TXM7-58R Monitor 7" like TXM7-58E but with recorder

TXM10-58N Monitor10" with 5,8GHz receiver,

for standard endo cameras & radio endoscopes, 4:3 format, 2,3kg, auto san,

1x video out, HDMI in/out, gimbal brackets, power supply

TXM10-58R Monitor10" with 5,8GHz receiver, DVR

for TXL/TXE series, size: 260x180x40 mm, auto san, rech. battery charger, 160g,

video out/FBas



### LED Video Gastroscopy

#### Accessories



EF-18 Density tester comp. to flexible video gastro-/colonoscopes,



TW4-250 Air/water bottle, 250ml for LED video-broncho/ gastroscopes, autoclavable



THE HIROROGE

RH99-56 Cap for instrument channel, bag with 5 pcs



TW4-133 Air/water twin tube, 2,6m, complete with couplers for TW/TX series

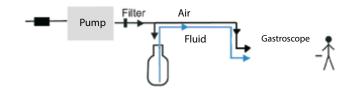
F28-1709 Cleaning brush, flexible, 160cm for working channels 2,2-3mm

#### Recommended accessories

#### Small air pump

for lens cleaning and inflation





TW4-249 Air pu

Air pump and holder, for air/water supply in LED gastroscopes, consisting of:

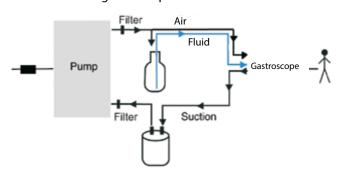
pump TW4-240 and holder TW4-250H

#### Suction-/irrigation pump – the perfect combination for the small and large animal practice –

for lens cleaning, inflation and suction



- · easy handling
- separate combined use of suction and air pressure





- specially designed for suction, irrigation instruments and gastroenterology -

H140-3S

AR-10-922

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- 230VAC; 50/60Hz

Sterile filter for CO<sup>2</sup> infusor and air with ID: 4-6mm, disposable, 50pcs/boxs





### Equine, Bovine, Camels

Endoscopes and instruments for laparoscopic/thoracoscopic surgery



### Laparoscopes for minimally invasive surgery

#### Endoscopes for diagnostic and surgical laparoscopy

#### Video Version

(WL: 50 cm)

- wireless video transmission
- ideal for the mobile surgery
- compatible with standard endoscopes
- perfect HD image
- fully immersible
- easy handling
- battery operated (1h)
- magnetic self positionig connector





power adapter

Video transmission

TS50-10SET

Video laparoscope HD, 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, resolution: 1920x1080pxs fully immersible

Set consisting of:

- video laparoscope (TS50-10)
- power adapter (TV27-NET)
- 10" monitor receiver (TXM10-58N)
- USB HD recorder (PC-97-HDE)



magnetic self positioning connector

#### Standard version

(WL: 50 cm)

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



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

T501-1000

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

#### Laparoscopes for minimally invasive surgery

#### 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.

#### Safety trocar







tissue pressure exposis the sharp tip



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





#### Trocar cannulas with magnetic valve, safety trocars



#### Inner diameter 10 mm

(for optical and 10 mm instruments)

230-264V Cannula only, magnetic valve, ID:10 mm, WL:20 cm, inflation stopcock

230-161V Safety trocar only compatible to cannulas ID:10 mm, WL: 20 cm, fully dismantable with cork screw handles

#### Inner diameter 16 mm

(for stapler and tissue extraction or biopsies)

635-203 Cannula only, magnetic valve, ID:16 mm,

WL:15 cm, Trinox, without stopcock

235-111 Trocar only with sharp tip for trocars ID: 16 mm, WL: 15 cm

#### Accessories

230-505	Reducer adapter for trocars from 10 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 8/10/11/13 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, 16 cm, without valve including cannula (TR-250) sharp trocar (TR-23)





 $\hbox{Dr. Fritz Endoscopes $www.dr-fritz.com} \cdot \hbox{dr.fritz@dr-fritz.de}$ 

### 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-210 Injection cannula, spare needle, thin size:1x26 mm, compatible to L-33/47; 2pcs.

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

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

\_-47-210 Injection system and probe, 5mm, 47cm protected interchangable needle with outer tube, complete, consisting of
L-47 inside tube, LL(f) connector
L-47-2 outer tube/probe
L-210 needle, 1 pc. (1x26mm)

#### Knot tier

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



Easy handling, easy to tighten, additional cutting



Ask for the newest addition and instruments



### Laparoscopy / Thoracoscopy

#### Standard Instruments 5 mm

#### **Handles**

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



- easily dismantable
- 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



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





531.01H05V Metzenbaum scissors, 5 mm, 33 cm, curved left,









#### Biopsy, dissecting and grasping forceps, 5 mm

55.16.11.05.	insulated, rotatable, dismantable,	
	consisting of:	jaws insert (53M01), sheath (53R1) handle (H 05), color code: white
541.01H05V	Metzenbaum scis	sors, like above however 43 cm
Rionsy dissecting and grasning forcens 5 mm		

531.61H01V	Biopsy forceps, do 33 cm, rotatable, c consisting of:	uble action jaws, with spikes, 5 mm, lismantable, jaws insert (53 M 61), sheath (53 R 1) handle (H 01), color code: black
541.61H01V	Biopsy forceps, like	e above however 43 cm
531.40H01V	Dissecting forceps insulated, rotatabl consisting of:	(Maryland), 5 mm, 33 cm, turned, e, dismantable, jaws insert (53 M 40), sheath (53 R 1) handle (H 01), color code: black
541.40H01V	Dissecting forceps	(Maryland), like above however 43 cm
531.22H11V		5 mm, 33 cm, universal, e, dismantable, inside ratchet, jaws insert (53 M 22), sheath (53 R 1) handle (H 11), color code: black
541.22H11V	Grasping forceps,	like above however 43 cm
531.30H11V	Claw grasping force rigid, dismantable consisting of:	ceps, 5 mm, 33 cm, straight , inside ratchet, jaws insert (53 M 30), sheath (53 R1)

handle (H 11)

Claw grasping forceps, like above however 43 cm

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



541.30H11V

### Laparoscopy / Thoracoscopy

#### Standard Instruments 10 mm

Scissors, 10 mm

141.48H11V



141.11H05V MAYO scissors, curved, 10 mm, 45 cm, insulated, rotatable, dismantable,

consisting of: jaws insert (14 M 11), sheath (14 R 1)

handle (H 05) color code: white



Universal, dissecting and grasping forceps, 10 mm

Dissecting forceps, (OVERHOLT), turned, 10 mm, 45 cm, insulated, rotatable, dismantable, inside ratchet,

consisting of: jaws insert (14 M 48), sheath (14 R 1)

handle (H11) color code: black



141.26H11V Babcock grasping forceps, 10 mm, 45 cm, insulated,

rotatable, dismantable, inside ratchet,

consisting of: jaws insert (14 M 26), sheath (14 R 1)

handle (H 11) color code: black



141.25H11V Universal grasping forceps, 10 mm, 45 cm, insulated, double action jaws, rotatable, dismantable, inside ratchet,

consisting of: jaws insert (14 M 25), sheath (14 R 1)

handle (H 11) color code: black



141.49H11V Atraumatic grasping forceps, 10 mm, 45 cm,

insulated, rotatable, dismantable, inside ratchet, consisting of: jaws insert (14 M 49), sheath (14 R 1)

handle (H 11) color code: black



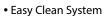
141.32H11V Claw grasping forceps, 10 mm, 42 cm,

double action jaws, rotatable, dismantable, inside ratchet,

consisting of: jaws insert (14 M 32), sheath (14 R 1)

handle (H 11)

#### Needle holders



• Needle self positioning





L-19-592V Needle holder, left turned, 5mm, 43cm

axial handle, LL connector

L-19-593V Needle holder, angled upwards, 5mm, 43cm

axial handle, LL cleaning connector

• needle self positioning jaw

other working lenght see page 61

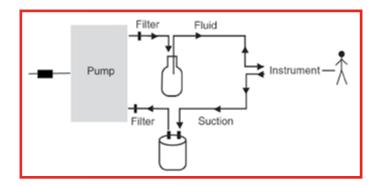


### Laparoskopie / Thorakoskopie

#### Special devices – suction irrigation

#### Suction & irrigation pump – soft system

- · easy handling
- low noise unit
- · easy adjustments
- ideal for small and large animal practices





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

H160-AB-43 Spare suction bottle, 1 L., with lid for H140/160 series

H160-AB-7 Spare flushing bottle with lid for H140/160 series, autoclavable

Dr. Fritz)

 $\hbox{Dr. Fritz Endoscopes $www.dr-fritz.com} \cdot \hbox{dr.fritz@dr-fritz.de}$ 

Special devices - inflator - HF/RF device

# ${\rm CO}_{\scriptscriptstyle 2}$ 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, 230 VAC, 50-60Hz, DIN IEC 601/1, DIN VDE 871



#### 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:

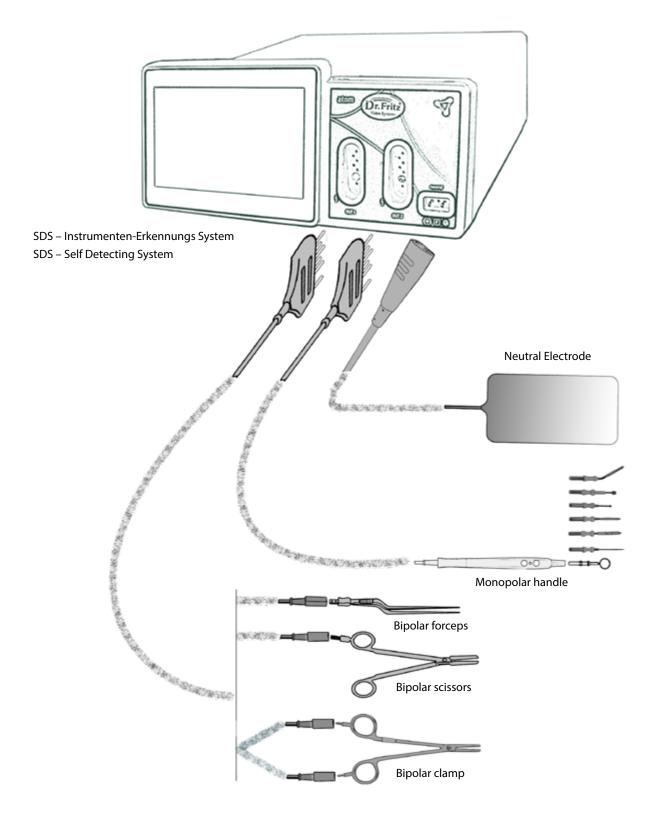
specifications.		
Monopolar	Cutting Coagulation Soft/Forced	400 W 200 W +/+
Bipolar	Cutting Coagulation Auto Start/Stop	400 W 200 W +/+
Bipolar	Thermo-Stapling Thermo sealing Auto Stop	+ 300 W + +
Weight	7 kg	
max. power		420 W

• Accessories see page 168-173



High End with thermo sealing

#### Surview:



monopolar – laparoscopic instruments



#### Recommanded 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	Dissecting 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

TV50-11S	Video laparoscope. wireless, 10mm, 50cm
TXM10-58N	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 P	runcture and irrigation needle, 3mm, 20cm,
141.48H01V	Dissecting 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 –



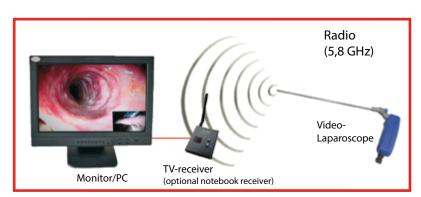
# Transvaginal Laparoscopy

#### Video Laparoscope, wireless

- integrated sender 5,8GHz for wireless video transmission
- HD-PAL resolution
- easy handling, quick cleaning and disinfection
- fully immersible

Power adapter

#### Video transmission:



- 7" monitor, batt. op. (TXM7-58R)

- transportation case

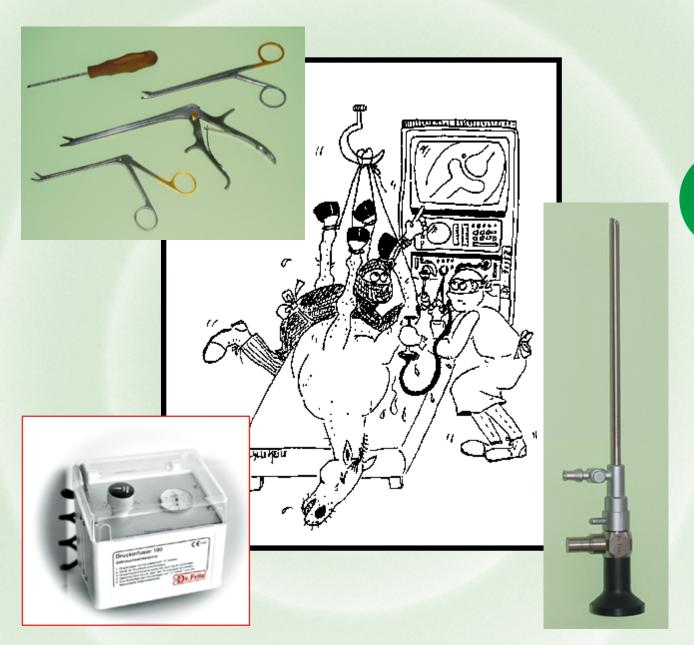




TXM7-58R

# Equine

# **Endoscopes and Instruments for Arthroscopy**



Large Animal Arthroscopy



#### **Telescopes**

#### Standard version arthroscope, 4 mm, with sheath

also for use in endoscopy of sinuses and tendon sheaths

- 115° field of vision
- special coated front lense system
- elongated working lengths



Smaller diameters on request!

well adapted and short tip of the sharp trocar



T181-4030 Wide angle telescope, 30°,

OD:4 mm, WL:18 cm,

115° field of vision, standard light cable connectors, autoclavable

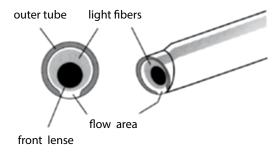
S180-4032R Sheath for arthroscopy,

OD: 5,5 mm, WL:16 cm compatible with T181-4030, stopcock rotating,

including blunt & sharp trocar

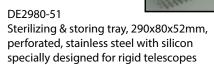


Camera see page 159+160



#### Accessories:

for sterilizing and storing



DE4680-52 as above but 460x80x52mm



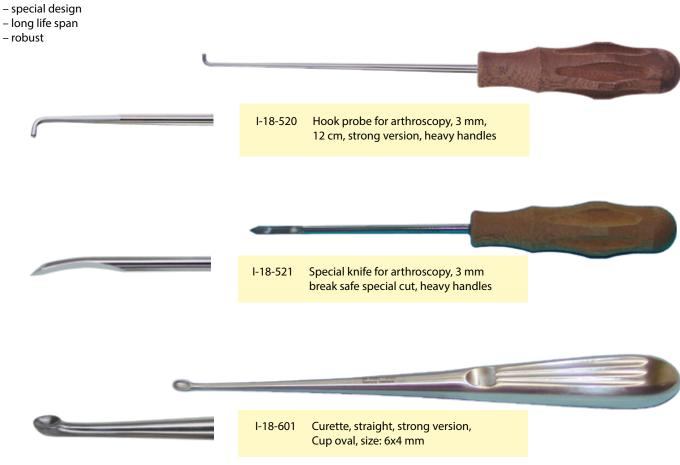


 $\hbox{Dr. Fritz Endoscopes $www.dr-fritz.com} \cdot \hbox{dr.fritz@dr-fritz.de}$ 

#### Hand instruments

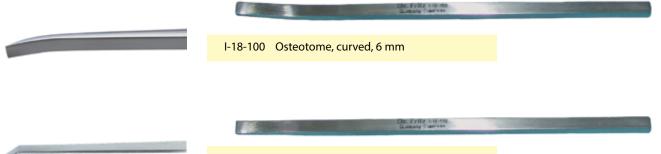
Dr. Fritz hand instruments are especially designed for large animal arthroscopy

#### Basic instrument set





I-18-517 Elevator, extra strong, curved, 6 mm



I-18-110 Osteotome, straight, 4 mm



#### Special hand instruments



- extremely durable
- easy cleaning
- bypass opening







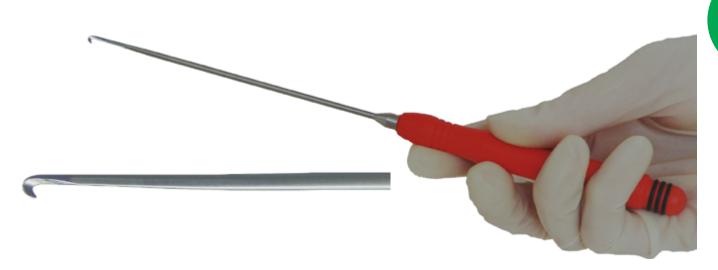
Dr. Fritz)

#### Special hand instruments

- robust
- easy cleaning



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



AR-17-19S Hook knife, 2,7mm, Silicon handle autoclavable, color code



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



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

#### Standard line instruments



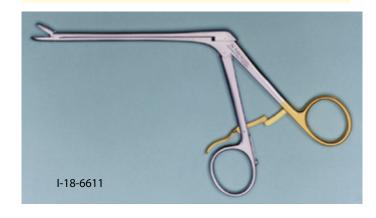
I-18-661	Rongeur "standard line", cup size: 4x8 mm, oval, straight, fenestrated, WL: 11 cm
I-18-6611	Rongeur "standard line", cup size: 4x8 mm, oval, straight, fenestrated, ratchet, WL: 11 cm
I-18-662	Rongeur "standard line", cup size: 4x8 mm, oval, angled upwards, fenestrated, WL: 11 cm



jaws tip flat



- standard handle type
- small jaws
- extremely durable





ideal shape, angled upwards



#### Rongeurs

#### Power Linie, die Starken



I-18-973 Rongeur "Power Linie", Maul oval, gerade, 5x10 mm, NL:15 cm, extrem belastbar, kräftiger Handgriff
I-18-974 Rongeur "Power Linie", Maul spitz, gerade,

Rongeur "Power Linie", Maul spitz, gerade, gefenstert, 5 x 10 mm, NL:15 cm, extrem belastbar, starker Handgriff

 die goldene
 Schraube bürgt für maximale Qualität –





#### Instruments for high frequency

Mono-/ Unipolar

HF/RF cutting electrodes, the electric knife



HF-200-45	High frequency cutting electrode for equine arthroscopy, 45°, fine tip 4 mm connector, WL:12 cm
HF-200-90	High frequency cutting electrode for equine arthroscopy, 90°, heavy version 4 mm connector, WL:12 cm
HF-200-055	High frequency connecting cord comp. to arthroscopic cutting electrodes, handles ength: 5 m, for units with 4 mm connector

<sup>•</sup> Name us or your customer service your HF/RF unit type and we will deliver the compatible connecting cable

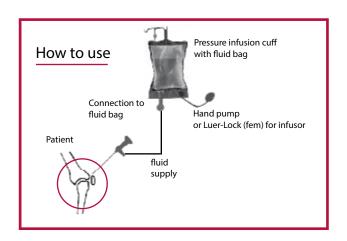
<sup>•</sup> For our HF/RF-unit see also pages 166



#### Fluid Supply System for arthroscopy

#### Manual fluid supply system

- reusable
- high quality manufacturing



• For very high fluid pressure (e.g. coffin joint) a small cuff is recommend (max. 1 liter).





AR-08-100N

AR-08-300

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

AR-08-300 Pressure infusion cuff for 3-5 litres

complete with manometer and hand pump

- reusable, high quality manufacturing -

#### **Accessories**



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
Connection: Infusor to pressure infusion cuff or Infusor CO <sup>2</sup> pressure to arthroscope		
	X-300-26	Silicon tube, ID:5 mm, 3 m, LL(m) both ends
	X-5-15-10	Spare silicon tube, 1 m, size: 5 x1,5 mm, color: natural
	LLM-1250	Luer-Lock connector, male, 6 mm,



#### Fluid Supply System for arthroscopy

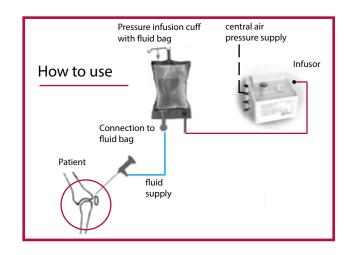
#### Automatic fluid supply system

for central air pressure supply



AR-10-100

Pneumatic pressure infusor, for infusion cuffs, for veterinary arthroscopy, compl., unit backside: 4 m tube to central pressure supply, DIN tube connection, front side: 3 m tube with Luer-Lock (f), universal table fixator, easy pressure setting, automatic regulation (0-300mmHg)



#### **Accessories**



# Pressure infusion cuffs for fluid supply system for use with infusion bags

AR-01-300 Pressure infusion cuff for 3-5 litre, without manometer, Luer Lock (fem) basic version, reusable

• For very high fluid pressure (e.g. coffin joint) a small cuff is recommend (max. 1 liter).

# Order recommendation: for central supply connection

AR-10-100	Pneumatic pressure infusor
AR-01-300	Pressure infusion cuff for 3-5 litre
5. 555	The state of the s
AR-10-948	Infusion tube, set complete
7.11 10 3 10	musion tube, set complete
X-300-26	1x Silicon tube, 3 m, 2x LLM
X 300 20	TX SINCOTT CODE, STIT, ZX ELIVI



# Cold light cables



OW-48-300 Fibre light cable, 4,8 mm, 3 m, O/W,

autoclavable, unit side: comp.to Olympus, endoscope side: comp.to Dr. Fritz, R.Wolf,

Adaptors for cold light sources of other manufactures on request

#### Camera covers



DE-10-25

DE-10-25 Camera covers, disposable, 25 pcs,

polyethylen, 13x250 cm

# Cleaning, Disinfection





DE-10-425



DE-10-426

DA3014-11 Sterilizing & storing case, Aluminium, 300x140x100 mm, lid perforated, red, with

textile filter

DE-10-425 Soak basin for chemical solution

disinfection, consisting of basin (perforated) tray&cover for basin, size: 42x16x9,5 cm

DE-10-426 Soak basin long for chemical solution

disinfection, consisting of basin, tray (perforated), cover, size: 72,5x20x14 cm

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

Disinfection solution for rigid and flexible endoscopes.

DE-10-304 Disinfection concentrate IP, for instruments

and flexible endoscopes, 2 litres concentrate, 1-3% dilution, for manual and automated use

delivery without devices



#### Video cart

completely mounted –

WV-54043 Video cart, size: 62x63 cm, h:143 cm, completely mounted, basic version, color: grey, partly blue,

- drawer inbuilt
  - fixation knob for video camera head
  - specially rust protected
    - max. weight 150 kg/330 lbs

