

TEM Transanal Endoscopic Microsurgery



- TEM Scopes
- TEM Rectoscope Tubes
- TEM Forceps
- TEM Pump / Insufflator

Transanal Endoscopic Microsurgery

the minimally invasive solution

As an alternative to more radical abdominal surgery, Transanal Endoscopic Microsurgery (TEM) offers a **minimally invasive solution** for the excision of certain rectal polyps and early stage rectal cancers.

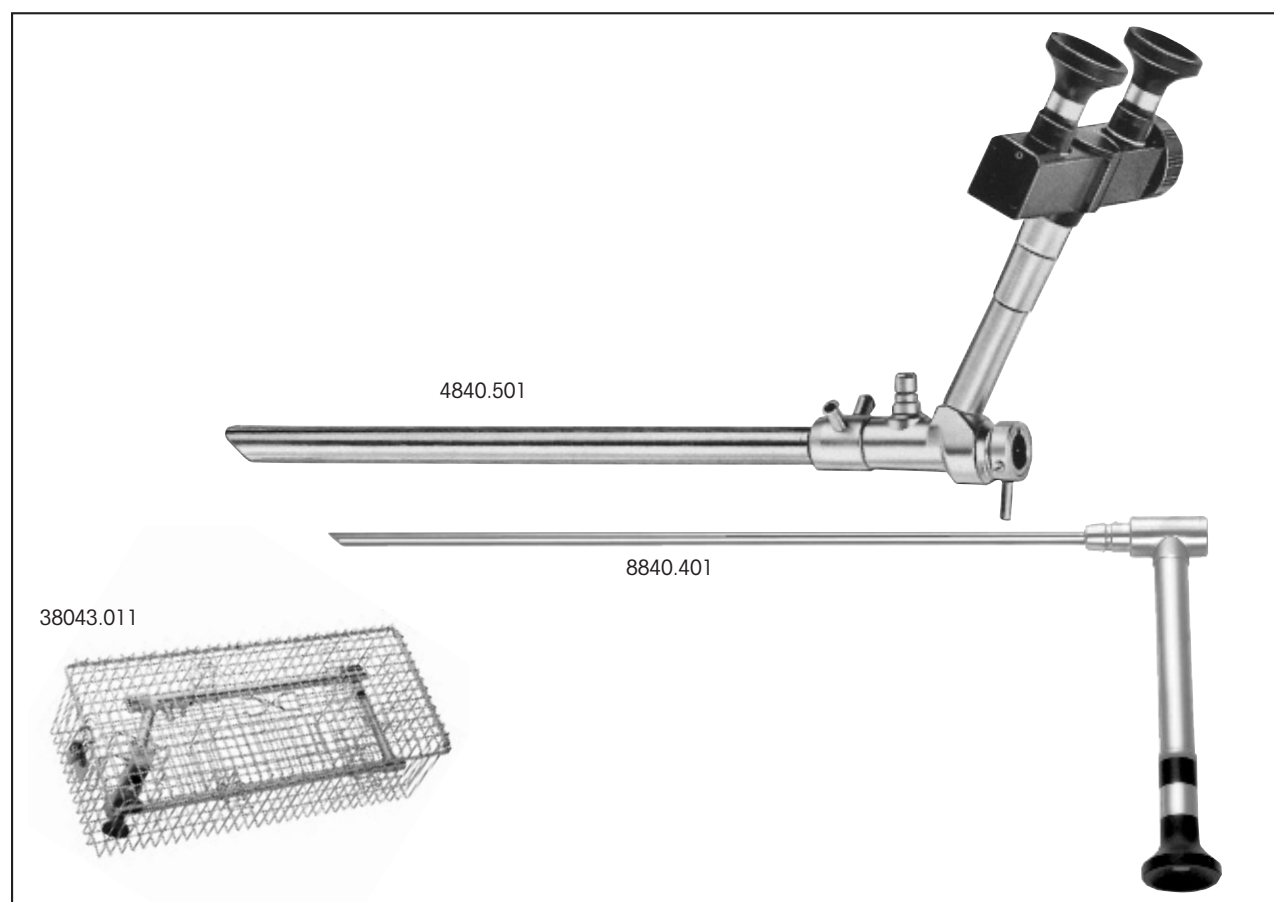
Pioneered in 1983 by German surgeon Dr. Gerhard Buess, TEM has revolutionized the resection of rectal lesions. Performed transanally with specially designed microsurgical instrumentation, TEM has made it possible to excise lesions high inside the rectum that otherwise would be accessible only by major abdominal surgery. The patient benefits of TEM as compared to radical abdominal surgery are clear: no major surgery, no large incision, no colostomy, less pain, faster recovery and shorter hospital stay.

Richard Wolf has worked closely with Dr. Buess to design and develop the instrumentation for TEM. The **Richard Wolf TEM Instrument System** allows access up to 20cm high within the rectum and provides controlled distention and excellent visibility for an optimal surgical environment. The unique stereoscope gives a magnified 3-D image for clear differentiation of tissue layers to ensure precise excision and suturing. The combination pump/insufflator unit is designed to maintain consistent distention of the rectum even during suctioning. Hand instruments are specially angled for precise maneuvering within the rectoscope tubes.

The complete **Richard Wolf TEM Instrument System** is designed to give the surgeon the precision instruments he needs to achieve successful outcomes with Transanal Endoscopic Microsurgery.



Telescopes



Stereo Scope

for direct visualization, 3D imaging, 6X magnification, 13.8mm OD, 50° angle of view, 75° field of view, non-autoclavable4840.501

Documentation Scope

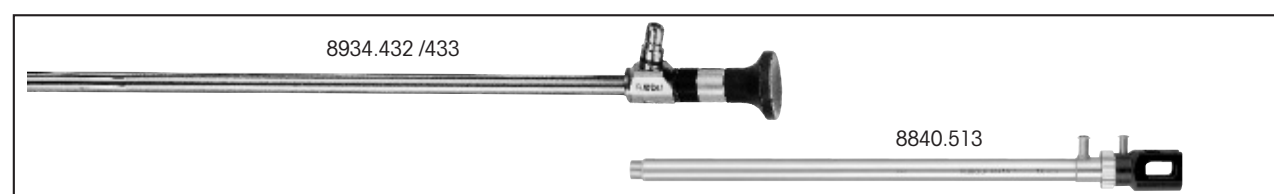
for use with endocam for monitor viewing, 6.6mm OD, 40° angle of view, autoclavable8840.401

Fiberoptic Light Cable,

4.5mm bundle, 3M WL8061.0456

Instrument Tray,

to accommodate stereo scope and documentation scope for storage and sterilization38043.011



10mm Laparoscope and Sheath (an alternative to stereo/documentation scopes)

10mm Laparoscope

Panoview Plus, 300mm WL

30° angle of view8934.432

50° angle of view8934.433

Rinsing/Insufflation Sheath

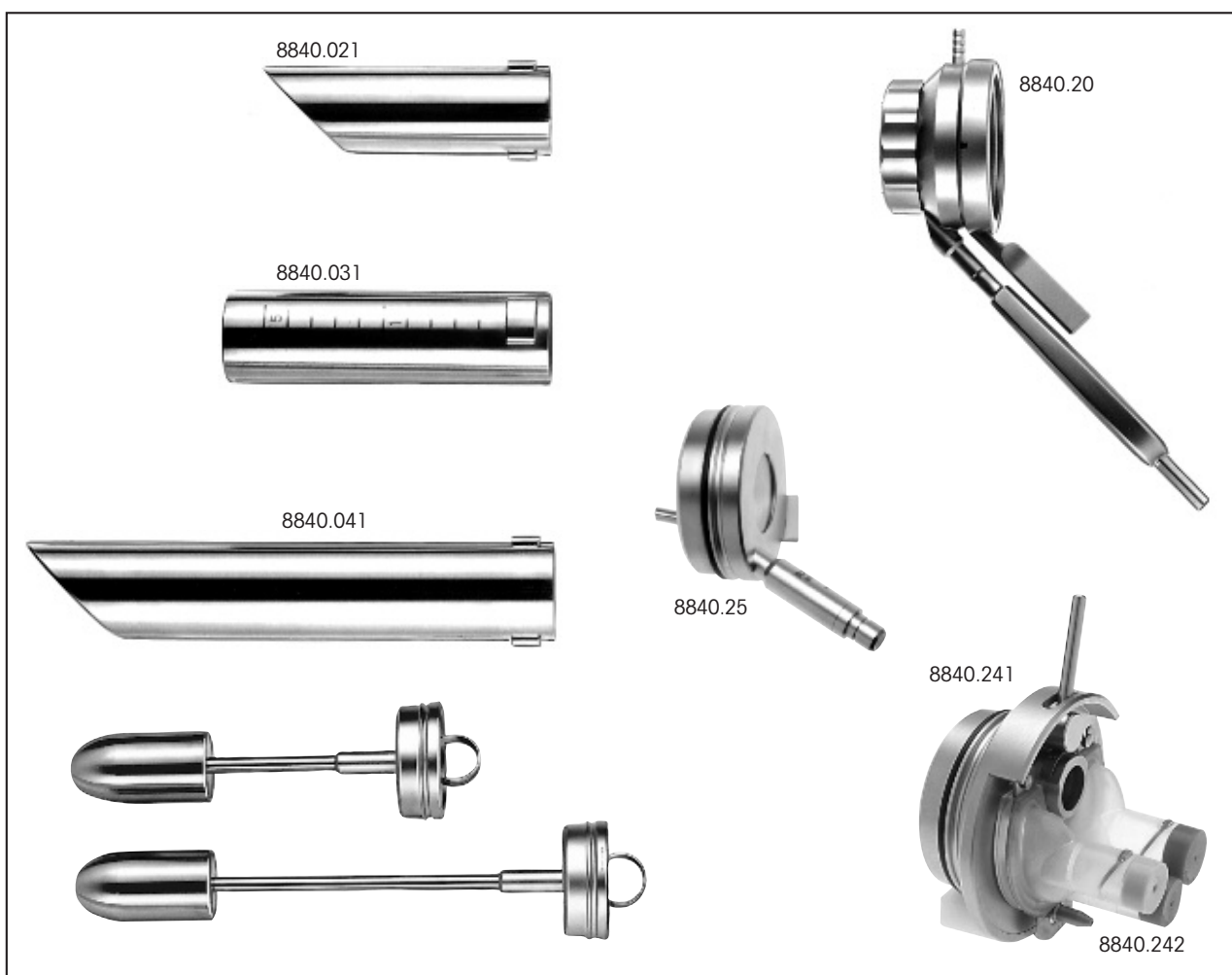
used with 10mm laparoscope for TEM, with channels for rinsing and

insufflation, 13.8mm OD, 260mm WL8840.513

Fiberoptic Light Cable,

4.5mm bundle, 3M WL8061.0456

Rectoscope Tubes



Handle and Bridge Assembly8840.20

Rectoscope Tube,

including obturator,
outer diameter 40 mm,

- 120 mm long, oblique edge8840.021
- 137 mm long, flat edge8840.031
- 200 mm long, oblique edge8840.041

Viewing window8840.25

Working Faceplate

attaches to 8840.20, includes silicone sealing insert8840.241

Replacement Silicone Sealing Inserts

pkg / 3, includes bag of assorted sealing caps8840.242

Replacement Sealing Caps

for silicone sealing insert:

fits left and center ports

- No hole,red89.20 RE
- 3mm to 5mm,blue89.02 BL
- 5mm to 6mm,grey89.03 GY

fits right (larger size) port

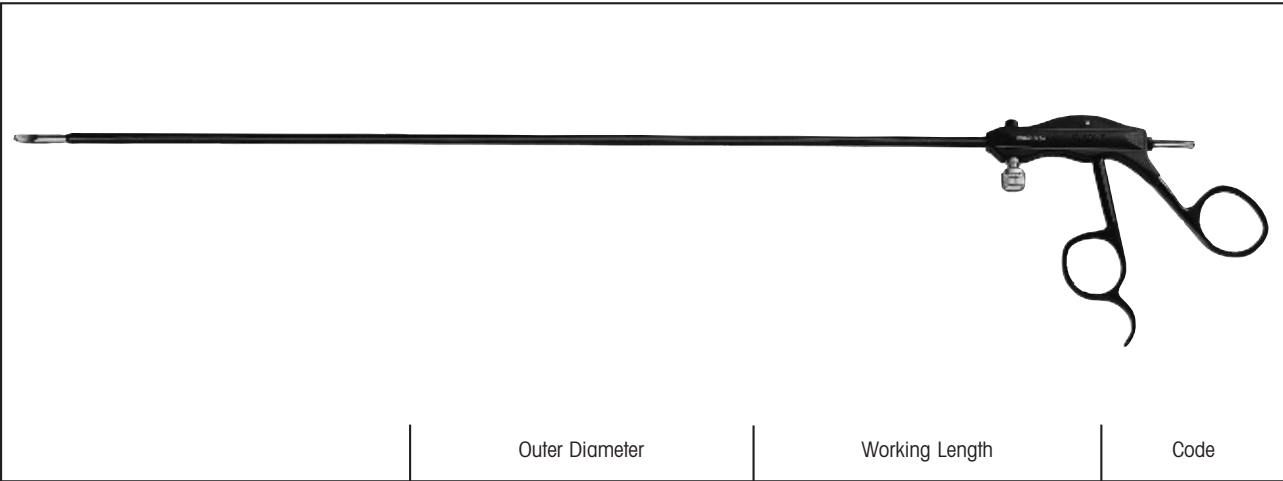

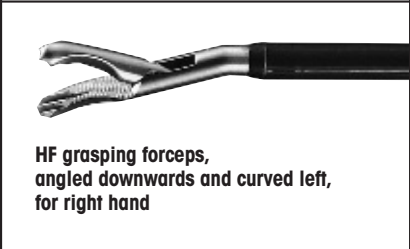
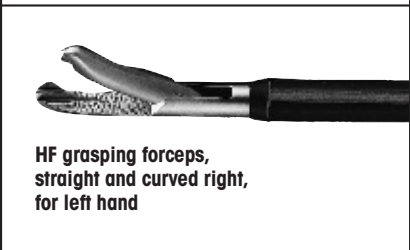
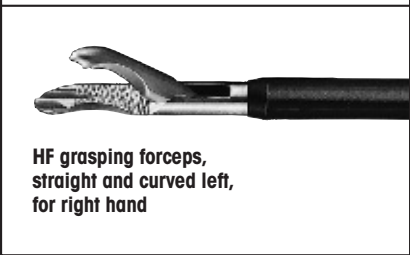
- No hole,red89.21 RE
- 4mm to 6mm,red89.141

Replacement Sealing Cap

for backside of faceplate:

- 13 mm to 14 mm,red89.10 RE

Grasping Forceps, monopolar

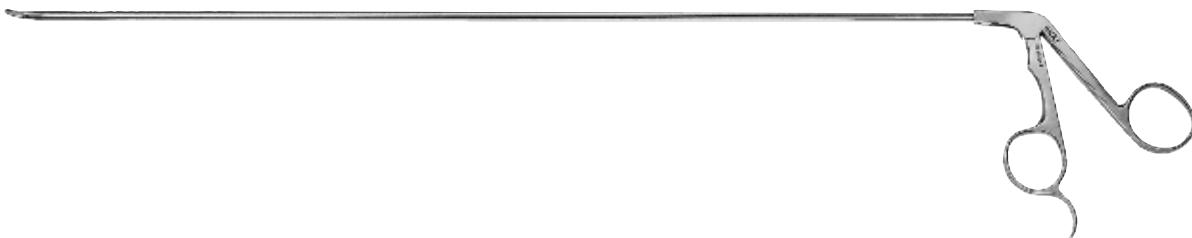
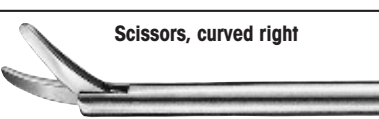
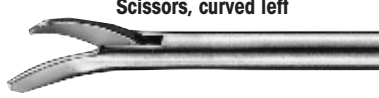
			
	Outer Diameter	Working Length	Code
 HF grasping forceps, angled downwards and curved right, for left hand	4.6 mm	405 mm	8840.621
 HF grasping forceps, angled downwards and curved left, for right hand	4.6 mm	405 mm	8840.622
 HF grasping forceps, straight and curved right, for left hand	4.6 mm	405 mm	8840.623
 HF grasping forceps, straight and curved left, for right hand	4.6 mm	405 mm	8840.624

HF connecting cable

Wolf to Valley Lab 10 ft. reusable8106.033



Wolf to Valley Lab 10 ft., sterile disposable, pkg / 104106.0330

Scissors

			
	Outer Diameter	Working Length	Code
 Scissors, curved right	4.6 mm	405 mm	8840.643
 Scissors, curved left	4.6 mm	405 mm	8840.644

Knife, monopolar

for marking and dissecting




				
		Outer Diameter	Working Length	Code
 needle tip with ceramic insulation	curved left, for right hand	4 mm	425 mm	8840.711
	curved right, for left hand	4 mm	425 mm	8840.712

HF connecting cable

Wolf to Valley Lab 10 ft. reusable8106.033




Wolf to Valley Lab 10 ft., sterile disposable, pkg / 104106.0330

Needle Holders*



 <p>8840.605 with self-righting feature</p>			
	Outer Diameter	Working Length	Code
 Needle holder, self-righting angled downwards	4.6 mm	405 mm	8840.605
 Needle holder straight	4.6 mm	405 mm	8840.604

*recommended suture 3.0 PDS with SH needle

Suture Clip Forcep

			
	Outer Diameter	Working Length	Code
 Suture clip forcep (with clip ejector 8840.763)	6 mm	405 mm	8840.762
 Suture clips, pure silver sterile packets w/6 clips, box/10 packets			4840.765

Suction Tube



				
		Outer Diameter	Working Length	Code
 Coagulation suction tube	curved right	6 mm	470 mm	8840.731

HF connecting cable

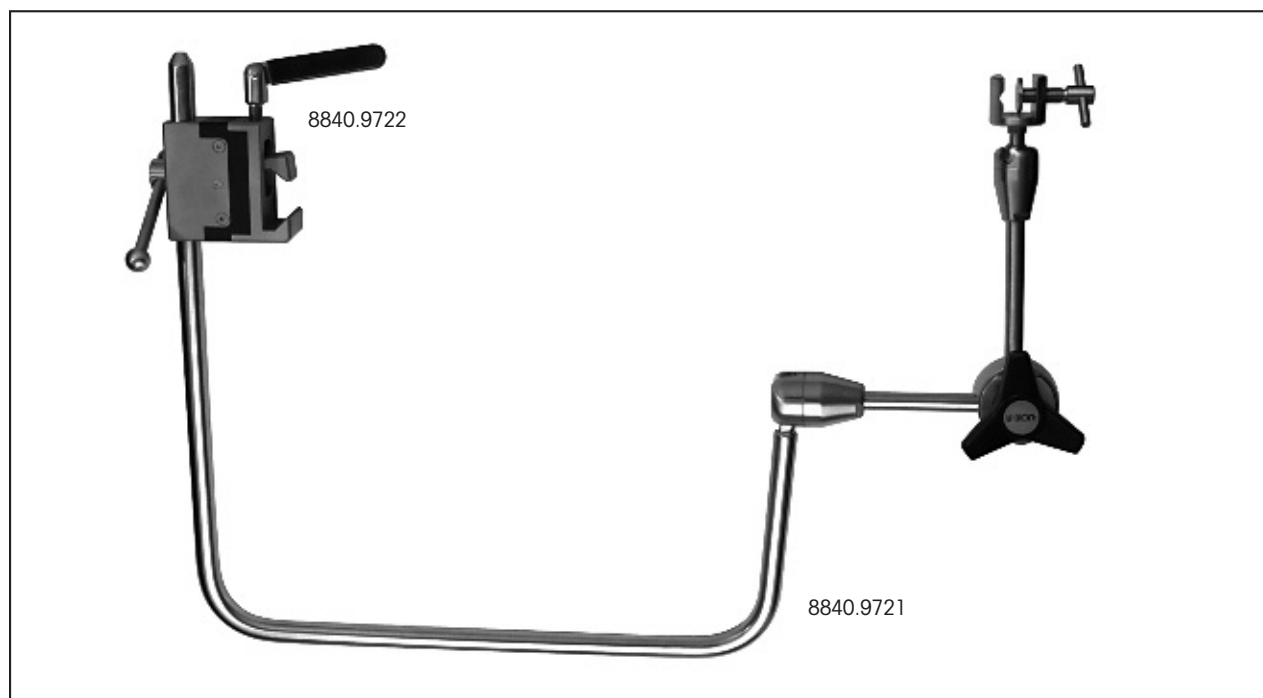
Wolf to Valley Lab 10 ft. reusable8106.033

Wolf to Valley Lab 10 ft., sterile disposable, pkg / 104106.0330

Retractable Needle

			
	Outer Diameter	Working Length	Code
 Retractable Needle 25 gauge	4 mm	325 mm	8840.74

U-shaped Support Arm



U-shaped Support Arm

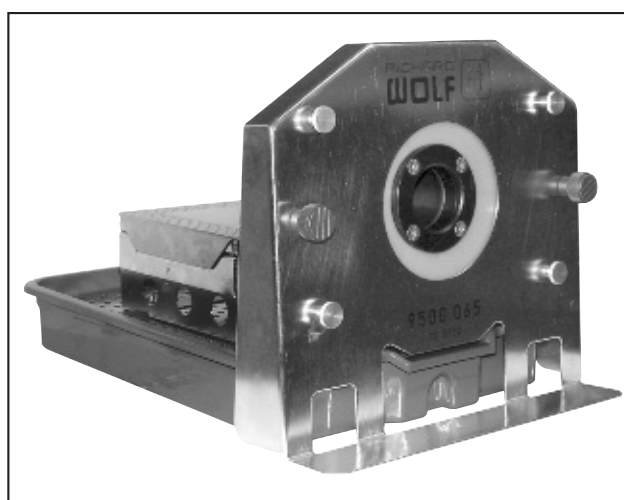
with special clamping device to position and stabilize the handle/bridge assembly8840.9721

Instrument Tray

for U-shaped support arm and mounting block, metal construction, 16"L x 17"W x 5"H8585.026

Universal Mounting Block

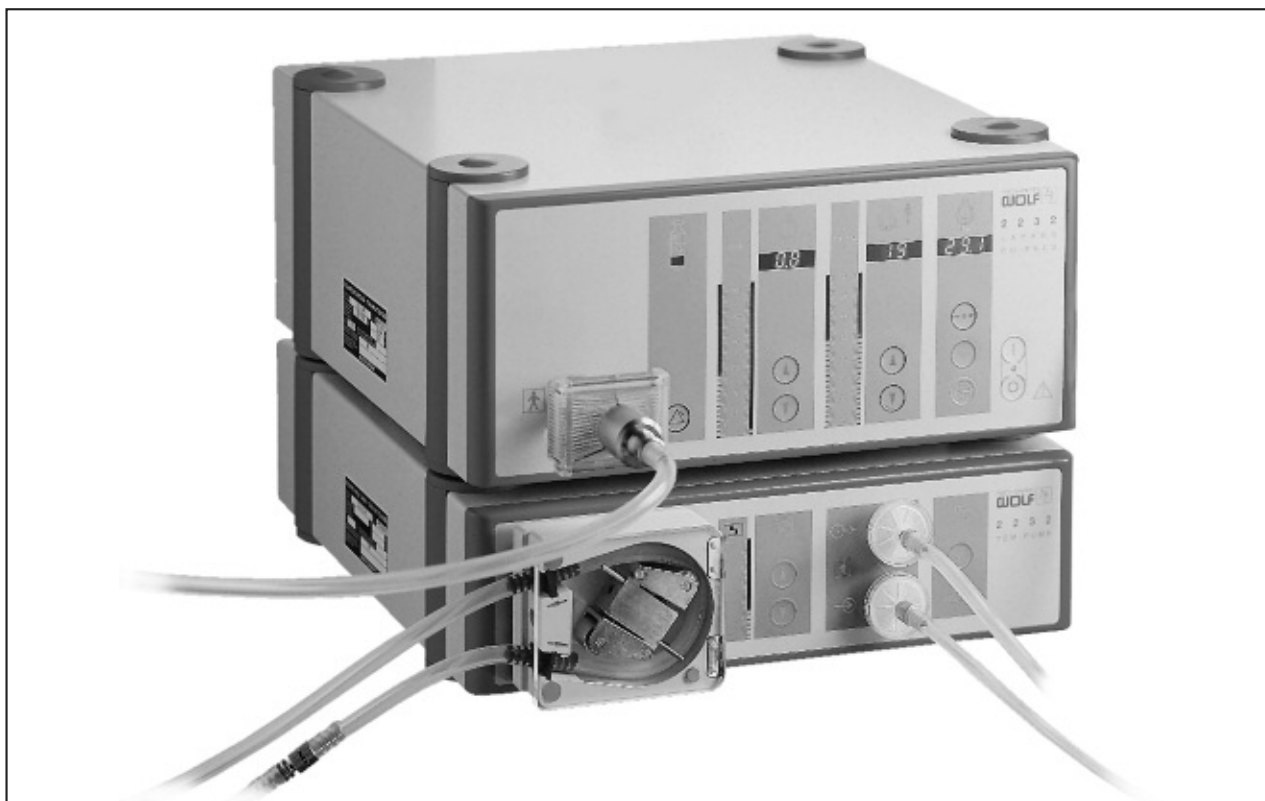
mounts 8840.9721 to operating bed (standard rail)8840.9722



TEM Trainer

for simulation and technique practice of the Transanal Endoscopic Microsurgery procedure. Accommodates both animal tissue specimens and inanimate tissue models. Includes clamps for securing trainer to table top9500.065

TEM Combination System 2232



TEM Combination System 2232

Comprised of: TEM CO2 Pneu Insufflator (2232.641); TEM Pump (2232.644); irrigation bottle bracket (2232.841); footswitch (2030.231); TEM disposable kit (4170.811) x 22232.211

TEM Irrigation Bottle Connector







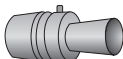
for Baxter, Abbott/Hospira and McGaw irrigation bottles8383.951

TEM Cart

2 shelves plus drawer, CO2 tank brackets, power strip,
24"W x 22"D x 35"H41066.3109



TEM Disposables and Accessories

	Product Number	Description
	4170.811	TEM Disposables Kit, includes: (1) Tubing set, sterile (1) Hand blower, sterile, latex-free (1) Suture clips, sterile, pack / 6 clips single-use, one kit per procedure
	4840.765	Suture clips, sterile, single-use, 6 clips per pack, box / 10 packs
	127.0005	Hand Blower, sterile, latex-free, single-use, box / 5
	4170.801	TEM Tubing Set, sterile, single-use, for one procedure
Sealing Caps	89.02 BL	Blue, 3mm - 5mm, for left port on silicone sealing insert, bag/12
	89.03 GY	Grey, 5mm - 6mm, for center port on silicone sealing insert, bag/12
	89.141	Red, 4mm - 6mm, for right (larger sized) port on silicone sealing insert, bag/10
	89.10 RE	Red, 13mm - 14mm, for backside of faceplate, bag/12
O-Rings	N160044	Black O-Ring, for inside of Baxter (8383.952) and Abbott/Hospira (8383.953) bottle adapters
	N120030	Red O-Ring, for inside of McGaw (8383.951) bottle adapters
	15364.067	Large Black O-Ring for faceplate 8840.241
	8585.021	Instrument Tray For storage and sterilization of rectoscope tubes, handle/bridge assembly, faceplate, hand instruments and accessories. Metal construction 27"L x 11"W x 8"H
	8585.026	Instrument Tray for storage and sterilization of U-shaped support arm and clamp. Metal construction 16"L x 17"W x 5"H
	38043.011	Stereoscope Tray For storage and sterilization of stereoscope 4840.501 Also holds documentation scope 8840.401 Metal construction 18"L x 8"W x 6"H
	8840.591	Sealing Cone, to seal documentation scope port on stereoscope 4840.501 when the documentation scope is not used

Complete Set

for Transanal Endoscopic Microsurgery (TEM)

Item #	Product	Recommended Qty.
8840.20	Basic element (primary handle and bridge)	1
8840.021	Rectoscope tube w / obturator 40mm dia., 120mm length, oblique edge	1
8840.031	Rectoscope tube w / obturator 40mm dia., 137mm length, flat edge	1
8840.041	Rectoscope tube w / obturator 40mm dia., 200mm length, oblique edge	1
8840.25	Adapter w / viewing window and illumination insert	1
8840.241	Working faceplate for endoscope and instruments	1
8840.242	Sealing sleeves, silicone, pkg / 3	2
4840.501	Stereo endoscope, 50°	1
8840.401	Documentation endoscope for video, 40°	1
8840.9721	Articulated instrument support arm	1
8840.9722	Clamping device for attachment of instrument support arm to operating table	1
8840.731	Coagulating / aspirating tube, 47cm long	1
8840.711	High frequency knife, curved left, for right hand	2
8840.712	High frequency knife, curved right, for left hand	1
8840.624	High frequency grasper, straight, curved left, for right hand	1
8840.623	High frequency grasper, straight, curved right, for left hand	1
8840.622	High frequency grasping, angled down, curved left, for right hand	1
8840.621	High frequency grasping, angled down, curved right, for left hand	1
8840.604	Needle holder, straight	2
8840.605	Needle holder, angled downwards	2
8840.74	Retractable needle	1
8840.643	Scissors, right curved	1
8840.644	Scissors, left curved	1
8840.762	Suture clip forceps	2
8106.033	High frequency connecting cable, Wolf to Valleylab generator (Bovie)	1
8061.0456	Fiber light cable, 4.5mm, 10ft.	1
8383.951	Irrigation bottle adapter	1
2232.211	TEM Combination System, Pump and CO2 Pneu Insufflator	1
9500.065	TEM Trainer System	1
8585.021	Sterilization and storage tray for hand instruments and rectoscope tubes	2
8585.026	Sterilization and storage tray for support arm and clamp	1
38043.011	Sterilization and storage tray for stereo and documentation scopes	1
41066.3109	Cart, 2 shelves plus drawer, 24"W x 22"D x 35"H	1
4170.811	TEM Disposables Kit, includes tubing set, hand blower, packet of suture clips	5
4840.765	Suture Clips, sterile, 6 clips per packet, box/10 packets	1
127.0005	Hand blower, latex-free, disposable, sterile, box/5	1