

# Devices & Accessoires

## Light Sources

Page 164-175



## Cameras

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## Video cart

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## Hygiene, Care, Cleaning and Transport Products for daily use

Page 177-190

## Battery/LED Light Sources

### Portable LED Light Handle, mini, 1,5V

For endoscopy without video camera.

direct coupling with light director.

- light weight
- easy handling
- directly compatible to your telescope



LED-8-32 LED-Endoscope Light Handle, mini, 1,5V,  
90g.comp.to Dr.Fritz/Wolf including mignon  
battery,AA  
Lux: 4.900  
Farbtemperatur 6.100 K  
ca. 60 Min. Arbeitszeit

### LED-Akku-Lichtgriff, high power, 3,7V

- fully immersible
- compatible to Dr. Fritz, Wolf
- wasserdicht



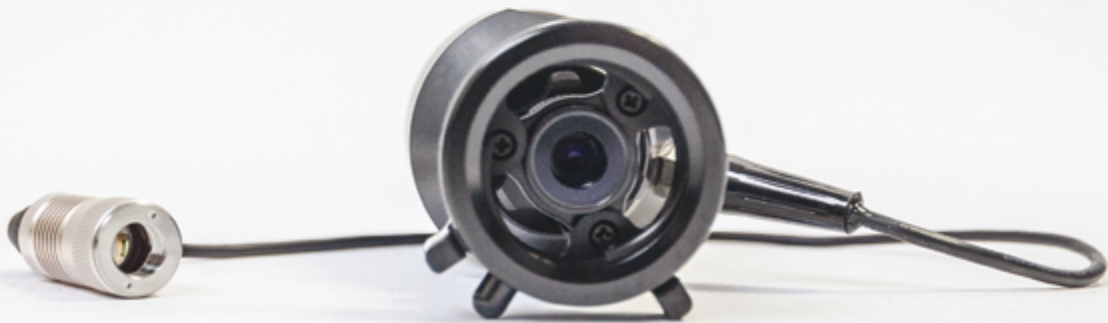
LED-8-35 LED-Light Handle, Accu Power Set,  
comp. to Dr.Fritz/Wolf  
handle water resistant  
consisting of:  
Handle only (LED-8-35G)  
LI Accu Block 3,7V x 0,7Ah (LED-8-35AC),  
charger (LED-8-35LA)  
Lux: 7.000  
Farbtemperatur 5.500 K  
ca. 45 Min. Arbeitszeit



### HD-Radio-Videocamera, wireless axial Version, DIN Ocular with LED

GO WIRELESS

- wireless video transmission
- ideal for mobile surgery
- compatible with standard endoscopes
- perfect HD image
- fully immersible
- easy handling
- magnetic connector

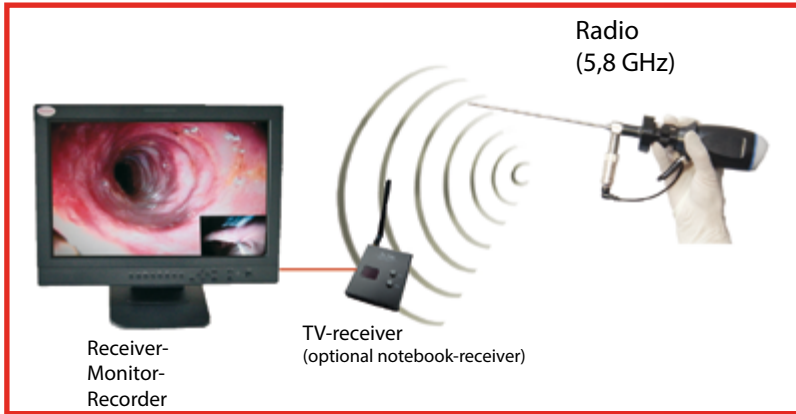


51V-C2SET

Radio-Axialcamera with LED-light  
built in 5,8 GHz Sender, LI Accu, LED light cable, HD-PAL,  
DIN Ocular, compatible to standard Endoscopes  
set complete consisting of:  
- camera (51V-C2-D)), weight 295 gr.  
- Stop Button (50VC-78)  
- Power adapter (TV27-NET)  
- 10" Receiver-Monitor/Recorder (TXM10)



## Video transmission



## Charging process

Magnetic connector



TV27-NET

Power adaptor for Radio laparoscopes, 3m cable, magnetic end connector, fully immersible 110-240 VAC, 50/60Hz



TXM10-58N Monitor 10" 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



Optional:

M-LCD-22AP

Monitor-Apple, 22" with image storage  
Flat screen, Tastatur, Processor  
For picture and videodocumentation  
HDMI FBas Video surface  
Network compatible 115-230VAC

for additional monitors and receivers see page 115.

## HD-Radio-Videocamera, wireless abaxial, gewinkelte Version, DIN Ocular with LED

GO WIRELESS

- wireless video transmission
- ideal for mobile surgery
- compatible with standard endoscopes
- perfect HD image
- fully immersible
- easy handling
- magnetic connector
- pistol grip

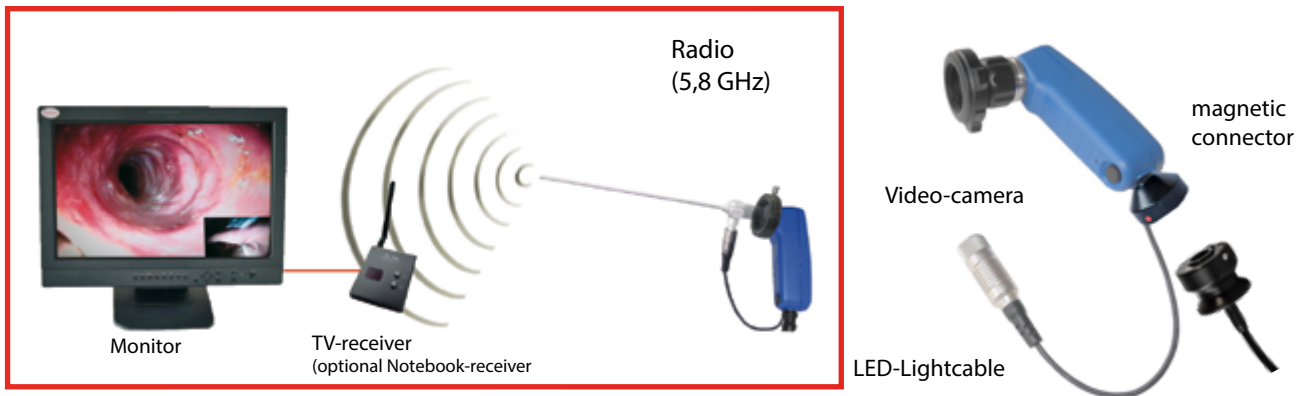


50V-C2SET

Radio-Videocamera with LED-light, abaxial/abgewinkelt  
built in 5,8 GHz Sender, LI Accu, LED lightcable, HD-PAL,  
DIN Okular, compatible to standard Endoscopes  
set complete consisting of:  
- camera (50V-C2-D)), weight 230 gr.  
- Stop Button (50VC-78)  
- Power adapter (TV27-NET)  
- 10" receiver-Monitor/Recorder (TXM10-58R)



Video transmission:



TXM10-58R



TV27-NET

Power adaptor for Radio laparoscopes, 3m cable, magnetic end connector, fully immersible 110-240 VAC, 50/60Hz



TXM10-58N

Monitor 10" 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



Optional:

PC-97-HDE

Video/HD Recorder for HDMI & Videosignale, Image and video recordings  
 Input: HDMI in, Video in/ Outputs: HDMI out, USB Host  
 Power adapter, remote control, USB Stick



## Video- /Bildwiedergabe und Speicherung – Monitor



M-LCD-22PC Monitor-PC 22", 16:9, mit Bildspeicherung, HD Flachbildschirm, Tastatur, Prozessor für Foto und Videodokumentation, HDMI F-Bas Video-Schnittstelle, netzwerkfähig, 115-230VAC

## Digitale Speichereinheit



PC-97-HDE Video/HD Recorder für HDMI & Videosignale, Foto- u. Videoaufnahmen  
Eingänge: HDMI in, Video in  
Ausgänge: HDMI out, USB Host  
Netzteil, Fernbedienung, USB Stick





a) Empfänger Monitor mit Recorder 10" TXM10-58R

b) Empfänger Monitor mit Recorder 5" TXL2-580M

c) Empfänger Monitor mit Recorder 7" TXM7-58R

d) TV - Empfänger mit Video - Out TXL1-583

e) Empfänger Monitor 10" TXM10.58N

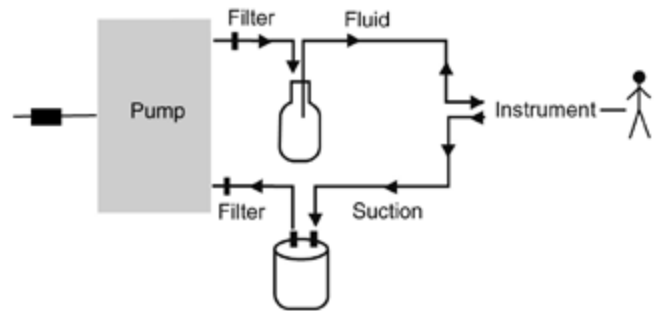
f) Empfänger Monitor 7" TXM7-59A

g) Videokarte, extern ,treiberlos PC-97-GRA2

## Small and Large Animals Devices for endoscopic procedures

### Suction & irrigation pump – soft system

- suction – irrigation – insufflation
- 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

– specially designed for gastro enterology –

## Special devices – Inflator

### CO<sub>2</sub> Inflator, electronically monitored

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



741-025V CO<sub>2</sub> 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 CO<sub>2</sub> inflation, incl. connector, autoclavable

741-009-FF Sterile filter system for CO<sub>2</sub> -inflator disposable, box with 50 pcs. medical connection D:22mm

741-002 CO<sub>2</sub> high pressure tube, 1m DIN connector, screw both sides

741-009V-PN CO<sub>2</sub> high pressure tube, 0,8m compatible to PIN Index bottle (without picture)

- sterile product - return shipment not accepted

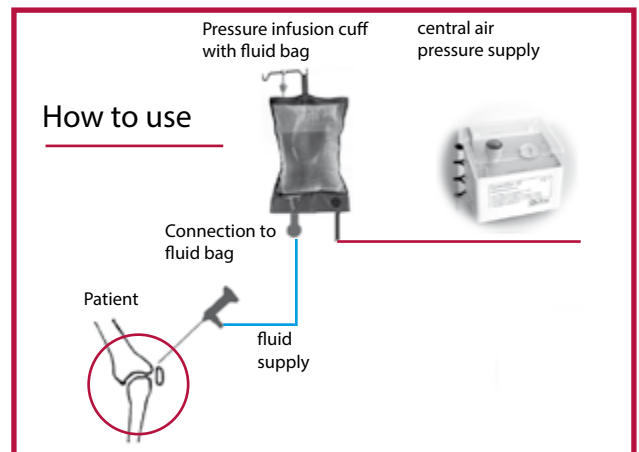
# Special devices – Pressure Infusor

## 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



AR-08-100N



AR-01-300

### 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

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

### Order recommendation: without pressure reducer and CO<sub>2</sub> bottle

AR-10-901 CO<sub>2</sub> infusor (incl. 2 steril filters)  
AR-01-300 Pressure infusion cuff  
AR-10-948 Infusion tube, set complete  
X-300-26 2x Silicon tube, 3 m, 2x LLM

# Special devices – Ultrasonic/vessel sealing

## Ultrasonic surgery system

– Sealing and cutting in one cut reduced heat for minimally invasive and open surgery

- safe and uncomplicated handling
- transducer reusable, autoclavable
- economically priced
- high & short seal modus



**U2-SET-50** Ultrasonic sealing system, Set 50cm sealing and cutting for minimally invasive and open surgery  
Set complete consisting of:  
1x generator (U2-LO-GE)  
1x sound head (U2-5SO)  
2x punch (U2-5SE) 50cm

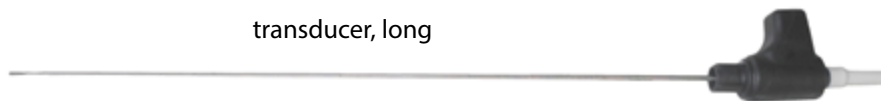
**U2-SET-30** Ultrasonic sealing system, Set, same as set above but with 30cm instruments  
1x sound head (U2-3SO)  
2x punch (U2-3SE), 30cm

### Accessories:

**U2-5SO** Ultrasonic transducer 500mm, comp. to U2-LO-GE, cable 3m, autoclavable, 1 pcs, max use: 250min

**U2-3SO** Ultrasonic transducer 300mm, comp. to U2-LO-GE, cable 3m, autoclavable, 1 pcs, max use: 250min

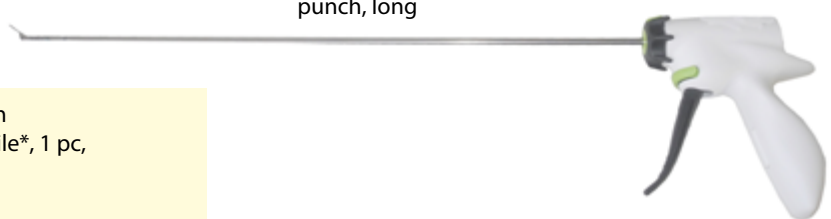
transducer, long



**U2-5SE** Ultrasonic sealing punch, 500mm comp.to transducer U2-5SO, sterile\*, 1 pc, \*no return shipment possible

**U2-3SE** Ultrasonic sealing punch, 300mm comp.to transducer U2-3SO, sterile\*, 1 pc, \*no return shipment possible

punch, long



\* foot switch and short instruments on request

## 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:

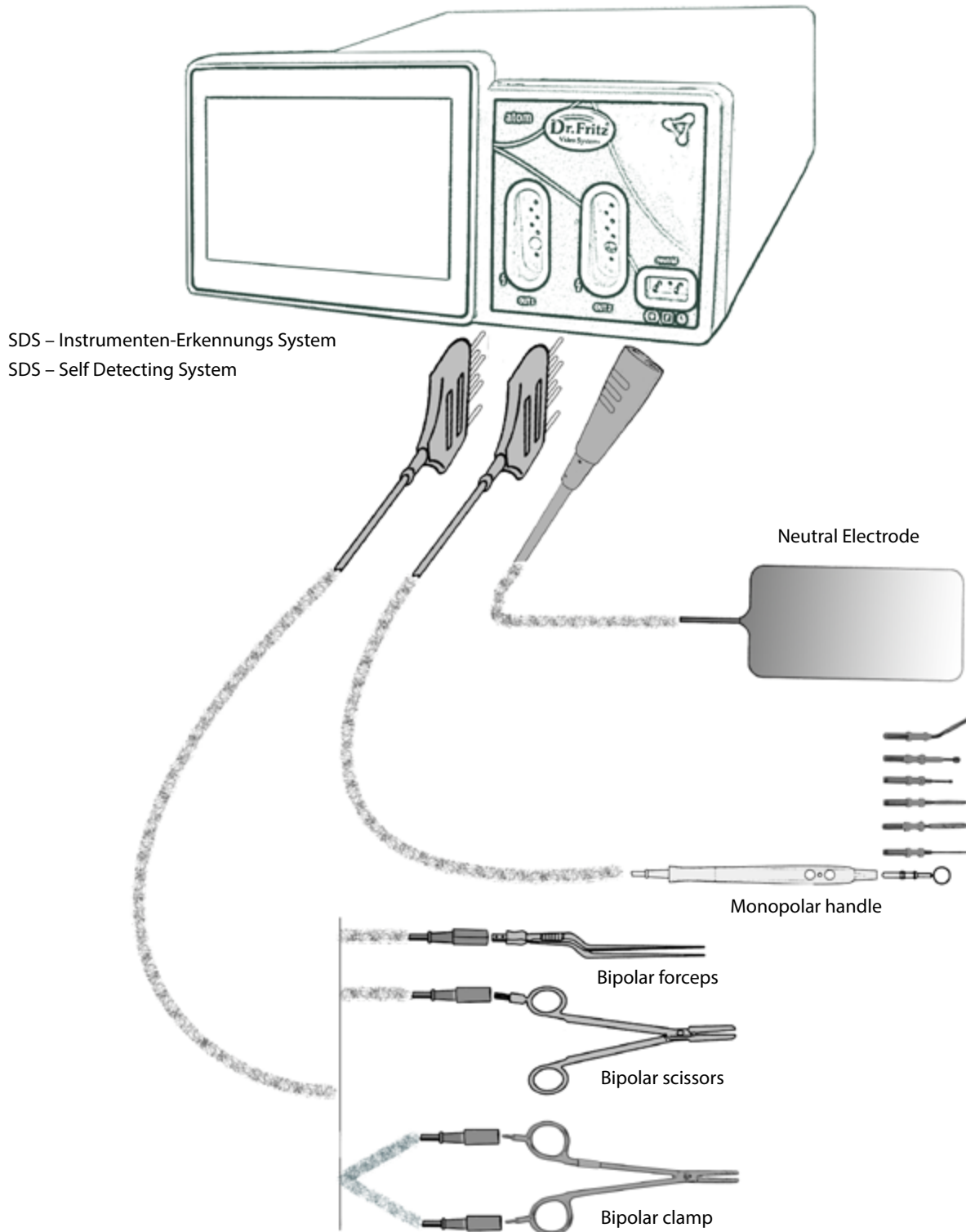
Monopolar	Cutting	400 W
	Coagulation	200 W
	Soft/Forced	+ / +
Bipolar	Cutting	400 W
	Coagulation	200 W
	Auto Start/Stop	+ / +
Bipolar	Thermo-Stapling	+ 300 W
	Thermo sealing	+
	Auto Stop	+
Weight	7 kg	
max. power		420 W

• Accessories see page 168-173

# High Frequency Surgery

High End with thermo sealing

Overview of the different connections:



monopolar – laparoscopic instruments





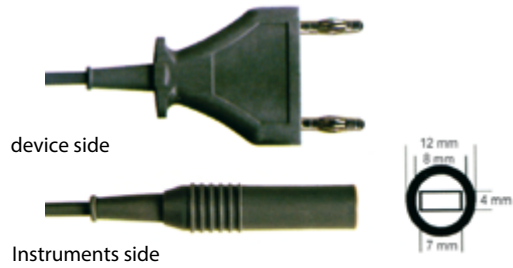
Accessories for bipolar applications:



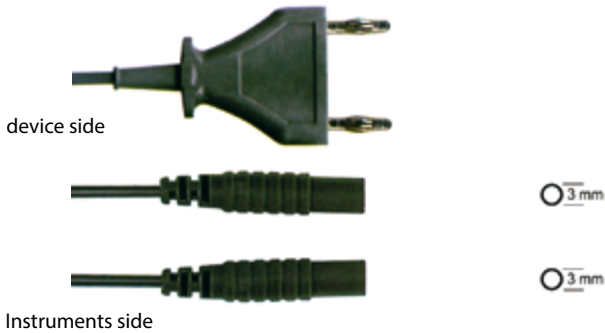
HF-350-EP Double foot switch for HF/RF unit for 350-402 series, multi switch type, 3m cable



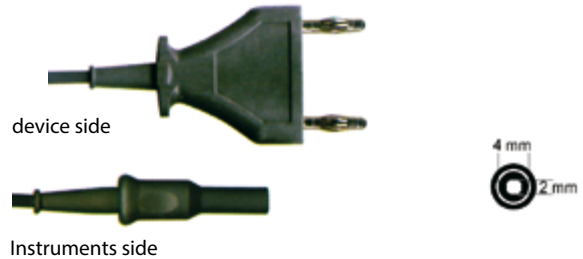
BP-361-IT-MA



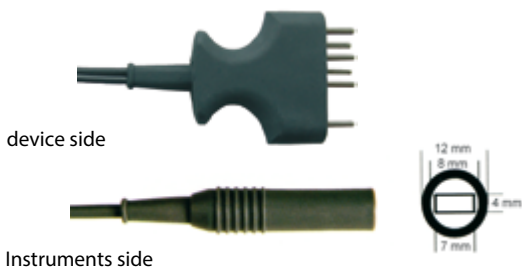
BP-361-IT-MA Bipolar cable, 3 m, device side Emed/Valleylab/Ellman; instruments side: Europa/Martin autoclavable



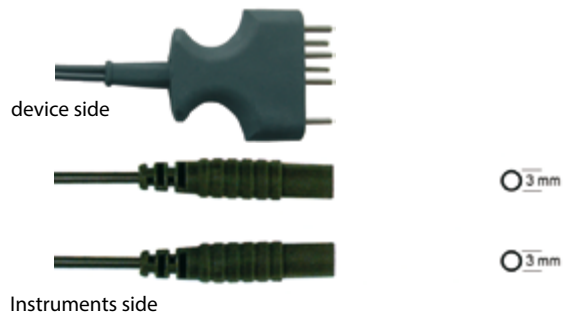
BP-371-IT-ET Bipolar cable, 3 m, device side: EMED/VALLEY Instruments side: 2x 3mm (Ethicon,Val) autoclavable



BP-371-IT-BI Bipolar cable, 3 m, device side: EMED/VALLEY Instruments side: bipolar, round (2/4mm) autoclavable



BP-37-EM-MA Bipolar cable, 3 m, device side: Emed-SDS Instruments side: Europa/Martin, autoclavable



BP-37-EM-ET Bipolar cable, 3 m, device side: Emed-SDS, Instruments side: connection (2x3mm), vessel sealing, autoclavable

#### Open surgery: :



BP-S-18B Bipolar scissors, Metzenbaum, 21cm,  
connection: bipolar round (2/4mm)

BP-S-21B Bipolar scissors, Metzenbaum, 21cm,  
connection: bipolar round (2/4mm)

• suitable cable see page 168 e.g. BP-37-EM-ET



BP-903

BP-901 Bipolar coagulation forceps,  
blunt, straight • non stick version (without picture)

BP-902 Bipolar forceps, pointed, straight (without picture)

BP-903 Bipolar forceps, pointed, bayonet model  
195mm, 1mm tip • non stick version

• Non Stick: special material to reduce adhesion of tissue

• suitable cable see page 168 e.g. BP-37-EM-MA

# Bipolar Vessel Sealing

## High frequency surgery

Thermo Sealing, Vessel Sealing

Open surgery:



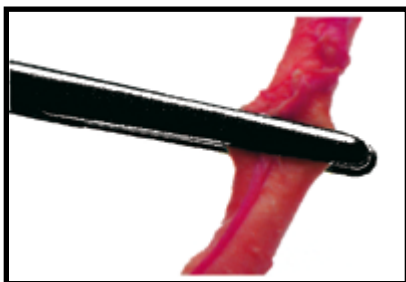
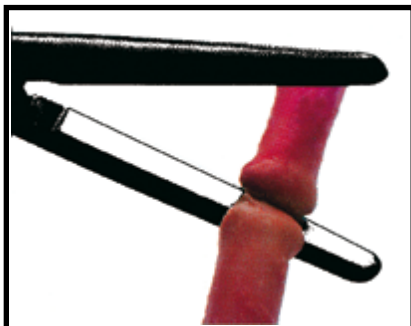
## Thermo sealing

Only in conjunction with the device HF-401-TH



BP-E-K20 Bipolar Clamp, 20 cm, for thermo sealing connection: 2 x3mm,

BP-E-K27 Bipolar Clamp, 27 cm, for thermo sealing connection: 2 x3mm,



Mechanical pressure and higher temperatur seals collagen and elastan tissue of vessels

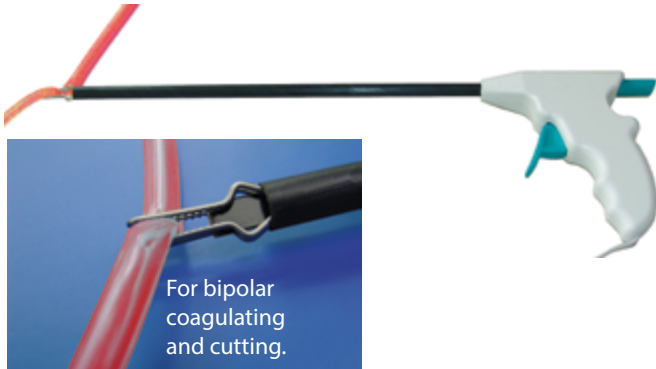


Perfect sealing of arterial vessels up to 8 mm diameter.

Field of use: Ovaryectomy, Ovar-Hysterectomy  
Castration, small and large animal.

#### Minimal invasive surgery:

##### Laparoscopy



– Coagulating and cutting in one instrument –

- BP-10-321 Bipolar grasping & cutting forceps, disposable, 10mm, WL:320mm, European connector
- BP-05-321 Bipolar grasping & cutting forceps, disposable, 5,6mm, WL:320mm, European connector

- sterile product - return shipment not accepted
- suitable cable see page 168 e.g. BP-37-EM-MA

#### Vessel Sealing



– Vessel Sealing (bipolare coagulating) and cutting in one instrument –

- BP53-S52 Vessel sealing grasper, 5 mm, 33 cm incl. cable connection, disposable box with 5 pcs (without picture)
- BP13-S63 Vessel sealing grasper, 10 mm, 33 cm incl. cable connection, disposable box with 5 pcs

- sterile product - return shipment not accepted
- suitable cable see page 168 e.g. BP-37-EM-MA

# Monopolar

## High Frequency Surgery

monopolar applications



### Grounding:



HF-100-12 HF neutral electrode, silicon, 4m cable  
size: 8 x 15cm, autoclavable

Large version:  
HF-100-12-2 HF neutral electrode, silicon, 4m cable  
size: 16 x 26cm, autoclavable

### Open surgery:



HF-301-ER High frequency connecting cord, 3 m,  
monopolar, comp.to Erbe units (4mm type)



HF-350-145 HF handle, 4mm, with button for monop.  
coagulation, comp. to Emed/Martin/Bercht



Suitable electrodes:

HF-100-17SE HF electrode set, VET, 4mm, monopolar  
incl.8 electrodes and sterilizing box,  
including fixation device

# Monopolar

## High Frequency Surgery

monopolar applications

### Minimal invasive surgery - monopolar:

#### Arthroscopy:



#### HF/RF cutting electrodes, the electric knife

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

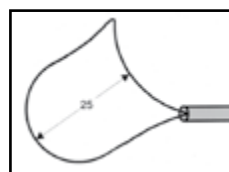
#### Laparoscopy:

siehe Seite 122-123  
with complete program



#### Gastroenterology and Bronchoscopy, flexible instruments :

siehe Seite 105  
with complete program



### Accessorie:

#### HF-Test Mate

- HF-8513 HF-Test Mate, autoclavable test unit, inactiv, for mono/unipolar and bipolar instruments and cables during surgery



## Video Cart

- 50 cm unit size
- Camera fixation knob
- Drawer
- 6 power succets
- CO<sup>2</sup> bottle stand
- ask for additional accessories



WV-54043

- 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: 150kg/330lbs

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

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

### Accessories for Video cart:

- WV-99619 Fixation system for infusion bottles mounting set, comp.to video carts
- WV-99952 Soft fixation system for gastroscopes mounting set, comp.to video carts. incl. gastro clamp ad plastic tray
- WV-01601 Fixation system for CO<sup>2</sup> bottles mounting set, comp.to video carts for 5-10 litre bottles, max OD: 14,5 cm
- WV-02851 Fixation system for CO<sup>2</sup> bottles mounting set, comp.to video carts for big bottles, max OD: 20,5 cm



WV-45111

- WV-45111 Video cart, size: 54x58cm, h: 112cm, completely mounted, basic version, drawer inbuilt with handle  
 max.weight:50kg/110lbs  
 max. unit size: 45cm  
 color:grey, partly blue,



# Hygiene, cleaning care and transport

Semi automatic cleaning devices  
Cleaning and disinfection baths



Cleaning and storage  
of flexibel endoscopes



# Hygiene, cleaning care and transport

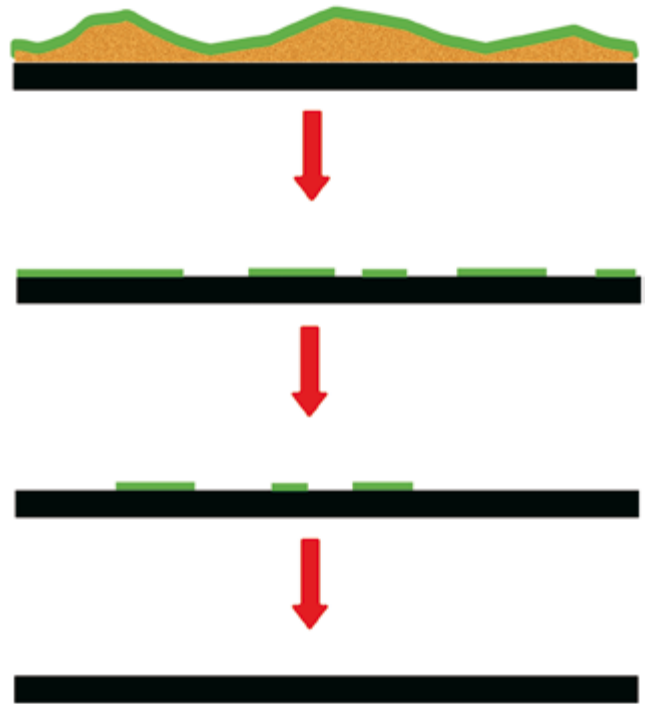
## Instructions for cleaning and disinfecting

Cleaning and disinfection are a ubiquitous topic of daily medical routine. The basic aim is to minimize the risk of infection for humans and animals. The thorough cleaning and disinfection of your endoscope influence much its optimum function and durability. Drying is an essential process of the hygiene concept.

During cleaning dirt is removed. This step is frequently underrated, but is essential for the preparation of all other steps. Put your endoscope in an enzymatic detergent solution (e.g. Dr. Fritz enzymatic cleaning UNIVERSAL for rigid endoscopes and instruments or FLEX for flexible endoscopes) and make a mechanical pre-treatment with the special brush (for example, the instrument channel).

Disinfection takes place chemically. Put your endoscope into a disinfectant that is specifically suitable for endoscopes (e.g. InstruPlus). The existing germ-proof is reduced by 1 million cFU to 10 cFU.

There are different procedure for sterilization (e.g. gas-sterilization, autoclaving). Check that your endoscope is suitable for this procedure. Typically flexible endoscopes are only suitable for gas sterilization but not for steam sterilization. Rigid endoscopes are marked with the word „autoclave“ is distinguished if steam sterilization is possible. The existing germ-proof is further reduced by 10 cFU to 1 CFU.



For an optimum result in the cleaning and disinfection note the following points:

- Cleaning should be done promptly after use. Spray with Dr. Fritz enzyme. Pre-cleaning FOAM.
- Check the application (hands, face, endoscopes, instruments) to achieve an optimal effect and to prevent damage.
- Check the spectrum (bactericidal, fungicidal, virucidal) your disinfectant to select the right product for your needs and to avoid damage.
- Dr. Fritz enzymatic cleaners can be combined with commercial disinfectants (e.g., InstruPlus).
- Strictly follow the specified exposure dosage, time and temperature on the packaging.
- Detergents and disinfectants must be stored dry and cool. Extreme temperatures (frost, heat > 40 °C) must be avoided.
- Observe the instructions provided by the manufacturer for use (concentration, protective measures).
- Drying is an essential part of the whole process.

# Hygiene, cleaning , care and storage

## Instructions for cleaning and disinfection

We supply suitable cleaning and disinfection products, effective, environmentally proof and practical solutions for hygiene management.



### Demineralisation

One of the main conditions for best cleaning results - water treatment

- WA-1466-3 Demineralisation container, only connection: 3/4 Zoll, total capacity: 1400 Liter
- WA-1466-2 Conductivity measurement unit 0-20/ > 20myS, LED control system

DE-10-304



### Disinfection products

e.g. Disinfection solution IP

DE-17-44S



### Accessories:

e.g. Disinfection basin for flexible endoscopes

Talk to us - we gladly advise you!

# Hygiene, cleaning and care

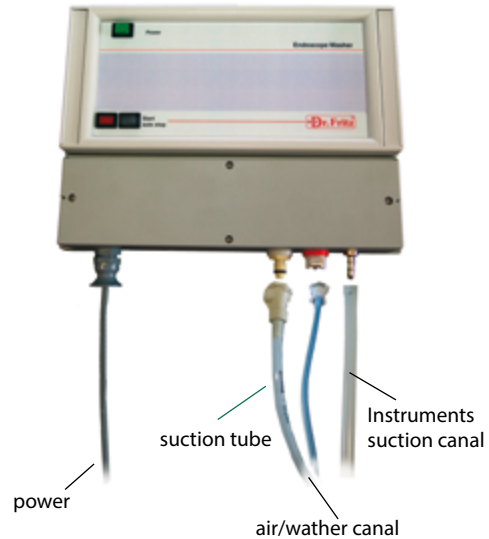
Special equipment for cleaning of flexible endoscopes

## Endoscope Washer

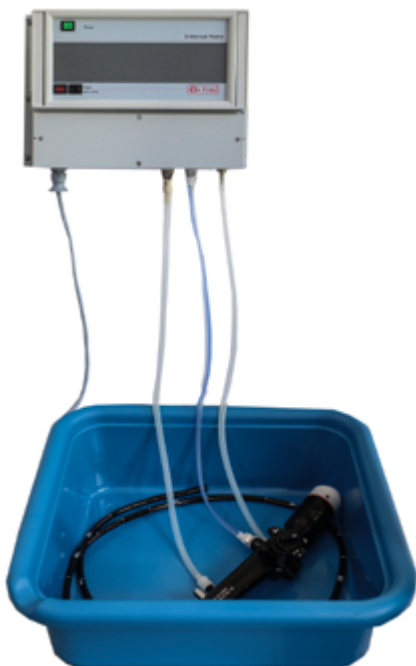
semi automated cycling pump for flexible endoscopes and tubes

- suction and circulating pump system
- auto stop

WA42-205 Gastro-Washer, Cleaning pump with timer programs for flexible endoscopes and tubes (<4mm), non-drip connectors, wall fastening, comp.to all major endoscopes, mains adaptor: 110-240VAC, 50/60Hz



reprocessing room wall maunting



\* Example of cleaning adapter of other manufacturer

wall or cabinet mounting in connection with soak basin (basin see page 183)

Reinigen

# Hygiene, cleaning and care

Special equipment for drying of flexible endoscopes

## Endoscope Dryer

Easy drying of flexible endoscopes and thin tubes

- auto stop
- compatible to endoscopes of other manufacturers\*

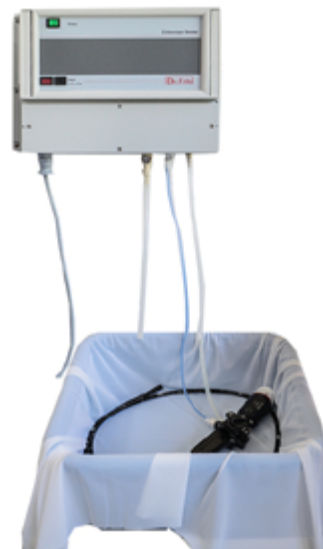
WA41-104 Endoscope-Dryer, air pump with timer for flexible endoscopes and tubes (<4mm) 1 bar, air filter, wall mounting, comp.to all major endoscopes, mains adaptor: 110-240VAC, 50/60Hz

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



Drying hanging

storage room cabinet mounting



Drying reclining

\* if original cleaning adapter available



# Hygiene, cleaning and care recommendations for field practice



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

### 1. Preparations:

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

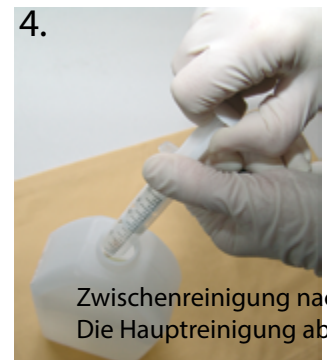
We highly recommend to use gloves while examining your patients to reduce contamination of your scope.



2. Clean scope outside with damp cloth and cleaner (Dr. Fritz enzymatic 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



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!

## Hygiene, cleaning and care recommendations for pre-cleaning

Fast and easy pre-cleaning  
after the last examination



DE-10-703  
Dr. Fritz enzyme.  
pre-cleaning FOAM



All parts to be cleaned with Dr. Ing. Fritz  
enzyme. pre-cleaning FOAM spray, including  
the channels,

close the lid and ready for transport.



untersuchung.  
verlässlich.

– the manual option for cleaning of flexible endoscopes –

### Disinfection transportation & storage basin for flexible endoscopes



- for semi-or fully automatic cleaning
- inexpensive
- for all flexible endoscope types
- stackable
- usefull in drawer cabinets
- with airing



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

consisting of:  
basin (DE-17-44)  
cover transparent (DE-17-41)

A



## Soak basin for different instrumentes sizes

DE-10-426  
Soak basin long for chemical disinfection,  
consisting of:  
basin, tray (perforated), cover, size: 74x22x13cm



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



## Accessories:

DE-5-17 Cleaning brush small, 17cm, for tubes  
ID size: 2-4 mm, autoclavable, 1 pc.



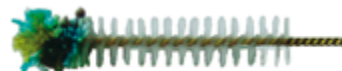
DE-5-17

DE-6-21 Cleaning brush, small, 20cm, for tubes  
ID size: 4-7mm, autoclavable, 1 pc.



DE-6-21

DE-9-25 Cleaning brush, 25cm, for tubes  
ID size: 7-10mm, autoclavable, 1 pc.



DE-9-25

DE-3-456-E Cleaning brush, 50cm, for long tubes  
ID size: 2,5 - 5mm, autoclavable, 1 pc.



DE-3-456-E

DE-6-102 Cleaning brush, flexible, 70cm, for  
tubes, ID size: 5-8mm, autoclavable, 1 pc.



DE-6-102

# Hygiene, cleaning and care

## cleaning and disinfection solutions

### For rigid and flexible endoscopes and instruments

#### Manual cleaning:

- DE-10-703 Dr. Fritz Pre-Cleaner FOAM, enzymatic  
1 x 750 ml / ready to use multi-enzymatic  
pre-cleaning, could also be used in field  
practices
- 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-10-706 like DE-10-702 but 5 l
- DE-10-704 Dr. Fritz enzymatic cleaning ULTRA 1,0%,  
1 x 1 l, 1% / powerful multi-enzymatic  
cleaning for extreme contaminated  
endoscopes and instruments, for manual use
- RH99-47 Silicon Oil, 15 ml

#### Manual and automated cleaning:

- DE-10-701 Dr. Fritz enzymatic cleaning UNIVERSAL  
0,3%, , 1 x 1 l, 3 enzymes, 0,3%-1% / for  
daily manual and automated cleaning
- DE-10-705 like DE-10-701 but 5 l
- DE-10-304 Disinfection solution IP, for instruments and  
flexible endoscopes, 2 litres concentrate,  
1-3% dilution, for manual and automated use

#### additional:

- WA-1302-25 Cleaning powder, alkaline, for WA-1402  
instrument washers, 1kg box
- WA-1302-26 Clear rinse for instruments, endoscopes and  
instrument washer, 1Liter bottle
- DE-10-65 Lense polish for telescopes, 5g
- E-22-71 Anitfog fluid for endoscopes and  
mirrors, bottle



DE-10-703  
SCHAUM



DE-10-702  
FLEX



DE-10-704  
ULTRA



DE-10-701  
UNIVERSAL



RH99-47



DE-10-304 „IP“



WA-1302-25



WA-1302-26



DE-10-65



E-22-71

## Products for daily use



AR-10-922



741-009-FF



Silicon tube



Silicon spare tube



LLM-1258



LLW-1258



LLM-1250



LLW-1251



LLW-1220

LLW-1263



LL-1270



LL-1271H



LL-1273H



AR-10-948



AR-10-9

- Attention: sterile product - return shipment not accepted

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

741-009-FF Sterile filter system for CO<sup>2</sup>-inflator disposable, box with 50 pcs. medical connection D:22mm

X-180-26 Silicon tube, ID:5mm,180cm, LLm both ends

X-300-26 Silicon tube, ID:5mm,300cm, LLm both ends

X-5-15-10 Silicon spare tube, 100cm, size: 5 x1,5mm, color: nature

X-3-2-7 Silicon spare tube, 100cm, size: 3 x2mm, color: nature

X-6-30-12 Silicon spare tube, size:6 x3mm, 100cm suction tube, color: natur

X-7-20-10 Silicon spare tube, 100cm, large inner diameter, size:6 x2mm, color: natur

### Luer male (m)

LLM-1250 Luer-Lock connector, male,6mm,

LLM-1258 Luer-Lock connector, male,10mm,

### Luer female (f)

LLW-1220 Luer-Lock connector, female,2mm

LLM-1250 Luer-Lock connector, male,6mm,

LLM-1258 Luer-Lock connector, male,10mm,

LLW-1263 Luer syringe connector, 10 pcs.

LL-1270 Three way T-adaptor, 2x LL(f), 1x LL(m), disposable, non sterile, Pg with 10 pcs.

LL-1271H One way stopcock, disposable, non sterile, Pg with 10 pcs

LL-1273H Three way stopcock, disposable non sterile, Pg with 10 pcs,

AR-10-948 Silicon tube, 6x2mm, 3m, autoclavable, Luer-Lock (m), needle f. sterile bags/bottles, large inner diameter

AR-10-9 Spare needle for infusion bottles/bags ID: 4 mm compatible to tubes ID: 3,5-5 mm

## Products for daily use

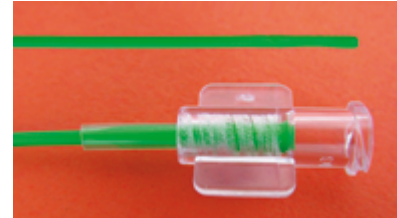
F11-69 Special catheter 4 Fr., 69cm, selectip UK, olive end, angled tip, y-sterile, Juka 62410110  
 \*\*minimal delivery: 5 pcs.  
 \*\*sterile item, no refund possible

F11-69



F12-69 Special catheter 5 Fr., 69cm, selectip UK, olive end, angled tip, y-sterile, Juka 62410210  
 \*\*minimal delivery: 5 pcs.  
 \*\*sterile item, no refund possible

F16-50



F16-50 Special catheter OD:1,6mm, 50cm, y-sterile,

F20-219 Spare catheter f. gastro fiberscopes, Teflon, OD:2mm, 10 metres, autoclavable

F20-220 Catheter f. gastro fiberscopes, Teflon OD:2mm, WL:235cm, LL(f) connector dismantable, autoclavable



F20-220



231-211 Sealing caps for trocars and reducer adapters, size 5,5mm, pg. of 10 pcs.

230-211 Sealing caps, red, for trocars & reducer adapters, size 10/11/12mm, pg. of 10 pcs.

234-211 Sealing caps for trocars and reducer adapters, size 8 (12,5)mm, pg. of 10 pcs.



231-211 230-211 234-211

TR-78-15 Sealing cap f. big trocar cannulas cap opening D:11,5mm, blue, 5 pcs.

TR-13-145D Sealing cap f. big trocar cannulas cap opening D:11,5mm, blue, 5 pcs.

I-17-002 Sealing cap f. small trocar cannulas cap opening, round, D:2mm, 5 pcs.

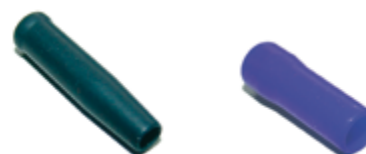


TR-78-15 TR-13-145D I-17-002 TR-60-1D

TR-60-1D Sealing cap small, 1mm opening, for 981-VK-69/ S190-2701, 5 pcs.

981-VK-S Spare silicon tips, black, 30pcs., for otoscope sheath 981-VK-13/17S autoclavable

981-VK-SG Silicon hoses, blue, large, 10pcs., for otoscope sheath 981-VK-69/72 autoclavable



981-VK-S

981-VK-SG

## Products for daily use

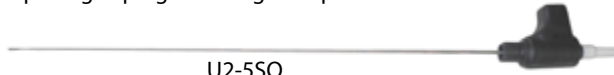
### Camera covers



DE-10-25

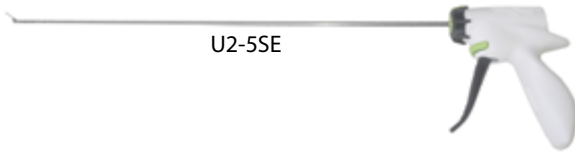
DE-10-25 Camera covers, disposable, 1 pcs., polyethylen, 13x250cm, minimal amount 50 pcs.

### Bipolar grasping & cutting forceps



U2-550

U2-550 Ultrasonic transducer 500mm, comp. to U2-LO-GE, cable 3m, autoclavable, 1pcs, max use: 250min



U2-5SE

U2-350 Ultrasonic transducer 300mm like above but 30 cm WL

U2-5SE Ultrasonic sealing punch, 500mm comp.to transducer U2-550, sterile\*, 1 pc,

U2-3SE Ultrasonic sealing punch, 300mm like above but 30 cm WL



BP-05-321

BP-05-321 Bipolar grasping & cutting forceps, disposable, 5,6mm, WL:320mm, European connector, \*sterile product

BP-10-321 Bipolar grasping & cutting forceps, disposable, 10mm, WL:320mm, European connector, \*sterile product



B23-180E

B23-180E Disposable biopsy forceps, 2,3 mm, 180 cm

B23-230E Disposable biopsy forceps, 2,3 mm, 230 cm y-sterile, box with 10 pcs

TR-59-53



TR-60-120



TR-59-53 Trocar disposal, ID:5 mm, WL:6 cm inflation stopcock, with trocar only box with 25 pcs

TR-60-120 Trocar disposal, ID:12 mm, WL:6 cm complete with reducer 12-8 mm and 5 mm box with 25 pcs



F28-280E Cleaning brush, flex., 230cm, disposable f. channels 1,8-2,8mm, 10pcs/pack



F20-181E Cleaning brush, flex., 180cm, disposable f. channels 1,1-2 mm, 10pcs/pack

• Attention: sterile product - return shipment not accepted

## Products for daily use

H20-001E Spare lamp halogen, 8V/20W  
for light source H20-001 (without picture)

H150-5-E Spare lamp, XENOPHOT,150W/15V  
for light source 981-VK-100 and  
H150-5-2; H150-5-31

LO-40-04 Safety toggle pin acc. to Dr.Janowitz,  
90cm double suture, 5 pcs., for  
laparoscopic abomasal fixation  
\*\*\*extra long version\*\*\*



H150-5-E

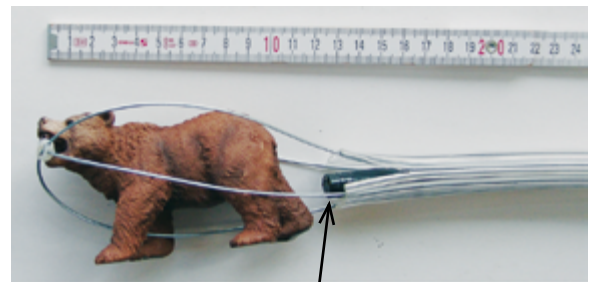


LO-40-04

Brugman's foreign body catcher\*  
for removal of foreign bodies  
compatible to gastroscopes

# New!

- Snare loaded tube for any size of foreign bodies



Gastroscope



insert gastroscope

FK-15-90 Brugman's foreign body catcher, 90 cm,  
ID:15 mm, AD:24 cm; 1 pcs, single use,

FK-15-135 Brugman's foreign body catcher, 135 cm,  
ID:15 mm, AD:24 cm; 1 pcs, single use,

\*\*\*no return shipment

compatible to gastroscopes  
different manufacturers with OD <13mm

\* patent pending

- Attention: disposable product -  
return shipment not accepted





# KERATELIN® Products

## Bovine Keratelin Teat products for teat care

### Suture-Bandage Plug the natural solution

Z-99025-TH KERATELIN "Thelasel"  
teat dilator, OD: 3 mm, box 24 pcs.,  
sterile\*

\*\*\*the revolution in teat dairy care\*\*\*

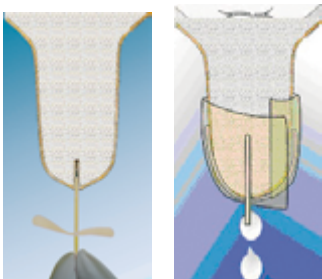
Latest generation  
of natural teat  
canal plugs - first  
choice in any  
fresh cases of distal  
teat injuries  
- plug and tape it -

- for covered / non perforated teat injuries



### KERATELIN "P2-Cath" Permanent Catheter

Z-99027 KERATELIN "P2-Cath" acc. to Schlederer,  
8 pcs., OD: 2,8mm, LL(w),  
individually packed, sterile\*



- for open / perforated teat injuries



### KERATELIN Milk Canula professional teat care

Z-99055 KERATELIN Milk Canula, disposable,  
100 pcs. individually packed, sterile\*

- Attention: sterile product -  
return shipment not accepted

Extra large inner  
diameter,  
available every  
time.

- for easy day milk release  
- easy and gentle to insert  
- fast milk flons





**NEW!**



**- the EquiPorter Pre OR safety sling -**



# 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



4 point carrying frame



on-load operation



belt elongation

- easy mounting
- 4 point lifting/carrying system
- individually adjustable
- two sizes
- washable

**EP1-6170S**

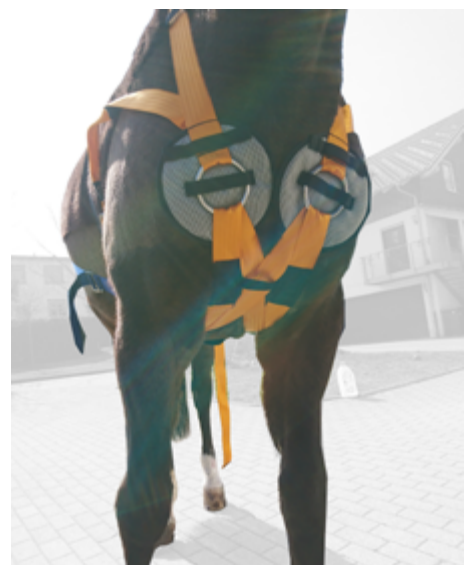
Pre OR safety belt, 170cm, small, max.weight: 600kg set incl.bag, washable (EP1-63)

**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

\*\*Only for short time assisted lifting and weight support procedures (max.5-10min)



– the OR assistant –

Alternative equine surgery table system  
– a new dimension of a mechanical handling –

Worldwide all equine practices and hospitals are faced with same risks during the anesthesia processes. Damages and injury occur from time to time especially during recovery period. Usually, nobody speaks about damage caused by the fact of hanging horses up side down by fixing and pulling their legs towards one crane hook. Enormous costs and precautionary measures are needed to warrant safety and best transportation for the patient and for the working team.

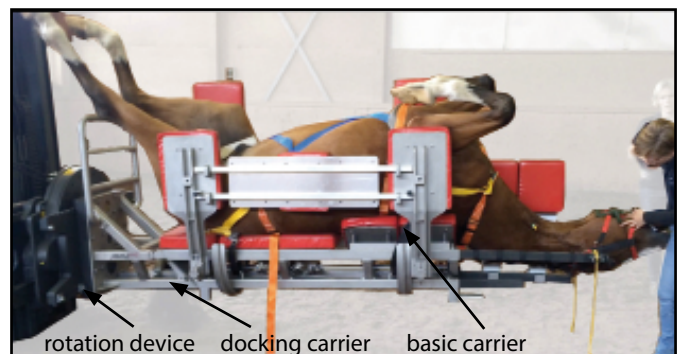
- handling of all OR stages
- release of staff
- safety and protection for patient and team
- reduced staff and time-saving
- working without ceiling crane
- transfer to longtime sling systems
- standing (recovery case-by-case based)



(Thanks TK Nossen) E.Visot System, Paris, 1900



lateral position with forklift truck



rotation device docking carrier basic carrier

dorsal position with forklift

**EP1-10SET**

**„EquiPorter“ the OR assistant system**

by F.Schleiderer & R.Fritz,

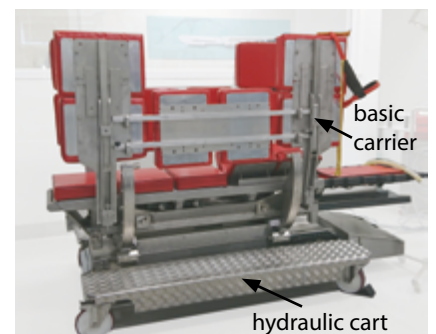
the new farm animal hoisting system,  
stainless steel

set complete consisting of:

- basic carrier with head and leg rest (EP1-100)
- docking carrier incl. fixation plate for 3-5t forklift truck (EP1-110)
- hydraulic cart (EP1-133)
- battery trolley (EP1-134)
- OR harness system (EP1-524)
- pre OR safety belt, large (1,7m) (EP1-6170)
- side head rest with foam 2x (EP1-504)
- head rest cloth + neck cushion 1x (EP1-536/334) weight 1,6t

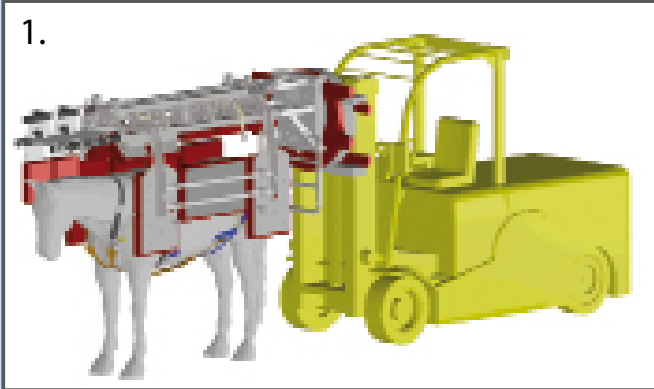


hydraulic OR cart with attached base support

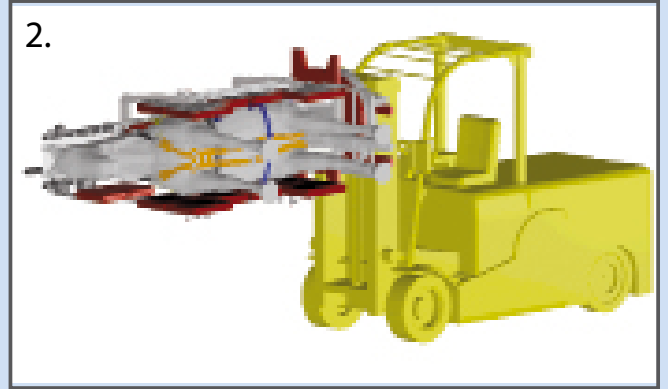


side arms and steel steps fully removable

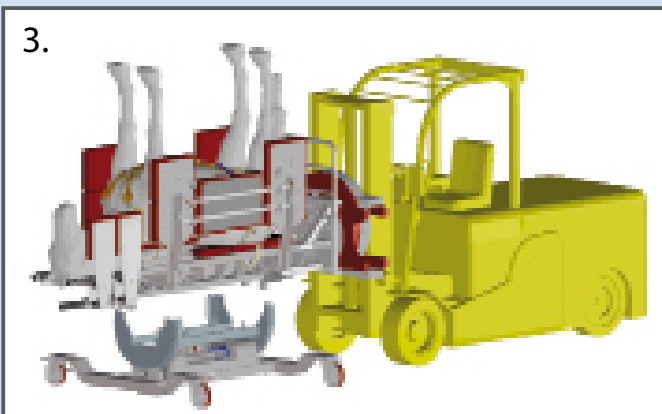
Basic Functions



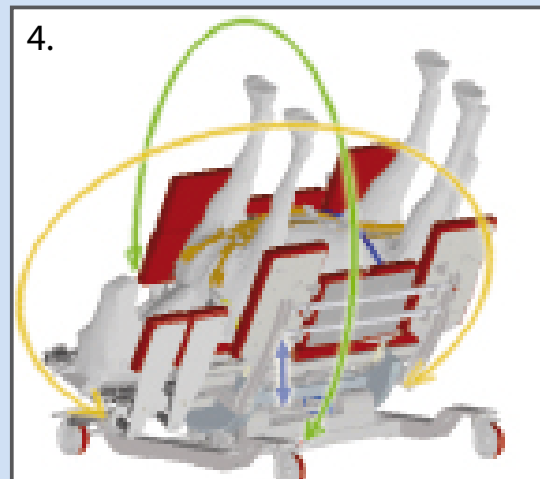
1. Pickup, lifting and transportation in anesthesia



2. Surgery in combination with forklift: rotatable to lateral position left, right and dorsal, lifting in each working level

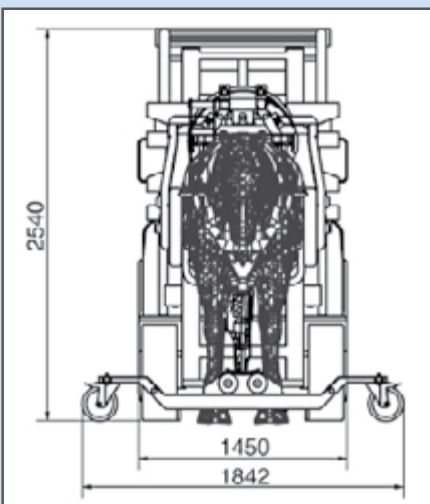


3. Surgery without forklift, detachable to three-axis hydraulic OR cart

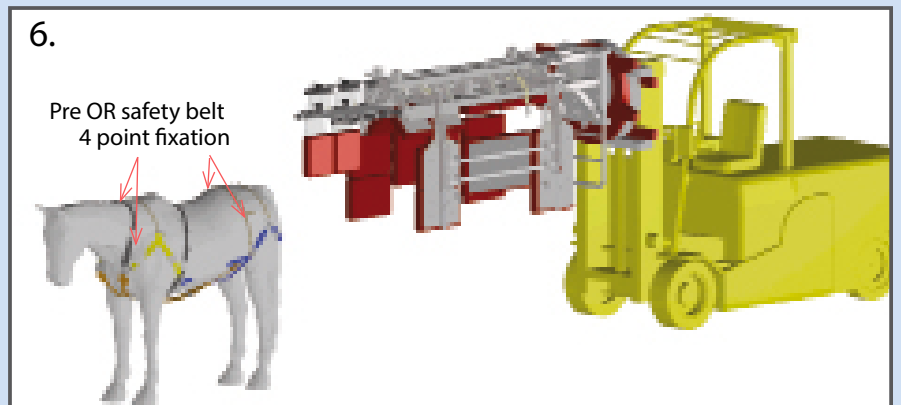


4. Height setting, all side positions, tilting back and front

5. Post surgery: Pickup, handling in reverse steps (3-1)



3-5t forklift drive



6. Wake up – standing or ventral position (case-by-case based)