

Devices



- Light sources
- Video camera
- Special devices
- Video cart



We are changing
veterinary endoscopy



Batterie/LED light Sources

Portable LED light handle

■ 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
Colour temperature 6.100 K
About 60min. working time



■ LED light handle, high power, 3,7V

- Fully immersible
- Waterproof
- Compatible to Dr. Fritz, Wolf

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
Colour temperature 5.500 K
About 45min. working time





Endoscopy - Cameras

HD-Radio-Videocamera, wireless, axiale Version, DIN Ocular with LED

GO WIRELESS

- ✓ Wireless video transmission
- ✓ Ideal for mobile surgery
- ✓ Compatible with standard endoscopes
- ✓ Perfect HD image
- ✓ Fully immersible
- ✓ 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

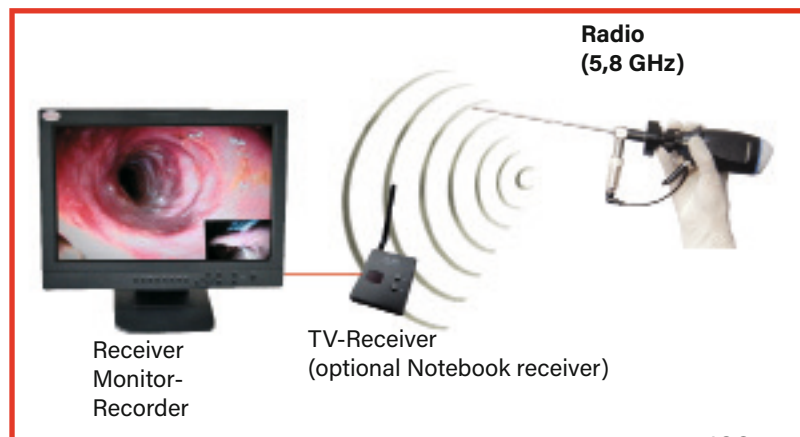
set complete consisting of:

- Camera (51V-C2-D)), weight 295 gr.
- Stop Button (50VC-78)
- Power adapter (TV27-NET)
- 10" Receiver-Monitor/Recorder (TXM10)



Magnetic connector

Video transmission





Endoscopy - Cameras

HD-Radio-Videocamera, wireless, axiale Version, DIN Ocular with LED

TV27-NET

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



TXM10-58R

10" Monitor receiver & recorder 5,8GHz
Micro SD-Card slot, foot for monitor, Li-Io battery, charger, auto scan



Optional:

M-LCD-22AP

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





Recorders and storage systems

■ Video/image playback & storage

M-LCD-22PC 22" profesional LCD monitor & PC,
high definition, 16:9, with capture device &
network connection.
Consisting of:
PC, receiver, keyboard, Biovision capture software
with licence, power adapter 110-240VAC



■ Digital storage unit

PC-97-HDE Video/HD Recorder for HDMI & video signals,
Foto and video recordings
Input: HDMI in, Video in
Output: HDMI out, USB Host
Power supply unit, remote control, USB stick



■ Additional recipients

- a) Monitor receiver with recorder 10" TXM10-58R
- b) Monitor receiver with recorder 5" TXL2-580M
- c) Monitor receiver with recorder 7" TXM7-58R
- d) TV - receiver with Video - Out TXL1-583
- e) Monitor receiver 10" TXM10.58N
- f) Monitor receiver 7" TXM7-59A
- g) Video card, external PC-97-GRA2





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

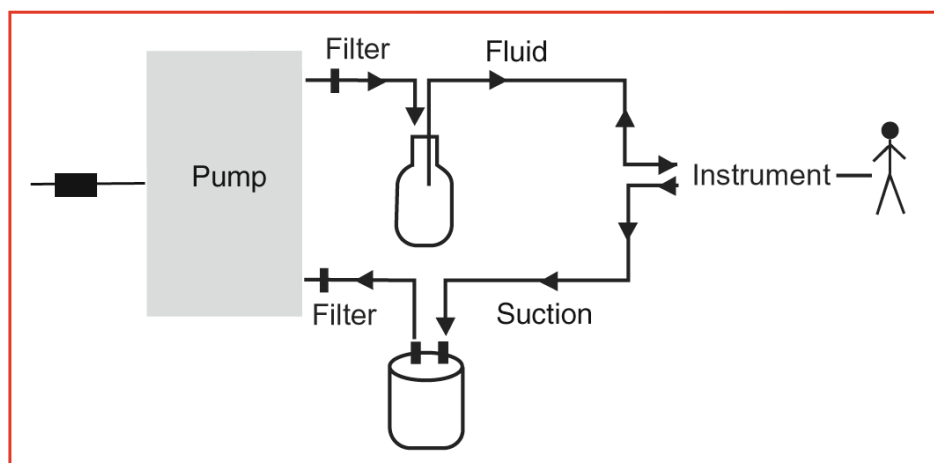


Especially suitable for gastroenterology

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





Special devices - Inflator

CO₂ Inflator, electronically monitored

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



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

Accessories



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

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

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

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



* Sterile product -
return shipment not accepted



Special devices - Pressure infusor

Fluid supply for arthroscopy

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

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



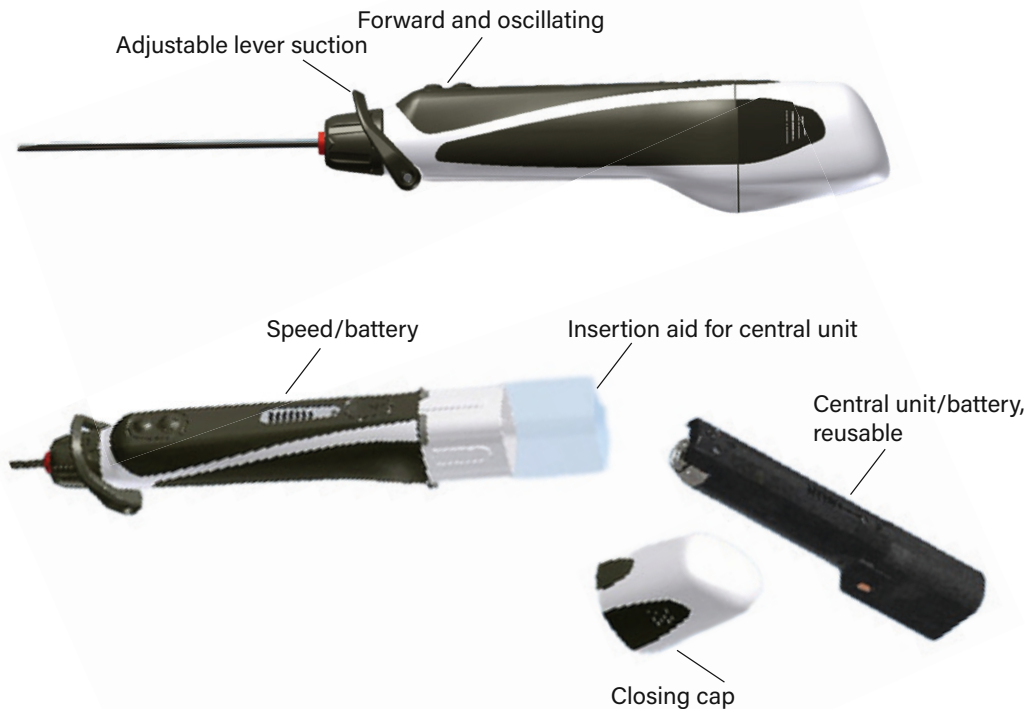
NEW

Devices



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. running 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

Devices



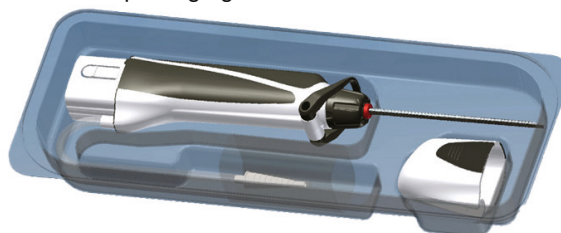
Shaver

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





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:

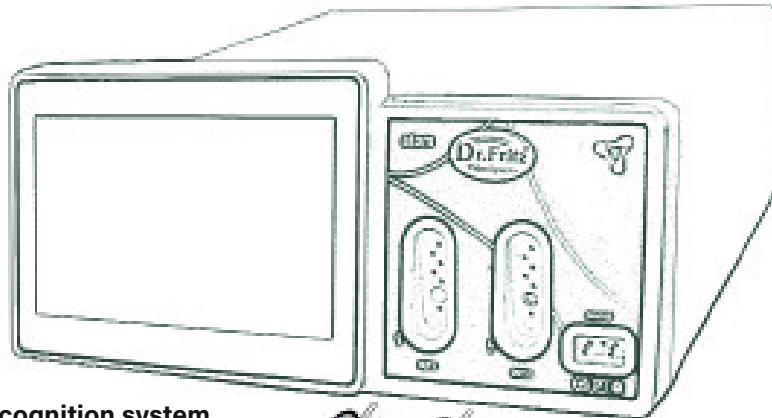
Monopolar	Cutting	400 W
	Coagulation	200 W
	Soft/Forced	+ / +
Bipolar	Cutting	400 W
	Coagulation	200 W
	Auto Start/Stop	+ / +
Bipolar	Thermo-Stapling	+ 300 W
	Thermo sealing	+
	Auto Stop	+
Weight	7 kg	
max. power		420 W



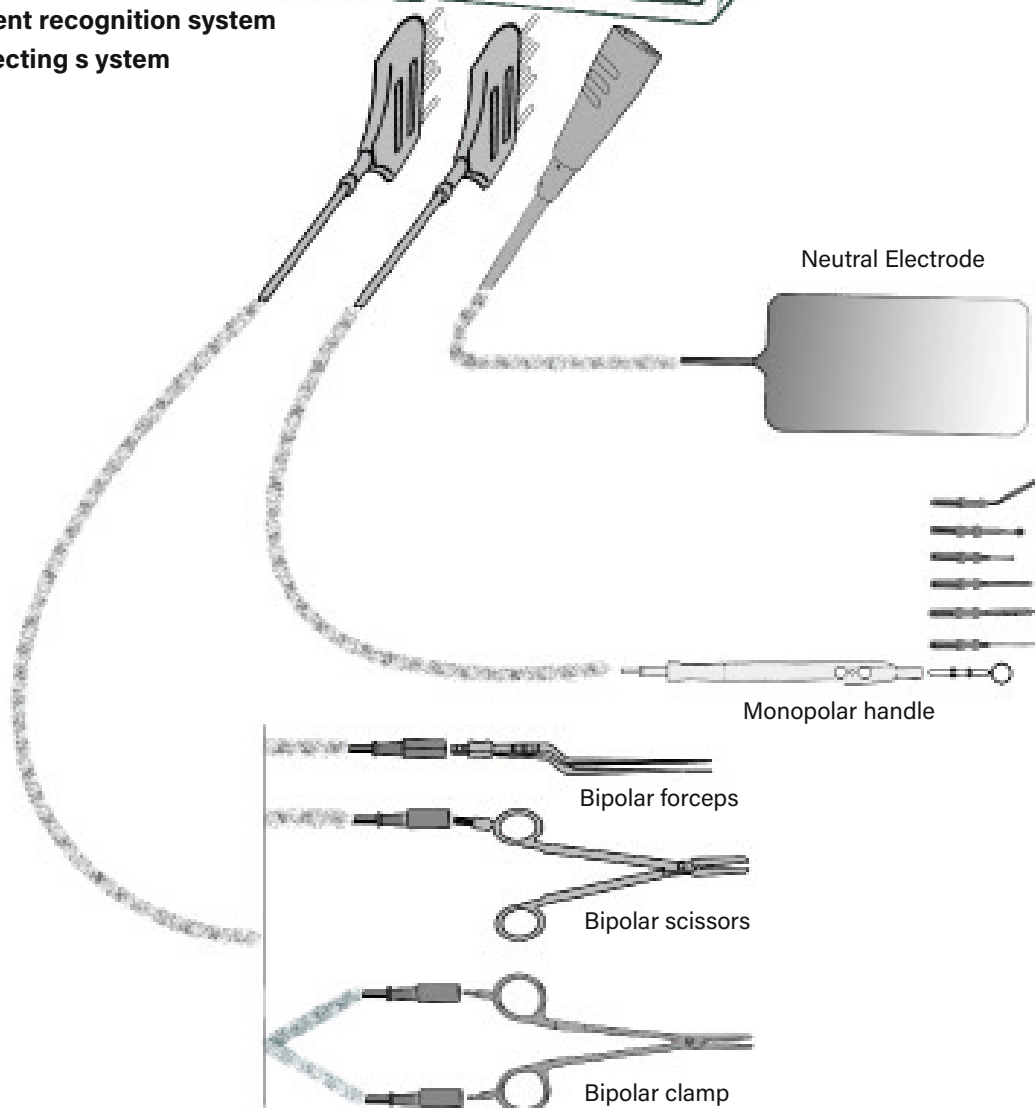
High Frequency Surgery

High End with thermo sealing

■ Surview



SDS - Instrument recognition system
SDS - Self detecting system





High Frequency Surgery

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

Bipolar cable, 3 m,

device side Emed/ Valleylab/Ellman;
instruments side: European/Martin
autoclavable

Device side



Instruments side



BP-371-IT-BI

Bipolar cable, 3 m,

device side: EMED/VALLEY
Instruments side: bipolar,round (2/4mm)
autoclavable

Device side



Instruments side



BP-37-EM-ET

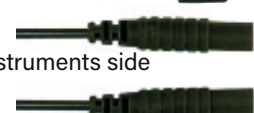
Bipolar cable, 3 m,,

device side: Emed-SDS,
Instruments side: connection (2x3mm),
vessel sealing, autoclavable

Device side



Instruments side



BP-37-EM-MA

Bipolar cable, 3 m,

device side: Emed-SDS
Instruments side: Europa/Martin,
autoclavable

Device side



Instruments side



BP-371-IT-ET

Bipolar cable, 3 m,

device side: EMED/VALLEY
Instruments side:: 2x 3mm
(Ethicon,Val) autoclavable

Device side



Instruments side





Bipolar High Frequency Surgery

Accessories for bipolar applications

■ 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 to **BP-37-EM-ET**



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 to **BP-37-EM-MA**

• Pay attention!
Bipolar forceps are available in different qualities.



High Frequency Surgery

Thermo Sealing, Vessel Sealing

Open surgery

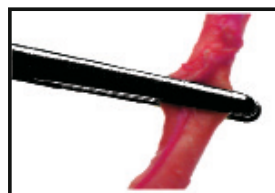
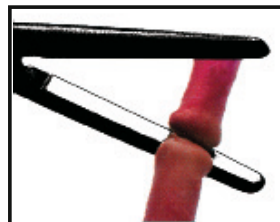
BP-E-K20 Bipolar Clamp, 20 cm, for thermo sealing connection: 2 x3mm

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.



Thermo sealing

Only in conjunction with the device HF-401-TH



Minimal invasive surgery

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 to **BP-37-EM-MA**

Laparoscopy



For bipolar coagulating and cutting.



High Frequency Surgery

Monopolar applications

■ Grounding

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

Large version:

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

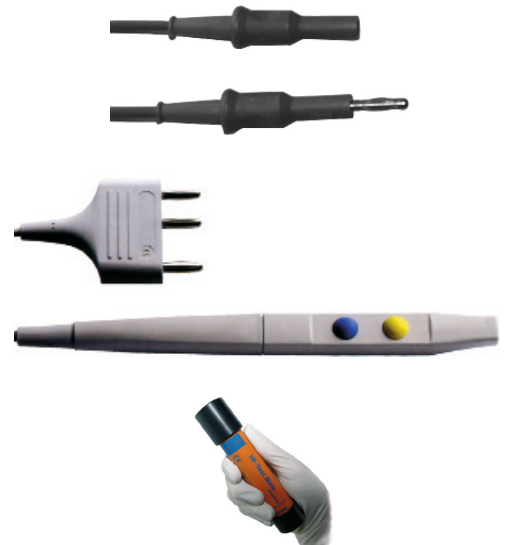


■ Open surgery

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

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



■ Suitable

Suitable electrodes:

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





High Frequency Surgery

Monopolar applications

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

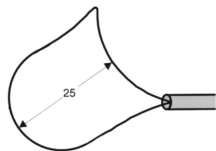


HF-200-90

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

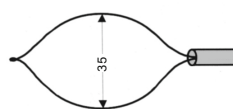


Gastroenterology and Bronchoscopy, flexible instruments



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 polypectomy, HF snares
▪ Standard connections



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 mounting



* Example of cleaning adapter of other manufacturer

Wall or cabinet mounting in connection with soak basin



Hygiene, cleaning and care

Special equipment for cleaning 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 adapter: 110-240VAC, 50/60Hz

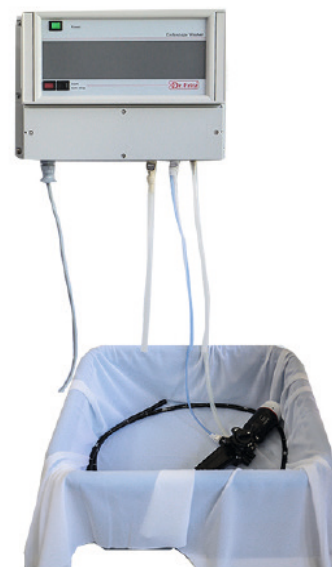
AR-10-922 Sterile filter for CO² infusor and air pressure infusor, compatible for tubes with ID: 4-6mm, disposable, 50pcs/box

Cabinet mounting



Drying hanging

Storage room, cabinet mounting



Drying reclining

* If original cleaning adapter available



Video cart

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